U. S. DEPARTMENT OF LABOR
BUREAU OF LABOR STATISTICS
ROYAL MEEKER, Commissioner

BULLETIN OF THE UNITED STATES BUREAU OF LABOR STATISTICS . . . WHOLE NUMBER 151

WAGES AND HOURS OF LABOR SERIES: No. 11

WAGES AND HOURS OF LABOR IN THE IRON AND STEEL INDUSTRY IN THE UNITED STATES, 1907 TO 1912

MAY 15, 1914

WASHINGTON
GOVERNMENT PRINTING OFFICE
1914

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

CONTENTS.

Wages and hours of labor in the iron and steel industry: Page.

Introduction and summary 7–15
Common laborers 14, 15
Explanation of scope and method 16–22
Functions of the several departments 22–25
Iron smelting 22, 23
Blast furnaces 22, 23
Steel making 23, 24
Bessemer converters 23
Open-hearth furnaces 23, 24
Steel working—rolling mills 24, 25
Blooming mills 24
Plate mills 24
Standard rail mills 24
Bar mills 24, 25
Sheet mills 25
Tinplate mills 25
Previous reports 25
Importance of the industry 26
Blast furnaces 27–99
Summary 27–36
Description of occupations 37–41
Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1907 to 1912. 42–47
Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1907 to 1912 48–61
Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1907 to 1912 .. 62–71
Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1907 to 1912 72–76
Table V.—Average and classified full-time hours of work per week in each year, by districts, 1907 to 1912 77–89
Table VI.—Average and classified full-time hours of work per week in each district, by years, 1907 to 1912 90–99
Bessemer converters 100–169
Summary 100–110
Description of occupations 111–116
Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1907 to 1912. 117–122
Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1907 to 1912 123–136
Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1907 to 1912. 137–143
Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1907 to 1912 144–149

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

Wages and hours of labor in the iron and steel industry—Continued. Page.
Bessemer converters—Concluded.
Table V.—Average and classified full-time hours of work per week in each year, by districts, 1907 to 1912 150–162
Table VI.—Average and classified full-time hours of work per week in each district, by years, 1907 to 1912 163–169
Open-hearth furnaces 170–210
Summary 170–176
Description of occupations 177–180
Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1910 to 1912. 181–183
Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1910 to 1912. 184–191
Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1910 to 1912. 192–196
Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1910 to 1912 ..... 197, 198
Table V.—Average and classified full-time hours of work per week in each year, by districts, 1910 to 1912 199–205
Table VI.—Average and classified full-time hours of work per week in each district, by years, 1910 to 1912 206–210
Blooming mills 211–244
Summary 211–216
Description of occupations 217–221
Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1910 to 1912. 222, 223
Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1910 to 1912. 224–229
Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1910 to 1912.. 230–233
Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1910 to 1912 ..... 234, 235
Table V.—Average and classified full-time hours of work per week in each year, by districts, 1910 to 1912 236–240
Table VI.—Average and classified full-time hours of work per week in each district, by years, 1910 to 1912 241–244
Plate mills 245–283
Summary 245–251
Description of occupations 252–256
Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1910 to 1912. 257–259
Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1910 to 1912. 260–266
Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1910 to 1912.. 267–270
Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1910 to 1912 ..... 271, 272
Table V.—Average and classified full-time hours of work per week in each year, by districts, 1910 to 1912 273–279
Table VI.—Average and classified full-time hours of work per week in each district, by years, 1910 to 1912 280–283

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

Wages and hours of labor in the iron and steel industry—Concluded. Page.
Standard rail mills ... 284–328
Summary ... 284–291
Description of occupations ... 292–295
Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1910 to 1912. 296–299
Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1910 to 1912. 300–307
Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1910 to 1912. 308–312
Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1910 to 1912 ... 313–316
Table V.—Average and classified full-time hours of work per week in each year, by districts, 1910 to 1912 ... 317–323
Table VI.—Average and classified full-time hours of work per week in each district, by years, 1910 to 1912 ... 324–328
Bar mills ... 329–518
Summary ... 329–340
Description of occupations ... 341–345
Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1907 to 1912. 346–366
Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1907 to 1912. 367–411
Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1907 to 1912.. 412–436
Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1907 to 1912 ... 437–454
Table V.—Average and classified full-time hours of work per week in each year, by districts, 1907 to 1912 ... 455–494
Table VI.—Average and classified full-time hours of work per week in each district, by years, 1907 to 1912 ... 495–518
Sheet mills ... 519–531
Summary ... 519–524
Description of occupations ... 524–527
Table I.—Average full-time weekly earnings and average and classified rates of wages per hour, by years, 1910 to 1912 ... 528, 529
Table II.—Average and classified full-time hours of work per week, by years, 1910 to 1912 ... 530, 531
Tinplate mills ... 532–550
Summary ... 532–538
Description of occupations ... 539–542
Table I.—Average full-time weekly earnings and average and classified rates of wages per hour, by years, 1910 to 1912 ... 543–546
Table II.—Average and classified full-time hours of work per week, by years, 1910 to 1912 ... 547–550

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

BULLETIN OF THE
U. S. BUREAU OF LABOR STATISTICS.

WHOLE NO. 151. WASHINGTON. MAY 15, 1914

WAGES AND HOURS OF LABOR IN THE IRON AND STEEL INDUSTRY, 1907 TO 1912.

INTRODUCTION AND SUMMARY.

In this report are presented the full-time weekly earnings, the rates of wages or earnings per hour, and the customary full-time hours of labor per week in the principal productive occupations in nine departments or subdivisions of the iron and steel industry in the United States.

The several departments of the industry covered and the years for which information is shown are as follows:

Iron smelting:
- Blast furnaces, 1907–1912.

Steel making:
- Bessemer converters, 1907–1912.
- Open-hearth furnaces, 1910–1912.

Steel working:
- Rolling mills—
  - Blooming mills, 1910–1912.
  - Plate mills, 1910–1912.
  - Standard rail mills, 1910–1912.
  - Bar mills, 1907–1912.
  - Sheet mills, 1910–1912.
  - Tinplate mills, 1910–1912.

The information here presented is for one pay-roll period in each year obtained from certain representative plants in the industry. Because of the magnitude of the work, it was not practicable for the Bureau to collect data from all establishments operating in the United States, nor for a full year in the establishments covered. The pay period taken in most cases was the second half of May each year. When conditions in May were not normal, data were taken for a normal period as near May as available. The occupations for which data are shown, however, constitute nearly all of the principal productive occupations in the nine departments covered.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

In three departments data were obtained back to 1907. But owing to the difficulty of finding establishments having satisfactory records for past years and also owing to the amount of work involved, data for 1907 to 1909 were obtained from a smaller number of establishments than have furnished data for the later years. In six departments no data were obtained for years earlier than 1910.

The number of plants covered each year and the number of employees for whom data are presented each year are stated in the table on p. 16.

In the chapters relating to the several departments the full-time weekly earnings, the full-time hours of labor per week, the rates of wages or earnings per hour are shown for each occupation, and these figures are summarized in the form of percentages which show the trend of wages and hours from year to year in each department. Such summary figures for the several departments are assembled for the convenience of the reader in this general introduction.

Compared with 1907, the years 1908 and 1909 were years of reduced earnings for the employees of the iron and steel industry. In the blast-furnace department the average full-time weekly earnings in 1908 were 5.8 per cent lower than in 1907; and in 1909, 0.9 per cent lower than in 1908. In the Bessemer department the lowest point in the six-year period was in 1908, when the full-time weekly earnings of the employees were 8.4 per cent lower than in 1907. The lowest point in the bar-mill department was likewise in 1908, when the full-time weekly earnings were 10.2 per cent lower than in 1907. The full-time weekly earnings were at their highest in the six-year period in 1911 in the blast-furnace department, in 1912 in the Bessemer department, and in 1910 in the bar-mill department.

In 1912 full-time weekly earnings in blast furnaces were 1.1 per cent higher than in 1907, 7.3 per cent higher than in 1908, 8.2 per cent higher than in 1909, 0.3 per cent higher than in 1910, and 0.6 per cent lower than in 1911.

Full-time weekly earnings in the Bessemer converting department in 1912 were 4.5 per cent higher than in 1907, 14 per cent higher than in 1908, 7.2 per cent higher than in 1909, 2.6 per cent higher than in 1910, and 7.5 per cent higher than in 1911.

In bar mills the full-time weekly earnings in 1912 were 2.4 per cent lower than in 1907, 8.7 per cent higher than in 1908, 6.3 per cent higher than in 1909, 3.8 per cent lower than in 1910, and 1.0 per cent higher than in 1911.

For the other six departments figures were obtained only for the three years 1910, 1911, and 1912. In five departments—open hearth, blooming, plate, sheet, and tinplate—full-time weekly earnings were higher in 1912 than in either of the two years preceding. In standard rail mills the full-time weekly earnings were the highest in 1910.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

In the blast-furnace, Bessemer, and bar-mill departments there was a reduction of hours of labor between 1907 and 1912, and, except in plate mills, all departments show a reduction of hours between 1910 and 1912.

The facts above quoted are drawn from the following table, which treats of three correlated subjects: Full-time hours of labor per week, rates of wages per hour, and full-time weekly earnings. The heavy-faced figures of this table are relative numbers. These relative numbers are simply percentages computed from the actual weekly earnings, the actual hours of labor, and the actual rates of wages per hour appearing in the tables relating to the occupations in the several departments. In computing such relative numbers, the actual figures for 1912 are taken as the base, or 100 per cent; thus the facts for each preceding year are brought into direct comparison with the facts for the latest year available, namely, 1912. The relative for each year preceding 1912 is the per cent that the average in that year is of the average for 1912. For example, the table following shows that the relative full-time weekly earnings of employees in blast furnaces in 1907 were 98.9 per cent of such weekly earnings in 1912. In 1908 the weekly earnings decreased to 93.2 per cent of the earnings in 1912. In 1909 they were only 92.4 per cent of the weekly earnings in 1912. There was an increase in weekly earnings in 1910 and in 1911. In 1911 the weekly earnings were higher than they were in 1912, the relative for 1911 being 100.6 as against 100 in 1912. The relative numbers for full-time hours per week in blast furnaces decreased from 104.1 in 1907 to 100 in 1912. In other words, the average full-time hours of work per week in 1907 were 104.1 per cent of the average full-time hours in 1912. The other relative numbers of the table are read in like manner. The method of computing these relative numbers from the averages of the hours and wages shown in the several tables of this report is explained on page 21.

In addition to the relative numbers in this table, percentages have been computed showing the per cent of increase or decrease in 1912, as compared with each year preceding 1912; while in another column is given the per cent of increase or decrease in each year compared with the year immediately preceding.

Referring to the weekly earnings of blast-furnace employees in the table, it is seen that the weekly earnings in 1912 were 1.1 per cent higher than in 1907, 7.3 per cent higher than in 1908, etc.

The next column shows that the weekly earnings of blast-furnace employees in 1908 were 5.8 per cent lower than in 1907, 0.9 per cent lower in 1909 than in 1908, 7.9 per cent higher in 1910 than in 1909, and so on.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

The percentages for hours per week and wages per hour for this and the other departments presented in the table are read in like manner.

RELATIVE FULL-TIME HOURS PER WEEK, WAGES PER HOUR, AND WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE, IN SPECIFIED YEARS, BY DEPARTMENTS.

Department and year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.
Blast furnaces:									
1907	104.1	−3.9	.....	94.4	+ 5.9	.....	98.9	+ 1.1	.....
1908	102.6	−2.5	−1.4	90.0	+11.1	− 4.7	93.2	+ 7.3	− 5.8
1909	103.5	−3.4	+ .9	88.9	+12.5	− 1.2	92.4	+ 8.2	− .9
1910	103.6	−3.5	+ .1	96.1	+ 4.1	+ 8.1	99.7	+ .3	+ 7.9
1911	102.6	−2.5	−1.0	97.8	+ 2.2	+ 1.8	100.6	− .6	+ .9
1912	100.0	.....	−2.5	100.0	.....	+ 2.2	100.0	.....	− .6
Bessemer converters:									
1907	102.2	−2.2	.....	93.5	+ 7.0	.....	95.7	+ 4.5	.....
1908	97.9	+2.1	−4.2	86.9	+15.1	− 7.1	87.7	+14.0	− 8.4
1909	101.9	−1.9	+4.1	90.5	+10.5	+ 4.1	93.3	+ 7.2	+ 6.4
1910	102.6	−2.5	+ .7	94.5	+ 5.8	+ 4.4	97.5	+ 2.6	+ 4.5
1911	100.3	− .3	−2.2	90.5	+10.5	− 4.2	93.0	+ 7.5	− 4.6
1912	100.0	.....	− .3	100.0	.....	+10.5	100.0	.....	+ 7.5
Open-hearth furnaces:									
1910	100.8	− .8	.....	96.0	+ 4.2	.....	97.1	+ 3.0	.....
1911	98.3	+1.7	−2.5	96.0	+ 4.2	(1)	94.3	+ 6.0	− 2.9
1912	100.0	.....	+1.7	100.0	.....	+ 4.2	100.0	.....	+ 6.0
Blooming mills:									
1910	100.6	− .6	.....	93.7	+ 6.7	.....	94.5	+ 5.8	.....
1911	100.0	(1)	− .6	94.7	+ 5.6	+ 1.1	95.5	+ 4.7	+ 1.1
1912	100.0	.....	(1)	100.0	.....	+ 5.6	100.0	.....	+ 4.7
Plate mills:									
1910	99.7	+ .3	.....	96.9	+ 3.2	.....	96.2	+ 4.0	.....
1911	99.1	+ .9	− .6	93.5	+ 7.0	− 3.5	92.7	+ 7.9	− 3.6
1912	100.0	.....	+ .9	100.0	.....	+ 7.0	100.0	.....	+ 7.9
Standard rail mills:									
1910	104.4	−4.2	.....	99.2	+ .8	.....	102.2	− 2.2	.....
1911	99.9	+ .1	−4.3	99.6	+ .4	+ .4	99.2	+ .8	− 2.9
1912	100.0	.....	+ .1	100.0	.....	+ .4	100.0	.....	+ .8
Bar mills:									
1907	101.3	−1.3	.....	101.8	− 1.8	.....	102.4	− 2.3	.....
1908	100.8	− .8	− .5	91.4	+ 9.4	−10.2	92.0	+ 8.7	−10.2
1909	101.8	−1.8	+1.0	93.2	+ 7.3	+ 2.0	94.1	+ 6.3	+ 2.3
1910	101.4	−1.4	− .4	103.2	− 3.1	+10.7	104.0	− 3.8	+10.5
1911	100.2	− .2	−1.2	98.9	+ 1.1	− 4.2	99.0	+ 1.0	− 4.8
1912	100.0	.....	− .2	100.0	.....	+ 1.1	100.0	.....	+ 1.0
Sheet mills:									
1910	101.3	−1.3	.....	88.8	+12.6	.....	89.4	+11.9	.....
1911	100.2	− .2	−1.1	97.0	+ 3.1	+ 9.2	97.1	+ 3.0	+ 8.6
1912	100.0	.....	− .2	100.0	.....	+ 3.1	100.0	.....	+ 3.0
Tinplate mills:									
1910	100.4	− .4	.....	88.1	+13.5	.....	88.3	+13.3	.....
1911	100.2	− .2	− .2	98.6	+ 1.4	+11.9	98.6	+ 1.4	+11.7
1912	100.0	.....	− .2	100.0	.....	+ 1.4	100.0	.....	+ 1.4

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

A blast furnace from the nature of its process must be in continuous operation day and night, seven days per week. In 1907, in the 20 plants reported for that year, for 97.2 per cent of all employees the customary working time was seven days per week, and for the remaining 2.8 per cent it was six days per week. Between 1907 and 1912 there was a material reduction in seven-day work. Many plants had made provision to lay off each employee in rotation one day in seven, thus making a six-day week for the employees while the plant was continuously in operation seven days. In 1912, 35 plants reported 82.0 per cent of all employees working seven days per week and 17.9 per cent working six days per week.

The steel-making departments—Bessemer converters and open-hearth furnaces—normally are in operation day and night six days per week. A shutdown usually is made over Sunday for a period varying from 12 to 36 hours. When the work is heavy, however, the plants are operated seven days per week. In 1907, a year of large production, 24.1 per cent of the employees in the 9 Bessemer plants covered worked seven days per week. In the next two years the percentage was smaller. In 1910, another prosperous year, 32.1 per cent of the employees in the 10 plants covered that year worked seven days per week. In 1912, 14.9 per cent of the employees of the same 10 plants worked seven days per week. Throughout the period the majority of the employees in the Bessemer converters worked six days per week, while quite a proportion worked six and seven days in alternate weeks. The employees in open-hearth furnaces likewise worked seven days per week to a greater extent when trade was brisk. In 1912, 25 per cent of the employees were working seven days per week, 37 per cent were working six and seven days in alternate weeks, and 36.2 per cent were working six days per week.

In blooming mills in 1912, 16.3 per cent of the employees were working seven days per week and 15 per cent six and seven days in alternate weeks. In the other rolling mills the per cent of employees in 1912 working seven days per week was very small.

The figures for all years covered in the nine departments appear in the table following.

In three departments, though the plants reporting for 1910, 1911, and 1912 were identical, it was impossible to secure data for all the occupations for 1910, hence in each of the three departments two reports for 1911 are presented, one comparable with 1910 and the other, for all occupations, comparable with 1912.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

PER CENT OF EMPLOYEES IN EACH DEPARTMENT WORKING EACH SPECIFIED NUMBER OF DAYS PER WEEK, BY YEARS, 1907-1912 OR 1910-1912.

[The figures set opposite each bracketed group of years are for identical plants.]

Department and number of plants.	Year.	Per cent of employees whose customary working time per week was—									
		5 days.	5 days and 6 days alternately.	5 days, 5 days, and 6 days in rotation.	5 days, 6 days, and 6 days in rotation.	6 days.	5 days and 7 days alternately.	6 days and 7 days alternately.	5 days, 6 days, and 7 days in rotation.	6 days, 6 days, and 7 days in rotation.	6 days, 7 days, and 7 days in rotation.	7 days.
Blast furnaces:												
20 plants	1907	.....	.....	.....	.....	2.8	.....	.....	.....	.....	.....	97.2
	1908	.....	.....	.....	.....	5.2	.....	.....	.....	.....	.....	94.8
	1909	.....	.....	.....	.....	3.1	.....	.....	.....	.....	.....	96.9
	1910	.....	.....	.....	.....	4.6	.....	.....	.....	.....	.....	95.4
34 plants	1910	.....	.....	.....	.....	4.9	.....	.....	.....	.....	.....	95.1
	1911	.....	.....	.....	.....	11.1	.....	(1)	.....	.....	.....	88.9
35 plants	1911	.....	.....	.....	.....	11.1	.....	(1)	.....	.....	.....	88.9
	1912	.....	.....	.....	.....	17.9	.....	(1)	.....	.....	.....	82.0
Bessemer converters:												
9 plants	1907	.....	.....	.....	.....	61.1	.....	13.1	.....	1.0	0.7	24.1
	1908	.....	.....	.....	.....	69.1	.....	9.6	.....	1.5	1.0	18.7
	1909	.....	.....	.....	.....	62.2	.....	13.8	.....	1.3	.9	21.8
	1910	.....	.....	.....	.....	56.0	.....	3.8	4.7	1.1	.7	33.7
10 plants [2]	1910	.....	.....	.....	.....	57.8	.....	3.8	4.5	1.0	.7	32.1
	1911	.....	.....	.....	.....	76.9	.....	6.0	.....	1.6	.9	14.7
	1911	.....	.....	.....	.....	77.0	.....	5.9	.....	1.6	.9	14.6
	1912	.....	.....	.....	.....	69.0	.....	13.8	.....	1.4	.8	14.9
Open-hearth furnaces:												
17 plants [3]	1910	.....	6.2	.....	.....	33.6	0.5	27.7	.....	.....	.....	32.1
	1911	.....	3.8	.....	.....	45.4	1.0	32.1	.....	.1	.....	17.6
	1911	.....	3.7	.....	.....	45.6	1.0	32.0	.....	.1	.....	17.5
	1912	.....	1.7	.....	.....	36.2	.....	37.0	.....	.1	.....	25.0
Blooming mills:												
19 plants	1910	.....	6.6	.....	.....	65.6	.....	10.3	.....	.....	.....	17.5
	1911	0.1	5.5	.....	.....	63.5	.....	15.2	.....	.....	.....	15.7
	1912	.1	4.7	.....	.....	64.0	.....	15.0	.....	.....	.....	16.3
Plate mills:												
11 plants	1910	.....	13.1	.....	.....	82.0	.....	.5	.....	.....	.....	4.5
	1911	2.5	35.0	.....	.....	57.2	.....	.2	.....	.....	.....	5.2
	1912	1.7	33.7	.....	.....	57.0	.....	.7	.....	.....	.....	6.8
Standard rail mills:												
6 plants	1910	.....	.....	.....	.....	67.7	.....	0.5	.....	1.8	.....	30.0
	1911	.....	.....	.....	.....	89.8	.....	5.0	.....	2.2	.....	3.1
7 plants	1911	.....	.....	.....	.....	90.5	.....	4.6	.....	2.0	.....	3.0
	1912	.....	.....	.....	.....	90.0	.....	6.0	.....	1.9	.....	2.1
Bar mills:												
15 plants	1907	1.8	51.5	1.8	2.7	39.0	.6	1.6	.....	.....	.....	1.1
	1908	3.2	48.7	1.9	2.2	41.9	.5	1.0	.....	.....	.....	.7
	1909	1.3	47.6	1.8	2.1	43.2	.4	1.8	.....	.....	.....	1.7
	1910	1.1	45.5	1.8	1.9	47.9	.4	.9	.....	.....	.....	.6
25 plants	1910	4.3	30.0	1.1	1.2	60.1	.2	.5	.....	.....	.....	2.6
	1911	1.0	41.3	1.1	1.2	[4]54.0	.3	.9	.....	.....	.....	.2
26 plants	1911	1.0	43.1	1.1	1.1	[5]52.5	.3	.7	.....	.....	.....	.3
	1912	1.4	45.9	1.0	1.1	[5]49.2	.2	.8	.....	.....	.....	.4
Sheet mills:												
9 plants [6]	1910	.1	2.0	81.3	.....	16.2	.....	.....	.....	.....	.....	.5
	1911	.1	1.4	83.9	.....	14.1	.....	.....	.....	.....	.....	.5
	1911	.1	1.4	83.6	.....	14.4	.....	.....	.....	.....	.....	.5
	1912	.1	1.7	84.0	.....	13.6	.....	.1	.....	.....	.....	.5
Tinplate mills:												
5 plants	1910	.1	.6	79.2	.....	20.1	.....	.....	.....	.....	.....	.....
	1911	.1	.5	79.6	.....	19.8	.....	.....	.....	.....	.....	(1)
6 plants	1911	.1	.4	78.8	.....	20.7	.....	.....	.....	.....	.....	(1)
	1912	.....	1.5	79.0	.....	19.5	.....	.....	.....	.....	.....	.....

[1] Less than one-tenth of 1 per cent.
[2] For one plant it was impossible to secure data for 3 occupations for 1910, hence the two reports for 1911.
[3] For one plant it was impossible to secure data for 2 occupations for 1910, hence the two reports for 1911.
[4] Including 0.3 per cent who worked 7 days every fifth week.
[5] Including 0.2 per cent who worked 7 days every fifth week.
[6] For one plant it was impossible to secure data for 1 occupation for 1910, hence the two reports for 1911.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

In the next table the employees in the several departments are classified to show the per cent working specified hours per week. Referring to the figures for blast furnaces, it is seen that in 1907 in 20 plants reporting, 2.8 per cent of the employees covered worked 60 hours per week when they worked full time, 12.9 per cent worked over 60 and under 72 hours per week, less than one-tenth of 1 per cent worked 72 hours per week, 4.6 per cent worked over 72 and under 84 hours per week, and 79.7 per cent worked 84 hours per week. By 1910 the employees working 84 hours per week had decreased to 76.3 per cent in the same 20 plants, or as shown by 34 plants, to 74.6 per cent. A very material reduction was made in working hours by 1911 and a still greater reduction by 1912. In 1911 the employees working 84 hours per week on full time in blast furnaces had been reduced to 71.7 per cent of all employees as shown by the returns from 34 plants, or to 71.9 per cent as shown by 35 plants. In 1912 the per cent of employees working 84 hours per week had been reduced to 61.4 per cent.

The per cent of employees working specified hours in the Bessemer converting department and some other departments differed materially in the several years, owing to fluctuations in the volume of business and changes from 12 to 8 hour shifts and vice versa.

PER CENT OF EMPLOYEES IN EACH DEPARTMENT WORKING EACH SPECIFIED NUMBER OF HOURS PER WEEK, BY YEARS, 1907-1912 OR 1910-1912.

[The figures set opposite each bracketed group of years are for identical plants.]

Department and number of plants.	Year.	Per cent of employees reported whose full-time hours per week were—							
		48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Blast furnaces:									
20 plants	1907	.....	.....	.....	2.8	12.9	(1)	4.6	79.7
	1908	.....	.....	.....	4.8	16.9	.....	7.3	71.0
	1909	.....	.....	.....	2.6	15.1	0.4	8.4	73.5
	1910	.....	(1)	.....	3.7	12.1	.9	7.0	76.3
34 plants	1910	.....	(1)	0.1	4.1	12.5	.8	7.9	74.6
	1911	.....	.....	.3	4.2	11.7	6.3	5.7	71.7
35 plants	1911	.....	.....	.3	4.3	11.6	6.3	5.6	71.9
	1912	.....	(1)	4.5	4.5	10.7	12.9	5.9	61.4
Bessemer converters:									
9 plants	1907	23.1	0.7	1.0	.5	7.5	20.5	23.7	[2] 23.1
	1908	28.5	1.4	2.0	2.4	7.7	27.1	14.8	16.0
	1909	22.0	1.8	1.2	.5	6.1	24.9	26.1	17.5
	1910	17.5	7.2	.....	3.0	.8	30.0	12.9	[3] 28.6
10 plants [5]	1910	16.6	6.8	.....	3.1	.9	32.8	12.4	[4] 27.4
	1911	19.4	1.1	1.1	2.5	6.8	40.5	19.7	8.8
	1911	19.3	1.1	1.1	2.4	6.7	40.9	19.6	8.7
	1912	23.2	1.0	1.4	1.6	6.6	29.9	21.5	14.6

[1] Less than one-tenth of 1 per cent.
[2] Including 0.1 per cent whose full-time hours per week were 91.
[3] Including 3.3 per cent whose full-time hours per week were 85.
[4] Including 3.1 per cent whose full-time hours per week were 85.
[5] For 1 plant it was impossible to secure data for 3 occupations for 1910, hence the two reports for 1911.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

PER CENT OF EMPLOYEES IN EACH DEPARTMENT WORKING EACH SPECIFIED NUMBER OF HOURS PER WEEK, BY YEARS, 1907-1912, OR 1910-1912—Concluded.

Department and number of plants.	Year.	Per cent of employees reported whose full-time hours per week were—							
		48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Open-hearth furnaces:									
17 plants [1]	1910	0.1	0.9	0.2	1.9	12.5	24.9	32.8	26.6
	1911	.....	1.3	.....	2.2	24.6	22.9	34.4	14.6
	1911	.....	1.3	.....	2.2	24.8	22.8	34.3	14.6
	1912	.....	1.7	.2	1.6	10.9	25.9	39.8	19.9
Blooming mills:									
19 plants	1910	2.3	5.9	.....	1.0	10.3	56.5	6.6	17.4
	1911	1.6	7.7	.....	1.6	11.3	55.8	10.0	12.0
	1912	2.1	7.6	.....	1.3	11.4	54.7	10.6	12.2
Plate mills: [2]									
11 plants	1910	.....	.....	.....	7.4	57.4	32.0	.8	2.5
	1911	.....	.....	.3	8.7	46.6	42.4	1.2	.7
	1912	.....	.....	.3	8.5	43.9	43.0	2.7	[2] 1.7
Standard rail mills:									
6 plants	1910	4.3	1.8	.....	7.7	3.6	51.9	.7	30.0
	1911	4.5	2.2	.....	4.4	8.5	71.1	6.2	3.1
7 plants	1911	4.1	2.0	.....	4.3	8.0	71.9	6.9	2.9
	1912	3.8	1.9	.....	4.7	7.5	71.8	8.2	2.1
Bar mills:									
15 plants	1907	4.5	4.6	7.8	9.0	51.6	19.4	2.6	.5
	1908	4.1	7.1	7.4	12.4	47.2	20.1	1.4	.4
	1909	3.9	6.7	7.0	10.2	58.8	9.3	3.4	.5
	1910	3.6	6.2	6.3	11.8	57.4	12.9	1.2	.6
25 plants	1910	11.1	8.1	3.8	11.7	45.5	16.5	2.5	[3] .8
	1911	12.1	10.4	7.7	6.9	48.1	13.7	1.1	.2
26 plants	1911	11.4	10.6	8.5	8.0	46.7	13.5	1.0	.2
	1912	10.8	11.8	9.9	7.3	45.1	13.7	1.3	.2
Sheet mills:									
9 plants [4]	1910	81.3	.1	.5	9.7	3.7	4.3	.1	.4
	1911	83.9	.1	.5	7.1	4.5	3.5	.....	.4
	1911	83.6	.1	.4	7.0	4.9	3.5	.....	.4
	1912	84.0	.1	.4	7.3	5.1	2.8	.1	.2
Tinplate mills:									
5 plants	1910	80.5	2.1	10.8	4.0	2.8	.....	.....	.....
	1911	80.8	2.2	9.2	5.2	2.5	.1	.....	.....
6 plants	1911	80.1	2.1	9.2	5.5	3.1	.1	.....	.....
	1912	80.3	3.0	8.6	5.2	2.7	[5]	[5]	.....

[1] For 1 plant it was impossible to secure data for 2 occupations for 1910, hence the two reports for 1911.
[2] Including 1.2 per cent whose full-time hours per week were 91.
[3] Including 0.1 per cent whose full-time hours per week were 84½, and less than one-tenth of 1 per cent whose full-time hours per week were 91.
[4] For 1 plant it was impossible to secure data for 1 occupation for 1910, hence the two reports for 1911.
[5] Less than one-tenth of 1 per cent.

COMMON LABORERS.

Nearly all common laborers in the iron and steel industry are paid by the hour and their earnings per day or week depend upon the number of hours worked. The rate is practically the same in all of the several departments of an establishment. The rate of wages paid common labor is a basic rate from which are determined the rates for other occupations requiring little skill, hence the rate for common labor is of importance beyond the limits of the occupation proper. Nearly one-fifth of all the employees included in this report for 1912 are common laborers, and of the employees included in the data for 1907 about one-fourth are common laborers.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

A table is here included showing the average rate per hour for ommon labor in the several departments, by years. For detailed formation concerning the rates of wages per hour, weekly earnings, ad hours of labor in the occupation, the reader is referred to the everal chapters of this report.

AVERAGE RATE OF WAGES PER HOUR OF COMMON LABORERS IN SPECIFIED DEPARTMENTS, BY DISTRICTS, 1907 TO 1912.

[In this table each department of an establishment is counted as a separate plant. The number of plants stated is the number in all departments; the number of plants in each of the several departments is not shown here. The figures set opposite each bracketed group of years are for identical plants.]

District, year, and number of plants.	Average rate of wages per hour for common labor in—									
	All departments.	Blast furnaces.	Bessemer converters.	Open-hearth furnaces.	Blooming mills.	Plate mills.	Standard rail mills.	Bar mills.	Sheet mills.	Tinplate mills.
Eastern:										
4 plants.. 1907..	$0.134	$0.135	.....	.....	.....	.....	.....	$0.132	.....	.....
4 plants.. 1908..	.120	.115	.....	.....	.....	.....	.....	.131	.....	.....
4 plants.. 1909..	.123	.119	.....	.....	.....	.....	.....	.131	.....	.....
4 plants.. 1910..	.138	.138	.....	.....	.....	.....	.....	.138	.....	.....
18 plants. 1910..	.142	.142	.....	$0.145	$0.143	$0.131	.....	.147	.....	.....
18 plants. 1911..	.141	.140	.....	.146	.139	.131	.....	.148	.....	.....
19 plants. 1911..	.141	.140	.....	.146	.139	.131	.....	.145	.....	.....
19 plants. 1912..	.143	.144	.....	.152	.141	.131	.....	.142	.....	.....
Pittsburgh:										
17 plants. 1907..	.154	.152	$0.156	.....	.....	.....	.....	.154	.....	.....
17 plants. 1908..	.156	.154	.156	.....	.....	.....	.....	.157	.....	.....
17 plants. 1909..	.152	.152	.153	.....	.....	.....	.....	.151	.....	.....
17 plants. 1910..	.164	.165	.164	.....	.....	.....	.....	.163	.....	.....
57 plants. 1910..	.164	.166	.164	.162	.168	.167	$0.161	.161	$0.164	$0.165
57 plants. 1911..	.166	.165	.167	.164	.170	.168	.169	.163	.166	.163
59 plants. 1911..	.166	.165	.167	.164	.170	.168	.169	.163	.166	.164
59 plants. 1912..	.167	.164	.167	.165	.169	.173	.167	.163	.169	.169
Great Lakes and Middle West:										
12 plants. 1907..	.158	.162	.154	.....	.....	.....	.....	.159	.....	.....
12 plants. 1908..	.153	.152	.152	.....	.....	.....	.....	.158	.....	.....
12 plants. 1909..	.151	.153	.146	.....	.....	.....	.....	.157	.....	.....
12 plants. 1910..	.162	.161	.159	.....	.....	.....	.....	.169	.....	.....
37 plants. 1910..	.163	.162	.161	.162	.163	.164	.163	.167	.....	.....
37 plants. 1911..	.166	.166	.164	.166	.166	.164	.169	.166	.....	.....
39 plants. 1911..	.166	.166	.164	.166	.166	.164	.169	.166	.....	.....
39 plants. 1912..	.167	.167	.166	.167	.167	.165	.169	.167	.....	.....
Southern:										
6 plants.. 1907..	.130	.130	.....	.....	.....	.....	.....	.....	.....	.....
6 plants.. 1908..	.111	.111	.....	.....	.....	.....	.....	.....	.....	.....
6 plants.. 1909..	.112	.112	.....	.....	.....	.....	.....	.....	.....	.....
6 plants.. 1910..	.127	.127	.....	.....	.....	.....	.....	.....	.....	.....
14 plants. 1910..	.129	.128	.....	.130	.131	.....	.....	.....	.....	.....
14 plants. 1911..	.131	.131	.....	.130	.132	.....	.....	.....	.....	.....
14 plants. 1911..	.131	.131	.....	.130	.132	.....	.....	.....	.....	.....
14 plants. 1912..	.131	.130	.....	.134	.131	.....	.....	.....	.....	.....
Total:										
39 plants. 1907..	.151	.146	.155	.....	.....	.....	.....	.153	.....	.....
39 plants. 1908..	.147	.140	.155	.....	.....	.....	.....	.153	.....	.....
39 plants. 1909..	.145	.138	.151	.....	.....	.....	.....	.150	.....	.....
39 plants. 1910..	.157	.152	.163	.....	.....	.....	.....	.161	.....	.....
126 plants 1910..	.158	.150	.163	.157	.162	.159	.163	.160	.164	.165
126 plants 1911..	.161	.151	.166	.161	.163	.158	.169	.160	.166	.163
131 plants 1911..	.161	.151	.166	.161	.163	.158	.169	.159	.166	.164
131 plants 1912..	.162	.152	.167	.163	.164	.160	.168	.159	.169	.169

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

EXPLANATION OF SCOPE AND METHOD.

The scope of the present investigation is stated in part on page
The number of plants and the number of employees for which d
were obtained each year are set forth in the following table:

NUMBER OF PLANTS AND NUMBER OF EMPLOYEES INCLUDED IN THIS REPO
BY DEPARTMENTS, 1907 TO 1912.

Year.	Blast furnaces.		Bessemer converters.		Bar mills.		Open-hearth furnaces.		Blooming mills.	
	Plants.	Employees.	Plants.	Employees.	Plants.	Employees.	Plants.	Employees.	Plants.	Employ
1907	20	4,278	9	1,757	15	2,378	.....	.....	.....	.....
1908		3,028		1,179		2,216	.....	.....	.....	.....
1909		4,104		1,352		2,315	.....	.....	.....	.....
1910		4,381		1,649		2,560	.....	.....	.....	.....
1910	34	7,050	10	1,730	25	4,092	17	3,341	19	1
1911		5,268		1,342		3,707		3,065		
1911	35	5,336		1,350	26	3,924		3,073		9
1912		5,973		1,460		4,050		3,182		9

Year.	Plate mills.		Standard rail mills.		Sheet mills.		Tinplate mills.	
	Plants.	Employees.	Plants.	Employees.	Plants.	Employees.	Plants.	Employees.
1910	11	1,330	6	1,535	9	2,346	5	2,149
1911				1,252		2,772		2,310
1911		1,203	7	1,355		2,781	6	2,487
1912		1,203		1,457		2,716		2,694

Reports from 20 identical blast-furnace plants were obtained for the period 1907 to 1910. These same 20 plants furnished data for the years 1911 and 1912, and 14 additional plants reported data for the years 1910, 1911, and 1912, thereby making comparable data available from 34 plants for the years 1910 and 1911. Still another plant was included for 1911 and 1912, making figures available for these two years from 35 identical blast-furnace plants.

Data for 1907 were obtained for 4,278 blast-furnace employees. In the 20 identical plants, like information was obtained for 4,381 employees in 1910. Comparable data from 34 identical plants are available for 7,050 blast-furnace employees in 1910 and 5,268 in 1911, and comparable figures are presented for 5,336 blast-furnace employees in 1911 and 5,973 in 1912.

Data were obtained from 9 identical Bessemer converting plants for the years 1907 to 1910, inclusive, and from 10 identical plants for the years 1910 to 1912, inclusive. While 10 identical plants furnished data for 1910, 1911, and 1912, information for 1910 was not available

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

one occupation in one plant, so that two reports are shown for c(1. The first, 1,342, represents the number with data available in comparison with 1910; and the second, 1,350, the number with a: a available for comparison with 1912. Nineteen identical bloom- se mill plant: furnished comparable data for 1,064 employees in ,0, for 948 in 1911, and for 988 in 1912. The figures for the other partments are explained in like manner.

The figures for 1910 published in this report are a part of the :a included in the report on "Conditions of Employment in the n and Steel Industry," made by this Bureau and published as ıate Document No. 110, Sixty-second Congress, first session. These ures for 1910 were collected in the fall of that year. The collection data for the other years covered by this report was begun in the l of 1912 and concluded in 1913.

Information was secured from plants located in 11 States. To make e groups of data of sufficient volume to be of representative value, e several plants covered have been divided into four districts. hese districts were not established strictly on geographical lines, but ather according to the logical distribution of the industry. The "Eastern district" includes eastern and central Pennsylvania, Maryland, and New Jersey. The "Pittsburgh district" includes not only the plants in Pittsburgh proper but also those in western Pennsylvania, those along the border line in Ohio from Youngstown south to Bellaire, and the plants which are located in the "panhandle" of West Virginia. The "Great Lakes and Middle West district" includes plants scattered along the Great Lakes from western New York to Illinois and Wisconsin, and also some plants in inland districts, including Colorado. Although this is a very large territory geographically, it is essentially a unit industrially (so far as the iron and steel industry is concerned), the wage rates of the entire district being based largely on those paid in the two producing centers, Buffalo and Chicago. The "Southern district" includes the establishments in Virginia, Tennessee, Georgia, Alabama, Kentucky, and in the southern part of Ohio. The southern Ohio plants are included with the Southern district because the conditions both as to wages paid and the general class of labor employed resemble much more closely the conditions of the Alabama and Kentucky plants than they do those of the other plants of Ohio.

The plants included in the report are representative of the industry, and a fair apportionment is given to the several districts. The table following shows the number of plants and employees in the several departments for which data are published for the year 1912, by districts.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

NUMBER OF PLANTS AND NUMBER OF EMPLOYEES INCLUDED IN THIS REPORT, BY DISTRICTS, 1912.

Department.	Eastern district.		Pittsburgh district.		Great Lakes district.		Southern district.		Total.	
	Plants.	Employees.	Plants.	Employees.	Plants.	Employees.	Plants.	Employees.	Plants.	Employees.
Blast furnaces	6	684	9	2,396	10	1,648	10	1,245	35	5,973
Bessemer converters	.....	.....	6	1,019	4	441	.....	.....	10	1,460
Open-hearth furnaces	4	480	5	1,428	6	1,020	2	254	17	3,182
Blooming mills	3	95	8	493	6	328	2	72	19	988
Plate mills	2	330	5	631	4	242	.....	.....	11	1,203
Standard rail mills	.....	.....	3	431	4	1,026	.....	.....	7	1,457
Bar mills	8	887	10	2,157	8	1,006	.....	.....	26	4,050
Sheet mills	.....	.....	9	2,716	.....	.....	.....	.....	9	2,716
Tinplate mills	.....	.....	6	2,689	.....	.....	.....	.....	6	2,694

The greater part of the data presented was obtained by personal visits of agents of this Bureau to the several plants. A part of the information was obtained from the plants by correspondence, on schedules and under instructions prepared by the Bureau. In certain instances agents visited plants that had furnished data by correspondence, to harmonize data not clearly expressed on the schedule.

According to the plan of the several tables in this report direct comparisons, which are indicated by the grouping of the years within brackets, can be made properly only between two or more successive years where the data are for identical establishments. Data for establishments were not included in this report, unless information for at least two years was available.

In general, the number of employees shown in the several tables, with the exception of laborers and those employed in certain other unskilled occupations, represent the number of employees required to properly man the positions in the mill under normal operating conditions, and is not the number of employees who might have appeared on the pay rolls during the pay period covered.

For example, a certain operation required 4 men; but during the pay-roll period there were times when one of these 4 did not report for duty and the position was filled by a different employee, and during the pay period a total of 6 men covered the 4 positions and appeared on the pay roll. In such instance the number of employees was reported as 4 and not 6.

The data presented are for one pay-roll period in each year—the pay roll for the second half of May, except in the very few plants where abnormal conditions in May made it desirable to take some other period.

The full-time hours of labor per week shown in the tables of the report are the regular hours of work of the several employees under normal conditions in the establishment. The working time is the time on duty including intervals of waiting for work; in other words,

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

the time between the hour of reporting for duty and the hour of going off duty.

The working time of employees is not always the working time of their occupation as a whole. Some plants operating 7 days per week make provision for laying off each employee one day a week. In such a plant the full-time hours per week of an employee working 12 hours a day, is 72 hours. In a plant making no such provision, the full-time hours per week of an employee working 12 hours a day is 84 hours. The full-time hours per week and the relative or index numbers based thereon, do not in any way indicate the extent of unemployment. Employees may work overtime, broken time, or be laid off, or a temporary reduction may be made in working hours, without such change affecting the full-time hours per week.

The rates of wages per hour appearing in the tables include both the wages of time workers and the earnings of tonnage or pieceworkers. All time rates by the day or week have been reduced to rates per hour. The earnings of tonnage workers, the earnings of employees working at both time and tonnage rates, and the earnings of employees who in addition to a regular time rate, receive a bonus based on production, also have been reduced to earnings per hour by dividing the earnings by the hours worked. The time workers and tonnage workers of each occupation are combined as one group.

In this connection it should be noted that while in other industries the earnings of employees paid on a piecework basis usually are proportionate to the exertion and skill of the individual employee, in the iron and steel industry the earnings of tonnage workers depend upon the production of an entire department or group of employees.

A change in the earnings per hour of tonnage workers does not of necessity indicate a change in tonnage or piece rates. A change in methods or machinery, a speeding up, or more steady work resulting from a greater volume of business, may increase the hourly earnings or, on the other hand, changes in methods, a slowing down in speed, or a lull in business may reduce hourly earnings. Varying intervals while on duty waiting for work may also affect hourly earnings.

The reports from the plants in most instances showed wages of each individual employee, but, in some cases, particularly in the sheet and tin mills, reports gave the aggregate wages of two or more persons in an occupation instead of wages of each individual. In such plants the classification of wages per hour is made of averages of aggregate wages of the employees, instead of wages of each individual, and hence the classification in the tables of this report for the department as a whole is to some extent a combination of such averages and of individual earnings.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

The full-time weekly earnings are the earnings per week of employees working full time, or the earnings on broken time reduced to equivalent earnings for a full week. In considering changes in full-time earnings per week notice should also be taken of changes in full-time hours of labor per week. A reduction in the hours of a pieceworker may reduce his earnings in a week and leave his earnings per hour unchanged, while a reduction of hours for a time worker will, if his weekly rate remains the same, increase his rate per hour.

The averages of full-time hours per week, rates of wages per hour, and full-time weekly earnings are computed by adding the data for each individual employee and dividing the total by the number of employees.

It will be observed that the average full-time weekly earnings generally is not exactly the same as the result that would be obtained by multiplying the average rate per hour by the average hours per week, owing to the fact that the hourly rates for individual employees are based on varying hours per week, which has the effect of changing the relative weighting of the wages of the several employees. A hypothetical illustration shows the difference.

METHOD OF COMPUTING AVERAGE FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER WEEK AND PER HOUR.

Employees.	Full-time hours per week.	Rates of wages per week.	Rates of wages per hour.
1	48	$15.00	$0.3125
1	54	14.00	.2593
1	54	16.00	.2963
1	60	12.00	.2000
Total..... 4	216	57.00	1.0681
Average.....	54	14.25	.2670

The product of $0.2670 multiplied by 54 is $14.42, while the average earnings per week is $14.25.

Relative full-time hours of labor, relative wages per hour, and relative full-time weekly earnings are briefly described on page 9.

It will be observed that in the tables of relative numbers the data for the latest year available, 1912 in this report, are taken as the base or 100 per cent. Relative or index numbers are most frequently used to compare the latest year with preceding years, as 1911 with 1912, 1910 with 1912, etc., and a comparison with 100 conveys a clearer idea than a comparison of any two numbers, neither 100. For example, the ratio 99.4:100 is more readily grasped than the equal ratio 154.4:155.4.

Another and more important reason for taking the last year, 1912, as the base or 100 per cent is that the data for 1912 are greater in amount and better in quality than for any preceding year. Thus,

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

for blast furnaces data were obtained from 20 plants for 1907 and 35 plants for 1912. While the average for 20 plants possibly might have been a fairly acceptable base, the average of nearly twice as many plants recently canvassed becomes more nearly representative of the industry, and thus a more satisfactory base. Starting with 1912 and computing the index back year by year to 1907 the weakness, if any, in the data of earlier years can not manifest itself in the relative numbers except in the earlier years. But if the average for 1907 were taken as a base, any weakness beginning in the index of the earlier years would be continued down through the later years, though the basic data for such later years were entirely satisfactory.

The method of computing the relative numbers is best explained by an illustration. The full-time weekly earnings in 1910, 1911, and 1912 of bottom fillers in the blast-furnace department is taken as an example.

METHOD OF COMPUTING RELATIVE NUMBERS.

	Number of identical plants.	Year.		
		1910	1911	1912
Full-time weekly earnings	14	$12.77	$12.46	.....
	15	.....	12.50	$12.53
Relative full-time weekly earnings computed therefrom	.....	102.20	99.80	100.00
Full-time weekly earnings in identical establishments covering the full three years	14	12.77	12.46	12.45
Relative full-time weekly earnings computed therefrom	.....	102.60	100.10	100.00

Data are available for this occupation from 1907 to 1912, but the figures for 1910 to 1912 only are used, being sufficient to illustrate the method of computing the relative numbers.

The average for 1912 is taken as the base (100), then $12.50 divided by $12.53 equals 99.8 (99.76), the relative for 1911. The ratio of 1910 to 1911 is $12.77 divided by $12.46. The relative for 1911 just determined, 99.8 (99.76), multiplied by 12.77, divided by 12.46, equals 102.2 (102.24), the relative for 1910. In this report the relative number is published to one decimal place.

This method of computing relative numbers is used because of the change that was made in the number of establishments to get a wider representation in the later years. In computing a series of relative numbers account must be taken of changes in plants from year to year, as some discontinue operation or cease to be representative, and new plants come into operation.

Fourteen plants furnished data for the entire 3-year period shown above. In addition, another plant furnished data for 1911 and 1912. The earnings in this plant were higher than in the others, making the average in 1911 $12.50 in the 15 plants, as against $12.46 in 14 plants. With a varying number of plants such differences must be expected.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

The average earnings in 1912 for the 15 plants was $12.53. In these 14 plants, running through the full 3-year period, the average earnings in 1912 were $12.45. Thus the averages for 15 plants show an increase in earnings from $12.50 in 1911 to $12.53 in 1912, while the averages for 14 plants show a slight decrease between 1911 and 1912. Relatives have been computed on the data of the 14 plants and are presented in the table simply to illustrate the difference shown by relatives based on different amounts of data. The relatives based on the greatest amount of available data, being more nearly representative, are presented in the several tables of relative numbers in the report.

A word of caution is given as to the use of relative numbers. The per cent of increase or decrease from one year to another is not the difference between the relative numbers for the two years. Thus, in the table above, the relative full-time weekly earnings of bottom fillers decreased from 102.2 in 1910 to 99.8 in 1911, a difference of 2.6 in the relatives. This difference, 2.6 is 2.5 per cent of the relative 102.3. Thus the decrease in earnings per full week from 1910 to 1911 was 2.5 per cent.

The above illustration shows the method of computing the relative numbers for an occupation. Precisely the same method was used in computing the relative numbers for each department as a whole. For example, for each year the full-time weekly earnings of each employee of all occupations were added and the sum divided by the total employees covered, giving the average full-time weekly earnings of all employees in the department. From these averages (unpublished) the relative full-time weekly earnings for the industry were computed by the method illustrated above. This explanation applies equally to relative full-time hours of labor and to relative rates of wages per hour.

FUNCTIONS OF THE SEVERAL DEPARTMENTS.

In the following pages is given a brief description of the functions and operations of the several departments of the iron and steel industry covered by this report, and of their relation to each other.

IRON SMELTING.

BLAST FURNACES.

The blast furnace is the fundamental department of the iron and steel industry, as it begins the process of manufacture and is the only means used for producing pig iron from iron ore. It is continuous in operation, iron ore, limestone, and coke being charged at the top at intervals, a blast supplied which acts on the fuel within the furnace to create a temperature in which the iron ore is reduced, the slag which accumulates on top of the molten metal tapped out from time

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

to time, and the molten iron tapped out at the bottom at regular intervals.

The molten iron is run into ladles, or into sand molds on the pig-casting floor.

There are two methods of distributing the molten metal run into ladles. The ladle cars are hauled by locomotives to one of the steel-making departments (either Bessemer or open hearth) and the metal poured into mixers to be taken from them as required, or the ladles are hauled to the pig-casting machine and the metal cast into "pigs."

Establishments which operate blast furnaces usually cast the metal into pigs, although they sometimes dispose of the hot metal to adjacent steel works.

STEEL MAKING.

Pig iron, produced by the blast furnace, is converted into steel by either the Bessemer or open-hearth method. The process by either method is to remove, by combustion, the impurities in the iron.

BESSEMER CONVERTERS.

In the Bessemer process the molten iron from the blast furnace or from cupolas (small furnaces for remelting pig iron and scrap steel) is poured into the converter, and the blast is turned on to burn out the carbon and other impurities. The changes taking place are indicated to the blower by the character of the flame. When the "heat" is fully "blown," the steel is discharged into ladles, from which it is poured into ingot molds. Under favorable conditions each converter in one hour makes about three heats of from 10 to 15 tons each.

When the steel has hardened sufficiently the molds are removed by the ingot strippers and the ingots taken to the soaking pits of the blooming or slabbing mills for reheating and rolling.

OPEN-HEARTH FURNACES.

Open-hearth steel is produced in open-hearth furnaces, which are of two types—stationary and tilting. The materials are charged into the front of the furnaces and are for the most part scrap steel, solid or molten pig iron, and limestone. Instead of a blast being forced upwards through the steel, as in the Bessemer process, the materials are charged on the bottom of the furnaces and are melted down and the impurities eliminated by gas combustion. This is a slow process, the furnaces usually making but two heats of from 50 to 75 tons per day. Instead of depending upon the judgment of the blower for the quality of the steel, as in the Bessemer process, a small quantity of steel is taken from the furnaces at intervals and made into little test ingots, and from these the melter determines the condition and

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

quality of the steel and, if necessary, directs the materials to be added in order to produce the quality of steel desired. When finished the steel is tapped into large ladles and poured into ingot molds, as in the Bessemer process. These ingots are stripped in the same way as those from the Bessemer converters and follow the same course of reheating in soaking pits before being rolled.

STEEL WORKING—ROLLING MILLS.

The ingots cast in the Bessemer and open-hearth departments are the raw material for the rolling mills.

BLOOMING MILLS.

The blooming mill is the first of a series of rolls used in reducing the ingot to a finished product. Its purpose is to reduce the ingots to workable sizes for rerolling in other mills. The ingots after being reheated to a uniform temperature in the soaking pits are removed by pit cranes and placed on the roll table of the blooming mill and are rolled out and sheared to lengths. The sheared products are called blooms or billets, according to their size and shape. Blooming mills occasionally also roll slabs for plate mills and blanks for structural and shape mills.

PLATE MILLS.

The work of the plate mills is to roll slabs, or slab-shaped ingots into plates.

The slabs or ingots are reheated in horizontal furnaces and are rolled out into plates which vary in length, breadth, and thickness according to the purposes for which they are to be used.

Plate mills are of two classes: Sheared-plate mills, in which only horizontal rolls are used, it being necessary to shear the sides; and universal mills, which have additional vertical rolls, and produce plate with smooth edges. After the rolling is completed, the plate is cut into lengths and shapes according to mill orders.

STANDARD RAIL MILLS.

The rail mill is a type of rolling mill consisting of a series of rolls, which receive either the blooms as they come from the blooming mill or reheating furnace, or, in some mills, the ingots as they come from the soaking pit, and roll them into rails. In this report the operations of reducing the ingots to blooms have been omitted from the tabulation of rail mills and are included in blooming mills.

BAR MILLS.

Bar mills consist of rolls whose purpose is to reduce billets to smaller sizes and dimensions to meet commercial demands. Bar mills are of two types: Hand mills, in which no means other than tongs and hooks operated by men are used in handling the steel; and mechanical

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

mills, in which the steel is handled almost entirely by mechanical devices.

The bar mills considered in this report are with few exceptions hand-operated mills—the exceptions being certain mills using a combination of continuous rolls and rolls in which the material is handled by men. The product consists of flats, rounds, channels, angles, tie-plates and miscellaneous bar-iron products. Rod mills are not included.

SHEET MILLS.

A sheet mill is a rolling mill which rolls pieces of reheated steel, called sheet bars, into thin sheets of various gauges. The sheet mills for which the data in this report were secured are such as roll ordinary commercial black sheets, gauges 12 to 30, and do not include mills which roll extra heavy sheets or thin plates. Some sheet mills occasionally roll black plates for tinning and when so utilized are classified in this report as tinplate mills.

TINPLATE MILLS.

Tin-plate mills are rolling mills much like sheet mills except that they roll thinner and lighter material from pieces of steel known as tin bar. The product is black plates for tinning.

PREVIOUS REPORTS.

Wages in the iron and steel industry have entered into several reports published by the Bureau of Labor Statistics, among such reports being the Sixth Annual, the Nineteenth Annual, and Bulletins Nos. 59, 65, 71, and 77.

Two Senate documents contain reports of investigations made by the Bureau of Labor Statistics treating in part of wages in the iron and steel industry, namely:

Report on Strike at Bethlehem Steel Works. Senate Document No. 521, Sixty-first Congress, second session.

Report on Conditions of Employment in the Iron and Steel Industry in the United States. (4 vols.) Senate Document No. 110, Sixty-second Congress, first session.

The last named document is a very comprehensive study of the wages, hours of labor, working conditions, etc., in the industry in the year 1910. It covered all occupations in the industry and practically all plants in operation in the United States. The wage data of this report were based mostly on a half-month pay roll, in most instances in the month of May.

The resources of the Bureau of Labor Statistics would not warrant such a large and expensive study to be made each year. This present report contains representative data only, as before stated, but such data cover not only 1910, but all the years from 1907 to 1912, inclusive, in three departments and from 1910 to 1912 in six departments.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

IMPORTANCE OF THE INDUSTRY.

The United States Census Report for 1910 divides the iron and steel plants into two general classes, namely, blast furnaces and steel works and rolling mills.

The following figures taken from the report indicate the importance of the industry in the several States.

ESTABLISHMENTS, AVERAGE NUMBER OF WAGE EARNERS, AND VALUE OF PRODUCTS IN TWO CLASSES OF THE IRON AND STEEL INDUSTRY, BY STATES

[From Thirteenth Census, Vol. VIII, p. 727.]

Class and State.	Number of establishments.	Average number of wage earners.	Value of products.	Value added by manufacture (value of product less cost of material).
Blast furnaces:				
Alabama	19	3,783	$21,235,984	$5,758,623
Illinois	6	2,493	38,299,897	7,391,435
Kentucky	4	331	1,478,595	362,765
Michigan	11	1,016	5,824,396	1,600,885
New York	9	2,298	26,620,948	5,703,788
Ohio	40	7,295	83,699,238	15,274,516
Pennsylvania	66	14,521	168,578,413	26,504,385
Tennessee	13	1,143	4,653,125	1,272,459
Virginia	14	1,320	5,389,287	971,086
Wisconsin	5	758	4,793,756	875,296
Other States[1]	21	3,471	30,855,644	5,076,156
Total United States	208	38,429	391,429,283	70,791,394
Steel works and rolling mills:				
California	5	1,038	3,519,824	1,172,046
Connecticut	5	2,352	4,070,572	2,041,702
Delaware	5	710	1,715,341	656,346
Illinois	24	17,584	86,608,137	30,363,674
Indiana	17	12,255	38,651,848	12,553,089
Kentucky	7	2,372	7,779,320	2,218,755
Massachusetts	9	3,115	13,567,628	3,535,355
Michigan	8	1,183	2,669,872	1,071,742
Missouri	4	2,227	5,012,327	2,153,842
New Jersey	16	4,671	12,013,719	5,378,679
New York	25	10,091	39,532,414	13,643,244
Ohio	75	38,586	197,780,043	58,536,888
Pennsylvania	189	126,911	500,343,995	171,330,574
West Virginia	16	5,060	22,435,411	6,539,111
Wisconsin	14	2,124	10,732,989	2,826,589
Other States[2]	27	9,797	39,288,594	14,200,042
Total United States	446	240,076	985,722,534	328,221,678

[1] Other States embrace: Colorado, 1 establishment; Connecticut, 2; Georgia, 2; Indiana, 2; Maryland, 2; Massachusetts, 1; Minnesota, 1; Missouri, 2; New Jersey, 4; Texas, 1; West Virginia, 3.

[2] Other States embrace: Alabama, 6 establishments; Colorado, 1; District of Columbia, 1; Georgia, 1; Maine, 1; Maryland, 5; Minnesota, 1; Oregon, 2; Rhode Island, 2; Tennessee, 1; Texas, 1; Virginia, 3; Washington, 1; Wyoming, 1.

The above figures do not include the figures for certain tin and terneplate and other iron and steel products, as foundry and machine shop products, bolts, doors, forgings, nails, pipe, etc., not made in steel works or rolling mills. To avoid identification, certain States with only one or two plants are combined by the Census Office in the above table.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

BLAST FURNACES.

SUMMARY.

Summary figures relating to this department of the iron and steel industry are given with figures for other departments in the introductory summary on pages 7 to 15. An explanation of the scope of the investigation and of the methods employed is given on pages 16 to 22.

Briefly summarized, the average full-time weekly earnings of blast-furnace employees in 1912 were 1.1 per cent higher than in 1907, 7.3 per cent higher than in 1908, 8.2 per cent higher than in 1909, 0.3 per cent higher than in 1910, and 0.6 per cent lower than in 1911. The average full-time hours of labor per week were lower in 1912 than in any preceding year, being 3.9 per cent lower than in 1907, and 2.5 per cent lower than in 1908, 3.4 per cent lower than in 1909, 3.5 per cent lower than in 1910, and 2.5 per cent lower than in 1911. The average rate of wages or earnings per hour in 1912 was 5.9 per cent higher than in 1907, 11.1 per cent higher than in 1908, 12.5 per cent higher than in 1909, 4.1 per cent higher than in 1910, and 2.2 per cent higher than in 1911.

The most significant facts concerning the several occupations of the blast-furnace industry are summarized in the table following. Data are presented for each year from 1907 to 1912, inclusive, two groups being given for 1910 and two for 1911, owing to the changes in number of plants in those years. Figures for identical plants are bracketed together. Referring to the first occupation presented, laborers, direct comparison can be made of data for 20 identical plants from 1907 to 1910, for 34 identical plants for 1910 and 1911, and for 35 identical plants for 1911 and 1912. The first line shows that in 1907 the 20 blast-furnace plants that furnished information employed 957 laborers and that the average hours of work of these laborers when working full time was 75.8 hours per week. For 11.1 per cent of the 957 laborers the full-time hours of work per week were 60 or under; for 36.6 per cent, over 60 and under 72; for 0.1 per cent, 72; for 5.4 per cent, over 72 and under 84; and for 46.8 per cent, or nearly one-half, 84. The average rate of wages (or earnings) per hour of laborers in the year considered (1907) was $0.146. Of the total number 3.7 per cent earned under 12 cents per hour, 28.6 per

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

cent received 12 or under 14 cents per hour, 39.8 per cent received 14 or under 16 cents per hour, and 27.9 per cent received 16 or under 18 cents per hour. The average earnings for a full week's work was $11.13. The other lines of the table are read in the same manner.

Referring to the last column of the table, it is seen that in 20 identical plants the average full-time weekly earnings of laborers was $11.13 in 1907. In the next two years there was a drop to $10.24 and $10.17, respectively, and in 1910 an advance to $11.18. While the average full-time weekly earnings in 1910 in 20 plants was $11.18, the average in 34 plants in the same year was $11.23. In the 34 plants there was a decrease from $11.23 per week in 1910 to $11.13 in 1911. The difference between $11.23 and $11.13 measures the change from 1910 to 1911. It would not be a proper comparison, however, to state that earnings decreased only from $11.18 in 1910 to $11.13 in 1911, because of the change in plants and the difference known to exist in the average for 1910 in the two groups of plants. In 35 plants there was an increase from $11.14 in 1911 to $11.15 in 1912. The other items of the table should be studied with like care.

Comparing the average full-time weekly earnings for 1912 of the several occupations, it is seen that the lowest earnings are found in the occupation of laborers, the average being $11.15. Several other occupations received but little more. The highest earnings in any occupation of this department are found in the occupation of blowers, the average full-time weekly earnings in this occupation being $24.84 in 1912.

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BLAST FURNACES.

[The figures set opposite each bracketed group of years are for identical plants.]

Occupation and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				60 and under.	Over 60 and under 72	72	Over 72 and under 84	84		Under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	
Laborers:														
20 plants	1907	957	75.8	11.1	36.6	0.1	5.4	46.8	$0.146	3.7	28.6	39.8	27.9	$11.13
	1908	718	72.8	19.8	37.9	.....	15.2	27.2	.140	24.7	10.3	41.1	24.0	10.24
	1909	757	73.0	13.5	49.9	2.0	7.0	27.6	.138	23.6	25.9	24.4	26.0	10.17
	1910	902	73.6	17.6	36.8	2.5	5.0	38.0	.152	4.2	21.8	21.1	52.9	11.18
34 plants	1910	1,423	74.7	18.9	28.4	1.8	20.9	29.9	.150	3.1	23.3	32.7	40.8	11.23
	1911	935	73.3	21.1	30.8	3.0	14.3	30.8	.151	4.1	25.7	24.0	46.3	11.13
35 plants	1911	937	73.3	21.0	30.7	3.0	14.3	30.9	.151	4.1	25.6	24.1	46.2	11.14
	1912	961	73.1	20.0	31.4	8.4	9.6	30.6	.152	3.2	24.7	23.6	[1]48.5	11.15

[1] Including 0.1 per cent earning 18 and under 20 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BLAST FURNACES—Continued.

Occupation and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				60 and under.	Over 60 and under 72	72	Over 72 and under 84	84		Under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 cents and over.	
Bottom fillers:														
7 plants	1907	293	84.0	.....	.....	.....	.....	100.0	$0.160	35.5	10.9	30.4	23.2	$13.40
	1908	194	84.0	.....	.....	.....	.....	100.0	.150	40.2	17.5	21.6	20.6	12.59
	1909	282	84.0	.....	.....	.....	.....	100.0	.138	68.3	.....	17.0	14.2	11.61
	1910	267	84.0	.....	.....	.....	.....	100.0	.160	32.6	18.7	30.0	18.7	13.41
14 plants	1910	672	84.0	.....	.....	.....	.....	100.0	.152	26.2	47.6	14.3	11.9	12.77
	1911	391	84.0	.....	.....	.....	.....	100.0	.148	35.0	39.9	8.7	16.4	12.46
15 plants	1911	417	84.0	.....	.....	.....	.....	100.0	.149	32.9	41.7	10.1	15.3	12.50
	1912	468	82.2	.....	.....	14.7	.....	85.3	.152	27.6	44.7	11.5	16.2	12.53
Cinder men:														
20 plants	1907	262	83.6	.....	1.5	.....	10.3	88.2	.173	5.4	24.4	45.0	25.2	14.46
	1908	245	82.6	.....	8.2	.....	9.8	82.0	.156	22.4	33.5	34.3	9.8	12.88
	1909	380	82.2	.8	8.7	.....	12.6	77.9	.150	34.4	19.7	40.3	5.5	12.34
	1910	357	82.9	0.3	6.7	.....	5.6	87.4	.166	11.8	11.5	62.7	14.0	13.78
32 plants	1910	482	82.9	.2	7.1	.....	4.1	88.6	.163	11.6	19.9	58.1	10.4	13.56
	1911	339	81.3	.....	9.7	10.3	1.8	78.2	.158	22.8	21.2	45.7	10.3	12.84
32 plants	1911	333	81.3	.....	9.9	10.5	1.8	77.8	.158	23.1	22.2	44.1	10.5	12.82
	1912	397	75.2	23.1	11.1	9.1	.3	56.4	.164	10.8	28.5	37.3	23.4	12.20
Keepers' helpers:														
20 plants	1907	616	84.0	.....	.....	.....	.....	100.0	.165	23.1	7.5	35.1	34.4	13.89
	1908	409	84.0	.....	.....	.....	.....	100.0	.160	28.3	3.9	39.4	28.3	13.41
	1909	596	84.0	.....	.....	.....	.....	100.0	.155	32.0	9.1	35.4	23.5	13.04
	1910	608	84.0	.....	.....	.....	.....	100.0	.169	15.7	13.7	30.9	39.8	14.22
34 plants	1910	877	84.0	.....	.....	.....	.....	100.0	.168	16.3	17.0	30.7	36.0	14.13
	1911	734	83.1	.....	.....	7.6	.....	92.4	.167	20.7	13.1	26.7	39.5	13.83
35 plants	1911	742	83.1	.....	.....	7.5	.....	92.5	.167	20.5	12.9	26.7	39.8	13.84
	1912	846	81.0	4.3	.....	14.9	.....	80.9	.170	16.3	16.3	22.7	44.7	13.74
Larry men's helpers:														
10 plants	1907	115	84.0	.....	.....	.....	.....	100.0	.159	8.7	29.6	61.7	.....	13.35
	1908	79	84.0	.....	.....	.....	.....	100.0	.152	12.7	45.6	41.8	.....	12.80
	1909	135	84.0	.....	.....	.....	.....	100.0	.149	35.5	30.4	34.1	.....	12.53
	1910	134	84.0	.....	.....	.....	.....	100.0	.163	6.0	29.1	50.0	14.9	13.69
19 plants	1910	278	84.0	.....	.....	.....	.....	100.0	.165	5.0	23.7	64.0	7.2	13.88
	1911	294	82.6	.....	.....	11.6	.....	88.4	.168	4.8	15.6	72.8	6.8	13.89
	1912	343	77.6	10.5	.....	12.5	.....	77.0	.173	4.1	5.2	74.3	16.3	13.67
Pig-machine men:														
9 plants	1907	193	84.0	.....	.....	.....	.....	100.0	.167	13.0	15.5	57.0	14.5	14.03
	1908	157	83.9	.....	.....	.....	1.9	98.1	.163	11.5	8.3	68.8	11.4	13.69
	1909	152	83.9	.....	.....	.....	2.0	98.0	.162	15.1	7.2	64.5	13.1	13.57
	1910	182	83.8	.5	.5	.....	.....	98.9	.170	7.1	14.8	50.5	27.5	14.27
16 plants	1910	291	83.9	.3	.3	.....	.....	99.3	.169	5.8	15.1	57.0	22.0	14.14
	1911	259	82.4	.4	.....	12.7	.....	86.9	.169	11.2	13.1	53.3	22.4	13.90
17 plants	1911	267	82.4	.4	.....	12.4	.....	87.3	.169	10.9	12.7	51.7	24.7	13.98
	1912	275	81.9	.4	.....	17.1	.....	82.5	.171	6.5	8.4	63.3	21.8	13.97
Stockers:														
18 plants	1907	824	81.4	1.7	9.0	.....	12.7	76.6	.170	13.5	15.4	53.3	17.8	13.83
	1908	473	79.1	.8	26.0	.....	14.8	58.4	.157	19.2	25.8	40.4	14.6	12.43
	1909	737	80.9	.....	9.6	.....	30.4	60.0	.158	27.6	18.1	38.8	15.6	12.75
	1910	904	81.0	.1	7.7	1.8	24.6	65.8	.166	22.0	9.0	43.9	25.2	13.43
32 plants	1910	1,445	79.9	.9	18.2	2.1	15.4	63.5	.164	18.9	20.3	38.1	22.6	13.17
	1911	898	79.8	3.6	11.9	6.6	15.8	62.0	.167	15.6	17.7	42.3	24.4	13.36
32 plants	1911	904	79.7	4.1	11.8	6.5	15.7	61.8	.168	14.5	17.6	43.7	24.2	13.40
	1912	1,045	78.7	3.7	10.7	13.0	23.3	49.3	.173	9.8	14.8	46.6	28.8	13.61
Top fillers:														
8 plants	1907	66	84.0	.....	.....	.....	.....	100.0	.177	24.3	12.1	9.1	54.6	14.86
	1908	44	84.0	.....	.....	.....	.....	100.0	.168	40.9	.....	13.6	45.5	14.15
	1909	50	84.0	.....	.....	.....	.....	100.0	.161	44.0	20.0	.....	36.0	13.56
	1910	48	84.0	.....	.....	.....	.....	100.0	.181	8.3	33.3	8.3	50.0	15.18
13 plants	1910	142	82.8	4.2	.....	.....	.....	95.8	.169	2.8	26.1	54.2	16.9	13.85
	1911	84	82.0	7.1	.....	.....	.....	92.9	.170	19.1	23.8	33.3	23.8	13.67
14 plants	1911	92	82.2	6.5	.....	.....	.....	93.5	.171	17.4	21.7	30.4	30.4	13.84
	1912	96	80.0	6.3	.....	18.8	.....	75.0	.176	12.5	31.3	14.6	41.8	13.90

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BLAST FURNACES—Continued.

Occupation and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				60 and under.	Over 60 and under 72	72	Over 72 and under 84	84		Under 14 cts.	14 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	
Blowing engineers' assistants:														
11 plants	1907	67	84.0	.....	.....	.....	.....	100.0	$0.203	6.0	29.9	49.3	14.9	$17.02
	1908	51	84.0	.....	.....	.....	.....	100.0	.199	11.7	27.4	45.1	15.7	16.72
	1909	74	84.0	.....	.....	.....	.....	100.0	.191	10.8	45.9	29.7	13.5	16.08
	1910	66	84.0	.....	.....	.....	.....	100.0	.208	3.0	27.3	54.5	15.2	17.48
18 plants	1910	94	84.0	.....	.....	.....	.....	100.0	.207	2.1	27.7	59.6	10.6	17.38
	1911	91	83.2	.....	.....	6.6	.....	93.4	.205	2.2	29.7	63.7	4.4	17.06
	1912	108	80.4	8.3	.....	10.2	.....	81.5	.211	3.7	22.2	66.7	7.4	16.85
Iron handlers and loaders:														
9 plants	1907	203	73.2	.....	60.1	.....	5.9	34.0	.193	4.9	64.1	25.1	5.9	14.20
	1908	163	73.0	.....	59.5	.....	8.6	31.9	.190	15.9	47.9	24.5	11.7	13.95
	1909	242	73.6	.....	57.0	.....	7.4	35.5	.177	11.6	60.3	20.7	7.4	13.05
	1910	177	73.0	.....	59.3	.....	10.2	30.5	.195	9.6	55.9	18.6	15.8	14.24
18 plants	1910	305	74.2	.....	58.7	.....	5.9	35.4	.194	7.9	60.0	17.7	14.4	14.36
	1911	300	72.7	1.3	63.0	.....	6.0	29.7	.195	7.0	53.7	25.0	14.3	14.11
19 plants	1911	308	73.0	1.3	61.4	.....	5.8	31.5	.195	6.8	54.8	24.4	13.9	14.17
	1912	359	72.2	7.8	49.9	10.0	5.0	27.3	.195	3.1	65.1	18.9	12.8	14.04
Keepers:														
20 plants	1907	146	84.0	.....	.....	.....	.....	100.0	.218	.....	19.2	64.4	16.4	18.34
	1908	96	84.0	.....	.....	.....	.....	100.0	.210	6.3	14.6	75.0	4.2	17.68
	1909	141	84.0	.....	.....	.....	.....	100.0	.205	7.1	15.5	74.5	2.8	17.26
	1910	142	84.0	.....	.....	.....	.....	100.0	.219	.....	20.4	75.4	4.2	18.43
34 plants	1910	201	84.0	.....	.....	.....	.....	100.0	.215	.....	29.9	67.2	3.0	18.09
	1911	182	82.7	.....	.....	11.0	.....	89.0	.217	.....	27.5	70.3	2.2	17.95
35 plants	1911	184	82.7	.....	.....	10.9	.....	89.1	.217	.....	27.2	70.7	2.2	17.95
	1912	216	79.6	8.3	.....	17.6	.....	74.1	.223	.....	25.5	63.4	11.1	17.61
Larrymen:														
11 plants	1907	132	84.0	.....	.....	.....	.....	100.0	.195	15.2	27.2	42.4	15.2	16.41
	1908	86	84.0	.....	.....	.....	.....	100.0	.184	25.6	23.3	51.2	.....	15.48
	1909	135	84.0	.....	.....	.....	.....	100.0	.186	7.4	69.7	23.0	.....	15.64
	1910	149	84.0	.....	.....	.....	.....	100.0	.202	2.6	38.3	45.0	14.1	16.97
21 plants	1910	231	84.0	.....	.....	.....	.....	100.0	.196	2.6	53.2	35.1	9.1	16.47
	1911	203	82.9	.....	.....	9.4	.....	90.6	.194	2.0	52.3	37.4	8.4	15.99
	1912	237	78.1	15.2	.....	13.9	.....	70.9	.200	1.7	39.6	49.8	8.9	15.48
													25 cts. and over.	
Skip operators:														
11 plants	1907	86	84.0	.....	.....	.....	.....	100.0	.193	.....	44.2	53.5	2.3	16.19
	1908	64	84.0	.....	.....	.....	.....	100.0	.184	9.4	43.8	43.8	3.1	15.49
	1909	94	84.0	.....	.....	.....	.....	100.0	.183	.....	80.9	17.0	2.1	15.40
	1910	97	84.0	.....	.....	.....	.....	100.0	.196	.....	48.4	49.5	2.1	16.46
19 plants	1910	125	84.0	.....	.....	.....	.....	100.0	.197	.....	47.2	48.0	4.8	16.56
	1911	124	83.8	.....	.....	1.6	.....	98.4	.198	.....	35.5	56.5	8.1	16.60
	1912	136	79.2	13.2	.....	8.8	.....	77.9	.206	.....	38.2	39.7	22.1	16.14
Stove tenders:														
20 plants	1907	140	84.0	.....	.....	.....	.....	100.0	.192	2.9	69.9	18.6	8.6	16.10
	1908	96	84.0	.....	.....	.....	.....	100.0	.185	10.4	50.0	39.6	.....	15.52
	1909	140	84.0	.....	.....	.....	.....	100.0	.181	10.0	59.2	30.7	.....	15.22
	1910	146	84.0	.....	.....	.....	.....	100.0	.197	2.7	39.7	57.5	.....	16.55
34 plants	1910	200	84.0	.....	.....	.....	.....	100.0	.193	3.0	45.0	52.0	.....	16.21
	1911	178	82.7	.....	.....	11.2	.....	88.8	.190	3.4	47.3	49.4	.....	15.69
35 plants	1911	180	82.7	.....	.....	11.1	.....	88.9	.190	3.3	47.7	48.9	.....	15.68
	1912	212	79.5	8.5	.....	17.9	.....	73.6	.195	2.8	38.8	58.5	.....	15.42

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BLAST FURNACES—Concluded.

Occupation and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				60 and under.	Over 60 and under 72	72	Over 72 and under 84	84		14 and under 20 cts.	20 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	
Blowing engineers:														
20 plants	1907	100	84.0	.....	.....	.....	.....	100.0	$0.242	20.0	77.0	3.0	.....	$20.30
	1908	85	84.0	.....	.....	.....	.....	100.0	.235	16.5	83.5	.....	.....	19.77
	1909	103	84.0	.....	.....	.....	.....	100.0	.230	21.4	78.7	.....	.....	19.35
	1910	112	84.0	.....	.....	.....	.....	100.0	.245	14.3	78.6	7.1	.....	20.59
34 plants	1910	153	84.0	.....	.....	.....	.....	100.0	.243	20.3	74.5	5.2	.....	20.39
	1911	135	83.0	.....	.....	8.1	.....	91.9	.244	19.3	74.8	5.9	.....	20.20
35 plants	1911	137	82.9	.....	.....	9.5	.....	90.5	.244	19.0	75.2	5.8	.....	20.15
	1912	142	80.6	4.2	.....	18.3	.....	77.5	.249	22.5	66.2	11.3	.....	19.93
Blowers:														
18 plants	1907	78	84.0	.....	.....	.....	.....	100.0	.300	.....	41.0	52.6	6.4	25.17
	1908	68	84.0	.....	.....	.....	.....	100.0	.283	.....	61.7	38.2	.....	23.74
	1909	86	84.0	.....	.....	.....	.....	100.0	.286	.....	61.7	38.4	.....	24.04
	1910	90	84.0	.....	.....	.....	.....	100.0	.307	.....	48.9	48.9	2.2	25.80
32 plants	1910	131	83.5	2.3	.....	.....	.....	97.7	.296	.8	55.0	42.0	2.3	24.74
	1911	121	82.9	.....	.....	9.1	.....	90.9	.306	1.7	47.1	41.3	9.9	25.24
33 plants	1911	123	82.9	.....	.....	8.9	.....	91.1	.305	1.6	48.0	40.7	9.8	25.21
	1912	132	80.2	6.8	.....	15.9	.....	77.3	.313	1.5	44.7	40.2	13.6	24.84

Owing to the change in the number of plants from year to year, and the consequent difference in the averages in the two groups of plants in one and the same year, it is difficult to make a comparison of the actual data over a period of several years, which will give an accurate measure of the changes throughout the period.

To aid in making such comparisons, relative or index numbers have been computed from the averages of the preceding table for full-time hours per week, rates of wages per hour, and full-time weekly earnings, for each occupation from 1907 to 1912, inclusive. Such figures appear in the table following. These relative or index numbers are simply percentages in which the data for 1912 are taken as the base, or 100 per cent. The relative for each year is the per cent that the average for that year is of the average for 1912. For example, the relative full-time weekly earnings of stockers in 1907 was 99.9 as compared with 100 in the year 1912; that is, the full-time weekly earning of stockers in 1907 were 99.9 per cent of the full-time weekly earnings in this occupation in 1912. The method of computing relative numbers is explained on page 21.

The table also shows for each occupation the per cent of increase or decrease in full-time hours per week, rates of wages per hour, and full-time weekly earnings in 1912 as compared with each specified year preceding. Thus the full-time weekly earnings of stockers in 1912 were 0.1 per cent higher than in 1907, 11.4 per cent higher than

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

in 1908, 8.6 per cent higher than in 1909, 3.0 per cent higher than in 1910, and 1.5 per cent higher than in 1911.

In other columns of the table is shown the per cent of change in each year as compared with the year immediately preceding. Thus the full-time weekly earnings of stockers in 1908 were 10.1 per cent lower than in 1907, 2.6 per cent higher in 1909 than in 1908, 5.4 per cent higher in 1910 than in 1909, 1.4 per cent higher in 1911 than in 1910, and 1.5 per cent higher in 1912 than in 1911. The other items and occupations of the table can be studied in like manner. The per cent of increase or decrease is computed from the relative numbers.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE, IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—BLAST FURNACES.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
Stockers:									
1907	101.9	− 1.9	.....	97.7	+ 2.4	.....	99.9	+ 0.1	.....
1908	99.0	+ 1.0	− 2.8	90.2	+10.9	− 7.7	89.8	+11.4	−10.1
1909	101.3	− 1.3	+ 2.3	90.8	+10.1	+ .7	92.1	+ 8.6	+ 2.6
1910	101.4	− 1.4	+ .1	95.4	+ 4.8	+ 5.1	97.1	+ 3.0	+ 5.4
1911	101.3	− 1.3	− .1	97.1	+ 3.0	+ 1.8	98.5	+ 1.5	+ 1.4
1912	100.0	.....	− 1.3	100.0	.....	+ 3.0	100.0	.....	+ 1.5
Bottom fillers:									
1907	102.2	− 2.2	.....	100.7	− .7	.....	102.2	− 2.2	.....
1908	102.2	− 2.2	(1)	94.4	+ 5.9	− 6.3	96.0	+ 4.2	− 6.1
1909	102.2	− 2.2	(1)	86.8	+15.2	− 8.1	88.5	+13.0	− 7.8
1910	102.2	− 2.2	(1)	100.7	− .7	+16.0	102.2	− 2.2	+15.5
1911	102.2	− 2.2	(1)	98.0	+ 2.0	− 2.7	99.8	+ .2	− 2.3
1912	100.0	.....	− 2.2	100.0	.....	+ 2.0	100.0	.....	+ .2
Top fillers:									
1907	103.8	− 3.7	.....	94.5	+ 5.8	.....	98.8	+ 1.2	.....
1908	103.8	− 3.7	(1)	89.7	+11.5	− 5.1	94.0	+ 6.4	− 4.9
1909	103.8	− 3.7	(1)	85.9	+16.4	− 4.2	90.1	+11.0	− 4.1
1910	103.8	− 3.7	(1)	96.6	+ 3.5	+12.5	100.9	− .9	+12.0
1911	102.8	− 2.7	− 1.0	97.2	+ 2.9	+ .6	99.6	+ .4	− 1.3
1912	100.0	.....	− 2.7	100.0	.....	+ 2.9	100.0	.....	+ .4
Larry men:									
1907	107.6	− 7.1	.....	94.6	+ 5.7	.....	102.9	− 2.8	.....
1908	107.6	− 7.1	(1)	89.3	+12.0	− 5.6	97.0	+ 3.1	− 5.7
1909	107.6	− 7.1	(1)	90.2	+10.9	+ 1.0	98.1	+ 1.9	+ 1.1
1910	107.6	− 7.1	(1)	98.0	+ 2.0	+ 8.6	106.4	− 6.0	+ 8.5
1911	106.1	− 5.7	− 1.4	97.0	+ 3.1	− 1.0	103.3	− 3.2	− 2.9
1912	100.0	.....	− 5.7	100.0	.....	+ 3.1	100.0	.....	− 3.2
Larry men's helpers:									
1907	105.5	− 5.2	.....	93.1	+ 7.4	.....	99.0	+ 1.0	.....
1908	105.5	− 5.2	(1)	88.9	+12.5	− 4.5	94.9	+ 5.4	− 4.1
1909	105.5	− 5.2	(1)	87.2	+14.7	− 1.9	92.9	+ 7.6	− 2.1
1910	105.5	− 5.2	(1)	95.4	+ 4.8	+ 9.4	101.5	− 1.5	+ 9.3
1911	103.8	− 3.7	− 1.6	97.1	+ 3.0	+ 1.8	101.6	− 1.6	+ 1.1
1912	100.0	.....	− 3.7	100.0	.....	+ 3.0	100.0	.....	− .6
Skip operators:									
1907	106.1	− 5.7	.....	94.2	+ 6.2	.....	100.9	− .9	.....
1908	106.1	− 5.7	(1)	89.8	+11.4	− 4.7	96.6	+ 3.5	− 4.3
1909	106.1	− 5.7	(1)	89.3	+12.0	− .6	96.0	+ 4.2	− 6.2
1910	106.1	− 5.7	(1)	95.6	+ 4.6	+ 7.1	102.6	− 2.5	+ 6.9
1911	105.8	− 5.5	− .3	96.1	+ 4.1	+ .5	102.9	− 2.8	+ .3
1912	100.0	.....	− 5.5	100.0	.....	+ 4.1	100.0	.....	− 2.8

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE, IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—BLAST FURNACES—Continued.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
Blowers:									
1907	104.1	− 3.9	.....	92.1	+ 8.6	.....	97.1	+ 3.0	.....
1908	104.1	− 3.9	(1)	86.9	+15.1	− 5.6	91.5	+ 9.3	− 5.8
1909	104.1	− 3.9	(1)	87.8	+13.9	+ 1.0	92.7	+ 7.9	+ 1.3
1910	104.1	− 3.9	(1)	94.3	+ 6.0	+ 7.4	99.5	+ .5	+ 7.3
1911	103.4	− 3.3	− .7	97.4	+ 2.7	+ 3.3	101.5	− 1.5	+ 2.0
1912	100.0	.....	− 3.3	100.0	.....	+ 2.7	100.0	.....	− 1.5
Blowing engineers:									
1907	104.1	− 3.9	.....	96.4	+ 3.7	.....	100.6	− .6	.....
1908	104.1	− 3.9	(1)	93.6	+ 6.8	− 2.9	98.0	+ 2.0	− 2.6
1909	104.1	− 3.9	(1)	91.6	+ 9.2	− 2.1	95.9	+ 4.3	− 2.1
1910	104.1	− 3.9	(1)	97.6	+ 2.5	+ 6.6	102.1	− 2.1	+ 6.5
1911	102.9	− 2.8	− 1.2	98.0	+ 2.0	+ .4	101.1	− 1.1	− 1.0
1912	100.0	.....	− 2.8	100.0	.....	+ 2.0	100.0	.....	− 1.1
Blowing engineers' assistants:									
1907	104.5	− 4.3	.....	95.7	+ 4.5	.....	100.4	− .4	.....
1908	104.5	− 4.3	(1)	93.9	+ 6.5	− 1.9	98.7	+ 1.3	− 1.7
1909	104.5	− 4.3	(1)	90.1	+11.0	− 4.0	94.9	+ 5.4	− 3.9
1910	104.5	− 4.3	(1)	98.1	+ 1.9	+ 8.9	103.1	− 3.0	+ 8.6
1911	103.5	− 3.4	− 1.0	97.2	+ 2.9	− .9	101.2	− 1.2	− 1.8
1912	100.0	.....	− 3.4	100.0	.....	+ 2.9	100.0	.....	− 1.2
Stove tenders:									
1907	105.7	− 5.4	.....	96.5	+ 3.6	.....	102.2	− 2.2	.....
1908	105.7	− 5.4	(1)	92.9	+ 7.6	− 3.7	98.5	+ 1.5	− 3.6
1909	105.7	− 5.4	(1)	90.9	+10.0	− 2.2	96.6	+ 3.5	− 1.9
1910	105.7	− 5.4	(1)	99.0	+ 1.0	+ 8.9	105.1	− 4.9	+ 8.8
1911	104.0	− 3.8	− 1.6	97.4	+ 2.7	− 1.6	101.7	− 1.7	− 3.2
1912	100.0	.....	− 3.8	100.0	.....	+ 2.7	100.0	.....	− 1.7
Keepers:									
1907	105.5	− 5.2	.....	96.0	+ 4.2	.....	102.2	− 2.2	.....
1908	105.5	− 5.2	(1)	92.4	+ 8.2	− 3.8	98.5	+ 1.5	− 3.6
1909	105.5	− 5.2	(1)	90.2	+10.9	− 2.4	96.2	+ 4.0	− 2.3
1910	105.5	− 5.2	(1)	96.4	+ 3.7	+ 6.9	102.7	− 2.6	+ 6.8
1911	103.9	− 3.8	− 1.5	97.3	+ 2.8	+ .9	101.9	− 1.9	− .8
1912	100.0	.....	− 3.8	100.0	.....	+ 2.8	100.0	.....	− 1.9
Keepers' helpers:									
1907	103.7	− 3.6	.....	96.5	+ 3.6	.....	100.5	− .5	.....
1908	103.7	− 3.6	(1)	93.6	+ 6.8	− 3.0	97.1	+ 3.0	− 3.4
1909	103.7	− 3.6	(1)	90.6	+10.4	− 3.2	94.4	+ 5.9	− 2.8
1910	103.7	− 3.6	(1)	98.8	+ 1.2	+ 9.1	102.9	− 2.8	+ 9.0
1911	102.6	− 2.5	− 1.1	98.2	+ 1.8	− .6	100.7	− .7	− 2.1
1912	100.0	.....	− 2.5	100.0	.....	+ 1.8	100.0	.....	− .7
Iron handlers and loaders:									
1907	103.5	− 3.4	.....	98.5	+ 1.5	.....	102.4	− 2.3	.....
1908	103.2	− 3.1	− .3	96.9	+ 3.2	− 1.6	100.6	− .6	− 1.8
1909	104.0	− 3.8	+ .8	90.3	+10.7	− 6.8	94.1	+ 6.3	− 6.5
1910	103.2	− 3.1	− .8	99.5	+ .5	+10.2	102.7	− 2.6	+ 9.1
1911	101.1	− 1.1	− 2.0	100.0	(1)	+ .5	100.9	− .9	− 1.8
1912	100.0	.....	− 1.1	100.0	.....	(1)	100.0	.....	− .9
Pig-machine men:									
1907	102.7	− 2.6	.....	97.1	+ 3.0	.....	100.1	− 0.1	.....
1908	102.6	− 2.5	− .1	94.8	+ 5.5	− 2.4	97.7	+ 2.4	− 2.4
1909	102.6	− 2.5	(1)	94.2	+ 6.2	− .6	96.8	+ 3.3	− .9
1910	102.4	− 2.3	− .2	98.8	+ 1.2	+ 4.9	101.8	− 1.8	+ 5.2
1911	100.6	− .6	− 1.8	98.8	+ 1.2	(1)	100.1	− .1	− 1.7
1912	100.0	.....	− .6	100.0	.....	+ 1.2	100.0	.....	− .1

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE, IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—BLAST FURNACES—Concluded.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.
Cinder men:									
1907	111.2	−10.1	.....	103.6	− 3.5	.....	110.4	−14.1	.....
1908	109.8	− 8.9	− 1.3	93.4	+ 7.1	− 9.8	103.7	− 3.6	−10.9
1909	109.3	− 8.5	− .5	89.8	+11.4	− 3.9	99.4	+ .6	− 4.1
1910	110.2	− 9.3	+ .8	99.4	+ .6	+10.7	111.0	− 9.9	+11.7
1911	108.1	− 7.5	− 1.9	96.3	+ 3.8	− 3.1	105.1	− 4.9	− 5.3
1912	100.0	.....	− 7.5	100.0	.....	+ 3.8	100.0	.....	− 4.9
Laborers:									
1907	105.2	− 4.9	.....	94.8	+ 5.5	.....	100.4	− .4	.....
1908	101.1	− 1.1	− 3.9	90.9	+10.0	− 4.1	92.3	+ 8.3	− 8.1
1909	101.4	− 1.4	+ .3	89.6	+11.6	− 1.4	91.7	+ 9.1	− .7
1910	102.2	− 2.2	+ .8	98.7	+ 1.3	+10.2	100.8	− .8	+ 9.9
1911	100.3	− .3	− 1.9	99.3	+ .7	+ .6	99.9	+ .1	− .9
1912	100.0	.....	− .3	100.0	.....	+ .7	100.0	.....	+ .1

[1] No change.

A like table of relative numbers and percentages is next shown for the blast-furnace department as a whole, as determined by a combination of the data for the several principal productive occupations covered by this report. The method of computing the figures of this table is explained on page 22.

From the table following under "Weekly earnings," it is seen that the relative full-time weekly earnings of the department as a whole in 1907 were 98.9 as compared with 100 in 1912. In other words, the full-time weekly earnings in 1907 were 98.9 per cent of such earnings in 1912. The relative dropped to 93.2 in 1908 and to 92.4 in 1909, advanced to 99.7 in 1910, to 100.6 in 1911, and dropped to 100 in 1912, the base year.

The next column shows that full-time weekly earnings in 1912 were 1.1 per cent higher than in 1907, 7.3 per cent higher than in 1908, 8.2 per cent higher than in 1909, 0.3 per cent higher than in 1910, and 0.6 per cent lower than in 1911.

The third column under "Weekly earnings" shows the per cent of increase or decrease in full-time weekly earnings each year as compared with the year immediately preceding. Thus the full-time weekly earnings in 1908 were 5.8 per cent lower than in 1907; in 1909, 0.9 per cent lower than in 1908; in 1910, 7.9 per cent higher than in 1909; in 1911, 0.9 per cent higher than in 1910; and in 1912, 0.6 per cent lower than in 1911. The relative numbers and percentages for full-time hours per week and rates of wages per hour can be read in like manner.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, ALL OCCUPATIONS—BLAST FURNACES.

Year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.
1907	104.1	−3.9	.....	94.4	+ 5.9	.....	98.9	+1.1	.....
1908	102.6	−2.5	−1.4	90.0	+11.1	−4.7	93.2	+7.3	−5.8
1909	103.5	−3.4	+ .9	88.9	+12.5	−1.2	92.4	+8.2	− .9
1910	103.6	−3.5	+ .1	96.1	+ 4.1	+8.1	99.7	+ .3	+7.9
1911	102.6	−2.5	−1.0	97.8	+ 2.2	+1.8	100.6	− .6	+ .9
1912	100.0	.....	−2.5	100.0	.....	+2.2	100.0	.....	− .6

In considering weekly earnings, attention should be given to the hours per week, and wages per hour, and their effect on weekly earnings. A reduction of hours tends to reduce weekly earnings and an increase in wages per hour, of course, tends to increase weekly earnings. Between 1907 and 1912 it will be observed hours were reduced 3.9 per cent and wages per hour were increased 5.9 per cent, each tending to offset the other in weekly earnings. Still another influence on average weekly earnings must be considered. In the table of the occupations on pages 32 to 34 it is seen that the relative full-time weekly earnings in 1912, with only four exceptions, were lower than in 1907. Yet in the table above it is shown that the full-time weekly earnings for the industry were 1.1 per cent higher in 1912 than in 1907. This anomalous figure is due to the fact that, though the earnings in the several occupations were less in 1912 than in 1907, there was a change in the relative number of employees in the several occupations between the two years, a larger per cent of all employees being found in the higher paid occupations in 1912 than in 1907.

The number and per cent of employees in blast-furnace plants whose customary working time per week was six days or turns, or seven, are shown in the following table. The figures are presented for each district and for the four districts combined. Comparable figures for identical plants are grouped by brackets. In two instances in the table while the plants were identical for three years, comparable data were not available through the period and a subgrouping is necessary to bring exactly like figures into comparison.

A marked difference is seen in working days per week in the few years between 1907 and 1912. Seven days per week was the regular

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

working time of 97.2 per cent of the employees in 1907, while in 1912 the number working seven days per week had been reduced to 82.0 per cent. A blast furnace is continuous in operation, but, during the last three years, several plants have made provision to lay off employees one day in seven, thus making the working time for each individual six days, while the plant continues operation seven days.

NUMBER AND PER CENT OF EMPLOYEES IN EACH DISTRICT WORKING EACH SPECIFIED NUMBER OF DAYS PER WEEK, BY YEARS, 1907 TO 1912—BLAST FURNACES.

[The figures set opposite each bracketed group of years are for identical plants.]

District and number of plants.	Year.	Number of employees.	Number of employees whose customary working time per week was—			Per cent of employees whose customary working time per week was—		
			6 days.	6 days and 7 days alternately.	7 days.	6 days.	6 days and 7 days alternately.	7 days.
Eastern:								
2 plants	1907	320	33	.....	287	10.3	.....	89.7
	1908	235	43	.....	192	18.3	.....	81.7
	1909	328	11	.....	317	3.4	.....	96.6
	1910	346	.....	.....	346	.....	.....	100.0
6 plants	1910	1,436	79	.....	1,357	5.5	.....	94.5
	1911	779	118	2	659	15.1	0.3	84.6
	1912	684	135	2	547	19.7	.3	80.0
Pittsburgh:								
6 plants	1907	1,731	74	.....	1,657	4.3	.....	95.7
	1908	1,161	87	.....	1,074	7.5	.....	92.5
	1909	1,683	66	.....	1,617	3.9	.....	96.1
	1910	1,613	103	.....	1,510	6.4	.....	93.6
9 plants [1]	1910	2,302	111	.....	2,191	4.8	.....	95.2
	1911	2,135	127	.....	2,008	5.9	.....	94.1
	1911	2,127	127	.....	2,000	6.0	.....	94.0
	1912	2,396	101	.....	2,295	4.2	.....	95.8
Great Lakes and Middle West:								
6 plants	1907	1,310	14	.....	1,296	1.1	.....	98.9
	1908	947	27	.....	920	2.9	.....	97.1
	1909	1,163	44	.....	1,119	3.8	.....	96.2
	1910	1,622	95	.....	1,527	5.9	.....	94.1
9 plants	1910	2,103	116	.....	1,987	5.5	.....	94.5
	1911	1,302	337	.....	965	25.9	.....	74.1
10 plants	1911	1,387	343	.....	1,044	24.7	.....	75.3
	1912	1,648	568	.....	1,080	34.5	.....	65.5
Southern:								
6 plants	1907	917	.....	.....	917	.....	.....	100.0
	1908	685	.....	.....	685	.....	.....	100.0
	1909	930	8	.....	922	.9	.....	99.1
	1910	800	3	.....	797	.4	.....	99.6
10 plants [1]	1910	1,209	37	.....	1,172	3.1	.....	96.9
	1911	1,052	2	.....	1,050	.2	.....	99.8
	1911	1,043	2	.....	1,041	.2	.....	99.8
	1912	1,245	267	.....	978	21.4	.....	78.6
Total:								
20 plants	1907	4,278	121	.....	4,157	2.8	.....	97.2
	1908	3,028	157	.....	2,871	5.2	.....	94.8
	1909	4,104	129	.....	3,975	3.1	.....	96.9
	1910	4,381	201	.....	4,180	4.6	.....	95.4
34 plants	1910	7,050	343	.....	6,707	4.9	.....	95.1
	1911	5,268	584	2	4,682	11.1	(2)	88.9
35 plants	1911	5,336	590	2	4,744	11.1	(2)	88.9
	1912	5,973	1,071	2	4,900	17.9	(2)	82.0

[1] For one plant it was impossible to secure data for one occupation for 1912, hence the two reports for 1911.
[2] Less than one-tenth of 1 per cent.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

In addition to the text tables in the summary, six general tables are presented for the blast furnace department as follows:

Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1907 to 1912.

Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year by districts, 1907 to 1912.

Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district by years, 1907 to 1912.

Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1907 to 1912.

Table V.—Average and classified full-time hours of work per week in each year, by districts, 1907 to 1912.

Table VI.—Average and classified full-time hours of work per week in each district, by years, 1907 to 1912.

In Tables I and IV, in addition to actual data, percentages computed therefrom are given. The data from these two tables are summarized in the text table on pages 28 to 31.

Tables III and VI repeat the data for the several districts given in Tables II and V, rearranged for the convenience of the reader.

A brief description of the function of the blast furnace is presented on page 22.

DESCRIPTION OF OCCUPATIONS.

The following description of occupations refers only to those occupations which appear in the tables of this report—these being nearly all of the principal productive occupations in the blast-furnace department.

The order in which the occupations are given follows that of the processes of manufacture.

STOCKERS.

Duties.—Unload cars containing ore, coke, limestone, or other materials; handle materials in stock piles and bins; the designation also includes helpers to car dumper, ore bridge, and transfer-car operators. Duties include shoveling ore from stock cars, dumping hopper cars, breaking ore and other materials, and tending bins.

Nature of work.—Very diversified, but generally performed by unskilled laborers.

BOTTOM FILLERS.

Duties.—Transfer materials from stock piles or bins to furnace hoist where larry cars are not used, with wheelbarrows, which they put on elevators in plants using hand-charged furnaces or dump into

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

the "skip" in plants using mechanically charged furnaces. In tables, the designation includes bottom fillers' helpers, who shovel materials into barrows and in some plants spell bottom fillers.

Nature of work.—Heavy, fairly continuous work, with short rest periods, and performed by unskilled laborers.

TOP FILLERS.

Duties.—Operate on hand-charged furnaces the vertical hoist by which the barrows of materials are drawn to the top of the furnace; dump the materials from these barrows into the furnace hopper, and operate the mechanism by which the bell at the bottom of the hopper is lowered, allowing the materials to fall into the furnace.

Nature of work.—Hard physical labor, done at an elevation and in most plants exposed to the weather.

LARRY MEN.

Duties.—Operate electric larry or scale car, to deliver melting materials from stock bins to skip car. Must get proper amount of material from bin and record weight as indicated. In some plants also perform the duties of skip operator.

Nature of work.—The work is quickly learned, and is analogous to that of low-grade motor men.

LARRY MEN'S HELPERS.

Duties.—Keep larry tracks clean, loosen stock in bins where it sticks, operate switches on larry tracks, load skip buckets when coke chutes deliver direct to skip.

Nature of work.—Work performed by common, unskilled laborers. Little heavy manual labor, except during winter when stock is frozen.

SKIP OPERATORS.

Duties.—Operate engine or motor by which skip is hauled up the inclined runway to the top of the furnace. Also operate mechanism which lowers the bell by which materials are dumped into the furnace.

Nature of work.—Are either stationary engineers of comparatively low grade or motor tenders.

BLOWERS.

Duties.—Are in charge of the working of furnaces and are responsible for the quantity and quality of the output. Determine the proportion of the materials charged, the pressure and temperature of the hot blast, and the time and manner of tapping. The entire blowing and casting force is under the direction of a blower.

Nature of work.—The work is largely supervisory. It requires considerable practical metallurgical knowledge and occasionally demands a great deal of manual work.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

BLOWING ENGINEERS.

Duties.—Are in charge of steam or gas blowing engines and, under the direction of the blower, regulate the pressure of the blast.

Nature of work.—The work is that of a stationary engineer of the highest grade.

BLOWING ENGINEERS' ASSISTANTS.

Duties.—Assist blowing engineers.

Nature of work.—The work is that of a low-grade stationary engineer, and the position may be considered as a training for the higher position of blowing engineer.

STOVE TENDERS.

Duties.—Are in charge of the regenerative stoves in which the blast is heated by the waste furnace gases. They change the stoves periodically (usually every half hour) by admitting air into those in which the brickwork is hot and gas into those that are to be heated.

Nature of work.—Steady but comparatively easy work, consisting chiefly in manipulating the valves by which the flow of gas and of air is controlled.

KEEPERS.

Duties.—Superintend and take part in tapping the iron and cinder from the furnace, the greater part of the actual work—drilling the hardened clay out of the tap hole—being done by the keepers' helpers and cinder snappers. The keepers in many plants hold the bar by which the clay is removed or operate the compressed-air drills for accomplishing the same purpose. While the metal is being run the keepers direct the flow of metal into the ladles or into the sand bed, and often do much of the work. After the cast they direct the work of closing the tap hole with clay, and in modern plants operate the "mud gun" by which this is accomplished.

Nature of work.—The position of keeper is one of responsibility, requiring considerable experience, and at the same time carrying with it hard work and exposure to heat during the tapping of the metal and cinder. The position may be regarded as one of training for the higher and more responsible position of blower. The keeper acts as blower in case the latter is absent, and in some places regularly performs the duties of blower on the night turn. The work of the casting crew (keepers, keepers' helpers, and cinder snappers) is intermittent under ordinary conditions, since the work is done only in preparation for and during the casts (except for the tapping of cinder). These casts occur only every four to six hours under normal conditions, and the actual time that the crew is busy during a turn

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

therefore varies from about 60 to 80 per cent. The tapping of the cinder varies in frequency according to the size of furnace and to the nature of materials charged.

KEEPERS' HELPERS.

Duties.—Work under the direction of the keeper in tapping and closing the furnaces, running the metal, and cleaning up and preparing the casting floor.

In many establishments no differentiation of duties or rates is made, and for that reason keepers' helpers of all grades appear in one group in this report. Moreover, in the establishments which do separate the various grades, the work is divided up in different ways in different plants, and the difference in rates paid is largely due to experience and marks the advance to the responsible position of keeper.

It may be said that the most general distribution of duties is as follows: First helpers swing the "splasher" into place over the tap hole and are in charge of the "skimmer" and first runner gate during the cast. Second helpers help swing the heavy drill where the work is done by hand; during the cast are in charge of the runner gates leading to the ladles, and after the cast clean up the hot scrap and cinder, and prepare the bed and the runners for the next cast. Third helpers perform much the same work as the second helpers. Especial duty is connected with the tapping of the "cinder notch," which is opened periodically with a bar, and closed after the slag has been drained by ramming a ball of damp clay into the hole. The work of looking after the cinder notch is frequently specialized and the men who do the work are called cinder snappers, but the two duties are so frequently combined that they are included with keepers' helpers in this report. At the time of the cast the special duty of third helpers is to direct the flow of cinder from the main to the side runner, using a long bar for this purpose.

Nature of work.—The work is heavy and very hot during the time of the cast, especially where the iron is cast in sand beds. Only a little experience is required, however, and the positions are commonly filled by strong, unskilled laborers. The amount and difficulty of the work of all keepers' helpers are largely determined by whether the metal is run into sand beds, or whether it is run into ladles. In the case of the sand beds, the mold and the runners must be carefully cut and molded in the sand with wooden patterns, which takes a great deal of time. When iron molds and runners are used it is necessary to give them a clay wash only. In either case, however, the amount of work done per man is largely equalized by employing a larger crew on the sand beds. For amount of actual time at work see "keepers."

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

IRON HANDLERS AND LOADERS.

Duties.—Cool and break iron cast in sand molds, carry it from the casting floor and pile it in the yard or load it on cars.

Nature of work.—Heavy manual labor, requiring little more than strength and endurance. The work is usually intermittent in character.

PIG-MACHINE MEN.

Duties.—Include several distinct occupations not ordinarily given distinct names or paid widely different rates. The ordinary pig machine consists of a series of molds mounted on an endless chain into which molten iron is poured from a ladle. Therefore, iron pourers operate mechanism which pours metal from ladles. Runner men see that the trough from ladle to molds is kept clear. Lime men spray lime or clay wash on molds to prevent iron from sticking. Knockers-out remove with a sledge or bar any pigs that stick in the molds. If many pigs stick, it is very hard work.

Nature of work.—The work varies largely in character according to the type of the machine and the particular occupation. Furthermore, some of the pig machines are operated Saturday night and Sunday only, the men being employed at other work for the remainder of the week.

CINDER MEN.

Duties.—Handle the cinder at and on its way to the cinder dump; also clean up the cinder pits and clean away cinder around the furnaces not cared for by the cinder snappers.

Nature of work.—Varies greatly in severity, some of that on the cinder dump being very hard, while much of the cleaning up is comparatively light and easy.

LABORERS.

Duties.—Include the large number of minor and unspecialized occupations which require little skill or experience. In making up this class the attempt has been made to have it include only those positions which may be filled by what is known as "common labor," where there are no special requirements of physique or experience.

Nature of work.—The work is all unskilled, but varies from comparatively hard continuous labor to light intermittent labor.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912.

BLAST FURNACES.

[The figures set opposite each bracketed group of years are for identical plants. For explanation of averages see p. 20.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Stockers:																
18 plants	1907	824	81.4	$0.170	$13.83	.....	.....	27	84	127	439	10	113	24	.....	.....
	1908	473	79.1	.157	12.43	3	20	31	37	122	191	29	40	.....	.....	.....
	1909	737	80.9	.158	12.75	3	16	62	122	133	286	48	67	.....	.....	.....
	1910	904	81.0	.166	13.43	.....	.....	35	164	81	397	165	62	.....	.....	.....
32 plants	1910	1,445	79.9	.164	13.17	.....	.....	44	230	294	551	221	105	.....	.....	.....
	1911	898	79.8	.167	13.36	.....	.....	55	85	159	380	152	27	40	.....	.....
32 plants	1911	904	79.7	.168	13.40	.....	.....	46	85	159	395	152	27	40	.....	.....
	1912	1,045	78.7	.173	13.61	.....	.....	49	53	155	487	217	37	20	27	.....
Bottom fillers:																
7 plants	1907	293	84.0	.160	13.40	.....	.....	36	68	32	89	68	.....	.....	.....	.....
	1908	194	84.0	.150	12.59	.....	.....	18	60	34	42	40	.....	.....	.....	.....
	1909	282	84.0	.138	11.61	.....	.....	60	134	.....	48	40	.....	.....	.....	.....
	1910	267	84.0	.160	13.41	.....	.....	.....	87	50	80	50	.....	.....	.....	.....
14 plants	1910	672	84.0	.152	12.77	.....	.....	.....	176	320	96	80	.....	.....	.....	.....
	1911	391	84.0	.148	12.46	.....	.....	.....	137	156	34	64	.....	.....	.....	.....
15 plants	1911	417	84.0	.149	12.50	.....	.....	.....	137	174	42	64	.....	.....	.....	.....
	1912	468	82.2	.152	12.53	.....	.....	.....	129	209	54	76	.....	.....	.....	.....
Top fillers:																
8 plants	1907	66	84.0	.177	14.86	.....	.....	4	12	8	6	10	26	.....	.....	.....
	1908	44	84.0	.168	14.15	.....	.....	6	14	.....	6	8	12	.....	.....	.....
	1909	50	84.0	.161	13.56	.....	.....	6	16	10	.....	6	12	.....	.....	.....
	1910	48	84.0	.181	15.18	.....	.....	.....	4	16	4	.....	24	.....	.....	.....
13 plants	1910	142	82.8	.169	13.85	.....	.....	.....	4	37	77	.....	18	.....	6	.....
	1911	84	82.0	.170	13.67	.....	.....	2	14	20	28	2	12	.....	6	.....
14 plants	1911	92	82.2	.171	13.84	.....	.....	2	14	20	28	10	12	.....	6	.....
	1912	96	80.0	.176	13.90	.....	.....	2	10	30	14	16	18	.....	6	.....
Larry men:																
11 plants	1907	132	84.0	.195	16.41	.....	.....	.....	20	4	16	16	56	20	.....	.....
	1908	86	84.0	.184	15.48	.....	.....	6	16	.....	8	12	44	.....	.....	.....
	1909	135	84.0	.186	15.64	.....	.....	6	4	26	.....	68	31	.....	.....	.....
	1910	149	84.0	.202	16.97	.....	.....	2	2	4	24	29	67	21	.....	.....
21 plants	1910	231	84.0	.196	16.47	.....	.....	2	4	4	70	49	81	21	.....	.....
	1911	203	82.9	.194	15.99	.....	.....	2	2	6	70	30	76	17	.....	.....
	1912	237	78.1	.200	15.48	.....	.....	.....	4	6	46	42	118	21	.....	.....
Larry men's helpers:																
10 plants	1907	115	84.0	.159	13.35	.....	.....	8	2	34	71	.....	.....	.....	.....	.....
	1908	79	84.0	.152	12.80	.....	.....	10	.....	36	33	.....	.....	.....	.....	.....
	1909	135	84.0	.149	12.53	.....	.....	10	38	41	46	.....	.....	.....	.....	.....
	1910	134	84.0	.163	13.69	.....	.....	8	.....	39	67	20	.....	.....	.....	.....
19 plants	1910	278	84.0	.165	13.88	.....	.....	12	2	66	178	20	.....	.....	.....	.....
	1911	294	82.6	.168	13.89	.....	.....	2	12	46	214	20	.....	.....	.....	.....
	1912	343	79.6	.173	13.67	.....	.....	.....	14	18	255	20	36	.....	.....	.....
Skip operators:																
11 plants	1907	86	84.0	.193	16.19	.....	.....	.....	.....	10	24	4	46	2	.....	.....
	1908	64	84.0	.184	15.49	.....	.....	.....	6	6	16	6	28	2	.....	.....
	1909	94	84.0	.183	15.40	.....	.....	.....	.....	8	28	40	16	2	.....	.....
	1910	97	84.0	.196	16.46	.....	.....	.....	.....	8	31	8	48	2	.....	.....
19 plants	1910	125	84.0	.197	16.56	.....	.....	.....	.....	10	35	14	60	6	.....	.....
	1911	124	83.8	.198	16.60	.....	.....	.....	.....	8	34	2	70	10	.....	.....
	1912	136	79.2	.206	16.14	.....	.....	.....	.....	8	38	6	54	30	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Blowers:																
18 plants...	1907	78	84.0	$0.300	$25.17	.....	.....	.....	.....	.....	.....	.....	10	22	41	5
	1908	68	84.0	.283	23.74	.....	.....	.....	.....	.....	.....	.....	12	30	26	.....
	1909	86	84.0	.286	24.04	.....	.....	.....	.....	.....	.....	.....	20	33	33	.....
	1910	90	84.0	.307	25.80	.....	.....	.....	.....	.....	.....	.....	11	33	44	2
32 plants...	1910	131	83.5	.296	24.74	.....	.....	.....	.....	1	.....	.....	27	45	55	3
	1911	121	82.9	.306	25.24	.....	.....	.....	.....	.....	2	.....	24	33	50	12
33 plants...	1911	123	82.9	.305	25.21	.....	.....	.....	.....	.....	2	.....	24	35	50	12
	1912	132	80.2	.313	24.84	.....	.....	.....	.....	.....	2	.....	21	38	53	18
Blowing engineers:																
20 plants...	1907	100	84.0	.242	20.30	.....	.....	.....	.....	2	6	12	12	65	3	.....
	1908	85	84.0	.235	19.77	.....	.....	.....	.....	4	4	6	30	41	.....	.....
	1909	103	84.0	.230	19.35	.....	.....	.....	.....	4	6	12	42	39	.....	.....
	1910	112	84.0	.245	20.59	.....	.....	.....	.....	2	6	8	42	46	8	.....
34 plants...	1910	153	84.0	.243	20.39	.....	.....	.....	.....	2	14	15	45	69	8	.....
	1911	135	83.0	.244	20.20	.....	.....	.....	.....	2	10	14	40	61	8	.....
35 plants...	1911	137	82.9	.244	20.15	.....	.....	.....	.....	2	10	14	42	61	8	.....
	1912	142	80.6	.249	19.93	.....	.....	.....	.....	2	10	20	31	63	16	.....
Blowing engineers' assistants:																
11 plants...	1907	67	84.0	.203	17.02	.....	.....	.....	4	2	2	16	33	10	.....	.....
	1908	51	84.0	.199	16.72	.....	.....	2	4	2	.....	12	23	8	.....	.....
	1909	74	84.0	.191	16.08	.....	.....	6	2	4	4	26	22	10	.....	.....
	1910	66	84.0	.208	17.48	.....	.....	.....	2	4	2	12	36	10	.....	.....
18 plants...	1910	94	84.0	.207	17.38	.....	.....	.....	2	6	3	17	56	10	.....	.....
	1911	91	83.2	.205	17.06	.....	.....	.....	2	6	2	19	58	4	.....	.....
	1912	108	80.4	.211	16.85	.....	.....	.....	4	4	4	16	72	8	.....	.....
Stove tenders:																
20 plants...	1907	140	84.0	.192	16.10	.....	.....	.....	4	16	9	73	26	12	.....	.....
	1908	96	84.0	.185	15.52	.....	.....	2	8	8	4	36	38	.....	.....	.....
	1909	140	84.0	.181	15.22	.....	.....	2	12	17	14	52	43	.....	.....	.....
	1910	146	84.0	.197	16.55	.....	.....	.....	4	12	18	28	84	.....	.....	.....
34 plants...	1910	200	84.0	.193	16.21	.....	.....	.....	6	22	32	36	104	.....	.....	.....
	1911	178	82.7	.190	15.69	.....	.....	.....	6	22	22	40	88	.....	.....	.....
35 plants...	1911	180	82.7	.190	15.68	.....	.....	.....	6	22	24	40	88	.....	.....	.....
	1912	212	79.5	.195	15.42	.....	.....	.....	6	22	30	30	124	.....	.....	.....
Keepers:																
20 plants...	1907	146	84.0	.218	18.34	.....	.....	.....	.....	18	8	2	94	24	.....	.....
	1908	96	84.0	.210	17.68	.....	.....	.....	6	8	6	.....	72	4	.....	.....
	1909	141	84.0	.205	17.26	.....	.....	.....	10	14	4	4	105	4	.....	.....
	1910	142	84.0	.219	18.43	.....	.....	.....	.....	11	2	16	107	6	.....	.....
34 plants...	1910	201	84.0	.215	18.09	.....	.....	.....	.....	19	4	37	135	6	.....	.....
	1911	182	82.7	.217	17.95	.....	.....	.....	.....	18	4	28	128	4	.....	.....
35 plants...	1911	184	82.7	.217	17.95	.....	.....	.....	.....	18	4	28	130	4	.....	.....
	1912	216	79.6	.223	17.61	.....	.....	.....	.....	14	12	29	137	24	.....	.....
Keepers' helpers:																
20 plants...	1907	616	84.0	.165	13.89	.....	.....	48	94	46	216	116	96	.....	.....	.....
	1908	409	84.0	.160	13.41	.....	.....	48	68	16	161	88	28	.....	.....	.....
	1909	596	84.0	.155	13.04	.....	.....	90	101	54	211	120	20	.....	.....	.....
	1910	608	84.0	.169	14.22	.....	.....	38	57	83	188	192	50	.....	.....	.....
34 plants...	1910	877	84.0	.168	14.13	.....	.....	38	105	149	269	244	72	.....	.....	.....
	1911	734	83.1	.167	13.83	.....	.....	60	92	96	196	234	56	.....	.....	.....
35 plants...	1911	742	83.1	.167	13.84	.....	.....	60	92	96	198	240	56	.....	.....	.....
	1912	846	81.0	.170	13.74	.....	.....	62	76	138	192	279	99	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Iron handlers and loaders:																
9 plants	1907	203	73.2	$0.193	$14.20	.....	.....	.....	10	26	86	18	51	.....	.....	12
	1908	163	73.0	.190	13.95	.....	.....	3	23	27	45	6	40	5	14	.....
	1909	242	73.6	.177	13.05	.....	.....	.....	28	47	86	13	50	18	.....	.....
	1910	177	73.0	.195	14.24	.....	.....	.....	17	19	68	12	33	28	.....	.....
18 plants	1910	305	74.2	.194	14.36	.....	.....	.....	24	32	129	22	54	36	8	.....
	1911	300	72.7	.195	14.11	.....	.....	.....	21	33	98	30	75	22	21	.....
19 plants	1911	308	73.0	.195	14.17	.....	.....	.....	21	33	98	38	75	22	21	.....
	1912	359	72.2	.195	14.04	.....	.....	.....	11	59	115	60	68	18	28	.....
Pig-machine men:																
9 plants	1907	193	84.0	.167	14.03	.....	.....	.....	25	30	110	6	20	2	.....	.....
	1908	157	83.9	.163	13.69	.....	.....	.....	18	13	108	12	6	.....	.....	.....
	1909	152	83.9	.162	13.57	.....	.....	.....	23	11	98	14	6	.....	.....	.....
	1910	182	83.8	.170	14.27	.....	.....	.....	13	27	92	44	6	.....	.....	.....
16 plants	1910	291	83.9	.169	14.14	.....	.....	.....	17	44	166	58	6	.....	.....	.....
	1911	259	82.4	.169	13.90	.....	.....	.....	29	34	138	46	12	.....	.....	.....
17 plants	1911	267	82.4	.169	13.98	.....	.....	.....	29	34	138	52	14	.....	.....	.....
	1912	275	81.9	.171	13.97	.....	.....	.....	18	23	174	50	10	.....	.....	.....
Cinder men:																
20 plants	1907	262	83.6	.173	14.46	.....	.....	2	12	64	118	24	42	.....	.....	.....
	1908	245	82.6	.156	12.88	2	2	17	34	82	84	.....	24	.....	.....	.....
	1909	380	82.2	.150	12.34	2	.....	24	105	75	153	.....	21	.....	.....	.....
	1910	357	82.9	.166	13.78	2	.....	9	31	41	224	42	.....	8	.....	.....
32 plants	1910	482	82.9	.163	13.56	2	.....	11	43	96	280	42	.....	8	.....	.....
	1911	339	81.3	.158	12.84	2	.....	6	69	72	155	33	1	1	.....	.....
32 plants	1911	333	81.3	.158	12.82	2	.....	6	69	74	147	33	1	1	.....	.....
	1912	397	75.2	.164	12.20	2	.....	6	35	113	148	62	31	.....	.....	.....
Laborers:																
20 plants	1907	957	75.8	.146	11.13	.....	.....	35	274	381	267	.....	.....	.....	.....	.....
	1908	718	72.8	.140	10.24	.....	4	173	74	295	172	.....	.....	.....	.....	.....
	1909	757	73.0	.138	10.17	.....	4	175	196	185	197	.....	.....	.....	.....	.....
	1910	902	73.6	.152	11.18	.....	.....	38	197	190	477	.....	.....	.....	.....	.....
34 plants	1910	1,423	74.7	.150	11.23	.....	.....	44	332	466	581	.....	.....	.....	.....	.....
	1911	935	73.3	.151	11.13	.....	.....	38	240	224	433	.....	.....	.....	.....	.....
35 plants	1911	937	73.3	.151	11.14	.....	.....	38	240	226	433	.....	.....	.....	.....	.....
	1912	961	73.1	.152	11.15	.....	.....	31	237	227	465	1	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

PER CENT.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Stockers:																
18 plants	1907	824	81.4	$0.170	$13.83	.....	.....	3.3	10.2	15.4	53.3	1.2	13.7	2.9	.....	.....
	1908	473	79.1	.157	12.43	0.6	4.2	6.6	7.8	25.8	40.4	6.1	8.5	.....	.....	.....
	1909	737	80.9	.158	12.75	.4	2.2	8.4	16.6	18.1	38.8	6.5	9.1	.....	.....	.....
	1910	904	81.0	.166	13.43	.....	.....	3.9	18.1	9.0	43.9	18.3	6.9	.....	.....	.....
32 plants	1910	1,445	79.9	.164	13.17	.....	.....	3.0	15.9	20.3	38.1	15.3	7.3	.....	.....	.....
	1911	898	79.8	.167	13.36	.....	.....	6.1	9.5	17.7	42.3	16.9	3.0	4.5	.....	.....
32 plants	1911	904	79.7	.168	13.40	.....	.....	5.1	9.4	17.6	43.7	16.8	3.0	4.4	.....	.....
	1912	1,045	78.7	.173	13.61	.....	.....	4.7	5.1	14.8	46.6	20.8	3.5	1.9	2.6	.....
Bottom fillers:																
7 plants	1907	293	84.0	.160	13.40	.....	.....	12.3	23.2	10.9	30.4	23.2	.....	.....	.....	.....
	1908	194	84.0	.150	12.59	.....	.....	9.3	30.9	17.5	21.6	20.6	.....	.....	.....	.....
	1909	282	84.0	.138	11.61	.....	.....	21.3	47.5	.....	17.0	14.2	.....	.....	.....	.....
	1910	267	84.0	.160	13.41	.....	.....	.....	32.6	18.7	30.0	18.7	.....	.....	.....	.....
14 plants	1910	672	84.0	.152	12.77	.....	.....	.....	26.2	47.6	14.3	11.9	.....	.....	.....	.....
	1911	391	84.0	.148	12.46	.....	.....	.....	35.0	39.9	8.7	16.4	.....	.....	.....	.....
15 plants	1911	417	84.0	.149	12.50	.....	.....	.....	32.9	41.7	10.1	15.3	.....	.....	.....	.....
	1912	468	82.2	.152	12.53	.....	.....	.....	27.6	44.7	11.5	16.2	.....	.....	.....	.....
Top fillers:																
8 plants	1907	66	84.0	.177	14.86	.....	.....	6.1	18.2	12.1	9.1	15.2	39.4	.....	.....	.....
	1908	44	84.0	.168	14.15	.....	.....	9.1	31.8	.....	13.6	18.2	27.3	.....	.....	.....
	1909	50	84.0	.161	13.56	.....	.....	12.0	32.0	20.0	.....	12.0	24.0	.....	.....	.....
	1910	48	84.0	.181	15.18	.....	.....	.....	8.3	33.3	8.3	.....	50.0	.....	.....	.....
13 plants	1910	142	82.8	.169	13.85	.....	.....	.....	2.8	26.1	54.2	.....	12.7	.....	4.2	.....
	1911	84	82.0	.170	13.67	.....	.....	2.4	16.7	23.8	33.3	2.4	14.3	.....	7.1	.....
14 plants	1911	92	82.2	.171	13.84	.....	.....	2.2	15.2	21.7	30.4	10.9	13.0	.....	6.5	.....
	1912	96	80.0	.176	13.90	.....	.....	2.1	10.4	31.3	14.6	16.7	18.8	.....	6.3	.....
Larry men:																
11 plants	1907	132	84.0	.195	16.41	.....	.....	.....	15.2	3.0	12.1	12.1	42.4	15.2	.....	.....
	1908	86	84.0	.184	15.48	.....	.....	7.0	18.6	.....	9.3	14.0	51.2	.....	.....	.....
	1909	135	84.0	.186	15.64	.....	.....	4.4	3.0	19.3	.....	50.4	23.0	.....	.....	.....
	1910	149	84.0	.202	16.97	.....	.....	1.3	1.3	2.7	16.1	19.5	45.0	14.1	.....	.....
21 plants	1910	231	84.0	.196	16.47	.....	.....	.9	1.7	1.7	30.3	21.2	35.1	9.1	.....	.....
	1911	203	82.9	.194	15.99	.....	.....	1.0	1.0	3.0	34.5	14.8	37.4	8.4	.....	.....
	1912	237	78.1	.200	15.48	.....	.....	.....	1.7	2.5	19.4	17.7	49.8	8.9	.....	.....
Larry men's helpers:																
10 plants	1907	115	84.0	.159	13.35	.....	.....	7.0	1.7	29.6	61.7	.....	.....	.....	.....	.....
	1908	79	84.0	.152	12.80	.....	.....	12.7	.....	45.6	41.8	.....	.....	.....	.....	.....
	1909	135	84.0	.149	12.53	.....	.....	7.4	28.1	30.4	34.1	.....	.....	.....	.....	.....
	1910	134	84.0	.163	13.69	.....	.....	6.0	.....	29.1	50.0	14.9	.....	.....	.....	.....
19 plants	1910	278	84.0	.165	13.88	.....	.....	4.3	.7	23.7	64.0	7.2	.....	.....	.....	.....
	1911	294	82.6	.168	13.89	.....	.....	.7	4.1	15.6	72.8	6.8	.....	.....	.....	.....
	1912	343	79.6	.173	13.67	.....	.....	.....	4.1	5.2	74.3	5.8	10.5	.....	.....	.....
Skip operators:																
11 plants	1907	86	84.0	.193	16.19	.....	.....	.....	.....	11.6	27.9	4.7	53.5	2.3	.....	.....
	1908	64	84.0	.184	15.49	.....	.....	.....	9.4	9.4	25.0	9.4	43.8	3.1	.....	.....
	1909	94	84.0	.183	15.40	.....	.....	.....	.....	8.5	29.8	42.6	17.0	2.1	.....	.....
	1910	97	84.0	.196	16.46	.....	.....	.....	.....	8.2	32.0	8.2	49.5	2.1	.....	.....
19 plants	1910	125	84.0	.197	16.56	.....	.....	.....	.....	8.0	28.0	11.2	48.0	4.8	.....	.....
	1911	124	83.8	.198	16.60	.....	.....	.....	.....	6.5	27.4	1.6	56.5	8.1	.....	.....
	1912	136	79.2	.206	16.14	.....	.....	.....	.....	5.9	27.9	4.4	39.7	22.1	.....	.....
Blowers:																
18 plants	1907	78	84.0	.300	25.17	.....	.....	.....	.....	.....	.....	.....	12.8	28.2	52.6	6.4
	1908	68	84.0	.283	23.74	.....	.....	.....	.....	.....	.....	.....	17.6	44.1	38.2	.....
	1909	86	84.0	.286	24.04	.....	.....	.....	.....	.....	.....	.....	23.3	38.4	38.4	.....
	1910	90	84.0	.307	25.80	.....	.....	.....	.....	.....	.....	.....	12.2	36.7	48.9	2.2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Blowers—Con.																
32 plants	1910	131	83.5	$0.296	$24.74	.....	.....	.....	.....	0.8	.....	.....	20.6	34.4	42.0	2.3
	1911	121	82.9	.306	25.24	.....	.....	.....	.....	.....	1.7	.....	19.8	27.3	41.3	9.9
33 plants	1911	123	82.9	.305	25.21	.....	.....	.....	.....	.....	1.6	.....	19.5	28.5	40.7	9.8
	1912	132	80.2	.313	24.84	.....	.....	.....	.....	.....	1.5	.....	15.9	28.8	40.2	13.6
Blowing engineers:																
20 plants	1907	100	84.0	.242	20.30	.....	.....	.....	.....	2.0	6.0	12.0	12.0	65.0	3.0	.....
	1908	85	84.0	.235	19.77	.....	.....	.....	.....	4.7	4.7	7.1	35.3	48.2	.....	.....
	1909	103	84.0	.230	19.35	.....	.....	.....	.....	3.9	5.8	11.7	40.8	37.9	.....	.....
	1910	112	84.0	.245	20.59	.....	.....	.....	.....	1.8	5.4	7.1	37.5	41.1	7.1	.....
34 plants	1910	153	84.0	.243	20.39	.....	.....	.....	.....	1.3	9.2	9.8	29.4	45.1	5.2	.....
	1911	135	83.0	.244	20.20	.....	.....	.....	.....	1.5	7.4	10.4	29.6	45.2	5.9	.....
35 plants	1911	137	82.9	.244	20.15	.....	.....	.....	.....	1.5	7.3	10.2	30.7	44.5	5.8	.....
	1912	142	80.6	.249	19.93	.....	.....	.....	.....	1.4	7.0	14.1	21.8	44.4	11.3	.....
Blowing engineers' assistants:																
11 plants	1907	67	84.0	.203	17.02	.....	.....	.....	6.0	3.0	3.0	23.9	49.3	14.9	.....	.....
	1908	51	84.0	.199	16.72	.....	.....	3.9	7.8	3.9	.....	23.5	45.1	15.7	.....	.....
	1909	74	84.0	.191	16.08	.....	.....	8.1	2.7	5.4	5.4	35.1	29.7	13.5	.....	.....
	1910	66	84.0	.208	17.48	.....	.....	.....	3.0	6.1	3.0	18.2	54.5	15.2	.....	.....
18 plants	1910	94	84.0	.207	17.38	.....	.....	.....	2.1	6.4	3.2	18.1	59.6	10.6	.....	.....
	1911	91	83.2	.205	17.06	.....	.....	.....	2.2	6.6	2.2	20.9	63.7	4.4	.....	.....
	1912	108	80.4	.211	16.85	.....	.....	.....	3.7	3.7	3.7	14.8	66.7	7.4	.....	.....
Stove tenders:																
20 plants	1907	140	84.0	.192	16.10	.....	.....	.....	2.9	11.4	6.4	52.1	18.6	8.6	.....	.....
	1908	96	84.0	.185	15.52	.....	.....	2.1	8.3	8.3	4.2	37.5	39.6	.....	.....	.....
	1909	140	84.0	.181	15.22	.....	.....	1.4	8.6	12.1	10.0	37.1	30.7	.....	.....	.....
	1910	146	84.0	.197	16.55	.....	.....	.....	2.7	8.2	12.3	19.2	57.5	.....	.....	.....
34 plants	1910	200	84.0	.193	16.21	.....	.....	.....	3.0	11.0	16.0	18.0	52.0	.....	.....	.....
	1911	178	82.7	.190	15.69	.....	.....	.....	3.4	12.4	12.4	22.5	49.4	.....	.....	.....
35 plants	1911	180	82.7	.190	15.68	.....	.....	.....	3.3	12.2	13.3	22.2	48.9	.....	.....	.....
	1912	212	79.5	.195	15.42	.....	.....	.....	2.8	10.4	14.2	14.2	58.5	.....	.....	.....
Keepers:																
20 plants	1907	146	84.0	.218	18.34	.....	.....	.....	.....	12.3	5.5	1.4	64.4	16.4	.....	.....
	1908	96	84.0	.210	17.68	.....	.....	.....	6.3	8.3	6.3	.....	75.0	4.2	.....	.....
	1909	141	84.0	.205	17.26	.....	.....	.....	7.1	9.9	2.8	2.8	74.5	2.8	.....	.....
	1910	142	84.0	.219	18.43	.....	.....	.....	.....	7.7	1.4	11.3	75.4	4.2	.....	.....
34 plants	1910	201	84.0	.215	18.09	.....	.....	.....	.....	9.5	2.0	18.4	67.2	3.0	.....	.....
	1911	182	82.7	.217	17.95	.....	.....	.....	.....	9.9	2.2	15.4	70.3	2.2	.....	.....
35 plants	1911	184	82.7	.217	17.95	.....	.....	.....	.....	9.8	2.2	15.2	70.7	2.2	.....	.....
	1912	216	79.6	.223	17.61	.....	.....	.....	.....	6.5	5.6	13.4	63.4	11.1	.....	.....
Keepers' helpers:																
20 plants	1907	616	84.0	.165	13.89	.....	.....	7.8	15.3	7.5	35.1	18.8	15.6	.....	.....	.....
	1908	409	84 0	.160	13 41	.....	.....	11.7	16 6	3.9	39.4	21.5	6.8	.....	.....	.....
	1909	596	84 0	.155	13.04	.....	.....	15.1	16.9	9.1	35.4	20.1	3.4	.....	.....	.....
	1910	608	84.0	.169	14.22	.....	.....	6.3	9.4	13.7	30.9	31.6	8.2	.....	.....	.....
34 plants	1910	877	84.0	.168	14.13	.....	.....	4.3	12.0	17.0	30.7	27.8	8.2	.....	.....	.....
	1911	734	83.1	.167	13.83	.....	.....	8.2	12.5	13.1	26.7	31.9	7.6	.....	.....	.....
35 plants	1911	742	83.1	.167	13.84	.....	.....	8.1	12.4	12.9	26.7	32.3	7.5	.....	.....	.....
	1912	846	81.0	.170	13.74	.....	.....	7.3	9.0	16.3	22.7	33.0	11.7	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Concluded.

BLAST FURNACES—Continued

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Iron handlers and loaders:																
9 plants	1907	203	73.2	$0.193	$14.20	.....	.....	.....	4.9	12.8	42.4	8.9	25.1	.....	.....	5.9
	1908	163	73.0	.190	13.95	.....	.....	1.8	14.1	16.6	27.6	3.7	24.5	3.1	8.6	.....
	1909	242	73.6	.177	13.05	.....	.....	.....	11.6	19.4	35.5	5.4	20.7	7.4	.....	.....
	1910	177	73.0	.195	14.24	.....	.....	.....	9.6	10.7	38.4	6.8	18.6	15.8	.....	.....
18 plants	1910	305	74.2	.194	14.36	.....	.....	.....	7.9	10.5	42.3	7.2	17.7	11.8	2.6	.....
	1911	300	72.7	.195	14.11	.....	.....	.....	7.0	11.0	32.7	10.0	25.0	7.3	7.0	.....
19 plants	1911	308	73.0	.195	14.17	.....	.....	.....	6.8	10.7	31.8	12.3	24.4	7.1	6.8	.....
	1912	359	72.2	.195	14.04	.....	.....	.....	3.1	16.4	32.0	16.7	18.9	5.0	7.8	.....
Pig-machine men:																
9 plants	1907	193	84.0	.167	14.03	.....	.....	.....	13.0	15.5	57.0	3.1	10.4	1.0	.....	.....
	1908	157	83.9	.163	13.69	.....	.....	.....	11.5	8.3	68.8	7.6	3.8	.....	.....	.....
	1909	152	83.9	.162	13.57	.....	.....	.....	15.1	7.2	64.5	9.2	3.9	.....	.....	.....
	1910	182	83.8	.170	14.27	.....	.....	.....	7.1	14.8	50.5	24.2	3.3	.....	.....	.....
16 plants	1910	291	83.9	.169	14.14	.....	.....	.....	5.8	15.1	57.0	19.9	2.1	.....	.....	.....
	1911	259	82.4	.169	13.90	.....	.....	.....	11.2	13.1	53.3	17.8	4.6	.....	.....	.....
17 plants	1911	267	82.4	.169	13.98	.....	.....	.....	10.9	12.7	51.7	19.5	5.2	.....	.....	.....
	1912	275	81.9	.171	13.97	.....	.....	.....	6.5	8.4	63.3	18.2	3.6	.....	.....	.....
Cinder men:																
20 plants	1907	262	83.6	.173	14.46	.....	.....	.8	4.6	24.4	45.0	9.2	16.0	.....	.....	.....
	1908	245	82.6	.156	12.88	0.8	0.8	6.9	13.9	33.5	34.3	.....	9.8	.....	.....	.....
	1909	380	82.2	.150	12.34	.5	.....	6.3	27.6	19.7	40.3	.....	5.5	.....	.....	.....
	1910	357	82.9	.166	13.78	.6	.....	2.5	8.7	11.5	62.7	11.8	.....	2.2	.....	.....
32 plants	1910	482	82.9	.163	13.56	.4	.....	2.3	8.9	19.9	58.1	8.7	.....	1.7	.....	.....
	1911	339	81.3	.158	12.84	.6	.....	1.8	20.4	21.2	45.7	9.7	.3	.3	.....	.....
32 plants	1911	333	81.3	.158	12.82	.6	.....	1.8	20.7	22.2	44.1	9.9	.3	.3	.....	.....
	1912	397	75.2	.164	12.20	.5	.....	1.5	8.8	28.5	37.3	15.6	7.8	.....	.....	.....
Laborers:																
20 plants	1907	957	75.8	.146	11.13	.....	.....	3.7	28.6	39.8	27.9	.....	.....	.....	.....	.....
	1908	718	72.8	.140	10.24	.....	.6	24.1	10.3	41.1	24.0	.....	.....	.....	.....	.....
	1909	757	73.0	.138	10.17	.....	.5	23.1	25.9	24.4	26.0	.....	.....	.....	.....	.....
	1910	902	73.6	.152	11.18	.....	.....	4.2	21.8	21.1	52.9	.....	.....	.....	.....	.....
34 plants	1910	1,423	74.7	.150	11.23	.....	.....	3.1	23.3	32.7	40.8	.....	.....	.....	.....	.....
	1911	935	73.3	.151	11.13	.....	.....	4.1	25.7	24.0	46.3	.....	.....	.....	.....	.....
35 plants	1911	937	73.3	.151	11.14	.....	.....	4.1	25.6	24.1	46.2	.....	.....	.....	.....	.....
	1912	961	73.1	.152	11.15	.....	.....	3.2	24.7	23.6	48.4	.1	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912.

BLAST FURNACES—Continued.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West." For explanation of averages see p. 20.]

STOCKERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1907.																
Eastern	1	8	70.0	$0.211	$14.77	....	....	....	....	....	....	....	8	....	....	....
Pittsburgh	5	498	81.4	.173	14.07	....	....	....	63	40	326	....	45	24	....	....
G. L. and M. W.	6	246	82.2	.174	14.28	....	....	....	....	79	97	10	60	....	....	....
Southern	6	72	79.9	.133	10.50	....	....	27	21	8	16	....	....	....	....	....
Total	18	824	81.4	.170	13.83	....	....	27	84	127	439	10	113	24	....	....
1908.																
Eastern	1	8	70.0	.203	14.21	....	....	....	....	....	....	....	8	....	....	....
Pittsburgh	5	247	78.1	.165	12.94	....	....	....	37	20	158	16	16	....	....	....
G. L. and M. W.	6	146	80.7	.158	12.80	....	....	....	....	102	20	13	11	....	....	....
Southern	6	72	80.5	.122	9.72	3	20	31	....	....	13	....	5	....	....	....
Total	18	473	79.1	.157	12.43	3	20	31	37	122	191	29	40	....	....	....
1909.																
Eastern	1	11	70.0	.235	16.45	....	....	....	....	....	....	....	11	....	....	....
Pittsburgh	5	454	80.0	.165	13.23	....	....	....	83	53	266	8	44	....	....	....
G. L. and M. W.	6	161	83.5	.161	13.46	....	....	....	18	80	20	31	12	....	....	....
Southern	6	111	81.5	.115	9.38	3	16	62	21	....	....	9	....	....	....	....
Total	18	737	80.9	.158	12.75	3	16	62	122	133	286	48	67	....	....	....
1910.																
Eastern	5	165	77.9	.168	13.10	....	....	....	10	105	1	10	39	....	....	....
Pittsburgh	8	688	81.2	.170	13.86	....	....	....	119	29	344	148	48	....	....	....
G. L. and M. W.	9	416	79.3	.166	13.23	....	....	....	....	146	195	63	12	....	....	....
Southern	10	176	78.6	.133	10.40	....	....	44	101	14	11	....	6	....	....	....
Total	32	1,445	79.9	.164	13.17	....	....	44	230	294	551	221	105	....	....	....
1911.																
Eastern	5	86	73.1	.158	11.60	....	....	....	7	44	19	16	....	....	....	....
Pittsburgh	8	503	80.8	.177	14.33	....	....	....	50	29	251	125	8	40	....	....
G. L. and M. W.	10	210	79.5	.168	13.39	....	....	....	....	63	125	11	11	....	....	....
Southern	9	105	80.1	.131	10.42	....	....	46	28	23	....	....	8	....	....	....
Total	32	904	79.7	.168	13.40	....	....	46	85	159	395	152	27	40	....	....
1912.																
Eastern	5	78	68.7	.173	11.84	....	....	....	9	36	8	18	....	....	7	....
Pittsburgh	8	606	80.5	.181	14.59	....	....	....	30	29	312	181	14	20	20	....
G. L. and M. W.	10	248	77.9	.169	13.17	....	....	....	....	53	167	18	10	....	....	....
Southern	9	113	77.5	.136	10.53	....	....	49	14	37	....	....	13	....	....	....
Total	32	1,045	78.7	.173	13.61	....	....	49	53	155	487	217	37	20	27	....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BOTTOM FILLERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1907.																
Eastern	2	100	84.0	$0.141	$11.84				68	32						
Pittsburgh	1	28	84.0	.182	15.26						12	16				
G. L. and M.W.	2	93	84.0	.186	15.66						41	52				
Southern	2	72	84.0	.142	11.93			36			36					
Total	7	293	84.0	.160	13.40			36	68	32	89	68				
1908.																
Eastern	2	60	84.0	.127	10.70				60							
Pittsburgh	1	28	84.0	.173	14.54						12	16				
G. L. and M.W.	2	58	84.0	.167	14.05					34		24				
Southern	2	48	84.0	.143	12.04			18			30					
Total	7	194	84.0	.150	12.59			18	60	34	42	40				
1909.																
Eastern	2	100	84.0	.128	10.72				100							
Pittsburgh	1	30	84.0	.172	14.47						14	16				
G. L. and M.W.	2	58	84.0	.177	14.89						34	24				
Southern	2	94	84.0	.114	9.62			60	34							
Total	7	282	84.0	.138	11.61			60	134		48	40				
1910.																
Eastern	4	398	84.0	.143	12.00				112	286						
Pittsburgh	2	46	84.0	.186	15.62						14	32				
G. L. and M.W.	3	130	84.0	.182	15.28						82	48				
Southern	5	98	84.0	.133	11.18				64	34						
Total	14	672	84.0	.152	12.77				176	320	96	80				
1911.																
Eastern	4	212	84.0	.136	11.43				90	122						
Pittsburgh	2	42	84.0	.186	15.59						14	28				
G. L. and M.W.	4	90	84.0	.175	14.68					26	28	36				
Southern	5	73	84.0	.133	11.17				47	26						
Total	15	417	84.0	.149	12.50				137	174	42	64				
1912.																
Eastern	4	166	84.0	.142	11.94				44	122						
Pittsburgh	2	44	84.0	.186	15.61						14	30				
G. L. and M.W.	4	129	84.0	.173	14.51					43	40	46				
Southern	5	129	77.6	.131	10.25				85	44						
Total	15	468	82.2	.152	12.53				129	209	54	76				

TOP FILLERS.

1907.																
Eastern	2	10	84.0	$0.155	$12.99					4	6					
Pittsburgh	1	8	84.0	.217	18.23								8			
G. L. and M.W.	2	18	84.0	.212	17.84								18			
Southern	3	30	84.0	.152	12.79			4	12	4		10				
Total	8	66	84.0	.177	14.86			4	12	8	6	10	26			

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

TOP FILLERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1908.																
Eastern	2	8	84.0	$0.136	$11.40	.....	.....	.....	8	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	1	6	84.0	.206	17.30	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
G. L. and M. W.	2	12	84.0	.193	16.17	.....	.....	.....	.....	.....	6	.....	6	.....	.....	.....
Southern	3	18	84.0	.154	12.96	.....	.....	4	6	.....	.....	8	.....	.....	.....	.....
Total	8	44	84.0	.168	14.15	.....	.....	4	14	.....	6	8	12	.....	.....	.....
1909.																
Eastern	2	10	84.0	.136	11.42	.....	.....	.....	10	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	1	6	84.0	.206	17.30	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
G. L. and M. W.	2	12	84.0	.203	17.05	.....	.....	.....	.....	.....	.....	6	6	.....	.....	.....
Southern	3	22	84.0	.138	11.61	.....	.....	6	6	10	.....	.....	.....	.....	.....	.....
Total	8	50	84.0	.161	13.56	.....	.....	6	16	10	.....	6	12	.....	.....	.....
1910.																
Eastern	4	85	84.0	.158	13.29	.....	.....	.....	.....	14	71	.....	.....	.....	.....	.....
Pittsburgh	1	6	84.0	.217	18.23	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
G. L. and M. W.	2	18	74.7	.240	17.36	.....	.....	.....	.....	.....	.....	.....	12	.....	6	.....
Southern	6	33	84.0	.150	12.58	.....	.....	.....	4	23	6	.....	.....	.....	.....	.....
Total	13	142	82.8	.169	13.85	.....	.....	.....	4	37	77	.....	18	.....	6	.....
1911.																
Eastern	4	36	84.0	.153	12.87	.....	.....	.....	6	6	24	.....	.....	.....	.....	.....
Pittsburgh	1	6	84.0	.217	18.23	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
G. L. and M. W.	3	20	75.6	.227	16.56	.....	.....	.....	.....	.....	.....	8	6	.....	6	.....
Southern	6	30	84.0	.147	12.31	.....	.....	2	8	14	4	2	.....	.....	.....	.....
Total	14	92	82.2	.171	13.84	.....	.....	2	14	20	28	10	12	.....	6	.....
1912.																
Eastern	4	22	84.0	.152	12.77	.....	.....	.....	.....	14	8	.....	.....	.....	.....	.....
Pittsburgh	1	6	84.0	.217	18.23	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
G. L. and M. W.	3	30	78.4	.218	16.62	.....	.....	.....	.....	.....	.....	12	12	.....	6	.....
Southern	6	38	78.3	.149	11.73	.....	.....	2	10	16	6	4	.....	.....	.....	.....
Total	14	96	80.0	.176	13.90	.....	.....	2	10	30	14	16	18	.....	6	.....

LARRY MEN.

1907.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	52	84.0	$0.190	$15.95	.....	.....	.....	.....	.....	16	16	20	.....	.....	.....
G. L. and M. W.	4	56	84.0	.229	19.25	.....	.....	.....	.....	.....	.....	.....	36	20	.....	.....
Southern	3	24	84.0	.129	10.79	.....	.....	.....	20	4	.....	.....	.....	.....	.....	.....
Total	11	132	84.0	.195	16.41	.....	.....	.....	20	4	16	16	56	20	.....	.....
1908.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	26	84.0	.188	15.77	.....	.....	.....	.....	.....	8	10	8	.....	.....	.....
G. L. and M. W.	4	38	84.0	.216	18.15	.....	.....	.....	.....	.....	.....	2	36	.....	.....	.....
Southern	3	22	84.0	.125	10.52	.....	.....	6	16	.....	.....	.....	.....	.....	.....	.....
Total	11	86	84.0	.184	15.48	.....	.....	6	16	.....	8	12	44	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

LARRY MEN—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1909.																
Eastern																
Pittsburgh	4	64	84.0	$0.172	$14.44					24		40				
G. L. and M. W.	4	53	84.0	.217	18.20							22	31			
Southern	3	18	84.0	.147	12.34			6	4	2		6				
Total	11	135	84.0	.186	15.64			6	4	26		68	31			
1910.																
Eastern	2	4	84.0	.181	15.20						2	2				
Pittsburgh	8	122	84.0	.192	16.13						64	26	32			
G. L. and M. W.	6	72	84.0	.217	18.24							2	49	21		
Southern	5	33	84.0	.166	13.97			2	4	4	4	19				
Total	21	231	84.0	.196	16.47			2	4	4	70	49	81	21		
1911.																
Eastern	2	4	78.0	.181	14.11						2	2				
Pittsburgh	8	122	84.0	.187	15.70						64	20	38			
G. L. and M. W.	6	55	80.3	.223	17.78								38	17		
Southern	5	22	84.0	.160	13.43			2	2	6	4	8				
Total	21	203	82.9	.194	15.99			2	2	6	70	30	76	17		
1912.																
Eastern	2	6	76.0	.185	14.06						2	4				
Pittsburgh	8	142	76.9	.197	15.02						40	28	74			
G. L. and M. W.	6	65	78.6	.221	17.29								44	21		
Southern	5	24	84.0	.162	13.64				4	6	4	10				
Total	21	237	78.1	.200	15.48				4	6	46	42	118	21		

LARRY MEN'S HELPERS.

1907.																
Eastern																
Pittsburgh	4	48	84.0	$0.165	$13.87					16	32					
G. L. and M. W.	4	57	84.0	.163	13.66					18	39					
Southern	2	10	84.0	.108	9.09			8	2							
Total	10	115	84.0	.159	13.35			8	2	34	71					
1908.																
Eastern																
Pittsburgh	4	24	84.0	.164	13.77					8	16					
G. L. and M. W.	4	45	84.0	.156	13.13					28	17					
Southern	2	10	84.0	.107	8.95			10								
Total	10	79	84.0	.152	12.80			10		36	33					
1909.																
Eastern																
Pittsburgh	4	60	84.0	.150	12.58				24	20	16					
G. L. and M. W.	4	63	84.0	.156	13.11				12	21	30					
Southern	2	12	84.0	.110	9.21			10	2							
Total	10	135	84.0	.149	12.53			10	38	41	46					

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

LARRY MEN'S HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1910.																
Eastern	1	2	84.0	$0.158	$13.27	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
Pittsburgh	8	167	84.0	.172	14.43	.....	.....	.....	.....	24	123	20	.....	.....	.....	.....
G. L. and M. W.	5	76	84.0	.164	13.81	.....	.....	.....	.....	21	55	.....	.....	.....	.....	.....
Southern	5	33	84.0	.135	11.31	.....	.....	12	2	19	.....	.....	.....	.....	.....	.....
Total	19	278	84.0	.165	13.88	.....	.....	12	2	66	178	20	.....	.....	.....	.....
1911.																
Eastern	1	2	72.0	.158	11.38	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
Pittsburgh	8	216	84.0	.172	14.47	.....	.....	.....	.....	24	172	20	.....	.....	.....	.....
G. L. and M. W.	5	54	76.9	.167	12.79	.....	.....	.....	.....	12	42	.....	.....	.....	.....	.....
Southern	5	22	84.0	.133	11.14	.....	.....	2	12	8	.....	.....	.....	.....	.....	.....
Total	19	294	82.6	.168	13.89	.....	.....	2	12	46	214	20	.....	.....	.....	.....
1912.																
Eastern	1	4	72.0	.158	11.38	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	8	248	79.9	.178	14.13	.....	.....	.....	.....	.....	192	20	36	.....	.....	.....
G. L. and M. W.	5	67	77.0	.168	12.91	.....	.....	.....	.....	4	63	.....	.....	.....	.....	.....
Southern	5	24	84.0	.135	11.32	.....	.....	.....	14	10	.....	.....	.....	.....	.....	.....
Total	19	343	79.6	.173	13.67	.....	.....	.....	14	18	255	20	36	.....	.....	.....

SKIP OPERATORS.

1907.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	5	54	84.0	$0.192	$16.14	.....	.....	.....	.....	.....	22	.....	32	.....	.....	.....
G. L. and M. W.	3	20	84.0	.219	18.35	.....	.....	.....	.....	.....	.....	4	14	2	.....	.....
Southern	3	12	84.0	.152	12.78	.....	.....	.....	.....	10	2	.....	.....	.....	.....	.....
Total	11	86	84.0	.193	16.19	.....	.....	.....	.....	10	24	4	46	2	.....	.....
1908.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	5	38	84.0	.191	16.08	.....	.....	.....	.....	.....	16	.....	22	.....	.....	.....
G. L. and M. W.	3	14	84.0	.204	17.10	.....	.....	.....	.....	.....	.....	6	6	2	.....	.....
Southern	3	12	84.0	.140	11.72	.....	.....	.....	6	6	.....	.....	.....	.....	.....	.....
Total	11	64	84.0	.184	15.49	.....	.....	.....	6	6	16	6	28	2	.....	.....
1909.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	5	62	84.0	.184	15.50	.....	.....	.....	.....	.....	22	24	16	.....	.....	.....
G. L. and M. W.	3	18	84.0	.202	16.94	.....	.....	.....	.....	.....	.....	16	.....	2	.....	.....
Southern	3	14	84.0	.155	13.02	.....	.....	.....	.....	8	6	.....	.....	.....	.....	.....
Total	11	94	84.0	.183	15.40	.....	.....	.....	.....	8	28	40	16	2	.....	.....
1910.																
Eastern	2	4	84.0	.167	13.90	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....
Pittsburgh	8	70	84.0	.207	17.36	.....	.....	.....	.....	.....	20	6	40	4	.....	.....
G. L. and M. W.	5	30	84.0	.204	17.15	.....	.....	.....	.....	.....	.....	8	20	2	.....	.....
Southern	4	21	84.0	.161	13.55	.....	.....	.....	.....	8	13	.....	.....	.....	.....	.....
Total	19	125	84.0	.197	16.56	.....	.....	.....	.....	10	35	14	60	6	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

SKIP OPERATORS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1911.																
Eastern	2	4	78.0	$0.173	$13.53	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
Pittsburgh	8	76	84.0	.205	17.20	.....	.....	.....	.....	.....	20	2	46	8	.....	.....
G. L. and M. W.	5	26	84.0	.208	17.50	.....	.....	.....	.....	.....	.....	.....	24	2	.....	.....
Southern	4	18	84.0	.160	13.47	.....	.....	.....	.....	8	10	.....	.....	.....	.....	.....
Total	19	124	83.8	.198	16.60	.....	.....	.....	.....	8	34	2	70	10	.....	.....
1912.																
Eastern	2	6	76.0	.171	13.03	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh	8	76	77.4	.217	16.53	.....	.....	.....	.....	.....	20	6	24	26	.....	.....
G. L. and M. W.	5	34	81.2	.214	17.36	.....	.....	.....	.....	.....	.....	.....	30	4	.....	.....
Southern	4	20	84.0	.161	13.52	.....	.....	.....	.....	8	12	.....	.....	.....	.....	.....
Total	19	136	79.2	.206	16.14	.....	.....	.....	.....	8	38	6	54	30	.....	.....

BLOWERS.

1907.																
Eastern	2	4	84.0	$0.219	$18.35	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	5	26	84.0	.313	26.26	.....	.....	.....	.....	.....	.....	.....	2	11	11	2
G. L. and M. W.	5	29	84.0	.322	27.08	.....	.....	.....	.....	.....	.....	.....	.....	.....	26	3
Southern	6	19	84.0	.264	22.19	.....	.....	.....	.....	.....	.....	.....	4	11	4	.....
Total	18	78	84.0	.300	25.17	.....	.....	.....	.....	.....	.....	.....	10	22	41	5
1908.																
Eastern	2	4	84.0	.208	17.47	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	5	23	84.0	.298	25.07	.....	.....	.....	.....	.....	.....	.....	3	12	8	.....
G. L. and M. W.	5	21	84.0	.316	26.53	.....	.....	.....	.....	.....	.....	.....	.....	3	18	.....
Southern	6	20	84.0	.245	20.55	.....	.....	.....	.....	.....	.....	.....	5	15	.....	.....
Total	18	68	84.0	.283	23.74	.....	.....	.....	.....	.....	.....	.....	12	30	26	.....
1909.																
Eastern	2	4	84.0	.217	18.19	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	5	31	84.0	.291	24.41	.....	.....	.....	.....	.....	.....	.....	4	17	10	.....
G. L. and M. W.	5	25	84.0	.337	28.33	.....	.....	.....	.....	.....	.....	.....	.....	3	22	.....
Southern	6	26	84.0	.243	20.38	.....	.....	.....	.....	.....	.....	.....	12	13	1	.....
Total	18	86	84.0	.286	24.04	.....	.....	.....	.....	.....	.....	.....	20	33	33	.....
1910.																
Eastern	6	17	79.8	.225	18.09	.....	.....	.....	.....	1	.....	.....	14	2	.....	.....
Pittsburgh	8	45	84.0	.321	26.94	.....	.....	.....	.....	.....	.....	.....	1	23	19	2
G. L. and M. W.	8	40	84.0	.320	26.87	.....	.....	.....	.....	.....	.....	.....	.....	10	29	1
Southern	10	29	84.0	.266	22.30	.....	.....	.....	.....	.....	.....	.....	12	10	7	.....
Total	32	131	83.5	.296	24.74	.....	.....	.....	.....	1	.....	.....	27	45	55	3
1911.																
Eastern	6	16	81.8	.243	19.62	.....	.....	.....	.....	.....	.....	.....	13	1	1	1
Pittsburgh	8	43	84.0	.316	26.58	.....	.....	.....	.....	.....	.....	.....	.....	23	18	2
G. L. and M. W.	9	36	81.3	.353	28.47	.....	.....	.....	.....	.....	.....	.....	.....	4	23	9
Southern	10	28	84.0	.263	22.09	.....	.....	.....	.....	.....	2	.....	11	7	8	.....
Total	33	123	82.9	.305	25.21	.....	.....	.....	.....	.....	2	.....	24	35	50	12

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BLOWERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1912.																
Eastern	6	16	81.8	$0.252	$20.41	.....	.....	.....	.....	.....	.....	.....	11	3	1	1
Pittsburgh	8	48	78.8	.329	25.54	.....	.....	.....	.....	.....	.....	.....	.....	23	17	8
G. L. and M. W.	9	38	80.2	.353	28.13	.....	.....	.....	.....	.....	.....	.....	.....	4	25	9
Southern	10	30	81.6	.268	21.89	.....	.....	.....	.....	.....	2	.....	10	8	10	.....
Total	33	132	80.2	.313	24.84	.....	.....	.....	.....	.....	2	.....	21	38	53	18

BLOWING ENGINEERS.

1907.																
Eastern	2	6	84.0	$0.179	$15.06	.....	.....	.....	.....	.....	4	2	.....	.....	.....	.....
Pittsburgh	6	32	84.0	.258	21.64	.....	.....	.....	.....	.....	.....	.....	2	30	.....	.....
G. L. and M. W.	6	42	84.0	.264	22.15	.....	.....	.....	.....	.....	.....	.....	4	35	3	.....
Southern	6	20	84.0	.189	15.83	.....	.....	.....	.....	2	2	10	6	.....	.....	.....
Total	20	100	84.0	.242	20.30	.....	.....	.....	.....	2	6	12	12	65	3	.....
1908.																
Eastern	2	4	84.0	.167	14.03	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
Pittsburgh	6	30	84.0	.257	21.61	.....	.....	.....	.....	.....	.....	.....	2	28	.....	.....
G. L. and M. W.	6	33	84.0	.251	21.10	.....	.....	.....	.....	.....	.....	.....	20	13	.....	.....
Southern	6	18	84.0	.185	15.54	.....	.....	.....	.....	4	.....	6	8	.....	.....	.....
Total	20	85	84.0	.235	19.77	.....	.....	.....	.....	4	4	6	30	41	.....	.....
1909.																
Eastern	2	6	84.0	.161	13.55	.....	.....	.....	.....	2	4	.....	.....	.....	.....	.....
Pittsburgh	6	36	84.0	.249	20.92	.....	.....	.....	.....	.....	.....	.....	12	24	.....	.....
G. L. and M. W.	6	41	84.0	.247	20.78	.....	.....	.....	.....	.....	.....	.....	26	15	.....	.....
Southern	6	20	84.0	.183	15.36	.....	.....	.....	.....	2	2	12	4	.....	.....	.....
Total	20	103	84.0	.230	19.35	.....	.....	.....	.....	4	6	12	42	39	.....	.....
1910.																
Eastern	6	19	84.0	.197	16.59	.....	.....	.....	.....	.....	12	2	.....	5	.....	.....
Pittsburgh	9	46	84.0	.269	22.58	.....	.....	.....	.....	.....	.....	.....	2	44	.....	.....
G. L. and M. W.	9	64	84.0	.257	21.55	.....	.....	.....	.....	.....	.....	.....	36	20	8	.....
Southern	10	24	84.0	.192	16.15	.....	.....	.....	.....	2	2	13	7	.....	.....	.....
Total	34	153	84.0	.243	20.39	.....	.....	.....	.....	2	14	15	45	69	8	.....
1911.																
Eastern	6	14	82.3	.187	15.42	.....	.....	.....	.....	.....	10	2	.....	2	.....	.....
Pittsburgh	9	44	84.0	.268	22.54	.....	.....	.....	.....	.....	.....	.....	2	42	.....	.....
G. L. and M. W.	10	55	81.6	.259	21.05	.....	.....	.....	.....	.....	.....	.....	30	17	8	.....
Southern	10	24	84.0	.196	16.48	.....	.....	.....	.....	2	.....	12	10	.....	.....	.....
Total	35	137	82.9	.244	20.15	.....	.....	.....	.....	2	10	14	42	61	8	.....
1912.																
Eastern	6	16	82.5	.192	15.85	.....	.....	.....	.....	.....	8	6	.....	2	.....	.....
Pittsburgh	9	46	80.3	.278	22.13	.....	.....	.....	.....	.....	.....	.....	2	38	6	.....
G. L. and M. W.	10	54	80.0	.267	21.25	.....	.....	.....	.....	.....	.....	.....	22	22	10	.....
Southern	10	26	81.2	.195	15.83	.....	.....	.....	.....	2	2	14	7	1	.....	.....
Total	35	142	80.6	.249	19.93	.....	.....	.....	.....	2	10	20	31	63	16	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BLOWING ENGINEERS' ASSISTANTS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1907.																
Eastern	1	2	84.0	$0.171	$14.36						2					
Pittsburgh	5	43	84.0	.205	17.22							12	31			
G. L. and M.W.	3	16	84.0	.227	19.09							4	2	10		
Southern	2	6	84.0	.131	10.98				4	2						
Total	11	67	84.0	.203	17.02				4	2	2	16	33	10		
1908.																
Eastern	1	2	84.0	.154	12.94					2						
Pittsburgh	5	29	84.0	.208	17.44							6	23			
G. L. and M.W.	3	14	84.0	.221	18.58							6		8		
Southern	2	6	84.0	.121	10.16			2	4							
Total	11	51	84.0	.199	16.72			2	4	2		12	23	8		
1909.																
Eastern	1	2	84.0	.138	11.59				2							
Pittsburgh	5	46	84.0	.197	16.53						4	20	22			
G. L. and M.W.	3	16	84.0	.225	18.88							6		10		
Southern	2	10	84.0	.125	10.47			6		4						
Total	11	74	84.0	.191	16.08			6	2	4	4	26	22	10		
1910.																
Eastern	3	8	84.0	.180	15 12					2	2		4			
Pittsburgh	8	54	84.0	.214	18.01							4	50			
G. L. and M.W.	3	20	84.0	.223	18.73							8	2	10		
Southern	4	12	84.0	.164	13.76				2	4	1	5				
Total	18	94	84.0	.207	17.38				2	6	3	1	7 56	10		
1911.																
Eastern	3	6	80.0	.174	13.96					2	2		2			
Pittsburgh	8	58	84.0	.215	18.03							4	54			
G. L. and M.W.	3	12	80.0	.218	17.25							6	2	4		
Southern	4	15	84.0	.172	14.41				2	4		9				
Total	18	91	83.2	.205	17.06				2	6	2	19	58	4		
1912.																
Eastern	3	6	80.0	.177	14.17						4		2			
Pittsburgh	8	69	80.3	.222	17.73								66	3		
G. L. and M.W.	3	15	80.0	.221	17.50							6	4	5		
Southern	4	18	81.3	.169	13.85				4	4		10				
Total	18	108	80.4	.211	16.85				4	4	4	16	72	8		

STOVE TENDERS.

1907.																
Eastern	2	6	84.0	$0.160	$13.41					4	2					
Pittsburgh	6	60	84.0	.190	15.99						1	47	12			
G. L. and M.W.	6	50	84.0	.216	18.17							24	14	12		
Southern	6	24	84.0	.152	12.76				4	12	6	2				
Total	20	140	84.0	.192	16.10				4	16	9	73	26	12		

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

STOVE TENDERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1908.																
Eastern	2	4	84.0	$0.157	$13.15					2	2					
Pittsburgh	6	40	84.0	.191	16.04							32	8			
G. L. and M.W.	6	34	84.0	.204	17.16						2	2	30			
Southern	6	18	84.0	.141	11.83			2	8	6		2				
Total	20	96	84.0	.185	15.52			2	8	8	4	36	38			
1909.																
Eastern	2	6	84.0	.147	12.38					6						
Pittsburgh	6	64	84.0	.185	15.50						12	50	2			
G. L. and M.W.	6	45	84.0	.206	17.27						2	2	41			
Southern	6	25	84.0	.137	11.49			2	12	11						
Total	20	140	84.0	.181	15.22			2	12	17	14	52	43			
1910.																
Eastern	6	24	84.0	.163	13.72					10	14					
Pittsburgh	9	76	84.0	.203	17.09							28	48			
G. L. and M.W.	9	64	84.0	.210	17.61							8	56			
Southern	10	36	84.0	.161	13.53				6	12	18					
Total	34	200	84.0	.193	16.21				6	22	32	36	104			
1911.																
Eastern	6	20	81.6	.161	13.15					8	12					
Pittsburgh	9	82	84.0	.200	16.77							32	50			
G. L. and M.W.	10	48	80.0	.207	16.54						2	8	38			
Southern	10	30	84.0	.155	13.00				6	14	10					
Total	35	180	82.7	.190	15.68				6	22	24	40	88			
1912.																
Eastern	6	20	81.6	.166	13.56					6	14					
Pittsburgh	9	92	78.5	.207	16.15							20	72			
G. L. and M.W.	10	64	78.8	.209	16.41						2	10	52			
Southern	10	36	82.0	.157	12.86				6	16	14					
Total	35	212	79.5	.195	15.42				6	22	30	30	124			

KEEPERS.

1907.																
Eastern	2	6	84.0	$0.173	$14.50						4	2				
Pittsburgh	6	60	84.0	.231	19.40								60			
G. L. and M.W.	6	52	84.0	.235	19.74								28	24		
Southern	6	28	84.0	.170	14.30					18	4		6			
Total	20	146	84.0	.218	18.34					18	8	2	94	24		
1908.																
Eastern	2	4	84.0	.161	13.48					2	2					
Pittsburgh	6	38	84.0	.230	19.29								38			
G. L. and M.W.	6	34	84.0	.224	18.35								30	4		
Southern	6	20	84.0	.161	13.48				6	6	4		4			
Total	20	96	84.0	.210	17.68				6	8	6		72	4		

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

KEEPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1909.																
Eastern	2	6	84.0	$0.150	$12.60	....	....	....	....	6	....	....	....	....	....	....
Pittsburgh	6	64	84.0	.219	18.41	....	....	....	....	....	....	....	64	....	....	....
G. L. and M.W.	6	45	84.0	.225	18.94	....	....	....	....	....	....	....	41	4	....	....
Southern	6	26	84.0	.150	12.59	....	....	....	10	8	4	4	....	....	....	....
Total	20	141	84.0	.205	17.26	....	....	....	10	14	4	4	105	4	....	....
1910.																
Eastern	6	29	84.0	.177	14.87	....	....	....	....	8	....	21	....	....	....	....
Pittsburgh	9	76	84.0	.236	19.85	....	....	....	....	....	....	....	76	....	....	....
G. L. and M.W.	9	65	84.0	.229	19.24	....	....	....	....	....	....	....	59	6	....	....
Southern	10	31	84.0	.171	14.34	....	....	....	....	11	4	16	....	....	....	....
Total	34	201	84.0	.215	18.09	....	....	....	....	19	4	37	135	6	....	....
1911.																
Eastern	6	20	81.6	.174	14.17	....	....	....	....	6	....	14	....	....	....	....
Pittsburgh	9	82	84.0	.236	19.87	....	....	....	....	....	....	....	82	....	....	....
G. L. and M.W.	10	52	80.3	.231	18.56	....	....	....	....	....	....	....	48	4	....	....
Southern	10	30	84.0	.169	14.16	....	....	....	....	12	4	14	....	....	....	....
Total	35	184	82.7	.217	17.95	....	....	....	....	18	4	28	130	4	....	....
1912.																
Eastern	6	20	81.6	.179	14.54	....	....	....	....	....	8	11	1	....	....	....
Pittsburgh	9	92	78.5	.248	19.25	....	....	....	....	....	....	....	74	18	....	....
G. L. and M.W.	10	68	79.1	.231	18.24	....	....	....	....	....	....	....	62	6	....	....
Southern	10	36	82.0	.170	13.94	....	....	....	....	14	4	18	....	....	....	....
Total	35	216	79.6	.223	17.61	....	....	....	....	14	12	29	137	24	....	....

KEEPERS' HELPERS.

1907.																
Eastern	2	52	84.0	$0.141	$11.85	....	....	....	34	16	2	....	....	....	....	....
Pittsburgh	6	202	84.0	.173	14.54	....	....	....	....	12	134	44	12	....	....	....
G. L. and M.W.	6	222	84.0	.187	15.73	....	....	....	....	....	66	72	84	....	....	....
Southern	6	140	84.0	.129	10.81	....	....	48	60	18	14	....	....	....	....	....
Total	20	616	84.0	.165	13.89	....	....	48	94	46	216	116	96	....	....	....
1908.																
Eastern	2	32	84.0	.131	10.97	....	....	....	30	2	....	....	....	....	....	....
Pittsburgh	6	135	84.0	.173	14.51	....	....	....	....	8	89	30	8	....	....	....
G. L. and M.W.	6	146	84.0	.178	14.98	....	....	....	....	6	62	58	20	....	....	....
Southern	6	96	84.0	.122	10.27	....	....	48	38	....	10	....	....	....	....	....
Total	20	409	84.0	.160	13.41	....	....	48	68	16	161	88	28	....	....	....
1909.																
Eastern	2	54	84.0	.128	10.75	....	....	....	52	2	....	....	....	....	....	....
Pittsburgh	6	218	84.0	.167	14.03	....	....	....	....	36	146	36	....	....	....	....
G. L. & M. W.	6	181	84.0	.180	15.09	....	....	....	....	12	65	84	20	....	....	....
Southern	6	143	84.0	.116	9.78	....	....	90	49	4	....	....	....	....	....	....
Total	20	596	84.0	.155	13.04	....	....	90	101	54	211	120	20	....	....	....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

KEEPERS' HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1910.																
Eastern	6	162	84.0	$0.146	$12.24	.....	.....	.....	64	76	22	.....	.....	.....	.....	.....
Pittsburgh	9	264	84.0	.182	15.31	.....	.....	.....	.....	.....	156	88	20	.....	.....	.....
G. L. & M. W.	9	299	84.0	.185	15.53	.....	.....	.....	.....	.....	91	156	52	.....	.....	.....
Southern	10	152	84.0	.135	11.35	.....	.....	38	41	73	.....	.....	.....	.....	.....	.....
Total	34	877	84.0	.168	14.13	.....	.....	38	105	149	269	244	72	.....	.....	.....
1911.																
Eastern	6	120	82.8	.141	11.64	.....	.....	.....	52	52	16	.....	.....	.....	.....	.....
Pittsburgh	9	268	84.0	.183	15.40	.....	.....	.....	.....	.....	154	90	24	.....	.....	.....
G. L. and M. W.	10	212	81.5	.186	15.19	.....	.....	.....	.....	2	28	150	32	.....	.....	.....
Southern	10	142	84.0	.128	10.75	.....	.....	60	40	42	.....	.....	.....	.....	.....	.....
Total	35	742	83.1	.167	13.84	.....	.....	60	92	96	198	240	56	.....	.....	.....
1912.																
Eastern	6	120	82.8	.148	12.21	.....	.....	.....	24	80	16	.....	.....	.....	.....	.....
Pittsburgh	9	286	80.5	.189	15.12	.....	.....	.....	.....	.....	144	82	60	.....	.....	.....
G. L. and M. W.	10	270	80.3	.186	14.91	.....	.....	.....	.....	2	32	197	39	.....	.....	.....
Southern	10	170	81.9	.130	10.64	.....	.....	62	52	56	.....	.....	.....	.....	.....	.....
Total	35	846	81.0	.170	13.74	.....	.....	62	76	138	192	279	99	.....	.....	.....

IRON HANDLERS AND LOADERS.

1907.																
Eastern	2	27	84.0	$0.194	$16.27	.....	.....	.....	.....	.....	16	.....	11	.....	.....	.....
Pittsburgh	1	12	77.0	.418	32.19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
G. L. and M. W.	1	18	79.3	.192	15.20	.....	.....	.....	.....	.....	.....	12	6	.....	.....	.....
Southern	5	146	70.1	.174	12.22	.....	.....	.....	10	26	70	6	34	.....	.....	.....
Total	9	203	73.2	.193	14.20	.....	.....	.....	10	26	86	18	51	.....	.....	12
1908.																
Eastern	2	27	80.9	.188	15.12	.....	.....	.....	.....	16	.....	.....	6	5	.....	.....
Pittsburgh	1	14	77.0	.357	27.49	.....	.....	.....	.....	.....	.....	.....	.....	.....	14	.....
G. L. and M. W.	1	16	81.4	.174	14.18	.....	.....	.....	.....	6	3	.....	7	.....	.....	.....
Southern	5	106	69.3	.171	11.83	.....	.....	3	23	5	42	6	27	.....	.....	.....
Total	9	163	73.0	.190	13.95	.....	.....	3	23	27	45	6	40	5	14	.....
1909.																
Eastern	2	37	80.6	.189	15.07	.....	.....	.....	.....	16	.....	.....	21	.....	.....	.....
Pittsburgh	1	18	77.0	.250	19.25	.....	.....	.....	.....	.....	.....	.....	.....	18	.....	.....
G. L. and M. W.	1	17	81.5	.195	15.91	.....	.....	.....	.....	.....	6	3	8	.....	.....	.....
Southern	5	170	70.9	.165	11.68	.....	.....	.....	28	31	80	10	21	.....	.....	.....
Total	9	242	73.6	.177	13.05	.....	.....	.....	28	47	86	13	50	18	.....	.....
1910.																
Eastern	4	64	79.6	.225	17.86	.....	.....	.....	.....	.....	26	.....	11	27	.....	.....
Pittsburgh	2	28	79.5	.221	17.43	.....	.....	.....	.....	.....	10	.....	18	.....	.....	.....
G. L. and M. W.	3	68	72.5	.197	14.23	.....	.....	.....	.....	.....	44	16	.....	.....	8	.....
Southern	9	145	71.6	.173	12.29	.....	.....	.....	24	32	49	6	25	9	.....	.....
Total	18	305	74.2	.194	14.36	.....	.....	.....	24	32	129	22	54	36	8	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

IRON HANDLERS AND LOADERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1911.																
Eastern	4	57	79.6	$0.213	$16.50	.....	.....	.....	.....	.....	28	12	.....	4	13	.....
Pittsburgh	2	22	73.9	.263	19.53	.....	.....	.....	.....	.....	.....	.....	4	18	.....	.....
G. L. and M. W.	4	70	72.8	.199	14.45	.....	.....	.....	12	.....	11	8	31	.....	8	.....
Southern	9	159	70.5	.178	12.47	.....	.....	.....	9	33	59	18	40	.....	.....	.....
Total	19	308	73.0	.195	14.17	.....	.....	.....	21	33	98	38	75	22	21	.....
1912.																
Eastern	4	62	79.3	.213	16.58	.....	.....	.....	.....	.....	26	12	.....	18	6	.....
Pittsburgh	2	32	77.1	.231	17.69	.....	.....	.....	.....	.....	10	.....	12	.....	10	.....
G. L. and M. W.	4	69	74.5	.214	15.84	.....	.....	.....	.....	12	11	28	6	.....	12	.....
Southern	9	196	68.4	.176	12.00	.....	.....	.....	11	47	68	20	50	.....	.....	.....
Total	19	359	72.2	.195	14.04	.....	.....	.....	11	59	115	60	68	18	28	.....

PIG-MACHINE MEN.

1907.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	124	84.0	$0.165	$13.88	.....	.....	.....	20	6	92	.....	6	.....	.....	.....
G. L. and M. W.	4	52	84.0	.179	15.07	.....	.....	.....	.....	12	18	6	14	2	.....	.....
Southern	1	17	84.0	.142	11.94	.....	.....	.....	5	12	.....	.....	.....	.....	.....	.....
Total	9	193	84.0	.167	14.03	.....	.....	.....	25	30	110	6	20	2	.....	.....
1908.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	98	83.8	.165	13.84	.....	.....	.....	4	2	90	.....	2	.....	.....	.....
G. L. and M. W.	4	45	84.0	.170	14.31	.....	.....	.....	.....	11	18	12	4	.....	.....	.....
Southern	1	14	84.0	.126	10.60	.....	.....	.....	14	.....	.....	.....	.....	.....	.....	.....
Total	9	157	83.9	.163	13.69	.....	.....	.....	18	13	108	12	6	.....	.....	.....
1909.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	103	84.0	.160	13.42	.....	.....	.....	15	4	80	.....	4	.....	.....	.....
G. L. and M. W.	4	44	83.5	.170	14.26	.....	.....	.....	3	7	18	14	2	.....	.....	.....
Southern	1	5	84.0	.128	10.77	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....
Total	9	152	83.9	.162	13.57	.....	.....	.....	23	11	98	14	6	.....	.....	.....
1910.																
Eastern	1	16	84.0	.145	12.20	.....	.....	.....	.....	16	.....	.....	.....	.....	.....	.....
Pittsburgh	7	136	84.0	.175	14.72	.....	.....	.....	.....	5	105	24	2	.....	.....	.....
G. L. and M. W.	6	105	83.6	.172	14.41	.....	.....	.....	.....	6	61	34	4	.....	.....	.....
Southern	2	34	84.0	.142	11.91	.....	.....	.....	17	17	.....	.....	.....	.....	.....	.....
Total	16	291	83.9	.169	14.14	.....	.....	.....	17	44	166	58	6	.....	.....	.....
1911.																
Eastern	1	15	72.0	.145	10.45	.....	.....	.....	.....	15	.....	.....	.....	.....	.....	.....
Pittsburgh	7	150	84.0	.171	14.39	.....	.....	.....	20	6	94	24	6	.....	.....	.....
G. L. and M. W.	7	81	81.0	.178	14.42	.....	.....	.....	.....	1	44	28	8	.....	.....	.....
Southern	2	21	84.0	.141	11.87	.....	.....	.....	9	12	.....	.....	.....	.....	.....	.....
Total	17	267	82.4	.169	13.98	.....	.....	.....	29	34	138	52	14	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

PIG-MACHINE MEN—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1912.																
Eastern	1	17	72.0	$0.157	$11.27	.....	.....	.....	.....	9	8	.....	.....	.....	.....	.....
Pittsburgh	7	153	84.0	.173	14.52	.....	.....	.....	10	2	113	26	2	.....	.....	.....
G. L. and M. W.	7	85	79.5	.176	14.00	.....	.....	.....	.....	.....	53	24	8	.....	.....	.....
Southern	2	20	84.0	.142	11.89	.....	.....	.....	8	12	.....	.....	.....	.....	.....	.....
Total	17	275	81.9	.171	13.97	.....	.....	.....	18	23	174	50	10	.....	.....	.....

CINDER MEN.

1907.																
Eastern	2	6	84.0	$0.147	$12.35	.....	.....	.....	2	4	.....	.....	.....	.....	.....	.....
Pittsburgh	6	110	84.0	.189	15.85	.....	.....	.....	.....	28	38	2	42	.....	.....	.....
G. L. and M. W.	6	110	83.5	.166	13.87	.....	.....	.....	.....	21	67	22	.....	.....	.....	.....
Southern	6	36	82.4	.150	12.34	.....	.....	2	10	11	13	.....	.....	.....	.....	.....
Total	20	262	83.6	.173	14.46	.....	.....	2	12	64	118	24	42	.....	.....	.....
1908.																
Eastern	2	5	82.6	.126	10.48	.....	.....	1	4	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	99	82.9	.166	13.81	.....	.....	.....	24	14	37	.....	24	.....	.....	.....
G. L. and M. W.	6	102	82.9	.156	12.95	.....	.....	.....	.....	65	37	.....	.....	.....	.....	.....
Southern	6	39	81.5	.130	10.63	2	2	16	6	3	10	.....	.....	.....	.....	.....
Total	20	245	82.6	.156	12.88	2	2	17	34	82	84	.....	24	.....	.....	.....
1909.																
Eastern	2	5	84.0	.131	11.04	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	200	82.0	.149	12.28	.....	.....	.....	81	24	77	.....	18	.....	.....	.....
G. L. and M. W.	6	127	82.4	.164	13.50	.....	.....	.....	9	39	76	.....	3	.....	.....	.....
Southern	6	48	82.3	.121	9.61	2	.....	24	10	12	.....	.....	.....	.....	.....	.....
Total	20	380	82.2	.150	12.34	2	.....	24	105	75	153	.....	21	.....	.....	.....
1910.																
Eastern	5	40	83.3	.147	12.26	.....	.....	.....	3	37	.....	.....	.....	.....	.....	.....
Pittsburgh	8	169	81.6	.168	13.79	.....	.....	.....	21	.....	106	42	.....	.....	.....	.....
G. L. and M. W.	9	226	83.8	.169	14.19	.....	.....	.....	.....	45	173	.....	.....	8	.....	.....
Southern	10	47	82.8	.130	10.77	2	.....	11	19	14	1	.....	.....	.....	.....	.....
Total	32	482	82.9	.163	13.56	2	.....	11	43	96	280	42	.....	8	.....	.....
1911.																
Eastern	5	32	82.1	.153	12.55	.....	.....	.....	1	20	10	.....	1	.....	.....	.....
Pittsburgh	7	112	82.2	.158	12.97	.....	.....	.....	46	.....	53	13	.....	.....	.....	.....
G. L. and M. W.	10	142	80.1	.168	13.42	.....	.....	.....	.....	38	83	20	.....	1	.....	.....
Southern	10	47	82.2	.132	10.85	2	.....	6	22	16	1	.....	.....	.....	.....	.....
Total	32	333	81.3	.158	12.82	2	.....	6	69	74	147	33	1	1	.....	.....
1912.																
Eastern	5	26	81.6	.147	11.98	.....	.....	.....	1	25	.....	.....	.....	.....	.....	.....
Pittsburgh	7	172	68.8	.176	12.06	.....	.....	.....	.....	28	64	50	30	.....	.....	.....
G. L. and M. W.	10	137	79.5	.166	13.13	.....	.....	.....	.....	40	84	12	1	.....	.....	.....
Southern	10	62	80.5	.132	10.63	2	.....	6	34	20	.....	.....	.....	.....	.....	.....
Total	32	397	75.2	.164	12.20	2	.....	6	35	113	148	62	31	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Concluded.

BLAST FURNACES—Continued.

LABORERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
1907.																
Eastern	2	93	66.9	$0.135	$9.03	.....	.....	4	39	50	.....	.....	.....	.....	.....	.....
Pittsburgh	6	374	78.1	.152	11.84	.....	.....	.....	91	145	138	.....	.....	.....	.....	.....
G. L. and M. W.	6	229	77.4	.162	12.51	.....	.....	.....	.....	100	129	.....	.....	.....	.....	.....
Southern	6	261	74.3	.130	9.65	.....	.....	31	144	86	.....	.....	.....	.....	.....	.....
Total	20	957	75.8	.146	11.13	.....	.....	35	274	381	267	.....	.....	.....	.....	.....
1908.																
Eastern	2	77	64.6	.115	7.48	.....	.....	40	37	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	286	73.8	.154	11.43	.....	.....	.....	12	149	125	.....	.....	.....	.....	.....
G. L. and M. W.	6	189	75.8	.152	11.55	.....	.....	.....	.....	142	47	.....	.....	.....	.....	.....
Southern	6	166	71.7	.111	7.99	.....	4	133	25	4	.....	.....	.....	.....	.....	.....
Total	20	718	72.8	.140	10.24	.....	4	173	74	295	172	.....	.....	.....	.....	.....
1909.																
Eastern	2	87	69.1	.119	8.23	.....	.....	28	59	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	227	75.5	.152	11.55	.....	.....	.....	74	.....	153	.....	.....	.....	.....	.....
G. L. and M. W.	6	257	73.3	.153	11.21	.....	.....	.....	30	183	44	.....	.....	.....	.....	.....
Southern	6	186	71.3	.112	7.96	.....	4	147	33	2	.....	.....	.....	.....	.....	.....
Total	20	757	73.0	.138	10.17	.....	4	175	196	185	197	.....	.....	.....	.....	.....
1910.																
Eastern	6	399	76.3	.142	10.83	.....	.....	.....	90	308	1	.....	.....	.....	.....	.....
Pittsburgh	9	309	75.6	.166	12.62	.....	.....	.....	5	13	291	.....	.....	.....	.....	.....
G. L. and M. W.	9	410	73.5	.162	11.93	.....	.....	.....	.....	121	289	.....	.....	.....	.....	.....
Southern	10	305	73.3	.128	9.41	.....	.....	44	237	24	.....	.....	.....	.....	.....	.....
Total	34	1,423	74.7	.150	11.23	.....	.....	44	332	466	581	.....	.....	.....	.....	.....
1911.																
Eastern	6	135	69.1	.140	9.66	.....	.....	6	35	93	1	.....	.....	.....	.....	.....
Pittsburgh	9	301	75.6	.165	12.55	.....	.....	.....	27	13	261	.....	.....	.....	.....	.....
G. L. and M. W.	10	224	72.3	.166	11.99	.....	.....	.....	.....	53	171	.....	.....	.....	.....	.....
Southern	10	277	73.7	.131	9.63	.....	.....	32	178	67	.....	.....	.....	.....	.....	.....
Total	35	937	73.3	.151	11.14	.....	.....	38	240	226	433	.....	.....	.....	.....	.....
1912.																
Eastern	6	99	68.0	.144	9.79	.....	.....	.....	26	66	6	1	.....	.....	.....	.....
Pittsburgh	9	284	77.7	.164	12.80	.....	.....	.....	4	54	226	.....	.....	.....	.....	.....
G. L. and M. W.	10	275	71.0	.167	11.86	.....	.....	.....	.....	42	233	.....	.....	.....	.....	.....
Southern	10	303	72.3	.130	9.41	.....	.....	31	207	65	.....	.....	.....	.....	.....	.....
Total	35	961	73.1	.152	11.15	.....	.....	31	237	227	465	1	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912.

BLAST FURNACES—Continued.

STOCKERS.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West." The figures set opposite each bracketed group of years are for identical plants. For explanation of averages see p. 20.]

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Eastern:																
1 plant	1907	8	70.0	$0.211	$14.77	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....
	1908	8	70.0	.203	14.21	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....
	1909	11	70.0	.235	16.45	.....	.....	.....	.....	.....	.....	.....	11	.....	.....	.....
	1910	10	70.0	.198	13.86	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	.....
5 plants	1910	165	77.9	.168	13.10	.....	.....	.....	10	105	1	10	39	.....	.....	.....
	1911	86	73.1	.158	11.60	.....	.....	.....	7	44	19	16	.....	.....	.....	.....
	1912	78	68.7	.173	11.84	.....	.....	.....	9	36	8	18	.....	.....	7	.....
Pittsburgh:																
5 plants	1907	498	81.4	.173	14.07	.....	.....	.....	63	40	326	.....	45	24	.....	.....
	1908	247	78.1	.165	12.94	.....	.....	.....	37	20	158	16	16	.....	.....	.....
	1909	454	80.0	.165	13.23	.....	.....	.....	83	53	266	8	44	.....	.....	.....
	1910	514	81.1	.168	13.69	.....	.....	.....	119	29	230	92	44	.....	.....	.....
8 plants	1910	688	81.2	.170	13.86	.....	.....	.....	119	29	344	148	48	.....	.....	.....
	1911	503	80.8	.177	14.33	.....	.....	.....	50	29	251	125	8	40	.....	.....
	1912	606	80.5	.181	14.59	.....	.....	.....	30	29	312	181	14	20	20	.....
G. L. and M. W.:																
6 plants	1907	246	82.2	.174	14.28	.....	.....	.....	.....	79	97	10	60	.....	.....	.....
	1908	146	80.7	.158	12.80	.....	.....	.....	.....	102	20	13	11	.....	.....	.....
	1909	161	83.5	.161	13.46	.....	.....	.....	18	80	20	31	12	.....	.....	.....
	1910	275	81.6	.170	13.92	.....	.....	.....	.....	44	156	63	12	.....	.....	.....
9 plants	1910	416	79.3	.166	13.23	.....	.....	.....	.....	146	195	63	12	.....	.....	.....
	1911	195	79.7	.169	13.44	.....	.....	.....	.....	63	110	11	11	.....	.....	.....
10 plants	1911	210	79.5	.168	13.39	.....	.....	.....	.....	63	125	11	11	.....	.....	.....
	1912	248	77.9	.169	13.17	.....	.....	.....	.....	53	167	18	10	.....	.....	.....
Southern:																
6 plants	1907	72	79.9	.133	10.50	.....	.....	27	21	8	16	.....	.....	.....	.....	.....
	1908	72	80.5	.122	9.72	3	20	31	.....	.....	13	.....	5	.....	.....	.....
	1909	111	81.5	.115	9.38	3	16	62	21	.....	.....	9	.....	.....	.....	.....
	1910	105	79.9	.136	10.83	.....	.....	35	45	8	11	.....	6	.....	.....	.....
10 plants	1910	176	78.6	.133	10.40	.....	.....	44	101	14	11	.....	6	.....	.....	.....
	1911	114	80.4	.129	10.29	.....	.....	55	28	23	.....	.....	8	.....	.....	.....
9 plants	1911	105	80.1	.131	10.42	.....	.....	46	28	23	.....	.....	8	.....	.....	.....
	1912	113	77.5	.136	10.53	.....	.....	49	14	37	.....	.....	13	.....	.....	.....

BOTTOM FILLERS.

Eastern:																
2 plants	1907	100	84.0	$0.141	$11.84	.....	.....	.....	68	32	.....	.....	.....	.....	.....	.....
	1908	60	84.0	.127	10.70	.....	.....	.....	60	.....	.....	.....	.....	.....	.....	.....
	1909	100	84.0	.128	10.72	.....	.....	.....	100	.....	.....	.....	.....	.....	.....	.....
	1910	100	84.0	.141	11.85	.....	.....	.....	68	32	.....	.....	.....	.....	.....	.....
4 plants	1910	398	84.0	.143	12.00	.....	.....	.....	112	286	.....	.....	.....	.....	.....	.....
	1911	212	84.0	.136	11.43	.....	.....	.....	90	122	.....	.....	.....	.....	.....	.....
	1912	166	84.0	.142	11.94	.....	.....	.....	44	122	.....	.....	.....	.....	.....	.....
Pittsburgh:																
1 plant	1907	28	84.0	.182	15.26	.....	.....	.....	.....	.....	12	16	.....	.....	.....	.....
	1908	28	84.0	.173	14.54	.....	.....	.....	.....	.....	12	16	.....	.....	.....	.....
	1909	30	84.0	.172	14.47	.....	.....	.....	.....	.....	14	16	.....	.....	.....	.....
	1910	30	84.0	.184	15.45	.....	.....	.....	.....	.....	14	16	.....	.....	.....	.....
2 plants	1910	46	84.0	.186	15.62	.....	.....	.....	.....	.....	14	32	.....	.....	.....	.....
	1911	42	84.0	.186	15.59	.....	.....	.....	.....	.....	14	28	.....	.....	.....	.....
	1912	44	84.0	.186	15.61	.....	.....	.....	.....	.....	14	30	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BOTTOM FILLERS—Concluded.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
G. L. and M. W.:																
2 plants	1907	93	84.0	$0.186	$15.66	.....	.....	.....	.....	.....	41	52	.....	.....	.....	.....
	1908	58	84.0	.167	14.05	.....	.....	.....	.....	34	.....	24	.....	.....	.....	.....
	1909	58	84.0	.177	14.89	.....	.....	.....	.....	.....	34	24	.....	.....	.....	.....
	1910	100	84.0	.181	15.20	.....	.....	.....	.....	.....	66	34	.....	.....	.....	.....
3 plants	1910	130	84.0	.182	15.28	.....	.....	.....	.....	.....	82	48	.....	.....	.....	.....
	1911	64	84.0	.182	15.31	.....	.....	.....	.....	8	20	36	.....	.....	.....	.....
4 plants	1911	90	84.0	.175	14.68	.....	.....	.....	.....	26	28	36	.....	.....	.....	.....
	1912	129	84.0	.173	14.51	.....	.....	.....	.....	43	40	46	.....	.....	.....	.....
Southern:																
2 plants	1907	72	84.0	.142	11.93	.....	.....	36	.....	.....	36	.....	.....	.....	.....	.....
	1908	48	84.0	.143	12.04	.....	.....	18	.....	.....	30	.....	.....	.....	.....	.....
	1909	94	84.0	.114	9.62	.....	.....	60	34	.....	.....	.....	.....	.....	.....	.....
	1910	37	84.0	.133	11.14	.....	.....	.....	19	18	.....	.....	.....	.....	.....	.....
5 plants	1910	98	84.0	.133	11.18	.....	.....	.....	64	34	.....	.....	.....	.....	.....	.....
	1911	73	84.0	.133	11.17	.....	.....	.....	47	26	.....	.....	.....	.....	.....	.....
	1912	129	77.6	.131	10.25	.....	.....	.....	85	44	.....	.....	.....	.....	.....	.....

TOP FILLERS.

Eastern:																
2 plants	1907	10	84.0	$0.155	$12.99	.....	.....	.....	.....	4	6	.....	.....	.....	.....	.....
	1908	8	84.0	.136	11.40	.....	.....	.....	8	.....	.....	.....	.....	.....	.....	.....
	1909	10	84.0	.136	11.42	.....	.....	.....	10	.....	.....	.....	.....	.....	.....	.....
	1910	10	84.0	.152	12.77	.....	.....	.....	.....	10	.....	.....	.....	.....	.....	.....
4 plants	1910	85	84.0	.158	13.29	.....	.....	.....	.....	14	71	.....	.....	.....	.....	.....
	1911	36	84.0	.153	12.87	.....	.....	.....	6	6	24	.....	.....	.....	.....	.....
	1912	22	84.0	.152	12.77	.....	.....	.....	.....	14	8	.....	.....	.....	.....	.....
Pittsburgh:																
1 plant	1907	8	84.0	.217	18.23	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....
	1908	6	84.0	.206	17.30	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
	1909	6	84.0	.206	17.30	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
	1910	6	84.0	.217	18.23	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
	1911	6	84.0	.217	18.23	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
	1912	6	84.0	.217	18.23	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
G. L. and M. W.:																
2 plants	1907	18	84.0	.212	17.84	.....	.....	.....	.....	.....	.....	.....	18	.....	.....	.....
	1908	12	84.0	.193	16.17	.....	.....	.....	.....	.....	6	.....	6	.....	.....	.....
	1909	12	84.0	.203	17.05	.....	.....	.....	.....	.....	.....	6	6	.....	.....	.....
	1910	18	84.0	.208	17.47	.....	.....	.....	.....	.....	.....	.....	18	.....	.....	.....
2 plants	1910	18	74.7	.240	17.36	.....	.....	.....	*	.....	.....	.....	12	.....	6	.....
	1911	12	70.0	.255	17.22	.....	.....	.....	.....	.....	.....	.....	6	.....	6	.....
3 plants	1911	20	75.6	.227	16.56	.....	.....	.....	.....	.....	.....	8	6	.....	6	.....
	1912	30	78.4	.218	16.62	.....	.....	.....	.....	.....	.....	12	12	.....	6	.....
Southern:																
3 plants	1907	30	84.0	.152	12.79	.....	.....	4	12	4	.....	10	.....	.....	.....	.....
	1908	18	84.0	.154	12.96	.....	.....	4	6	.....	.....	8	.....	.....	.....	.....
	1909	22	84.0	.138	11.61	.....	.....	6	6	10	.....	.....	.....	.....	.....	.....
	1910	14	84.0	.151	12.66	.....	.....	.....	4	6	4	.....	.....	.....	.....	.....
6 plants	1910	33	84.0	.150	12.58	.....	.....	.....	4	23	6	.....	.....	.....	.....	.....
	1911	30	84.0	.147	12.31	.....	.....	2	8	14	4	2	.....	.....	.....	.....
	1912	38	78.3	.149	11.73	.....	.....	2	10	16	6	4	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

LARRY MEN.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Eastern:																
2 plants	1910	4	84.0	$0.181	$15.20	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....
	1911	4	78.0	.181	14.11	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....
	1912	6	76.0	.185	14.06	.....	.....	.....	.....	.....	2	4	.....	.....	.....	.....
Pittsburgh:																
4 plants	1907	52	84.0	.190	15.95	.....	.....	.....	.....	.....	16	16	20	.....	.....	.....
	1908	26	84.0	.188	15.77	.....	.....	.....	.....	.....	8	10	8	.....	.....	.....
	1909	64	84.0	.172	14.44	.....	.....	.....	.....	24	.....	40	.....	.....	.....	.....
	1910	58	84.0	.201	16.85	.....	.....	.....	.....	.....	24	10	24	.....	.....	.....
8 plants	1910	122	84.0	.192	16.13	.....	.....	.....	.....	.....	64	26	32	.....	.....	.....
	1911	122	84.0	.187	15.70	.....	.....	.....	.....	.....	64	20	38	.....	.....	.....
	1912	142	76.9	.197	15.02	.....	.....	.....	.....	.....	40	28	74	.....	.....	.....
G. L. and M.W.:																
4 plants	1907	56	84.0	.229	19.25	.....	.....	.....	.....	.....	.....	.....	36	20	.....	.....
	1908	38	84.0	.216	18.15	.....	.....	.....	.....	.....	.....	2	36	.....	.....	.....
	1909	53	84.0	.217	18.20	.....	.....	.....	.....	.....	.....	22	31	.....	.....	.....
	1910	64	84.0	.217	18.26	.....	.....	.....	.....	.....	.....	.....	43	21	.....	.....
6 plants	1910	72	84.0	.217	18.24	.....	.....	.....	.....	.....	.....	2	49	21	.....	.....
	1911	55	80.3	.223	17.78	.....	.....	.....	.....	.....	.....	.....	38	17	.....	.....
	1912	65	78.6	.221	17.29	.....	.....	.....	.....	.....	.....	.....	44	21	.....	.....
Southern:																
3 plants	1907	24	84.0	.129	10.79	.....	.....	.....	20	4	.....	.....	.....	.....	.....	.....
	1908	22	84.0	.125	10.52	.....	.....	6	16	.....	.....	.....	.....	.....	.....	.....
	1909	18	84.0	.147	12.34	.....	.....	6	4	2	.....	6	.....	.....	.....	.....
	1910	27	84.0	.169	14.17	.....	.....	2	2	4	.....	19	.....	.....	.....	.....
5 plants	1910	33	84.0	.166	13.97	.....	.....	2	4	4	4	19	.....	.....	.....	.....
	1911	22	84.0	.160	13.43	.....	.....	2	2	6	4	8	.....	.....	.....	.....
	1912	24	84.0	.162	13.64	.....	.....	.....	4	6	4	10	.....	.....	.....	.....

LARRY MEN'S HELPERS.

Eastern:																
1 plant	1910	2	84.0	$0.158	$13.27	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
	1911	2	72.0	.158	11.38	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
	1912	4	72.0	.158	11.38	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh:																
4 plants	1907	48	84.0	.165	13.87	.....	.....	.....	.....	16	32	.....	.....	.....	.....	.....
	1908	24	84.0	.164	13.77	.....	.....	.....	.....	8	16	.....	.....	.....	.....	.....
	1909	60	84.0	.150	12.58	.....	.....	.....	24	20	16	.....	.....	.....	.....	.....
	1910	56	84.0	.167	14.06	.....	.....	.....	.....	24	12	20	.....	.....	.....	.....
8 plants	1910	167	84.0	.172	14.43	.....	.....	.....	.....	24	123	20	.....	.....	.....	.....
	1911	216	84.0	.172	14.47	.....	.....	.....	.....	24	172	20	.....	.....	.....	.....
	1912	248	79.9	.178	14.13	.....	.....	.....	.....	.....	192	20	36	.....	.....	.....
G. L. and M.W.:																
4 plants	1907	57	84.0	.163	13.66	.....	.....	.....	.....	18	39	.....	.....	.....	.....	.....
	1908	45	84.0	.156	13.13	.....	.....	.....	.....	28	17	.....	.....	.....	.....	.....
	1909	63	84.0	.156	13.11	.....	.....	.....	12	21	30	.....	.....	.....	.....	.....
	1910	70	84.0	.165	13.85	.....	.....	.....	.....	15	55	.....	.....	.....	.....	.....
5 plants	1910	76	84.0	.164	13.81	.....	.....	.....	.....	21	55	.....	.....	.....	.....	.....
	1911	54	76.9	.167	12.79	.....	.....	.....	.....	12	42	.....	.....	.....	.....	.....
	1912	67	77.0	.168	12.91	.....	.....	.....	.....	4	63	.....	.....	.....	.....	.....
Southern:																
2 plants	1907	10	84.0	.108	9.09	.....	.....	8	2	.....	.....	.....	.....	.....	.....	.....
	1908	10	84.0	.107	8.95	.....	.....	10	.....	.....	.....	.....	.....	.....	.....	.....
	1909	12	84.0	.110	9.21	.....	.....	10	2	.....	.....	.....	.....	.....	.....	.....
	1910	8	84.0	.114	9.58	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	.....
5 plants	1910	33	84.0	.135	11.31	.....	.....	12	2	19	.....	.....	.....	.....	.....	.....
	1911	22	84.0	.133	11.14	.....	.....	2	12	8	.....	.....	.....	.....	.....	.....
	1912	24	84.0	.135	11.32	.....	.....	.....	14	10	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

SKIP OPERATORS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Eastern:																
2 plants	1910	4	84.0	$0.167	$13.90	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....
	1911	4	78.0	.173	13.53	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
	1912	6	76.0	.171	13.03	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh:																
5 plants	1907	54	84.0	.192	16.14	.....	.....	.....	.....	.....	22	.....	32	.....	.....	.....
	1908	38	84.0	.191	16.08	.....	.....	.....	.....	.....	16	.....	22	.....	.....	.....
	1909	62	84.0	.184	15.50	.....	.....	.....	.....	.....	22	24	16	.....	.....	.....
	1910	56	84.0	.205	17.23	.....	.....	.....	.....	.....	20	.....	36	.....	.....	.....
8 plants	1910	70	84.0	.207	17.36	.....	.....	.....	.....	.....	20	6	40	4	.....	.....
	1911	76	84.0	.205	17.20	.....	.....	.....	.....	.....	20	2	46	8	.....	.....
	1912	76	77.4	.217	16.53	.....	.....	.....	.....	.....	20	6	24	26	.....	.....
G. L. and M. W.:																
3 plants	1907	20	84.0	.219	18.35	.....	.....	.....	.....	.....	.....	4	14	2	.....	.....
	1908	14	84.0	.204	17.10	.....	.....	.....	.....	.....	.....	6	6	2	.....	.....
	1909	18	84.0	.202	16.94	.....	.....	.....	.....	.....	.....	16	.....	2	.....	.....
	1910	22	84.0	.203	17.07	.....	.....	.....	.....	.....	.....	8	12	2	.....	.....
5 plants	1910	30	84.0	.204	17.15	.....	.....	.....	.....	.....	.....	8	20	2	.....	.....
	1911	26	84.0	.208	17.50	.....	.....	.....	.....	.....	.....	.....	24	2	.....	.....
	1912	34	81.2	.214	17.36	.....	.....	.....	.....	.....	.....	.....	30	4	.....	.....
Southern:																
3 plants	1907	12	84.0	.152	12.78	.....	.....	.....	.....	10	2	.....	.....	.....	.....	.....
	1908	12	84.0	.140	11.72	.....	.....	.....	6	6	.....	.....	.....	.....	.....	.....
	1909	14	84.0	.155	13.02	.....	.....	.....	.....	8	6	.....	.....	.....	.....	.....
	1910	19	84.0	.161	13.50	.....	.....	.....	.....	8	11	.....	.....	.....	.....	.....
4 plants	1910	21	84.0	.161	13.55	.....	.....	.....	.....	8	13	.....	.....	.....	.....	.....
	1911	18	84.0	.160	13.47	.....	.....	.....	.....	8	10	.....	.....	.....	.....	.....
	1912	20	84.0	.161	13.52	.....	.....	.....	.....	8	12	.....	.....	.....	.....	.....

BLOWERS.

Eastern:																
2 plants	1907	4	84.0	$0.219	$18.35	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
	1908	4	84.0	.208	17.47	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
	1909	4	84.0	.217	18.19	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
	1910	4	84.0	.232	19.45	.....	.....	.....	.....	.....	.....	.....	2	2	.....	.....
6 plants	1910	17	79.8	.225	18.09	.....	.....	.....	.....	1	.....	.....	14	2	.....	.....
	1911	16	81.8	.243	19.62	.....	.....	.....	.....	.....	.....	.....	13	1	1	1
	1912	16	81.8	.252	20.41	.....	.....	.....	.....	.....	.....	.....	11	3	1	1
Pittsburgh:																
5 plants	1907	26	84.0	.313	26.26	.....	.....	.....	.....	.....	.....	.....	2	11	11	2
	1908	23	84.0	.298	25.07	.....	.....	.....	.....	.....	.....	.....	3	12	8	.....
	1909	31	84.0	.291	24.41	.....	.....	.....	.....	.....	.....	.....	4	17	10	.....
	1910	33	84.0	.326	27.40	.....	.....	.....	.....	.....	.....	.....	1	15	15	2
8 plants	1910	45	84.0	.321	26.94	.....	.....	.....	.....	.....	.....	.....	1	23	19	2
	1911	43	84.0	.316	26.58	.....	.....	.....	.....	.....	.....	.....	.....	23	18	2
	1912	48	78.8	.329	25.54	.....	.....	.....	.....	.....	.....	.....	.....	23	17	8
G. L. and M. W.:																
5 plants	1907	29	84.0	.322	27.08	.....	.....	.....	.....	.....	.....	.....	.....	.....	26	3
	1908	21	84.0	.316	26.53	.....	.....	.....	.....	.....	.....	.....	.....	3	18	.....
	1909	25	84.0	.337	28.33	.....	.....	.....	.....	.....	.....	.....	.....	3	22	.....
	1910	32	84.0	.318	26.69	.....	.....	.....	.....	.....	.....	.....	.....	10	22	.....
8 plants	1910	40	84.0	.320	26.87	.....	.....	.....	.....	.....	.....	.....	.....	10	29	1
	1911	34	81.2	.358	28.79	.....	.....	.....	.....	.....	.....	.....	.....	2	23	9
9 plants	1911	36	81.3	.353	28.47	.....	.....	.....	.....	.....	.....	.....	.....	4	23	9
	1912	38	80.2	.353	28.13	.....	.....	.....	.....	.....	.....	.....	.....	4	25	9

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BLOWERS—Concluded.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Southern:																
6 plants	1907	19	84.0	$0.264	$22.19	.....	.....	.....	.....	.....	.....	.....	4	11	4	.....
	1908	20	84.0	.245	20.55	.....	.....	.....	.....	.....	.....	.....	5	15	.....	.....
	1909	26	84.0	.243	20.38	.....	.....	.....	.....	.....	.....	.....	12	13	1	.....
	1910	21	84.0	.275	23.14	.....	.....	.....	.....	.....	.....	.....	8	6	7	.....
10 plants	1910	29	84.0	.266	22.30	.....	.....	.....	.....	.....	.....	.....	12	10	7	.....
	1911	28	84.0	.263	22.09	.....	.....	.....	.....	.....	2	.....	11	7	8	.....
	1912	30	81.6	.268	21.89	.....	.....	.....	.....	.....	2	.....	10	8	10	.....

BLOWING ENGINEERS.

Eastern:																
2 plants	1907	6	84.0	$0.179	$15.06	.....	.....	.....	.....	.....	4	2	.....	.....	.....	.....
	1908	4	84.0	.167	14.03	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
	1909	6	84.0	.161	13.55	.....	.....	.....	.....	2	4	.....	.....	.....	.....	.....
	1910	6	84.0	.176	14.81	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
6 plants	1910	19	82.3	.197	16.59	.....	.....	.....	.....	.....	12	2	.....	5	.....	.....
	1911	14	82.3	.187	15.42	.....	.....	.....	.....	.....	10	2	.....	2	.....	.....
	1912	16	82.5	.192	15.85	.....	.....	.....	.....	.....	8	6	.....	2	.....	.....
Pittsburgh:																
6 plants	1907	32	84.0	.258	21.64	.....	.....	.....	.....	.....	.....	.....	2	30	.....	.....
	1908	30	84.0	.257	21.61	.....	.....	.....	.....	.....	.....	.....	2	28	.....	.....
	1909	36	84.0	.249	20.92	.....	.....	.....	.....	.....	.....	.....	12	24	.....	.....
	1910	34	84.0	.267	22.43	.....	.....	.....	.....	.....	.....	.....	2	32	.....	.....
9 plants	1910	46	84.0	.269	22.58	.....	.....	.....	.....	.....	.....	.....	2	44	.....	.....
	1911	44	84.0	.268	22.54	.....	.....	.....	.....	.....	.....	.....	2	42	.....	.....
	1912	46	80.3	.278	22.13	.....	.....	.....	.....	.....	.....	.....	2	38	6	.....
G. L. and M. W.:																
6 plants	1907	42	84.0	.264	22.15	.....	.....	.....	.....	.....	.....	.....	4	35	3	.....
	1908	33	84.0	.251	21.10	.....	.....	.....	.....	.....	.....	.....	20	13	.....	.....
	1909	41	84.0	.247	20.78	.....	.....	.....	.....	.....	.....	.....	26	15	.....	.....
	1910	56	84.0	.254	21.34	.....	.....	.....	.....	.....	.....	.....	34	14	8	.....
9 plants	1910	64	84.0	.257	21.55	.....	.....	.....	.....	.....	.....	.....	36	20	8	.....
	1911	53	82.0	.260	21.21	.....	.....	.....	.....	.....	.....	.....	28	17	8	.....
10 plants	1911	55	81.6	.259	21.05	.....	.....	.....	.....	.....	.....	.....	30	17	8	.....
	1912	54	80.0	.267	21.25	.....	.....	.....	.....	.....	.....	.....	22	22	10	.....
Southern:																
6 plants	1907	20	84.0	.189	15.83	.....	.....	.....	.....	2	2	10	6	.....	.....	.....
	1908	18	84.0	.185	15.54	.....	.....	.....	.....	4	.....	6	8	.....	.....	.....
	1909	20	84.0	.183	15.36	.....	.....	.....	.....	2	2	12	4	.....	.....	.....
	1910	16	84.0	.193	16.20	.....	.....	.....	.....	2	.....	8	6	.....	.....	.....
10 plants	1910	24	84.0	.192	16.15	.....	.....	.....	.....	2	2	13	7	.....	.....	.....
	1911	24	84.0	.196	16.48	.....	.....	.....	.....	2	.....	12	10	.....	.....	.....
	1912	26	81.2	.195	15.83	.....	.....	.....	.....	2	2	14	7	1	.....	.....

BLOWING ENGINEERS' ASSISTANTS.

Eastern:																
1 plant	1907	2	84.0	$0.171	$14.36	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1908	2	84.0	.154	12.94	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
	1909	2	84.0	.138	11.59	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
	1910	2	84.0	.162	13.61	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
3 plants	1910	8	84.0	.180	15.12	.....	.....	.....	.....	2	2	.....	4	.....	.....	.....
	1911	6	80.0	.174	13.96	.....	.....	.....	.....	2	2	.....	2	.....	.....	.....
	1912	6	80.0	.177	14.17	.....	.....	.....	.....	.....	4	.....	2	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BLOWING ENGINEERS' ASSISTANTS—Concluded.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Pittsburgh:																
5 plants	1907	43	84.0	$0.205	$17.22	.....	.....	.....	.....	.....	.....	12	31	.....	.....	.....
	1908	29	84.0	.208	17.44	.....	.....	.....	.....	.....	.....	6	23	.....	.....	.....
	1909	46	84.0	.197	16.53	.....	.....	.....	.....	.....	4	20	22	.....	.....	.....
	1910	38	84.0	.214	17.98	.....	.....	.....	.....	.....	.....	4	34	.....	.....	.....
8 plants	1910	54	84.0	.214	18.01	.....	.....	.....	.....	.....	.....	4	50	.....	.....	.....
	1911	58	84.0	.215	18.03	.....	.....	.....	.....	.....	.....	4	54	.....	.....	.....
	1912	69	80.3	.222	17.73	.....	.....	.....	.....	.....	.....	.....	66	3	.....	.....
G. L. and M. W.:																
3 plants	1907	16	84.0	.227	19.09	.....	.....	.....	.....	.....	.....	4	2	10	.....	.....
	1908	14	84.0	.221	18.58	.....	.....	.....	.....	.....	.....	6	.....	8	.....	.....
	1909	16	84.0	.225	18.88	.....	.....	.....	.....	.....	.....	6	.....	10	.....	.....
	1910	20	84.0	.223	18.73	.....	.....	.....	.....	.....	.....	8	2	10	.....	.....
	1911	12	80.0	.218	17.25	.....	.....	.....	.....	.....	.....	6	2	4	.....	.....
	1912	15	80.0	.221	17.50	.....	.....	.....	.....	.....	.....	6	4	5	.....	.....
Southern:																
2 plants	1907	6	84.0	.131	10.98	.....	.....	.....	4	2	.....	.....	.....	.....	.....	.....
	1908	6	84.0	.121	10.16	.....	.....	2	4	.....	.....	.....	.....	.....	.....	.....
	1909	10	84.0	.125	10.47	.....	.....	6	.....	4	.....	.....	.....	.....	.....	.....
	1910	6	84.0	.136	11.45	.....	.....	.....	2	4	.....	.....	.....	.....	.....	.....
4 plants	1910	12	84.0	.164	13.76	.....	.....	.....	2	4	1	5	.....	.....	.....	.....
	1911	15	84.0	.172	14.41	.....	.....	.....	2	4	.....	9	.....	.....	.....	.....
	1912	18	81.3	.169	13.85	.....	.....	.....	4	4	.....	10	.....	.....	.....	.....

STOVE TENDERS.

Eastern:																
2 plants	1907	6	84.0	$0.160	$13.41	.....	.....	.....	.....	4	2	.....	.....	.....	.....	.....
	1908	4	84.0	.157	13.15	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....
	1909	6	84.0	.147	12.38	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	.....
	1910	6	84.0	.160	13.44	.....	.....	.....	.....	4	2	.....	.....	.....	.....	.....
6 plants	1910	24	84.0	.163	13.72	.....	.....	.....	.....	10	14	.....	.....	.....	.....	.....
	1911	20	81.6	.161	13.15	.....	.....	.....	.....	8	12	.....	.....	.....	.....	.....
	1912	20	81.6	.166	13.56	.....	.....	.....	.....	6	14	.....	.....	.....	.....	.....
Pittsburgh:																
6 plants	1907	60	84.0	.190	15.99	.....	.....	.....	.....	.....	1	47	12	.....	.....	.....
	1908	40	84.0	.191	16.04	.....	.....	.....	.....	.....	.....	32	8	.....	.....	.....
	1909	64	84.0	.185	15.50	.....	.....	.....	.....	.....	12	50	2	.....	.....	.....
	1910	58	84.0	.204	17.12	.....	.....	.....	.....	.....	.....	24	34	.....	.....	.....
9 plants	1910	76	84.0	.203	17.09	.....	.....	.....	.....	.....	.....	28	48	.....	.....	.....
	1911	82	84.0	.200	16.77	.....	.....	.....	.....	.....	.....	32	50	.....	.....	.....
	1912	92	78.5	.207	16.15	.....	.....	.....	.....	.....	.....	20	72	.....	.....	.....
G. L. and M. W.:																
6 plants	1907	50	84.0	.216	18.17	.....	.....	.....	.....	.....	.....	24	14	12	.....	.....
	1908	34	84.0	.204	17.16	.....	.....	.....	.....	.....	2	2	30	.....	.....	.....
	1909	45	84.0	.206	17.27	.....	.....	.....	.....	.....	2	2	41	.....	.....	.....
	1910	54	84.0	.211	17.76	.....	.....	.....	.....	.....	.....	4	50	.....	.....	.....
9 plants	1910	64	84.0	.210	17.61	.....	.....	.....	.....	.....	.....	8	56	.....	.....	.....
	1911	46	79.8	.209	16.62	.....	.....	.....	.....	.....	.....	8	38	.....	.....	.....
10 plants	1911	48	80.0	.207	16.54	.....	.....	.....	.....	.....	2	8	38	.....	.....	.....
	1912	64	78.8	.209	16.41	.....	.....	.....	.....	.....	2	10	52	.....	.....	.....
Southern:																
6 plants	1907	24	84.0	.152	12.76	.....	.....	.....	4	12	6	2	.....	.....	.....	.....
	1908	18	84.0	.141	11.83	.....	.....	2	8	6	.....	2	.....	.....	.....	.....
	1909	25	84.0	.137	11.49	.....	.....	2	12	11	.....	.....	.....	.....	.....	.....
	1910	28	84.0	.163	13.72	.....	.....	.....	4	8	16	.....	.....	.....	.....	.....
10 plants	1910	36	84.0	.161	13.53	.....	.....	.....	6	12	18	.....	.....	.....	.....	.....
	1911	30	84.0	.155	13.00	.....	.....	.....	6	14	10	.....	.....	.....	.....	.....
	1912	36	82.0	.157	12.86	.....	.....	.....	6	16	14	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

KEEPERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Eastern:																
2 plants	1907	6	84.0	$0.173	$14.50	.....	.....	.....	.....	.....	4	2	.....	.....	.....	.....
	1908	4	84.0	.161	13.48	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....
	1909	6	84.0	.150	12.60	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	.....
	1910	6	84.0	.166	13.92	.....	.....	.....	.....	4	.....	2	.....	.....	.....	.....
6 plants	1910	29	84.0	.177	14.87	.....	.....	.....	.....	8	.....	21	.....	.....	.....	.....
	1911	20	81.6	.174	14.17	.....	.....	.....	.....	6	.....	14	.....	.....	.....	.....
	1912	20	81.6	.179	14.54	.....	.....	.....	.....	.....	8	11	1	.....	.....	.....
Pittsburgh:																
6 plants	1907	60	84.0	.231	19.40	.....	.....	.....	.....	.....	.....	.....	60	.....	.....	.....
	1908	38	84.0	.230	19.29	.....	.....	.....	.....	.....	.....	.....	38	.....	.....	.....
	1909	64	84.0	.219	18.41	.....	.....	.....	.....	.....	.....	.....	64	.....	.....	.....
	1910	58	84.0	.235	19.71	.....	.....	.....	.....	.....	.....	.....	58	.....	.....	.....
9 plants	1910	76	84.0	.236	19.85	.....	.....	.....	.....	.....	.....	.....	76	.....	.....	.....
	1911	82	84.0	.236	19.87	.....	.....	.....	.....	.....	.....	.....	82	.....	.....	.....
	1912	92	78.5	.248	19.25	.....	.....	.....	.....	.....	.....	.....	74	18	.....	.....
G.L. and M.W.:																
6 plants	1907	52	84.0	.235	19.74	.....	.....	.....	.....	.....	.....	.....	28	24	.....	.....
	1908	34	84.0	.224	18.85	.....	.....	.....	.....	.....	.....	.....	30	4	.....	.....
	1909	45	84.0	.225	18.94	.....	.....	.....	.....	.....	.....	.....	41	4	.....	.....
	1910	55	84.0	.229	19.22	.....	.....	.....	.....	.....	.....	.....	49	6	.....	.....
9 plants	1910	65	84.0	.229	19.24	.....	.....	.....	.....	.....	.....	.....	59	6	.....	.....
	1911	50	80.2	.232	18.58	.....	.....	.....	.....	.....	.....	.....	46	4	.....	.....
10 plants	1911	52	80.3	.231	18.56	.....	.....	.....	.....	.....	.....	.....	48	4	.....	.....
	1912	68	79.1	.231	18.24	.....	.....	.....	.....	.....	.....	.....	62	6	.....	.....
Southern:																
6 plants	1907	28	84.0	.170	14.30	.....	.....	.....	.....	18	4	.....	6	.....	.....	.....
	1908	20	84.0	.161	13.48	.....	.....	.....	6	6	4	.....	4	.....	.....	.....
	1909	26	84.0	.150	12.59	.....	.....	.....	10	8	4	4	.....	.....	.....	.....
	1910	23	84.0	.173	14.50	.....	.....	.....	.....	7	2	14	.....	.....	.....	.....
10 plants	1910	31	84.0	.171	14.34	.....	.....	.....	.....	11	4	16	.....	.....	.....	.....
	1911	30	84.0	.169	14.16	.....	.....	.....	.....	12	4	14	.....	.....	.....	.....
	1912	36	82.0	.170	13.94	.....	.....	.....	.....	14	4	18	.....	.....	.....	.....

KEEPERS' HELPERS.

Eastern:																
2 plants	1907	52	84.0	$0.141	$11.85	.....	.....	.....	34	16	2	.....	.....	.....	.....	.....
	1908	32	84.0	.131	10.97	.....	.....	.....	30	2	.....	.....	.....	.....	.....	.....
	1909	54	84.0	.128	10.75	.....	.....	.....	52	2	.....	.....	.....	.....	.....	.....
	1910	56	84.0	.142	11.89	.....	.....	.....	36	18	2	.....	.....	.....	.....	.....
6 plants	1910	162	84.0	.146	12.24	.....	.....	.....	64	76	22	.....	.....	.....	.....	.....
	1911	120	82.8	.141	11.64	.....	.....	.....	52	52	16	.....	.....	.....	.....	.....
	1912	120	82.8	.148	12.21	.....	.....	.....	24	80	16	.....	.....	.....	.....	.....
Pittsburgh:																
6 plants	1907	202	84.0	.173	14.54	.....	.....	.....	.....	12	134	44	12	.....	.....	.....
	1908	135	84.0	.173	14.51	.....	.....	.....	.....	8	89	30	8	.....	.....	.....
	1909	218	84.0	.167	14.03	.....	.....	.....	.....	36	146	36	.....	.....	.....	.....
	1910	194	84.0	.182	15.29	.....	.....	.....	.....	.....	116	66	12	.....	.....	.....
9 plants	1910	264	84.0	.182	15.31	.....	.....	.....	.....	.....	156	88	20	.....	.....	.....
	1911	268	84.0	.183	15.40	.....	.....	.....	.....	.....	154	90	24	.....	.....	.....
	1912	286	80.5	.189	15.12	.....	.....	.....	.....	.....	144	82	60	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

KEEPERS' HELPERS—Concluded.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
G.L. and M.W.:																
6 plants	1907	222	84.0	$0.187	$15.73	.....	.....	.....	.....	.....	66	72	84	.....	.....	.....
	1908	146	84.0	.178	14.98	.....	.....	.....	.....	6	62	58	20	.....	.....	.....
	1909	181	84.0	.180	15.09	.....	.....	.....	.....	12	65	84	20	.....	.....	.....
	1910	234	84.0	.183	15.41	.....	.....	.....	.....	.....	70	126	38	.....	.....	.....
9 plants	1910	299	84.0	.185	15.53	.....	.....	.....	.....	.....	91	156	52	.....	.....	.....
	1911	204	81.4	.187	15.19	.....	.....	.....	.....	2	26	144	32	.....	.....	.....
10 plants	1911	212	81.5	.186	15.19	.....	.....	.....	.....	2	28	150	32	.....	.....	.....
	1912	270	80.3	.186	14.91	.....	.....	.....	.....	2	32	197	39	.....	.....	.....
Southern:																
6 plants	1907	140	84.0	.129	10.81	.....	.....	48	60	18	14	.....	.....	.....	.....	.....
	1908	96	84.0	.122	10.27	.....	.....	48	38	.....	10	.....	.....	.....	.....	.....
	1909	143	84.0	.116	9.78	.....	.....	90	49	4	.....	.....	.....	.....	.....	.....
	1910	124	84.0	.135	11.37	.....	.....	38	21	65	.....	.....	.....	.....	.....	.....
10 plants	1910	152	84.0	.135	11.35	.....	.....	38	41	73	.....	.....	.....	.....	.....	.....
	1911	142	84.0	.128	10.75	.....	.....	60	40	42	.....	.....	.....	.....	.....	.....
	1912	170	81.9	.130	10.64	.....	.....	62	52	56	.....	.....	.....	.....	.....	.....

IRON HANDLERS AND LOADERS.

Eastern:																
2 plants	1907	27	84.0	$0.194	$16.27	.....	.....	.....	.....	.....	16	.....	11	.....	.....	.....
	1908	27	80.9	.188	15.12	.....	.....	.....	.....	16	.....	.....	6	5	.....	.....
	1909	37	80.6	.189	15.07	.....	.....	.....	.....	16	.....	.....	21	.....	.....	.....
	1910	35	80.4	.233	18.51	.....	.....	.....	.....	.....	16	.....	.....	19	.....	.....
4 plants	1910	64	79.6	.225	17.86	.....	.....	.....	.....	.....	26	.....	11	27	.....	.....
	1911	57	79.6	.213	16.50	.....	.....	.....	.....	.....	28	12	.....	4	13	.....
	1912	62	79.3	.213	16.58	.....	.....	.....	.....	.....	26	12	.....	18	6	.....
Pittsburgh:																
1 plant	1907	12	77.0	.418	32.19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
	1908	14	77.0	.357	27.49	.....	.....	.....	.....	.....	.....	.....	.....	.....	14	.....
	1909	18	77.0	.250	19.25	.....	.....	.....	.....	.....	.....	.....	.....	18	.....	.....
	1910	18	77.0	.246	18.94	.....	.....	.....	.....	.....	.....	.....	18	.....	.....	.....
2 plants	1910	28	79.5	.221	17.43	.....	.....	.....	.....	.....	10	.....	18	.....	.....	.....
	1911	22	73.9	.263	19.53	.....	.....	.....	.....	.....	.....	.....	4	18	.....	.....
	1912	32	77.1	.231	17.69	.....	.....	.....	.....	.....	10	.....	12	.....	10	.....
G.L. and M.W.:																
1 plant	1907	18	79.3	.192	15.20	.....	.....	.....	.....	.....	.....	12	6	.....	.....	.....
	1908	16	81.4	.174	14.18	.....	.....	.....	.....	6	3	.....	7	.....	.....	.....
	1909	17	81.5	.195	15.91	.....	.....	.....	.....	.....	6	3	8	.....	.....	.....
	1910	18	79.3	.180	14.23	.....	.....	.....	.....	.....	12	6	.....	.....	.....	.....
3 plants	1910	68	72.5	.197	14.23	.....	.....	.....	.....	.....	44	16	.....	.....	8	.....
	1911	62	71.4	.199	14.19	.....	.....	.....	12	.....	11	.....	31	.....	8	.....
4 plants	1911	70	72.8	.199	14.45	.....	.....	.....	12	.....	11	8	31	.....	8	.....
	1912	69	74.5	.214	15.84	.....	.....	.....	.....	12	11	28	6	.....	12	.....
Southern:																
5 plants	1907	146	70.1	.174	12.22	.....	.....	.....	10	26	70	6	34	.....	.....	.....
	1908	106	69.3	.171	11.83	.....	.....	3	23	5	42	6	27	.....	.....	.....
	1909	170	70.9	.165	11.68	.....	.....	.....	28	31	80	10	21	.....	.....	.....
	1910	106	68.8	.176	12.04	.....	.....	.....	17	19	40	6	15	9	.....	.....
9 plants	1910	145	71.6	.173	12.29	.....	.....	.....	24	32	49	6	25	9	.....	.....
	1911	159	70.5	.178	12.47	.....	.....	.....	9	33	59	18	40	.....	.....	.....
	1912	196	68.4	.176	12.00	.....	.....	.....	11	47	68	20	50	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

PIG-MACHINE MEN.

District and number of of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
Eastern:																
1 plant	1910	16	84.0	$0.145	$12.20	.....	.....	.....	.....	16	.....	.....	.....	.....	.....	.....
	1911	15	72.0	.145	10.45	.....	.....	.....	.....	15	.....	.....	.....	.....	.....	.....
	1912	17	72.0	.157	11.27	.....	.....	.....	.....	9	8	.....	.....	.....	.....	.....
Pittsburgh:																
4 plants	1907	124	84.0	.165	13.88	.....	.....	.....	20	6	92	.....	6	.....	.....	.....
	1908	98	83.8	.165	13.84	.....	.....	.....	4	2	90	.....	2	.....	.....	.....
	1909	103	84.0	.160	13.42	.....	.....	.....	15	4	80	.....	4	.....	.....	.....
	1910	81	84.0	.177	14.88	.....	.....	.....	.....	5	54	20	2	.....	.....	.....
7 plants	1910	136	84.0	.175	14.72	.....	.....	.....	.....	5	105	24	2	.....	.....	.....
	1911	150	84.0	.171	14.39	.....	.....	.....	20	6	94	24	6	.....	.....	.....
	1912	153	84.0	.173	14.52	.....	.....	.....	10	2	113	26	2	.....	.....	.....
G.L. and M.W.:																
4 plants	1907	52	84.0	.179	15.07	.....	.....	.....	.....	12	18	6	14	2	.....	.....
	1908	45	84.0	.170	14.31	.....	.....	.....	.....	11	18	12	4	.....	.....	.....
	1909	44	83.5	.170	14.26	.....	.....	.....	3	7	18	14	2	.....	.....	.....
	1910	71	83.5	.173	14.49	.....	.....	.....	.....	5	38	24	4	.....	.....	.....
6 plants	1910	105	83.6	.172	14.41	.....	.....	.....	.....	6	61	34	4	.....	.....	.....
	1911	73	80.7	.175	14.17	.....	.....	.....	.....	1	44	22	6	.....	.....	.....
7 plants	1911	81	81.0	.178	14.42	.....	.....	.....	.....	1	44	28	8	.....	.....	.....
	1912	85	79.5	.176	14.00	.....	.....	.....	.....	.....	53	24	8	.....	.....	.....
Southern:																
1 plant	1907	17	84.0	.142	11.94	.....	.....	.....	5	12	.....	.....	.....	.....	.....	.....
	1908	14	84.0	.126	10.60	.....	.....	.....	14	.....	.....	.....	.....	.....	.....	.....
	1909	5	84.0	.128	10.77	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....
	1910	30	84.0	.144	12.09	.....	.....	.....	13	17	.....	.....	.....	.....	.....	.....
2 plants	1910	34	84.0	.142	11.91	.....	.....	.....	17	17	.....	.....	.....	.....	.....	.....
	1911	21	84.0	.141	11.87	.....	.....	.....	9	12	.....	.....	.....	.....	.....	.....
	1912	20	84.0	.142	11.89	.....	.....	.....	8	12	.....	.....	.....	.....	.....	.....

CINDER MEN.

Eastern:																
2 plants	1907	6	84.0	$0.147	$12.35	.....	.....	.....	2	4	.....	.....	.....	.....	.....	.....
	1908	5	82.6	.126	10.48	.....	.....	1	4	.....	.....	.....	.....	.....	.....	.....
	1909	5	84.0	.131	11.04	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....
	1910	7	84.0	.151	12.68	.....	.....	.....	1	6	.....	.....	.....	.....	.....	.....
5 plants	1910	40	83.3	.147	12.26	.....	.....	.....	3	37	.....	.....	.....	.....	.....	.....
	1911	32	82.1	.153	12.55	.....	.....	.....	1	20	10	.....	1	.....	.....	.....
	1912	26	81.6	.147	11.98	.....	.....	.....	1	25	.....	.....	.....	.....	.....	.....
Pittsburgh:																
6 plants	1907	110	84.0	.189	15.85	.....	.....	.....	.....	28	38	2	42	.....	.....	.....
	1908	99	82.9	.166	13.81	.....	.....	.....	24	14	37	.....	24	.....	.....	.....
	1909	200	82.0	.149	12.28	.....	.....	.....	81	24	77	.....	18	.....	.....	.....
	1910	134	81.7	.167	13.75	.....	.....	.....	21	.....	71	42	.....	.....	.....	.....
8 plants	1910	169	81.6	.168	13.79	.....	.....	.....	21	.....	106	42	.....	.....	.....	.....
	1911	120	82.3	.158	13.00	.....	.....	.....	46	.....	61	13	.....	.....	.....	.....
7 plants	1911	112	82.2	.158	13.00	.....	.....	.....	46	.....	53	13	.....	.....	.....	.....
	1912	172	68.8	.176	12.06	.....	.....	.....	.....	28	64	50	30	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Concluded.

BLAST FURNACES—Continued.

CINDER MEN—Concluded.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.
G.L. and M.W.:																
6 plants	1907	110	83.5	$0.166	$13.87	.....	.....	.....	.....	21	67	22	.....	.....	.....	.....
	1908	102	82.9	.156	12.95	.....	.....	.....	.....	65	37	.....	.....	.....	.....	.....
	1909	127	82.4	.164	13.50	.....	.....	.....	9	39	76	.....	3	.....	.....	.....
	1910	185	83.8	.171	14.35	.....	.....	.....	.....	25	152	.....	.....	8	.....	.....
9 plants	1910	226	83.8	.169	14.19	.....	.....	.....	.....	45	173	.....	.....	8	.....	.....
	1911	140	80.0	.168	13.43	.....	.....	.....	.....	36	83	20	.....	1	.....	.....
10 plants	1911	142	80.1	.168	13.42	.....	.....	.....	.....	38	83	20	.....	1	.....	.....
	1912	137	79.5	.166	13.13	.....	.....	.....	.....	40	84	12	1	.....	.....	.....
Southern:																
6 plants	1907	36	82.4	.150	12.34	.....	.....	2	10	11	13	.....	.....	.....	.....	.....
	1908	39	81.5	.130	10.63	2	2	16	6	3	10	.....	.....	.....	.....	.....
	1909	48	82.3	.121	9.61	2	.....	24	10	12	.....	.....	.....	.....	.....	.....
	1910	31	82.2	.131	10.72	2	.....	9	9	10	1	.....	.....	.....	.....	.....
10 plants	1910	47	82.8	.130	10.77	2	.....	11	19	14	1	.....	.....	.....	.....	.....
	1911	47	82.2	.132	10.85	2	.....	6	22	16	1	.....	.....	.....	.....	.....
	1912	62	80.5	.132	10.63	2	.....	6	34	20	.....	.....	.....	.....	.....	.....
LABORERS.																
Eastern:																
2 plants	1907	93	66.9	$0.135	$9.03	.....	.....	4	39	50	.....	.....	.....	.....	.....	.....
	1908	77	64.6	.115	7.48	.....	.....	40	37	.....	.....	.....	.....	.....	.....	.....
	1909	87	69.1	.119	8.23	.....	.....	28	59	.....	.....	.....	.....	.....	.....	.....
	1910	104	68.0	.138	9.33	.....	.....	.....	49	55	.....	.....	.....	.....	.....	.....
6 plants	1910	399	76.3	.142	10.83	.....	.....	.....	90	308	1	.....	.....	.....	.....	.....
	1911	135	69.1	.140	9.66	.....	.....	6	35	93	1	.....	.....	.....	.....	.....
	1912	99	68.0	.144	9.79	.....	.....	.....	26	66	6	1	.....	.....	.....	.....
Pittsburgh:																
6 plants	1907	374	78.1	.152	11.84	.....	.....	.....	91	145	138	.....	.....	.....	.....	.....
	1908	286	73.8	.154	11.43	.....	.....	.....	12	149	125	.....	.....	.....	.....	.....
	1909	227	75.5	.152	11.55	.....	.....	.....	74	.....	153	.....	.....	.....	.....	.....
	1910	245	74.4	.165	12.28	.....	.....	.....	5	13	227	.....	.....	.....	.....	.....
9 plants	1910	309	75.6	.166	12.62	.....	.....	.....	5	13	291	.....	.....	.....	.....	.....
	1911	301	75.6	.165	12.55	.....	.....	.....	27	13	261	.....	.....	.....	.....	.....
	1912	284	77.7	.164	12.80	.....	.....	.....	4	54	226	.....	.....	.....	.....	.....
G.L. and M.W.:																
6 plants	1907	229	77.4	.162	12.51	.....	.....	.....	.....	100	129	.....	.....	.....	.....	.....
	1908	189	75.8	.152	11.55	.....	.....	.....	.....	142	47	.....	.....	.....	.....	.....
	1909	257	73.3	.153	11.21	.....	.....	.....	30	183	44	.....	.....	.....	.....	.....
	1910	348	73.7	.161	11.88	.....	.....	.....	.....	98	250	.....	.....	.....	.....	.....
9 plants	1910	410	73.5	.162	11.93	.....	.....	.....	.....	121	289	.....	.....	.....	.....	.....
	1911	222	72.2	.166	11.98	.....	.....	.....	.....	51	171	.....	.....	.....	.....	.....
10 plants	1911	224	72.3	.166	11.99	.....	.....	.....	.....	53	171	.....	.....	.....	.....	.....
	1912	275	71.0	.167	11.86	.....	.....	.....	.....	42	233	.....	.....	.....	.....	.....
Southern:																
6 plants	1907	261	74.3	.130	9.65	.....	.....	31	144	86	.....	.....	.....	.....	.....	.....
	1908	166	71.7	.111	7.99	.....	4	133	25	4	.....	.....	.....	.....	.....	.....
	1909	186	71.3	.112	7.96	.....	4	147	33	2	.....	.....	.....	.....	.....	.....
	1910	205	75.5	.127	9.60	.....	.....	38	143	24	.....	.....	.....	.....	.....	.....
10 plants	1910	305	73.3	.128	9.41	.....	.....	44	237	24	.....	.....	.....	.....	.....	.....
	1911	277	73.7	.131	9.63	.....	.....	32	178	67	.....	.....	.....	.....	.....	.....
	1912	303	72.3	.130	9.41	.....	.....	31	207	65	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912.

BLAST FURNACES—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Stockers:										
18 plants	1907	824	81.4	.....	.....	14	74	.....	105	631
	1908	473	79.1	.....	.....	4	123	.....	70	276
	1909	737	80.9	.....	.....	.....	71	.....	224	442
	1910	904	81.0	1	.....	.....	70	16	222	595
32 plants	1910	1,445	79.9	1	.....	12	263	30	222	917
	1911	898	79.8	.....	12	21	107	59	142	557
32 plants	1911	904	79.7	.....	12	25	107	59	142	559
	1912	1,045	78.7	1	11	26	112	136	244	515
Bottom fillers:										
7 plants	1907	293	84.0	.....	.....	.....	.....	.....	.....	293
	1908	194	84.0	.....	.....	.....	.....	.....	.....	194
	1909	282	84.0	.....	.....	.....	.....	.....	.....	282
	1910	267	84.0	.....	.....	.....	.....	.....	.....	267
14 plants	1910	672	84.0	.....	.....	.....	.....	.....	.....	672
	1911	391	84.0	.....	.....	.....	.....	.....	.....	391
15 plants	1911	417	84.0	.....	.....	.....	.....	.....	.....	417
	1912	468	82.2	.....	.....	.....	.....	69	.....	399
Top fillers:										
8 plants	1907	66	84.0	.....	.....	.....	.....	.....	.....	66
	1908	44	84.0	.....	.....	.....	.....	.....	.....	44
	1909	50	84.0	.....	.....	.....	.....	.....	.....	50
	1910	48	84.0	.....	.....	.....	.....	.....	.....	48
13 plants	1910	142	82.8	.....	6	.....	.....	.....	.....	136
	1911	84	82.0	.....	6	.....	.....	.....	.....	78
14 plants	1911	92	82.2	.....	6	.....	.....	.....	.....	86
	1912	96	80.0	.....	6	.....	.....	18	.....	72
Larry men:										
11 plants	1907	132	84.0	.....	.....	.....	.....	.....	.....	132
	1908	86	84.0	.....	.....	.....	.....	.....	.....	86
	1909	135	84.0	.....	.....	.....	.....	.....	.....	135
	1910	149	84.0	.....	.....	.....	.....	.....	.....	149
21 plants	1910	231	84.0	.....	.....	.....	.....	.....	.....	231
	1911	203	82.9	.....	.....	.....	.....	19	.....	184
	1912	237	78.1	.....	36	.....	.....	33	.....	168
Larry men's helpers:										
10 plants	1907	115	84.0	.....	.....	.....	.....	.....	.....	115
	1908	79	84.0	.....	.....	.....	.....	.....	.....	79
	1909	135	84.0	.....	.....	.....	.....	.....	.....	135
	1910	134	84.0	.....	.....	.....	.....	.....	.....	134
19 plants	1910	278	84.0	.....	.....	.....	.....	.....	.....	278
	1911	294	82.6	.....	.....	.....	.....	34	.....	260
	1912	343	79.6	.....	36	.....	.....	43	.....	264
Skip operators:										
11 plants	1907	86	84.0	.....	.....	.....	.....	.....	.....	86
	1908	64	84.0	.....	.....	.....	.....	.....	.....	64
	1909	94	84.0	.....	.....	.....	.....	.....	.....	94
	1910	97	84.0	.....	.....	.....	.....	.....	.....	97
19 plants	1910	125	84.0	.....	.....	.....	.....	.....	.....	125
	1911	124	83.8	.....	.....	.....	.....	2	.....	122
	1912	136	79.2	.....	18	.....	.....	12	.....	106
Blowers:										
18 plants	1907	78	84.0	.....	.....	.....	.....	.....	.....	78
	1908	68	84.0	.....	.....	.....	.....	.....	.....	68
	1909	86	84.0	.....	.....	.....	.....	.....	.....	86
	1910	90	84.0	.....	.....	.....	.....	.....	.....	90
32 plants	1910	131	83.5	.....	.....	3	.....	.....	.....	128
	1911	121	82.9	.....	.....	.....	.....	11	.....	110
33 plants	1911	123	82.9	.....	.....	.....	.....	11	.....	112
	1912	132	80.2	.....	9	.....	.....	21	.....	102

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Blowing engineers:										
20 plants	1907	100	84.0	.....	.....	.....	.....	.....	.....	100
	1908	85	84.0	.....	.....	.....	.....	.....	.....	85
	1909	103	84.0	.....	.....	.....	.....	.....	.....	103
	1910	112	84.0	.....	.....	.....	.....	.....	.....	112
34 plants	1910	153	84.0	.....	.....	.....	.....	.....	.....	153
	1911	135	83.0	.....	.....	.....	.....	11	.....	124
35 plants	1911	137	82.9	.....	.....	.....	.....	13	.....	124
	1912	142	80.6	.....	6	.....	.....	26	.....	110
Blowing engineers' assistants:										
11 plants	1907	67	84.0	.....	.....	.....	.....	.....	.....	67
	1908	51	84.0	.....	.....	.....	.....	.....	.....	51
	1909	74	84.0	.....	.....	.....	.....	.....	.....	74
	1910	66	84.0	.....	.....	.....	.....	.....	.....	66
18 plants	1910	94	84.0	.....	.....	.....	.....	.....	.....	94
	1911	91	83.2	.....	.....	.....	.....	6	.....	85
	1912	108	80.4	.....	9	.....	.....	11	.....	88
Stove tenders:										
20 plants	1907	140	84.0	.....	.....	.....	.....	.....	.....	140
	1908	96	84.0	.....	.....	.....	.....	.....	.....	96
	1909	140	84.0	.....	.....	.....	.....	.....	.....	140
	1910	146	84.0	.....	.....	.....	.....	.....	.....	146
34 plants	1910	200	84.0	.....	.....	.....	.....	.....	.....	200
	1911	178	82.7	.....	.....	.....	.....	20	.....	158
35 plants	1911	180	82.7	.....	.....	.....	.....	20	.....	160
	1912	212	79.5	.....	18	.....	.....	38	.....	156
Keepers:										
20 plants	1907	146	84.0	.....	.....	.....	.....	.....	.....	146
	1908	96	84.0	.....	.....	.....	.....	.....	.....	96
	1909	141	84.0	.....	.....	.....	.....	.....	.....	141
	1910	142	84.0	.....	.....	.....	.....	.....	.....	142
34 plants	1910	201	84.0	.....	.....	.....	.....	.....	.....	201
	1911	182	82.7	.....	.....	.....	.....	20	.....	162
35 plants	1911	184	82.7	.....	.....	.....	.....	20	.....	164
	1912	216	79.6	.....	18	.....	.....	38	.....	160
Keepers' helpers:										
20 plants	1907	616	84.0	.....	.....	.....	.....	.....	.....	616
	1908	409	84.0	.....	.....	.....	.....	.....	.....	409
	1909	596	84.0	.....	.....	.....	.....	.....	.....	596
	1910	608	84.0	.....	.....	.....	.....	.....	.....	608
34 plants	1910	877	84.0	.....	.....	.....	.....	.....	.....	877
	1911	734	83.1	.....	.....	.....	.....	56	.....	678
35 plants	1911	742	83.1	.....	.....	.....	.....	56	.....	686
	1912	846	81.0	.....	36	.....	.....	126	.....	684
Iron handlers and loaders:										
9 plants	1907	203	73.2	.....	.....	.....	122	.....	12	69
	1908	163	73.0	.....	.....	.....	97	.....	14	52
	1909	242	73.6	.....	.....	.....	138	.....	18	86
	1910	177	73.0	.....	.....	.....	105	.....	18	54
18 plants	1910	305	74.2	.....	.....	.....	179	.....	18	108
	1911	300	72.7	.....	.....	4	189	.....	18	89
19 plants	1911	308	73.0	.....	.....	4	189	.....	18	97
	1912	359	72.2	.....	.....	28	179	36	18	98

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were— Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pig-machine men:										
9 plants	1907	193	84.0	.....	.....	.....	.....	.....	.....	193
	1908	157	83.9	.....	.....	.....	.....	.....	3	154
	1909	152	83.9	.....	.....	.....	.....	.....	3	149
	1910	182	83.8	.....	.....	1	1	.....	.....	180
16 plants	1910	291	83.9	.....	.....	1	1	.....	.....	289
	1911	259	82.4	.....	.....	1	.....	33	.....	225
17 plants	1911	267	82.4	.....	.....	1	.....	33	.....	233
	1912	275	81.9	.....	.....	1	.....	47	.....	227
Cinder men:										
20 plants	1907	262	83.6	.....	.....	.....	4	.....	27	231
	1908	245	82.6	.....	.....	.....	20	.....	24	201
	1909	380	82.2	.....	.....	3	33	.....	48	296
	1910	357	82.9	.....	.....	1	24	.....	20	312
32 plants	1910	482	82.9	.....	.....	1	34	.....	20	427
	1911	339	81.3	.....	.....	.....	33	35	6	265
32 plants	1911	333	81.3	.....	.....	.....	33	35	6	259
	1912	397	75.2	.....	68	24	44	36	1	224
Laborers:										
20 plants	1907	957	75.8	.....	.....	106	350	1	52	448
	1908	718	72.8	.....	.....	142	272	.....	109	195
	1909	757	73.0	.....	.....	102	378	15	53	209
	1910	902	73.6	.....	.....	159	332	23	45	343
34 plants	1910	1,423	74.7	.....	.....	269	404	26	298	426
	1911	935	73.3	.....	.....	197	288	28	134	288
35 plants	1911	937	73.3	.....	.....	197	288	28	134	290
	1912	961	73.1	.....	.....	192	302	81	92	294
PER CENT.										
Stockers:										
18 plants	1907	824	81.4	.....	.....	1.7	9.0	.....	12.7	76.6
	1908	473	79.1	.....	.....	.8	26.0	.....	14.8	58.4
	1909	737	80.9	.....	.....	.....	9.6	.....	30.4	60.0
	1910	904	81.0	0.1	.....	.....	7.7	1.8	24.6	65.8
32 plants	1910	1,445	79.9	.1	.....	.8	18.2	2.1	15.4	63.5
	1911	898	79.8	.....	1.3	2.3	11.9	6.6	15.8	62.0
32 plants	1911	904	79.7	.....	1.3	2.8	11.8	6.5	15.7	61.8
	1912	1,045	78.7	.1	1.1	2.5	10.7	13.0	23.3	49.3
Bottom fillers:										
7 plants	1907	293	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	194	84.0	.....	.....	.....	.....	.....	.....	100.0
	1909	282	84.0	.....	.....	.....	.....	.....	.....	100.0
	1910	267	84.0	.....	.....	.....	.....	.....	.....	100.0
14 plants	1910	672	84.0	.....	.....	.....	.....	.....	.....	100.0
	1911	391	84.0	.....	.....	.....	.....	.....	.....	100.0
15 plants	1911	417	84.0	.....	.....	.....	.....	.....	.....	100.0
	1912	468	82.2	.....	.....	.....	.....	14.7	.....	85.3
Top fillers:										
8 plants	1907	66	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	44	84.0	.....	.....	.....	.....	.....	.....	100.0
	1909	50	84.0	.....	.....	.....	.....	.....	.....	100.0
	1910	48	84.0	.....	.....	.....	.....	.....	.....	100.0
13 plants	1910	142	82.8	.....	4.2	.....	.....	.....	.....	95.8
	1911	84	82.0	.....	7.1	.....	.....	.....	.....	92.9
14 plants	1911	92	82.2	.....	6.5	.....	.....	.....	.....	93.5
	1912	96	80.0	.....	6.3	.....	.....	18.8	.....	75.0

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were— Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Larry men:										
11 plants	1907	132	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	86	84.0	.....	.....	.....	.....	.....	.....	100.0
	1909	135	84.0	.....	.....	.....	.....	.....	.....	100.0
	1910	149	84.0	.....	.....	.....	.....	.....	.....	100.0
21 plants	1910	231	84.0	.....	.....	.....	.....	.....	.....	100.0
	1911	203	82.9	.....	.....	.....	.....	9.4	.....	90.6
	1912	237	78.1	.....	15.2	.....	.....	13.9	.....	70.9
Larry men's helpers:										
10 plants	1907	115	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	79	84.0	.....	.....	.....	.....	.....	.....	100.0
	1909	135	84.0	.....	.....	.....	.....	.....	.....	100.0
	1910	134	84.0	.....	.....	.....	.....	.....	.....	100.0
19 plants	1910	278	84.0	.....	.....	.....	.....	.....	.....	100.0
	1911	294	82.6	.....	.....	.....	.....	11.6	.....	88.4
	1912	343	79.6	.....	10.5	.....	.....	12.5	.....	77.0
Skip operators:										
11 plants	1907	86	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	64	84.0	.....	.....	.....	.....	.....	.....	100.0
	1909	94	84.0	.....	.....	.....	.....	.....	.....	100.0
	1910	97	84.0	.....	.....	.....	.....	.....	.....	100.0
19 plants	1910	125	84.0	.....	.....	.....	.....	.....	.....	100.0
	1911	124	83.8	.....	.....	.....	.....	1.6	.....	98.4
	1912	136	79.2	.....	13.2	.....	.....	8.8	.....	77.9
Blowers:										
18 plants	1907	78	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	68	84.0	.....	.....	.....	.....	.....	.....	100.0
	1909	86	84.0	.....	.....	.....	.....	.....	.....	100.0
	1910	90	84.0	.....	.....	.....	.....	.....	.....	100.0
32 plants	1910	131	83.5	.....	.....	2.3	.....	.....	.....	97.7
	1911	121	82.9	.....	.....	.....	.....	9.1	.....	90.9
33 plants	1911	123	82.9	.....	.....	.....	.....	8.9	.....	91.1
	1912	132	80.2	.....	6.8	.....	.....	15.9	.....	77.3
Blowing engineers:										
20 plants	1907	100	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	85	84.0	.....	.....	.....	.....	.....	.....	100.0
	1909	103	84.0	.....	.....	.....	.....	.....	.....	100.0
	1910	112	84.0	.....	.....	.....	.....	.....	.....	100.0
34 plants	1910	153	84.0	.....	.....	.....	.....	.....	.....	100.0
	1911	135	83.0	.....	.....	.....	.....	8.1	.....	91.9
35 plants	1911	137	82.9	.....	.....	.....	.....	9.5	.....	90.5
	1912	142	80.6	.....	4.2	.....	.....	18.3	.....	77.5
Blowing engineers' assistants:										
11 plants	1907	67	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	51	84.0	.....	.....	.....	.....	.....	.....	100.0
	1909	74	84.0	.....	.....	.....	.....	.....	.....	100.0
	1910	66	84.0	.....	.....	.....	.....	.....	.....	100.0
18 plants	1910	94	84.0	.....	.....	.....	.....	.....	.....	100.0
	1911	91	83.2	.....	.....	.....	.....	6.6	.....	93.4
	1912	108	80.4	.....	8.3	.....	.....	10.2	.....	81.5
Stove tenders:										
20 plants	1907	140	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	96	84.0	.....	.....	.....	.....	.....	.....	100.0
	1909	140	84.0	.....	.....	.....	.....	.....	.....	100.0
	1910	146	84.0	.....	.....	.....	.....	.....	.....	100.0
34 plants	1910	200	84.0	.....	.....	.....	.....	.....	.....	100.0
	1911	178	82.7	.....	.....	.....	.....	11.2	.....	88.8
35 plants	1911	180	82.7	.....	.....	.....	.....	11.1	.....	88.9
	1912	212	79.5	.....	8.5	.....	.....	17.9	.....	73.6

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Concluded.

BLAST FURNACES—Continued.

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Keepers:										
20 plants	1907	146	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	96	84.0	.....	.....	.....	.....	.....	.....	100.0
	1909	141	84.0	.....	.....	.....	.....	.....	.....	100.0
	1910	142	84.0	.....	.....	.....	.....	.....	.....	100.0
34 plants	1910	201	84.0	.....	.....	.....	.....	.....	.....	100.0
	1911	182	82.7	.....	.....	.....	.....	11.0	.....	89.0
35 plants	1911	184	82.7	.....	.....	.....	.....	10.9	.....	89.1
	1912	216	79.6	.....	8.3	.....	.....	17.6	.....	74.1
Keepers' helpers:										
20 plants	1907	616	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	409	84.0	.....	.....	.....	.....	.....	.....	100.0
	1909	596	84.0	.....	.....	.....	.....	.....	.....	100.0
	1910	608	84.0	.....	.....	.....	.....	.....	.....	100.0
34 plants	1910	877	84.0	.....	.....	.....	.....	.....	.....	100.0
	1911	734	83.1	.....	.....	.....	.....	7.6	.....	92.4
35 plants	1911	742	83.1	.....	.....	.....	.....	7.5	.....	92.5
	1912	846	81.0	.....	4.3	.....	.....	14.9	.....	80.9
Iron handlers and loaders:										
9 plants	1907	203	73.2	.....	.....	.....	60.1	.....	5.9	34.0
	1908	163	73.0	.....	.....	.....	59.5	.....	8.6	31.9
	1909	242	73.6	.....	.....	.....	57.0	.....	7.4	35.5
	1910	177	73.0	.....	.....	.....	59.3	.....	10.2	30.5
18 plants	1910	305	74.2	.....	.....	.....	58.7	.....	5.9	35.4
	1911	300	72.7	.....	.....	1.3	63.0	.....	6.0	29.7
19 plants	1911	308	73.0	.....	.....	1.3	61.4	.....	5.8	31.5
	1912	359	72.2	.....	.....	7.8	49.9	10.0	5.0	27.3
Pig-machine men:										
9 plants	1907	193	84.0	.....	.....	.....	.....	.....	.....	100.0
	1908	157	83.9	.....	.....	.....	.....	.....	1.9	98.1
	1909	152	83.9	.....	.....	.....	.....	.....	2.0	98.0
	1910	182	83.8	.....	.....	.5	.5	.....	.....	98.9
16 plants	1910	291	83.9	.....	.....	.3	.3	.....	.....	99.3
	1911	259	82.4	.....	.....	.4	.....	12.7	.....	86.9
17 plants	1911	267	82.4	.....	.....	.4	.....	12.4	.....	87.3
	1912	275	81.9	.....	.....	.4	.....	17.1	.....	82.5
Cinder men:										
20 plants	1907	262	83.6	.....	.....	.....	1.5	.....	10.3	88.2
	1908	245	82.6	.....	.....	.....	8.2	.....	9.8	82.0
	1909	380	82.2	.....	.....	.8	8.7	.....	12.6	77.9
	1910	357	82.9	.....	.....	.3	6.7	.....	5.6	87.4
32 plants	1910	482	82.9	.....	.....	.2	7.1	.....	4.1	88.6
	1911	339	81.3	.....	.....	.....	9.7	10.3	1.8	78.2
32 plants	1911	333	81.3	.....	.....	.....	9.9	10.5	1.8	77.8
	1912	397	75.2	.....	17.1	6.0	11.1	9.1	.3	56.4
Laborers:										
20 plants	1907	957	75.8	.....	.....	11.1	36.6	.1	5.4	46.8
	1908	718	72.8	.....	.....	19.8	37.9	.....	15.2	27.2
	1909	757	73.0	.....	.....	13.5	49.9	2.0	7.0	27.6
	1910	902	73.6	.....	.....	17.6	36.8	2.5	5.0	38.0
34 plants	1910	1,423	74.7	.....	.....	18.9	28.4	1.8	20.9	29.9
	1911	935	73.3	.....	.....	21.1	30.8	3.0	14.3	30.8
35 plants	1911	937	73.3	.....	.....	21.0	30.7	3.0	14.3	30.9
	1912	961	73.1	.....	.....	20.0	31.4	8.4	9.6	30.6

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912.

BLAST FURNACES—Continued.

STOCKERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60.	Over 60 and under 72	72	Over 72 and under 84	84
1907.										
Eastern	1	8	70.0	.....	.....	.....	8	.....	.....	.....
Pittsburgh	5	498	81.4	.....	.....	14	14	.....	105	365
Great Lakes and Middle West	6	246	82.2	.....	.....	.....	31	.....	.....	215
Southern	6	72	79.9	.....	.....	.....	21	.....	.....	51
Total	18	824	81.4	.....	.....	14	74	.....	105	631
1908.										
Eastern	1	8	70.0	.....	.....	.....	8	.....	.....	.....
Pittsburgh	5	247	78.1	.....	.....	.....	69	.....	70	108
Great Lakes and Middle West	6	146	80.7	.....	.....	4	28	.....	.....	114
Southern	6	72	80.5	.....	.....	.....	18	.....	.....	54
Total	18	473	79.1	.....	.....	4	123	.....	70	276
1909.										
Eastern	1	11	70.0	.....	.....	.....	11	.....	.....	.....
Pittsburgh	5	454	80.0	.....	.....	.....	34	.....	224	196
Great Lakes and Middle West	6	161	83.5	.....	.....	.....	6	.....	.....	155
Southern	6	111	81.5	.....	.....	.....	20	.....	.....	91
Total	18	737	80.9	.....	.....	.....	71	.....	224	442
1910.										
Eastern	5	165	77.9	.....	.....	12	43	10	.....	100
Pittsburgh	8	688	81.2	1	.....	.....	33	20	171	463
Great Lakes and Middle West	9	416	79.3	.....	.....	.....	138	.....	12	266
Southern	10	176	78.6	.....	.....	.....	49	.....	39	88
Total	32	1,445	79.9	1	.....	12	263	30	222	917
1911.										
Eastern	5	86	73.1	.....	.....	14	35	9	.....	28
Pittsburgh	8	503	80.8	.....	12	3	12	25	140	311
Great Lakes and Middle West	10	210	79.5	.....	.....	8	32	25	.....	145
Southern	9	105	80.1	.....	.....	.....	28	.....	2	75
Total	32	904	79.7	.....	12	25	107	59	142	559
1912.										
Eastern	5	78	68.7	.....	11	14	23	19	.....	11
Pittsburgh	8	606	80.5	1	.....	8	14	26	244	313
Great Lakes and Middle West	10	248	77.9	.....	.....	4	33	79	.....	132
Southern	9	113	77.5	.....	.....	.....	42	12	.....	59
Total	32	1,045	78.7	1	11	26	112	136	244	515

BOTTOM FILLERS.

1907.										
Eastern	2	100	84.0	.....	.....	.....	.....	.....	.....	100
Pittsburgh	1	28	84.0	.....	.....	.....	.....	.....	.....	28
Great Lakes and Middle West	2	93	84.0	.....	.....	.....	.....	.....	.....	93
Southern	2	72	84.0	.....	.....	.....	.....	.....	.....	72
Total	7	293	84.0	.....	.....	.....	.....	.....	.....	293
1908.										
Eastern	2	60	84.0	.....	.....	.....	.....	.....	.....	60
Pittsburgh	1	28	84.0	.....	.....	.....	.....	.....	.....	28
Great Lakes and Middle West	2	58	84.0	.....	.....	.....	.....	.....	.....	58
Southern	2	48	84.0	.....	.....	.....	.....	.....	.....	48
Total	7	194	84.0	.....	.....	.....	.....	.....	.....	194

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BOTTOM FILLERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1909.										
Eastern	2	100	84.0	.....	.....	.....	.....	.....	.....	100
Pittsburgh	1	30	84.0	.....	.....	.....	.....	.....	.....	30
Great Lakes and Middle West	2	58	84.0	.....	.....	.....	.....	.....	.....	58
Southern	2	94	84.0	.....	.....	.....	.....	.....	.....	94
Total	7	282	84.0	.....	.....	.....	.....	.....	.....	282
1910.										
Eastern	4	398	84.0	.....	.....	.....	.....	.....	.....	398
Pittsburgh	2	46	84.0	.....	.....	.....	.....	.....	.....	46
Great Lakes and Middle West	3	130	84.0	.....	.....	.....	.....	.....	.....	130
Southern	5	98	84.0	.....	.....	.....	.....	.....	.....	98
Total	14	672	84.0	.....	.....	.....	.....	.....	.....	672
1911.										
Eastern	4	212	84.0	.....	.....	.....	.....	.....	.....	212
Pittsburgh	2	42	84.0	.....	.....	.....	.....	.....	.....	42
Great Lakes and Middle West	4	90	84.0	.....	.....	.....	.....	.....	.....	90
Southern	5	73	84.0	.....	.....	.....	.....	.....	.....	73
Total	15	417	84.0	.....	.....	.....	.....	.....	.....	417
1912.										
Eastern	4	166	84.0	.....	.....	.....	.....	.....	.....	166
Pittsburgh	2	44	84.0	.....	.....	.....	.....	.....	.....	44
Great Lakes and Middle West	4	129	84.0	.....	.....	.....	.....	.....	.....	129
Southern	5	129	77.6	.....	.....	.....	.....	69	.....	60
Total	15	468	82.2	.....	.....	.....	.....	69	.....	399

TOP FILLERS.

1907.										
Eastern	2	10	84.0	.....	.....	.....	.....	.....	.....	10
Pittsburgh	1	8	84.0	.....	.....	.....	.....	.....	.....	8
Great Lakes and Middle West	2	18	84.0	.....	.....	.....	.....	.....	.....	18
Southern	3	30	84.0	.....	.....	.....	.....	.....	.....	30
Total	8	66	84.0	.....	.....	.....	.....	.....	.....	6
1908.										
Eastern	2	8	84.0	.....	.....	.....	.....	.....	.....	8
Pittsburgh	1	6	84.0	.....	.....	.....	.....	.....	.....	6
Great Lakes and Middle West	2	12	84.0	.....	.....	.....	.....	.....	.....	12
Southern	3	18	84.0	.....	.....	.....	.....	.....	.....	18
Total	8	44	84.0	.....	.....	.....	.....	.....	.....	44
1909.										
Eastern	2	10	84.0	.....	.....	.....	.....	.....	.....	10
Pittsburgh	1	6	84.0	.....	.....	.....	.....	.....	.....	6
Great Lakes and Middle West	2	12	84.0	.....	.....	.....	.....	.....	.....	12
Southern	3	22	84.0	.....	.....	.....	.....	.....	.....	22
Total	8	50	84.0	.....	.....	.....	.....	.....	.....	50
1910.										
Eastern	4	85	84.0	.....	.....	.....	.....	.....	.....	85
Pittsburgh	1	6	84.0	.....	.....	.....	.....	.....	.....	6
Great Lakes and Middle West	2	18	74.7	.....	6	.....	.....	.....	.....	12
Southern	6	33	84.0	.....	.....	.....	.....	.....	.....	33
Total	13	142	82.8	.....	6	.....	.....	.....	.....	136

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

TOP FILLERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.										
Eastern	4	36	84.0	.....	.....	.....	.....	.....	.....	36
Pittsburgh	1	6	84.0	.....	.....	.....	.....	.....	.....	6
Great Lakes and Middle West	3	20	75.6	.....	6	.....	.....	.....	.....	14
Southern	6	30	84.0	.....	.....	.....	.....	.....	.....	30
Total	14	92	82.2	.....	6	.....	.....	.....	.....	86
1912.										
Eastern	4	22	84.0	.....	.....	.....	.....	.....	.....	22
Pittsburgh	1	6	84.0	.....	.....	.....	.....	.....	.....	6
Great Lakes and Middle West	3	30	78.4	.....	6	.....	.....	.....	.....	24
Southern	6	38	78.3	.....	.....	.....	.....	18	.....	20
Total	14	96	80.0	.....	6	.....	.....	18	.....	72

LARRY MEN.

1907.										
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	52	84.0	.....	.....	.....	.....	.....	.....	52
Great Lakes and Middle West	4	56	84.0	.....	.....	.....	.....	.....	.....	56
Southern	3	24	84.0	.....	.....	.....	.....	.....	.....	24
Total	11	132	84.0	.....	.....	.....	.....	.....	.....	132
1908.										
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	26	84.0	.....	.....	.....	.....	.....	.....	26
Great Lakes and Middle West	4	38	84.0	.....	.....	.....	.....	.....	.....	38
Southern	3	22	84.0	.....	.....	.....	.....	.....	.....	22
Total	11	86	84.0	.....	.....	.....	.....	.....	.....	86
1909.										
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	64	84.0	.....	.....	.....	.....	.....	.....	64
Great Lakes and Middle West	4	53	84.0	.....	.....	.....	.....	.....	.....	53
Southern	3	18	84.0	.....	.....	.....	.....	.....	.....	18
Total	11	135	84.0	.....	.....	.....	.....	.....	.....	135
1910.										
Eastern	2	4	84.0	.....	.....	.....	.....	.....	.....	4
Pittsburgh	8	122	84.0	.....	.....	.....	.....	.....	.....	122
Great Lakes and Middle West	6	72	84.0	.....	.....	.....	.....	.....	.....	72
Southern	5	33	84.0	.....	.....	.....	.....	.....	.....	33
Total	21	231	84.0	.....	.....	.....	.....	.....	.....	231
1911.										
Eastern	2	4	78.0	.....	.....	.....	.....	2	.....	2
Pittsburgh	8	122	84.0	.....	.....	.....	.....	.....	.....	122
Great Lakes and Middle West	6	55	80.3	.....	.....	.....	.....	17	.....	38
Southern	5	22	84.0	.....	.....	.....	.....	.....	.....	22
Total	21	203	82.9	.....	.....	.....	.....	19	.....	184
1912.										
Eastern	2	6	76.0	.....	.....	.....	.....	4	.....	2
Pittsburgh	8	142	76.9	.....	36	.....	.....	.....	.....	106
Great Lakes and Middle West	6	65	78.6	.....	.....	.....	.....	29	.....	36
Southern	5	24	84.0	.....	.....	.....	.....	.....	.....	24
Total	21	237	78.1	.....	36	.....	.....	33	.....	168

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

LARRY MEN'S HELPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—					
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.										
Eastern										
Pittsburgh	4	48	84.0							48
Great Lakes and Middle West	4	57	84.0							57
Southern	2	10	84.0							10
Total	10	115	84.0							115
1908.										
Eastern										
Pittsburgh	4	24	84.0							24
Great Lakes and Middle West	4	45	84.0							45
Southern	2	10	84.0							10
Total	10	79	84.0							79
1909.										
Eastern										
Pittsburgh	4	60	84.0							60
Great Lakes and Middle West	4	63	84.0							63
Southern	2	12	84.0							12
Total	10	135	84.0							135
1910.										
Eastern	1	2	84.0							2
Pittsburgh	8	167	84.0							167
Great Lakes and Middle West	5	76	84.0							76
Southern	5	33	84.0							33
Total	19	278	84.0							278
1911.										
Eastern	1	2	72.0					2		
Pittsburgh	8	216	84.0							216
Great Lakes and Middle West	5	54	76.9					32		22
Southern	5	22	84.0							22
Total	19	294	82.6					34		260
1912.										
Eastern	1	4	72.0					4		
Pittsburgh	8	248	79.9		36					212
Great Lakes and Middle West	5	67	77.0					39		28
Southern	5	24	84.0							24
Total	19	343	79.6		36			43		264

SKIP OPERATORS.

1907.										
Eastern										
Pittsburgh	5	54	84.0							54
Great Lakes and Middle West	3	20	84.0							20
Southern	3	12	84.0							12
Total	11	86	84.0							86
1908.										
Eastern										
Pittsburgh	5	38	84.0							38
Great Lakes and Middle West	3	14	84.0							14
Southern	3	12	84.0							12
Total	11	64	84.0							64

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

SKIP OPERATORS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1909.										
Eastern										
Pittsburgh	5	62	84.0							62
Great Lakes and Middle West	3	18	84.0							18
Southern	3	14	84.0							14
Total	11	94	84.0							94
1910.										
Eastern	2	4	84.0							4
Pittsburgh	8	70	84.0							70
Great Lakes and Middle West	5	30	84.0							30
Southern	4	21	84.0							21
Total	19	125	84.0							125
1911.										
Eastern	2	4	78.0					2		2
Pittsburgh	8	76	84.0							76
Great Lakes and Middle West	5	26	84.0							26
Southern	4	18	84.0							18
Total	19	124	83.8					2		122
1912.										
Eastern	2	6	76.0					4		2
Pittsburgh	8	76	77.4		18					58
Great Lakes and Middle West	5	34	81.2					8		26
Southern	4	20	84.0							20
Total	19	136	79.2		18			12		106
BLOWERS.										
1907.										
Eastern	2	4	84.0							4
Pittsburgh	5	26	84.0							26
Great Lakes and Middle West	5	29	84.0							29
Southern	6	19	84.0							19
Total	18	78	84.0							78
1908.										
Eastern	2	4	84.0							4
Pittsburgh	5	23	84.0							23
Great Lakes and Middle West	5	21	84.0							21
Southern	6	20	84.0							20
Total	18	68	84.0							68
1909.										
Eastern	2	4	84.0							4
Pittsburgh	5	31	84.0							31
Great Lakes and Middle West	5	25	84.0							25
Southern	6	26	84.0							26
Total	18	86	84.0							86
1910.										
Eastern	6	17	79.8			3				14
Pittsburgh	8	45	84.0							45
Great Lakes and Middle West	8	40	84.0							40
Southern	10	29	84.0							29
Total	32	131	83.5			3				128

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BLOWERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.										
Eastern	6	16	81.8	.....	.....	.....	.....	3	.....	13
Pittsburgh	8	43	84.0	.....	.....	.....	.....	.....	.....	43
Great Lakes and Middle West	9	36	81.3	.....	.....	.....	.....	8	.....	28
Southern	10	28	84.0	.....	.....	.....	.....	.....	.....	28
Total	33	123	82.9	.....	.....	.....	.....	11	.....	112
1912.										
Eastern	6	16	81.8	.....	.....	.....	.....	3	.....	13
Pittsburgh	8	48	78.8	.....	9	.....	.....	.....	.....	39
Great Lakes and Middle West	9	38	80.2	.....	.....	.....	.....	12	.....	26
Southern	10	30	81.6	.....	.....	.....	.....	6	.....	24
Total	33	132	80.2	.....	9	.....	.....	21	.....	102
BLOWING ENGINEERS.										
1907.										
Eastern	2	6	84.0	.....	.....	.....	.....	.....	.....	6
Pittsburgh	6	32	84.0	.....	.....	.....	.....	.....	.....	32
Great Lakes and Middle West	6	42	84.0	.....	.....	.....	.....	.....	.....	42
Southern	6	20	84.0	.....	.....	.....	.....	.....	.....	20
Total	20	100	84.0	.....	.....	.....	.....	.....	.....	100
1908.										
Eastern	2	4	84.0	.....	.....	.....	.....	.....	.....	4
Pittsburgh	6	30	84.0	.....	.....	.....	.....	.....	.....	30
Great Lakes and Middle West	6	33	84.0	.....	.....	.....	.....	.....	.....	33
Southern	6	18	84.0	.....	.....	.....	.....	.....	.....	18
Total	20	85	84.0	.....	.....	.....	.....	.....	.....	85
1909.										
Eastern	2	6	84.0	.....	.....	.....	.....	.....	.....	6
Pittsburgh	6	36	84.0	.....	.....	.....	.....	.....	.....	36
Great Lakes and Middle West	6	41	84.0	.....	.....	.....	.....	.....	.....	41
Southern	6	20	84.0	.....	.....	.....	.....	.....	.....	20
Total	20	103	84.0	.....	.....	.....	.....	.....	.....	103
1910.										
Eastern	6	19	84.0	.....	.....	.....	.....	.....	.....	19
Pittsburgh	9	46	84.0	.....	.....	.....	.....	.....	.....	46
Great Lakes and Middle West	9	64	84.0	.....	.....	.....	.....	.....	.....	64
Southern	10	24	84.0	.....	.....	.....	.....	.....	.....	24
Total	34	153	84.0	.....	.....	.....	.....	.....	.....	153
1911.										
Eastern	6	14	82.3	.....	.....	.....	.....	2	.....	12
Pittsburgh	9	44	84.0	.....	.....	.....	.....	.....	.....	44
Great Lakes and Middle West	10	55	81.6	.....	.....	.....	.....	11	.....	44
Southern	10	24	84.0	.....	.....	.....	.....	.....	.....	24
Total	35	137	82.9	.....	.....	.....	.....	13	.....	124
1912.										
Eastern	6	16	82.5	.....	.....	.....	.....	2	.....	14
Pittsburgh	9	46	80.3	.....	6	.....	.....	.....	.....	40
Great Lakes and Middle West	10	54	80.0	.....	.....	.....	.....	18	.....	36
Southern	10	26	81.2	.....	.....	.....	.....	6	.....	20
Total	35	142	80.6	.....	6	.....	.....	26	.....	110

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BLOWING ENGINEERS' ASSISTANTS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.										
Eastern	1	2	84.0	.....	.....	.....	.....	.....	.....	2
Pittsburgh	5	43	84.0	.....	.....	.....	.....	.....	.....	43
Great Lakes and Middle West	3	16	84.0	.....	.....	.....	.....	.....	.....	16
Southern	2	6	84.0	.....	.....	.....	.....	.....	.....	6
Total	11	67	84.0	.....	.....	.....	.....	.....	.....	67
1908.										
Eastern	1	2	84.0	.....	.....	.....	.....	.....	.....	2
Pittsburgh	5	29	84.0	.....	.....	.....	.....	.....	.....	29
Great Lakes and Middle West	3	14	84.0	.....	.....	.....	.....	.....	.....	14
Southern	2	6	84.0	.....	.....	.....	.....	.....	.....	6
Total	11	51	84.0	.....	.....	.....	.....	.....	.....	51
1909.										
Eastern	1	2	84.0	.....	.....	.....	.....	.....	.....	2
Pittsburgh	5	46	84.0	.....	.....	.....	.....	.....	.....	46
Great Lakes and Middle West	3	16	84.0	.....	.....	.....	.....	.....	.....	16
Southern	2	10	84.0	.....	.....	.....	.....	.....	.....	10
Total	11	74	84.0	.....	.....	.....	.....	.....	.....	74
1910.										
Eastern	3	8	84.0	.....	.....	.....	.....	.....	.....	8
Pittsburgh	8	54	84.0	.....	.....	.....	.....	.....	.....	54
Great Lakes and Middle West	3	20	84.0	.....	.....	.....	.....	.....	.....	20
Southern	4	12	84.0	.....	.....	.....	.....	.....	.....	12
Total	18	94	84.0	.....	.....	.....	.....	.....	.....	94
1911.										
Eastern	3	6	80.0	.....	.....	.....	.....	2	.....	4
Pittsburgh	8	58	84.0	.....	.....	.....	.....	.....	.....	58
Great Lakes and Middle West	3	12	80.0	.....	.....	.....	.....	4	.....	8
Southern	4	15	84.0	.....	.....	.....	.....	.....	.....	15
Total	18	91	83.2	.....	.....	.....	.....	6	.....	85
1912.										
Eastern	3	6	80.0	.....	.....	.....	.....	2	.....	4
Pittsburgh	8	69	80.3	.....	9	.....	.....	.....	.....	60
Great Lakes and Middle West	3	15	80.0	.....	.....	.....	.....	5	.....	10
Southern	4	18	81.3	.....	.....	.....	.....	4	.....	14
Total	18	108	80.4	.....	9	.....	.....	11	.....	88

STOVE TENDERS.

1907.										
Eastern	2	6	84.0	.....	.....	.....	.....	.....	.....	6
Pittsburgh	6	60	84.0	.....	.....	.....	.....	.....	.....	60
Great Lakes and Middle West	6	50	84.0	.....	.....	.....	.....	.....	.....	50
Southern	6	24	84 0	.....	.....	.....	.....	.....	.....	24
Total	20	140	84.0	.....	.....	.....	.....	.....	.....	140

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

STOVE TENDERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1908.										
Eastern	2	4	84.0	.....	.....	.....	.....	.....	.....	4
Pittsburgh	6	40	84.0	.....	.....	.....	.....	.....	.....	40
Great Lakes and Middle West	6	34	84.0	.....	.....	.....	.....	.....	.....	34
Southern	6	18	84.0	.....	.....	.....	.....	.....	.....	18
Total	20	96	84.0	.....	.....	.....	.....	.....	.....	96
1909.										
Eastern	2	6	84.0	.....	.....	.....	.....	.....	.....	6
Pittsburgh	6	64	84.0	.....	.....	.....	.....	.....	.....	64
Great Lakes and Middle West	6	45	84.0	.....	.....	.....	.....	.....	.....	45
Southern	6	25	84.0	.....	.....	.....	.....	.....	.....	25
Total	20	140	84.0	.....	.....	.....	.....	.....	.....	140
1910.										
Eastern	6	24	84.0	.....	.....	.....	.....	.....	.....	24
Pittsburgh	9	76	84.0	.....	.....	.....	.....	.....	.....	76
Great Lakes and Middle West	9	64	84.0	.....	.....	.....	.....	.....	.....	64
Southern	10	36	84.0	.....	.....	.....	.....	.....	.....	36
Total	34	200	84.0	.....	.....	.....	.....	.....	.....	200
1911.										
Eastern	6	20	81.6	.....	.....	.....	.....	4	.....	16
Pittsburgh	9	82	84.0	.....	.....	.....	.....	.....	.....	82
Great Lakes and Middle West	10	48	80.0	.....	.....	.....	.....	16	.....	32
Southern	10	30	84.0	.....	.....	.....	.....	.....	.....	30
Total	35	180	82.7	.....	.....	.....	.....	20	.....	160
1912.										
Eastern	6	20	81.6	.....	.....	.....	.....	4	.....	16
Pittsburgh	9	92	78.5	.....	18	.....	.....	.....	.....	74
Great Lakes and Middle West	10	64	78.8	.....	.....	.....	.....	28	.....	36
Southern	10	36	82.0	.....	.....	.....	.....	6	.....	30
Total	35	212	79.5	.....	18	.....	.....	38	.....	156

KEEPERS.

1907.										
Eastern	2	6	84.0	.....	.....	.....	.....	.....	.....	6
Pittsburgh	6	60	84.0	.....	.....	.....	.....	.....	.....	60
Great Lakes and Middle West	6	52	84.0	.....	.....	.....	.....	.....	.....	52
Southern	6	28	84.0	.....	.....	.....	.....	.....	.....	28
Total	20	146	84.0	.....	.....	.....	.....	.....	.....	146
1908.										
Eastern	2	4	84.0	.....	.....	.....	.....	.....	.....	4
Pittsburgh	6	38	84.0	.....	.....	.....	.....	.....	.....	38
Great Lakes and Middle West	6	34	84.0	.....	.....	.....	.....	.....	.....	34
Southern	6	20	84.0	.....	.....	.....	.....	.....	.....	20
Total	20	96	84.0	.....	.....	.....	.....	.....	.....	96
1909.										
Eastern	2	6	84.0	.....	.....	.....	.....	.....	.....	6
Pittsburgh	6	64	84.0	.....	.....	.....	.....	.....	.....	64
Great Lakes and Middle West	6	45	84.0	.....	.....	.....	.....	.....	.....	45
Southern	6	26	84.0	.....	.....	.....	.....	.....	.....	26
Total	20	141	84.0	.....	.....	.....	.....	.....	.....	141

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

KEEPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.										
Eastern	6	29	84.0	.....	.....	.....	.....	.....	.....	29
Pittsburgh	9	76	84.0	.....	.....	.....	.....	.....	.....	76
Great Lakes and Middle West	9	65	84.0	.....	.....	.....	.....	.....	.....	65
Southern	10	31	84.0	.....	.....	.....	.....	.....	.....	31
Total	34	201	84.0	.....	.....	.....	.....	.....	.....	201
1911.										
Eastern	6	20	81.6	.....	.....	.....	.....	4	.....	16
Pittsburgh	9	82	84.0	.....	.....	.....	.....	.....	.....	82
Great Lakes and Middle West	10	52	80.3	.....	.....	.....	.....	16	.....	36
Southern	10	30	84.0	.....	.....	.....	.....	.....	.....	30
Total	35	184	82.7	.....	.....	.....	.....	20	.....	164
1912.										
Eastern	6	20	81.6	.....	.....	.....	.....	4	.....	16
Pittsburgh	9	92	78.5	.....	18	.....	.....	.....	.....	74
Great Lakes and Middle West	10	68	79.1	.....	.....	.....	.....	28	.....	40
Southern	10	36	82.0	.....	.....	.....	.....	6	.....	30
Total	35	216	79.6	.....	18	.....	.....	38	.....	160

KEEPERS' HELPERS.

1907.										
Eastern	2	52	84.0	.....	.....	.....	.....	.....	.....	52
Pittsburgh	6	202	84.0	.....	.....	.....	.....	.....	.....	202
Great Lakes and Middle West	6	222	84.0	.....	.....	.....	.....	.....	.....	222
Southern	6	140	84.0	.....	.....	.....	.....	.....	.....	140
Total	20	616	84.0	.....	.....	.....	.....	.....	.....	616
1908.										
Eastern	2	32	84.0	.....	.....	.....	.....	.....	.....	32
Pittsburgh	6	135	84.0	.....	.....	.....	.....	.....	.....	135
Great Lakes and Middle West	6	146	84.0	.....	.....	.....	.....	.....	.....	146
Southern	6	96	84.0	.....	.....	.....	.....	.....	.....	96
Total	20	409	84.0	.....	.....	.....	.....	.....	.....	409
1909.										
Eastern	2	54	84.0	.....	.....	.....	.....	.....	.....	54
Pittsburgh	6	218	84.0	.....	.....	.....	.....	.....	.....	218
Great Lakes and Middle West	6	181	84.0	.....	.....	.....	.....	.....	.....	181
Southern	6	143	84.0	.....	.....	.....	.....	.....	.....	143
Total	20	596	84.0	.....	.....	.....	.....	.....	.....	596
1910.										
Eastern	6	162	84.0	.....	.....	.....	.....	.....	.....	162
Pittsburgh	9	264	84.0	.....	.....	.....	.....	.....	.....	264
Great Lakes and Middle West	9	299	84.0	.....	.....	.....	.....	.....	.....	299
Southern	10	152	84.0	.....	.....	.....	.....	.....	.....	152
Total	34	877	84.0	.....	.....	.....	.....	.....	.....	877

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

KEEPERS' HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.										
Eastern	6	120	82.8	.....	.....	.....	.....	12	.....	108
Pittsburgh	9	268	84.0	.....	.....	.....	.....	.....	.....	268
Great Lakes and Middle West	10	212	81.5	.....	.....	.....	.....	44	.....	168
Southern	10	142	84.0	.....	.....	.....	.....	.....	.....	142
Total	35	742	83.1	.....	.....	.....	.....	56	.....	686
1912.										
Eastern	6	120	82.8	.....	.....	.....	.....	12	.....	108
Pittsburgh	9	286	80.5	.....	36	.....	.....	.....	.....	250
Great Lakes and Middle West	10	270	80.3	.....	.....	.....	.....	84	.....	186
Southern	10	170	81.9	.....	.....	.....	.....	30	.....	140
Total	35	846	81.0	.....	36	.....	.....	126	.....	684
IRON HANDLERS AND LOADERS.										
1907.										
Eastern	2	27	84.0	.....	.....	.....	.....	.....	.....	27
Pittsburgh	1	12	77.0	.....	.....	.....	.....	.....	12	.....
Great Lakes and Middle West	1	18	79.3	.....	.....	.....	6	.....	.....	12
Southern	5	146	70.1	.....	.....	.....	116	.....	.....	30
Total	9	203	73.2	.....	.....	.....	122	.....	12	69
1908.										
Eastern	2	27	80.9	.....	.....	.....	6	.....	.....	21
Pittsburgh	1	14	77.0	.....	.....	.....	.....	.....	14	.....
Great Lakes and Middle West	1	16	81.4	.....	.....	.....	3	.....	.....	13
Southern	5	106	69.3	.....	.....	.....	88	.....	.....	18
Total	9	163	73.0	.....	.....	.....	97	.....	14	52
1909.										
Eastern	2	37	80.6	.....	.....	.....	9	.....	.....	28
Pittsburgh	1	18	77.0	.....	.....	.....	.....	.....	18	.....
Great Lakes and Middle West	1	17	81.5	.....	.....	.....	3	.....	.....	14
Southern	5	170	70.9	.....	.....	.....	126	.....	.....	44
Total	9	242	73.6	.....	.....	.....	138	.....	18	86
1910.										
Eastern	4	64	79.6	.....	.....	.....	20	.....	.....	44
Pittsburgh	2	28	79.5	.....	.....	.....	.....	.....	18	10
Great Lakes and Middle West	3	68	72.5	.....	.....	.....	56	.....	.....	12
Southern	9	145	71.6	.....	.....	.....	103	.....	.....	42
Total	18	305	74.2	.....	.....	.....	179	.....	18	108
1911.										
Eastern	4	57	79.6	.....	.....	.....	13	.....	.....	44
Pittsburgh	2	22	73.9	.....	.....	4	.....	.....	18	.....
Great Lakes and Middle West	4	70	72.8	.....	.....	.....	56	.....	.....	14
Southern	9	159	70.5	.....	.....	.....	120	.....	.....	39
Total	19	308	73.0	.....	.....	4	189	.....	18	97
1912.										
Eastern	4	62	79.3	.....	.....	.....	16	.....	.....	46
Pittsburgh	2	32	77.1	.....	.....	4	.....	.....	18	10
Great Lakes and Middle West	4	69	74.5	.....	.....	.....	47	.....	.....	22
Southern	9	196	68.4	.....	.....	24	116	36	.....	20
Total	19	359	72.2	.....	.....	28	179	36	18	98

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

PIG-MACHINE MEN.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60.	Over 60 and under 72	72	Over 72 and under 84	84
1907.										
Eastern										
Pittsburgh	4	124	84.0							124
Great Lakes and Middle West	4	52	84.0							52
Southern	1	17	84.0							17
Total	9	193	84.0							193
1908.										
Eastern										
Pittsburgh	4	98	83.8						3	95
Great Lakes and Middle West	4	45	84.0							45
Southern	1	14	84.0							14
Total	9	157	83.9						3	154
1909.										
Eastern										
Pittsburgh	4	103	84.0							103
Great Lakes and Middle West	4	44	83.5						3	41
Southern	1	5	84.0							5
Total	9	152	83.9						3	149
1910.										
Eastern	1	16	84.0							16
Pittsburgh	7	136	84.0							136
Great Lakes and Middle West	6	105	83.6			1	1			103
Southern	2	34	84.0							34
Total	16	291	83.9			1	1			289
1911.										
Eastern	1	15	72.0					15		
Pittsburgh	7	150	84.0							150
Great Lakes and Middle West	7	81	81.0			1		18		62
Southern	2	21	84.0							21
Total	17	267	82.4			1		33		233
1912.										
Eastern	1	17	72.0					17		
Pittsburgh	7	153	84.0							153
Great Lakes and Middle West	7	85	79.5			1		30		54
Southern	2	20	84.0							20
Total	17	275	81.9			1		47		227

CINDER MEN.

1907.										
Eastern	2	6	84.0							6
Pittsburgh	6	110	84.0							110
Great Lakes and Middle West	6	110	83.5						27	83
Southern	6	36	82.4				4			32
Total	20	262	83.6				4		27	231
1908.										
Eastern	2	5	82.6						1	4
Pittsburgh	6	99	82.9				8			91
Great Lakes and Middle West	6	102	82.9				5		23	74
Southern	6	39	81.5				7			32
Total	20	245	82.6				20		24	201

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

CINDER MEN—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1909.										
Eastern	2	5	84.0	.....	.....	.....	.....	.....	.....	5
Pittsburgh	6	200	82.0	.....	.....	3	18	.....	7	172
Great Lakes and Middle West	6	127	82.4	.....	.....	.....	9	.....	41	77
Southern	6	48	82.3	.....	.....	.....	6	.....	.....	42
Total	20	380	82.2	.....	.....	3	33	.....	48	296
1910.										
Eastern	5	40	83.3	.....	.....	.....	2	.....	.....	38
Pittsburgh	8	169	81.6	.....	.....	1	27	.....	.....	141
Great Lakes and Middle West	9	226	83.8	.....	.....	.....	1	.....	20	205
Southern	10	47	82.8	.....	.....	.....	4	.....	.....	43
Total	32	482	82.9	.....	.....	1	34	.....	20	427
1911.										
Eastern	5	32	82.1	.....	.....	.....	1	4	.....	27
Pittsburgh	7	112	82.2	.....	.....	.....	10	2	6	94
Great Lakes and Middle West	10	142	80.1	.....	.....	.....	16	29	.....	97
Southern	10	47	82.2	.....	.....	.....	6	.....	.....	41
Total	32	333	81.3	.....	.....	.....	33	35	6	259
1912.										
Eastern	5	26	81.6	.....	.....	.....	1	4	.....	21
Pittsburgh	7	172	68.8	.....	68	23	10	1	.....	70
Great Lakes and Middle West	10	137	79.5	.....	.....	1	28	19	1	88
Southern	10	62	80.5	.....	.....	.....	5	12	.....	45
Total	32	397	75.2	.....	68	24	44	36	1	224

LABORERS.

1907.										
Eastern	2	93	66.9	.....	.....	32	56	1	.....	4
Pittsburgh	6	374	78.1	.....	.....	60	40	.....	27	247
Great Lakes and Middle West	6	229	77.4	.....	.....	14	73	.....	25	117
Southern	6	261	74.3	.....	.....	.....	181	.....	.....	80
Total	20	957	75.8	.....	.....	106	350	1	52	448
1908.										
Eastern	2	77	64.6	.....	.....	43	32	.....	.....	2
Pittsburgh	6	286	73.8	.....	.....	76	33	.....	84	93
Great Lakes and Middle West	6	189	75.8	.....	.....	23	61	.....	25	80
Southern	6	166	71.7	.....	.....	.....	146	.....	.....	20
Total	20	718	72.8	.....	.....	142	272	.....	109	195
1909.										
Eastern	2	87	69.1	.....	.....	11	72	.....	.....	4
Pittsburgh	6	227	75.5	.....	.....	39	43	15	28	102
Great Lakes and Middle West	6	257	73.3	.....	.....	44	111	.....	25	77
Southern	6	186	71.3	.....	.....	8	152	.....	.....	26
Total	20	757	73.0	.....	.....	102	378	15	53	209

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Concluded.

BLAST FURNACES—Continued.

LABORERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.										
Eastern	6	399	76.3	.....	.....	52	101	2	233	11
Pittsburgh	9	309	75.6	.....	.....	65	34	24	47	139
Great Lakes and Middle West	9	410	73.5	.....	.....	115	100	.....	18	177
Southern	10	305	73.3	.....	.....	37	169	.....	.....	99
Total	34	1,423	74.7	.....	.....	269	404	26	298	426
1911.										
Eastern	6	135	69.1	.....	.....	41	67	2	3	22
Pittsburgh	9	301	75.6	.....	.....	73	32	7	38	151
Great Lakes and Middle West	10	224	72.3	.....	.....	81	19	19	31	74
Southern	10	277	73.7	.....	.....	2	170	.....	62	43
Total	35	937	73.3	.....	.....	197	288	28	134	290
1912.										
Eastern	6	99	68.0	.....	.....	38	37	4	10	10
Pittsburgh	9	284	77.7	.....	.....	11	71	27	23	152
Great Lakes and Middle West	10	275	71.0	.....	.....	113	21	42	13	86
Southern	10	303	72.3	.....	.....	30	173	8	46	46
Total	35	961	73.1	.....	.....	192	302	81	92	294

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912.

BLAST FURNACES—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

STOCKERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:										
1 plant	1907	8	70.0	.....	.....	.....	8	.....	.....	.....
	1908	8	70.0	.....	.....	.....	8	.....	.....	.....
	1909	11	70.0	.....	.....	.....	11	.....	.....	.....
	1910	10	70.0	.....	.....	.....	10	.....	.....	.....
5 plants	1910	165	77.9	.....	.....	12	43	10	.....	100
	1911	86	73.1	.....	.....	14	35	9	.....	28
	1912	78	68.7	.....	11	14	23	19	.....	11
Pittsburgh:										
5 plants	1907	498	81.4	.....	.....	14	14	.....	105	365
	1908	247	78.1	.....	.....	.....	69	.....	70	108
	1909	454	80.0	.....	.....	.....	34	.....	224	196
	1910	514	81.1	1	.....	.....	4	16	171	322
8 plants	1910	688	81.2	1	.....	.....	33	20	171	463
	1911	503	80.8	.....	12	3	12	25	140	311
	1912	606	80.5	1	.....	8	14	26	244	313
Great Lakes and Middle West:										
6 plants	1907	246	82.2	.....	.....	.....	31	.....	.....	215
	1908	146	80.7	.....	.....	4	28	.....	.....	114
	1909	161	83.5	.....	.....	.....	6	.....	.....	155
	1910	275	81.6	.....	.....	.....	45	.....	12	218
9 plants	1910	416	79.3	.....	.....	.....	138	.....	12	266
	1911	195	79.7	.....	.....	4	32	25	.....	134
10 plants	1911	210	79.5	.....	.....	8	32	25	.....	145
	1912	248	77.9	.....	.....	4	33	79	.....	132
Southern:										
6 plants	1907	72	79.9	.....	.....	.....	21	.....	.....	51
	1908	72	80.5	.....	.....	.....	18	.....	.....	54
	1909	111	81.5	.....	.....	.....	20	.....	.....	91
	1910	105	79.9	.....	.....	.....	11	.....	39	55
10 plants	1910	176	78.6	.....	.....	.....	49	.....	39	88
	1911	114	80.4	.....	.....	.....	28	.....	2	84
9 plants	1911	105	80.1	.....	.....	.....	28	.....	2	75
	1912	113	77.5	.....	.....	.....	42	12	.....	59

BOTTOM FILLERS.

Eastern:										
2 plants	1907	100	84.0	.....	.....	.....	.....	.....	.....	100
	1908	60	84.0	.....	.....	.....	.....	.....	.....	60
	1909	100	84.0	.....	.....	.....	.....	.....	.....	100
	1910	100	84.0	.....	.....	.....	.....	.....	.....	100
4 plants	1910	398	84.0	.....	.....	.....	.....	.....	.....	398
	1911	212	84.0	.....	.....	.....	.....	.....	.....	212
	1912	166	84.0	.....	.....	.....	.....	.....	.....	166
Pittsburgh:										
1 plant	1907	28	84.0	.....	.....	.....	.....	.....	.....	28
	1908	28	84.0	.....	.....	.....	.....	.....	.....	28
	1909	30	84.0	.....	.....	.....	.....	.....	.....	30
	1910	30	84.0	.....	.....	.....	.....	.....	.....	30
2 plants	1910	46	84.0	.....	.....	.....	.....	.....	.....	46
	1911	42	84.0	.....	.....	.....	.....	.....	.....	42
	1912	44	84.0	.....	.....	.....	.....	.....	.....	44

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BOTTOM FILLERS—Concluded.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Great Lakes and Middle West:										
2 plants	1907	93	84.0	.....	.....	.....	.....	.....	.....	93
	1908	58	84.0	.....	.....	.....	.....	.....	.....	58
	1909	58	84.0	.....	.....	.....	.....	.....	.....	58
	1910	100	84.0	.....	.....	.....	.....	.....	.....	100
3 plants	1910	130	84.0	.....	.....	.....	.....	.....	.....	130
	1911	64	84.0	.....	.....	.....	.....	.....	.....	64
4 plants	1911	90	84.0	.....	.....	.....	.....	.....	.....	90
	1912	129	84.0	.....	.....	.....	.....	.....	.....	129
Southern:										
2 plants	1907	72	84.0	.....	.....	.....	.....	.....	.....	72
	1908	48	84.0	.....	.....	.....	.....	.....	.....	48
	1909	94	84.0	.....	.....	.....	.....	.....	.....	94
	1910	37	84.0	.....	.....	.....	.....	.....	.....	37
5 plants	1910	98	84.0	.....	.....	.....	.....	.....	.....	98
	1911	73	84.0	.....	.....	.....	.....	.....	.....	73
	1912	129	77.6	.....	.....	.....	.....	69	.....	60
TOP FILLERS.										
Eastern:										
2 plants	1907	10	84.0	.....	.....	.....	.....	.....	.....	10
	1908	8	84.0	.....	.....	.....	.....	.....	.....	8
	1909	10	84.0	.....	.....	.....	.....	.....	.....	10
	1910	10	84.0	.....	.....	.....	.....	.....	.....	10
4 plants	1910	85	84.0	.....	.....	.....	.....	.....	.....	85
	1911	36	84.0	.....	.....	.....	.....	.....	.....	36
	1912	22	84.0	.....	.....	.....	.....	.....	.....	22
Pittsburgh:										
1 plant	1907	8	84.0	.....	.....	.....	.....	.....	.....	8
	1908	6	84.0	.....	.....	.....	.....	.....	.....	6
	1909	6	84.0	.....	.....	.....	.....	.....	.....	6
	1910	6	84.0	.....	.....	.....	.....	.....	.....	6
	1911	6	84.0	.....	.....	.....	.....	.....	.....	6
	1912	6	84.0	.....	.....	.....	.....	.....	.....	6
Great Lakes and Middle West:										
2 plants	1907	18	84.0	.....	.....	.....	.....	.....	.....	18
	1908	12	84.0	.....	.....	.....	.....	.....	.....	12
	1909	12	84.0	.....	.....	.....	.....	.....	.....	12
	1910	18	84.0	.....	.....	.....	.....	.....	.....	18
2 plants	1910	18	74.7	.....	6	.....	.....	.....	.....	12
	1911	12	70.0	.....	6	.....	.....	.....	.....	6
3 plants	1911	20	75.6	.....	6	.....	.....	.....	.....	14
	1912	30	78.4	.....	6	.....	.....	.....	.....	24
Southern:										
3 plants	1907	30	84.0	.....	.....	.....	.....	.....	.....	30
	1908	18	84.0	.....	.....	.....	.....	.....	.....	18
	1909	22	84.0	.....	.....	.....	.....	.....	.....	22
	1910	14	84.0	.....	.....	.....	.....	.....	.....	14
6 plants	1910	33	84.0	.....	.....	.....	.....	.....	.....	33
	1911	30	84.0	.....	.....	.....	.....	.....	.....	30
	1912	38	78.3	.....	.....	.....	.....	18	.....	20

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

LARRY MEN.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eas ern:										
2 plants	1910	4	84.0	.....	.....	.....	.....	.....	.....	4
	1911	4	78.0	.....	.....	.....	.....	2	.....	2
	1912	6	76.0	.....	.....	.....	.....	4	.....	2
Pittsburgh:										
4 plants	1907	52	84.0	.....	.....	.....	.....	.....	.....	52
	1908	26	84.0	.....	.....	.....	.....	.....	.....	26
	1909	64	84.0	.....	.....	.....	.....	.....	.....	64
	1910	58	84.0	.....	.....	.....	.....	.....	.....	58
8 plants	1910	122	84.0	.....	.....	.....	.....	.....	.....	122
	1911	122	84.0	.....	.....	.....	.....	.....	.....	122
	1912	142	76.9	.....	36	.....	.....	.....	.....	106
Great Lakes and Middle West:										
4 plants	1907	56	84.0	.....	.....	.....	.....	.....	.....	56
	1908	38	84.0	.....	.....	.....	.....	.....	.....	38
	1909	53	84.0	.....	.....	.....	.....	.....	.....	53
	1910	64	84.0	.....	.....	.....	.....	.....	.....	64
6 plants	1910	72	84.0	.....	.....	.....	.....	.....	.....	72
	1911	55	80.3	.....	.....	.....	.....	17	.....	38
	1912	65	78.6	.....	.....	.....	.....	29	.....	36
Southern:										
3 plants	1907	24	84.0	.....	.....	.....	.....	.....	.....	24
	1908	22	84.0	.....	.....	.....	.....	.....	.....	22
	1909	18	84.0	.....	.....	.....	.....	.....	.....	18
	1910	27	84.0	.....	.....	.....	.....	.....	.....	27
5 plants	1910	33	84.0	.....	.....	.....	.....	.....	.....	33
	1911	22	84.0	.....	.....	.....	.....	.....	.....	22
	1912	24	84.0	.....	.....	.....	.....	.....	.....	24

LARRY MEN'S HELPERS.

Eastern:										
1 plant	1910	2	84.0	.....	.....	.....	.....	.....	.....	2
	1911	2	72.0	.....	.....	.....	.....	2	.....	.....
	1912	4	72.0	.....	.....	.....	.....	4	.....	.....
Pittsburgh:										
4 plants	1907	48	84.0	.....	.....	.....	.....	.....	.....	48
	1908	24	84.0	.....	.....	.....	.....	.....	.....	24
	1909	60	84.0	.....	.....	.....	.....	.....	.....	60
	1910	56	84.0	.....	.....	.....	.....	.....	.....	56
8 plants	1910	167	84.0	.....	.....	.....	.....	.....	.....	167
	1911	216	84.0	.....	.....	.....	.....	.....	.....	216
	1912	248	79.9	.....	36	.....	.....	.....	.....	212
Great Lakes and Middle West:										
4 plants	1907	57	84.0	.....	.....	.....	.....	.....	.....	57
	1908	45	84.0	.....	.....	.....	.....	.....	.....	45
	1909	63	84.0	.....	.....	.....	.....	.....	.....	63
	1910	70	84.0	.....	.....	.....	.....	.....	.....	70
5 plants	1910	76	84.0	.....	.....	.....	.....	.....	.....	76
	1911	54	76.9	.....	.....	.....	.....	32	.....	22
	1912	67	77.0	.....	.....	.....	.....	39	.....	28
Southern:										
2 plants	1907	10	84.0	.....	.....	.....	.....	.....	.....	10
	1908	10	84.0	.....	.....	.....	.....	.....	.....	10
	1909	12	84.0	.....	.....	.....	.....	.....	.....	12
	1910	8	84.0	.....	.....	.....	.....	.....	.....	8
5 plants	1910	33	84.0	.....	.....	.....	.....	.....	.....	33
	1911	22	84.0	.....	.....	.....	.....	.....	.....	22
	1912	24	84.0	.....	.....	.....	.....	.....	.....	24

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

SKIP OPERATORS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:										
2 plants	1910	4	84.0							4
	1911	4	78.0					2		2
	1912	6	76.0					4		2
Pittsburgh:										
5 plants	1907	54	84.0							54
	1908	38	84.0							38
	1909	62	84.0							62
	1910	56	84.0							56
8 plants	1910	70	84.0							70
	1911	76	84.0							76
	1912	76	77.4		18					58
Great Lakes and Middle West:										
3 plants	1907	20	84.0							20
	1908	14	84.0							14
	1909	18	84.0							18
	1910	22	84.0							22
5 plants	1910	30	84.0							30
	1911	26	84.0							26
	1912	34	81.2					8		26
Southern:										
3 plants	1907	12	84.0							12
	1908	12	84.0							12
	1909	14	84.0							14
	1910	19	84.0							19
4 plants	1910	21	84.0							21
	1911	18	84.0							18
	1912	20	84.0							20

BLOWERS.

Eastern:										
2 plants	1907	4	84.0							4
	1908	4	84.0							4
	1909	4	84.0							4
	1910	4	84.0							4
6 plants	1910	17	79.8			3				14
	1911	16	81.8					3		13
	1912	16	81.8					3		13
Pittsburgh:										
5 plants	1907	26	84.0							26
	1908	23	84.0							23
	1909	31	84.0							31
	1910	33	84.0							33
8 plants	1910	45	84.0							45
	1911	43	84.0							43
	1912	48	78.8		9					39
Great Lakes and Middle West:										
5 plants	1907	29	84.0							29
	1908	21	84.0							21
	1909	25	84.0							25
	1910	32	84.0							32
8 plants	1910	40	84.0							40
	1911	34	81.2					8		26
9 plants	1911	36	81.3					8		28
	1912	38	80.2					12		26

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BLOWERS—Concluded.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Southern:										
6 plants	1907	19	84.0	.....	.....	.....	.....	.....	.....	19
	1908	20	84.0	.....	.....	.....	.....	.....	.....	20
	1909	26	84.0	.....	.....	.....	.....	.....	.....	26
	1910	21	84.0	.....	.....	.....	.....	.....	.....	21
10 plants	1910	29	84.0	.....	.....	.....	.....	.....	.....	29
	1911	28	84.0	.....	.....	.....	.....	.....	.....	28
	1912	30	81.6	.....	.....	.....	.....	6	.....	24
BLOWING ENGINEERS.										
Eastern:										
2 plants	1907	6	84.0	.....	.....	.....	.....	.....	.....	6
	1908	4	84.0	.....	.....	.....	.....	.....	.....	4
	1909	6	84.0	.....	.....	.....	.....	.....	.....	6
	1910	6	84.0	.....	.....	.....	.....	.....	.....	6
6 plants	1910	19	84.0	.....	.....	.....	.....	.....	.....	19
	1911	14	82.3	.....	.....	.....	.....	2	.....	12
	1912	16	82.5	.....	.....	.....	.....	2	.....	14
Pittsburgh:										
6 plants	1907	32	84.0	.....	.....	.....	.....	.....	.....	32
	1908	30	84.0	.....	.....	.....	.....	.....	.....	30
	1909	36	84.0	.....	.....	.....	.....	.....	.....	36
	1910	34	84.0	.....	.....	.....	.....	.....	.....	34
9 plants	1910	46	84.0	.....	.....	.....	.....	.....	.....	46
	1911	44	84.0	.....	.....	.....	.....	.....	.....	44
	1912	46	80.3	.....	6	.....	.....	.....	.....	40
Great Lakes and Middle West:										
6 plants	1907	42	84.0	.....	.....	.....	.....	.....	.....	42
	1908	33	84.0	.....	.....	.....	.....	.....	.....	33
	1909	41	84.0	.....	.....	.....	.....	.....	.....	41
	1910	56	84.0	.....	.....	.....	.....	.....	.....	56
9 plants	1910	64	84.0	.....	.....	.....	.....	.....	.....	64
	1911	53	82.0	.....	.....	.....	.....	9	.....	44
10 plants	1911	55	81.6	.....	.....	.....	.....	11	.....	44
	1912	54	80.0	.....	.....	.....	.....	18	.....	36
Southern:										
6 plants	1907	20	84.0	.....	.....	.....	.....	.....	.....	20
	1908	18	84.0	.....	.....	.....	.....	.....	.....	18
	1909	20	84.0	.....	.....	.....	.....	.....	.....	20
	1910	16	84.0	.....	.....	.....	.....	.....	.....	16
10 plants	1910	24	84.0	.....	.....	.....	.....	.....	.....	24
	1911	24	84.0	.....	.....	.....	.....	.....	.....	24
	1912	26	81.2	.....	.....	.....	.....	6	.....	20
BLOWING ENGINEERS' ASSISTANTS.										
Eastern:										
1 plant	1907	2	84.0	.....	.....	.....	.....	.....	.....	2
	1908	2	84.0	.....	.....	.....	.....	.....	.....	2
	1909	2	84.0	.....	.....	.....	.....	.....	.....	2
	1910	2	84.0	.....	.....	.....	.....	.....	.....	2
3 plants	1910	8	84.0	.....	.....	.....	.....	.....	.....	8
	1911	6	80.0	.....	.....	.....	.....	2	.....	4
	1912	6	80.0	.....	.....	.....	.....	2	.....	4

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

BLOWING ENGINEERS' ASSISTANTS—Concluded.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:										
5 plants	1907	43	84.0	.....	.....	.....	.....	.....	.....	43
	1908	29	84.0	.....	.....	.....	.....	.....	.....	29
	1909	46	84.0	.....	.....	.....	.....	.....	.....	46
	1910	38	84.0	.....	.....	.....	.....	.....	.....	38
8 plants	1910	54	84.0	.....	.....	.....	.....	.....	.....	54
	1911	58	84.0	.....	.....	.....	.....	.....	.....	58
	1912	69	80.3	.....	9	.....	.....	.....	.....	60
Great Lakes and Middle West:										
3 plants	1907	16	84.0	.....	.....	.....	.....	.....	.....	16
	1908	14	84.0	.....	.....	.....	.....	.....	.....	14
	1909	16	84.0	.....	.....	.....	.....	.....	.....	16
	1910	20	84.0	.....	.....	.....	.....	.....	.....	20
	1911	12	80.0	.....	.....	.....	.....	4	.....	8
	1912	15	80.0	.....	.....	.....	.....	5	.....	10
Southern:										
2 plants	1907	6	84.0	.....	.....	.....	.....	.....	.....	6
	1908	6	84.0	.....	.....	.....	.....	.....	.....	6
	1909	10	84.0	.....	.....	.....	.....	.....	.....	10
	1910	6	84.0	.....	.....	.....	.....	.....	.....	6
4 plants	1910	12	84.0	.....	.....	.....	.....	.....	.....	12
	1911	15	84.0	.....	.....	.....	.....	.....	.....	15
	1912	18	81.3	.....	.....	.....	.....	4	.....	14

STOVE TENDERS.

Eastern:										
2 plants	1907	6	84.0	.....	.....	.....	.....	.....	.....	6
	1908	4	84.0	.....	.....	.....	.....	.....	.....	4
	1909	6	84.0	.....	.....	.....	.....	.....	.....	6
	1910	6	84.0	.....	.....	.....	.....	.....	.....	6
6 plants	1910	24	84.0	.....	.....	.....	.....	.....	.....	24
	1911	20	81.6	.....	.....	.....	.....	4	.....	16
	1912	20	81.6	.....	.....	.....	.....	4	.....	16
Pittsburgh:										
6 plants	1907	60	84.0	.....	.....	.....	.....	.....	.....	60
	1908	40	84.0	.....	.....	.....	.....	.....	.....	40
	1909	64	84.0	.....	.....	.....	.....	.....	.....	64
	1910	58	84.0	.....	.....	.....	.....	.....	.....	58
9 plants	1910	76	84.0	.....	.....	.....	.....	.....	.....	76
	1911	82	84.0	.....	.....	.....	.....	.....	.....	82
	1912	92	78.5	.....	18	.....	.....	.....	.....	74
Great Lakes and Middle West:										
6 plants	1907	50	84.0	.....	.....	.....	.....	.....	.....	50
	1908	34	84.0	.....	.....	.....	.....	.....	.....	34
	1909	45	84.0	.....	.....	.....	.....	.....	.....	45
	1910	54	84.0	.....	.....	.....	.....	.....	.....	54
9 plants	1910	64	84.0	.....	.....	.....	.....	.....	.....	64
	1911	46	79.8	.....	.....	.....	.....	16	.....	30
10 plants	1911	48	80.0	.....	.....	.....	.....	16	.....	32
	1912	64	78.8	.....	.....	.....	.....	28	.....	36
Southern:										
6 plants	1907	24	84.0	.....	.....	.....	.....	.....	.....	24
	1908	18	84.0	.....	.....	.....	.....	.....	.....	18
	1909	25	84.0	.....	.....	.....	.....	.....	.....	25
	1910	28	84.0	.....	.....	.....	.....	.....	.....	28
10 plants	1910	36	84.0	.....	.....	.....	.....	.....	.....	36
	1911	30	84.0	.....	.....	.....	.....	.....	.....	30
	1912	36	82.0	.....	.....	.....	.....	6	.....	30

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

KEEPERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:										
2 plants	1907	6	84.0	.....	.....	.....	.....	.....	.....	6
	1908	4	84.0	.....	.....	.....	.....	.....	.....	4
	1909	6	84.0	.....	.....	.....	.....	.....	.....	6
	1910	6	84.0	.....	.....	.....	.....	.....	.....	6
6 plants	1910	29	84.0	.....	.....	.....	.....	.....	.....	29
	1911	20	81.6	.....	.....	.....	.....	4	.....	16
	1912	20	81.6	.....	.....	.....	.....	4	.....	16
Pittsburgh:										
6 plants	1907	60	84.0	.....	.....	.....	.....	.....	.....	60
	1908	38	84.0	.....	.....	.....	.....	.....	.....	38
	1909	64	84.0	.....	.....	.....	.....	.....	.....	64
	1910	58	84.0	.....	.....	.....	.....	.....	.....	58
9 plants	1910	76	84.0	.....	.....	.....	.....	.....	.....	76
	1911	82	84.0	.....	.....	.....	.....	.....	.....	82
	1912	92	78.5	.....	18	.....	.....	.....	.....	74
Great Lakes and Middle West:										
6 plants	1907	52	84.0	.....	.....	.....	.....	.....	.....	52
	1908	34	84.0	.....	.....	.....	.....	.....	.....	34
	1909	45	84.0	.....	.....	.....	.....	.....	.....	45
	1910	55	84.0	.....	.....	.....	.....	.....	.....	55
9 plants	1910	65	84.0	.....	.....	.....	.....	.....	.....	65
	1911	50	80.2	.....	.....	.....	.....	16	.....	34
10 plants	1911	52	80.3	.....	.....	.....	.....	16	.....	36
	1912	68	79.1	.....	.....	.....	.....	28	.....	40
Southern:										
6 plants	1907	28	84.0	.....	.....	.....	.....	.....	.....	28
	1908	20	84.0	.....	.....	.....	.....	.....	.....	20
	1909	26	84.0	.....	.....	.....	.....	.....	.....	26
	1910	23	84.0	.....	.....	.....	.....	.....	.....	23
10 plants	1910	31	84.0	.....	.....	.....	.....	.....	.....	31
	1911	30	84.0	.....	.....	.....	.....	.....	.....	30
	1912	36	82.0	.....	.....	.....	.....	6	.....	30

KEEPERS' HELPERS.

Eastern:										
2 plants	1907	52	84.0	.....	.....	.....	.....	.....	.....	52
	1908	32	84.0	.....	.....	.....	.....	.....	.....	32
	1909	54	84.0	.....	.....	.....	.....	.....	.....	54
	1910	56	84.0	.....	.....	.....	.....	.....	.....	56
6 plants	1910	162	84.0	.....	.....	.....	.....	.....	.....	162
	1911	120	82.8	.....	.....	.....	.....	12	.....	108
	1912	120	82.8	.....	.....	.....	.....	12	.....	108
Pittsburgh:										
6 plants	1907	202	84.0	.....	.....	.....	.....	.....	.....	202
	1908	135	84.0	.....	.....	.....	.....	.....	.....	135
	1909	218	84.0	.....	.....	.....	.....	.....	.....	218
	1910	194	84.0	.....	.....	.....	.....	.....	.....	194
9 plants	1910	264	84.0	.....	.....	.....	.....	.....	.....	264
	1911	268	84.0	.....	.....	.....	.....	.....	.....	268
	1912	286	80.5	.....	36	.....	.....	.....	.....	250
Great Lakes and Middle West:										
6 plants	1907	222	84.0	.....	.....	.....	.....	.....	.....	222
	1908	146	84.0	.....	.....	.....	.....	.....	.....	146
	1909	181	84.0	.....	.....	.....	.....	.....	.....	181
	1910	234	84.0	.....	.....	.....	.....	.....	.....	234
9 plants	1910	299	84.0	.....	.....	.....	.....	.....	.....	299
	1911	204	81.4	.....	.....	.....	.....	44	.....	160
10 plants	1911	212	81.5	.....	.....	.....	.....	44	.....	168
	1912	270	80.3	.....	.....	.....	.....	84	.....	186

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

KEEPERS' HELPERS—Concluded.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Southern:										
6 plants	1907	140	84.0	.....	.....	.....	.....	.....	.....	140
	1908	96	84.0	.....	.....	.....	.....	.....	.....	96
	1909	143	84.0	.....	.....	.....	.....	.....	.....	143
	1910	124	84.0	.....	.....	.....	.....	.....	.....	124
10 plants	1910	152	84.0	.....	.....	.....	.....	.....	.....	152
	1911	142	84.0	.....	.....	.....	.....	.....	.....	142
	1912	170	81.9	.....	.....	.....	.....	30	.....	140
IRON HANDLERS AND LOADERS.										
Eastern:										
2 plants	1907	27	84.0	.....	.....	.....	.....	.....	.....	27
	1908	27	80.9	.....	.....	.....	6	.....	.....	21
	1909	37	80.6	.....	.....	.....	9	.....	.....	28
	1910	35	80.4	.....	.....	.....	9	.....	.....	26
4 plants	1910	64	79.6	.....	.....	.....	20	.....	.....	44
	1911	57	79.6	.....	.....	.....	13	.....	.....	44
	1912	62	79.3	.....	.....	.....	16	.....	.....	46
Pittsburgh:										
1 plant	1907	12	77.0	.....	.....	.....	.....	.....	12	.....
	1908	14	77.0	.....	.....	.....	.....	.....	14	.....
	1909	18	77.0	.....	.....	.....	.....	.....	18	.....
	1910	18	77.0	.....	.....	.....	.....	.....	18	.....
2 plants	1910	28	79.5	.....	.....	.....	.....	.....	18	10
	1911	22	73.9	.....	.....	4	.....	.....	18	.....
	1912	32	77.1	.....	.....	4	.....	.....	18	10
Great Lakes and Middle West:										
1 plant	1907	18	79.3	.....	.....	.....	6	.....	.....	12
	1908	16	81.4	.....	.....	.....	3	.....	.....	13
	1909	17	81.5	.....	.....	.....	3	.....	.....	14
	1910	18	79.3	.....	.....	.....	6	.....	.....	12
3 plants	1910	68	72.5	.....	.....	.....	56	.....	.....	12
	1911	62	71.4	.....	.....	.....	56	.....	.....	6
4 plants	1911	70	72.8	.....	.....	.....	56	.....	.....	14
	1912	69	74.5	.....	.....	.....	47	.....	.....	22
Southern:										
5 plants	1907	146	70.1	.....	.....	.....	116	.....	.....	30
	1908	106	69.3	.....	.....	.....	88	.....	.....	18
	1909	170	70.9	.....	.....	.....	126	.....	.....	44
	1910	106	68.8	.....	.....	.....	90	.....	.....	16
9 plants	1910	145	71.6	.....	.....	.....	103	.....	.....	42
	1911	159	70.5	.....	.....	.....	120	.....	.....	39
	1912	196	68.4	.....	.....	24	116	36	.....	20
PIG-MACHINE MEN.										
Eastern:										
1 plant	1910	16	84.0	.....	.....	.....	.....	.....	.....	16
	1911	15	72.0	.....	.....	.....	.....	15	.....	.....
	1912	17	72.0	.....	.....	.....	.....	17	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BLAST FURNACES—Continued.

PIG-MACHINE MEN—Concluded.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:										
4 plants	1907	124	84.0	.....	.....	.....	.....	.....	.....	124
	1908	98	83.8	.....	.....	.....	.....	.....	3	95
	1909	103	84.0	.....	.....	.....	.....	.....	.....	103
	1910	81	84.0	.....	.....	.....	.....	.....	.....	81
7 plants	1910	136	84.0	.....	.....	.....	.....	.....	.....	136
	1911	150	84.0	.....	.....	.....	.....	.....	.....	150
	1912	153	84.0	.....	.....	.....	.....	.....	.....	153
Great Lakes and Middle West:										
4 plants	1907	52	84.0	.....	.....	.....	.....	.....	.....	52
	1908	45	84.0	.....	.....	.....	.....	.....	.....	45
	1909	44	83.5	.....	.....	.....	.....	.....	3	41
	1910	71	83.5	.....	.....	1	1	.....	.....	69
6 plants	1910	105	83.6	.....	.....	1	1	.....	.....	103
	1911	73	80.7	.....	.....	1	.....	18	.....	54
7 plants	1911	81	81.0	.....	.....	1	.....	18	.....	62
	1912	85	79.5	.....	.....	1	.....	30	.....	54
Southern:										
1 plant	1907	17	84.0	.....	.....	.....	.....	.....	.....	17
	1908	14	84.0	.....	.....	.....	.....	.....	.....	14
	1909	5	84.0	.....	.....	.....	.....	.....	.....	5
	1910	30	84.0	.....	.....	.....	.....	.....	.....	30
2 plants	1910	34	84.0	.....	.....	.....	.....	.....	.....	34
	1911	21	84.0	.....	.....	.....	.....	.....	.....	21
	1912	20	84.0	.....	.....	.....	.....	.....	.....	20

CINDER MEN.

Eastern:										
2 plants	1907	6	84.0	.....	.....	.....	.....	.....	.....	6
	1908	5	82.6	.....	.....	.....	.....	.....	1	4
	1909	5	84.0	.....	.....	.....	.....	.....	.....	5
	1910	7	84.0	.....	.....	.....	.....	.....	.....	7
5 plants	1910	40	83.3	.....	.....	.....	2	.....	.....	38
	1911	32	82.1	.....	.....	.....	1	4	.....	27
	1912	26	81.6	.....	.....	.....	1	4	.....	21
Pittsburgh:										
6 plants	1907	110	84.0	.....	.....	.....	.....	.....	.....	110
	1908	99	82.9	.....	.....	.....	8	.....	.....	91
	1909	200	82.0	.....	.....	3	18	.....	7	172
	1910	134	81.7	.....	.....	1	20	.....	.....	113
8 plants	1910	169	81.6	.....	.....	1	27	.....	.....	141
	1911	120	82.3	.....	.....	.....	10	2	6	102
7 plants	1911	112	82.2	.....	.....	.....	10	2	6	94
	1912	172	68.8	.....	68	23	10	1	.....	70
Great Lakes and Middle West:										
6 plants	1907	110	83.5	.....	.....	.....	.....	.....	27	83
	1908	102	82.9	.....	.....	.....	5	.....	23	74
	1909	127	82.4	.....	.....	.....	9	.....	41	77
	1910	185	83.8	.....	.....	.....	.....	.....	20	165
9 plants	1910	226	83.8	.....	.....	.....	1	.....	20	205
	1911	140	80.0	.....	.....	.....	16	29	.....	95
10 plants	1911	142	80.1	.....	.....	.....	16	29	.....	97
	1912	137	79.5	.....	.....	1	28	19	1	88

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Concluded.

BLAST FURNACES—Concluded.

CINDER MEN—Concluded.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Southern:										
6 plants	1907	36	82.4	.....	.....	.....	4	.....	.....	32
	1908	39	81.5	.....	.....	.....	7	.....	.....	32
	1909	48	82.3	.....	.....	.....	6	.....	.....	42
	1910	31	82.2	.....	.....	.....	4	.....	.....	27
10 plants	1910	47	82.8	.....	.....	.....	4	.....	.....	43
	1911	47	82.2	.....	.....	.....	6	.....	.....	41
	1912	62	80.5	.....	.....	.....	5	12	.....	45

LABORERS.

Eastern:										
2 plants	1907	93	66.9	.....	.....	32	56	.....	.....	4
	1908	77	64.6	.....	.....	43	32	.....	.....	2
	1909	87	69.1	.....	.....	11	72	.....	.....	4
	1910	104	68.0	.....	.....	.....	99	.....	.....	5
6 plants	1910	399	76.3	.....	.....	52	101	2	233	11
	1911	135	69.1	.....	.....	41	67	2	3	22
	1912	99	68.0	.....	.....	38	37	4	10	10
Pittsburgh:										
6 plants	1907	374	78.1	.....	.....	60	40	.....	27	247
	1908	286	73.8	.....	.....	76	33	.....	84	93
	1909	227	75.5	.....	.....	39	43	15	28	102
	1910	245	74.4	.....	.....	62	29	23	27	104
9 plants	1910	309	75.6	.....	.....	65	34	24	47	139
	1911	301	75.6	.....	.....	73	32	7	38	151
	1912	284	77.7	.....	.....	11	71	27	23	152
Great Lakes and Middle West:										
6 plants	1907	229	77.4	.....	.....	14	73	.....	25	117
	1908	189	75.8	.....	.....	23	61	.....	25	80
	1909	257	73.3	.....	.....	44	111	.....	25	77
	1910	348	73.7	.....	.....	94	86	.....	18	150
9 plants	1910	410	73.5	.....	.....	115	100	.....	18	177
	1911	222	72.2	.....	.....	81	19	19	31	72
10 plants	1911	224	72.3	.....	.....	81	19	19	31	74
	1912	275	71.0	.....	.....	113	21	42	13	86
Southern:										
6 plants	1907	261	74.3	.....	.....	.....	181	.....	.....	80
	1908	166	71.7	.....	.....	.....	146	.....	.....	20
	1909	186	71.3	.....	.....	8	152	.....	.....	26
	1910	205	75.5	.....	.....	3	118	.....	.....	84
10 plants	1910	305	73.3	.....	.....	37	169	.....	.....	99
	1911	277	73.7	.....	.....	2	170	.....	62	43
	1912	303	72.3	.....	.....	30	173	8	46	46

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

BESSEMER CONVERTERS.

SUMMARY.

Summary figures relating to the Bessemer converting department are given with figures for other departments of the iron and steel industry in the introductory summary on pages 7 to 15. An explanation of the scope of the investigation and of the methods employed is given on pages 16 to 22.

Briefly summarized, the average full-time weekly earnings of employees in the Bessemer converting department in 1912 were 4.5 per cent higher than in 1907, 14 per cent higher than in 1908, 7.2 per cent higher than in 1909, 2.6 per cent higher than in 1910, and 7.5 per cent higher than in 1911. The average full-time hours of labor per week were lower in 1912 than in any of the five years preceding except 1908, being 2.2 per cent lower than in 1907, 1.9 per cent lower than in 1909, 2.5 per cent lower than in 1910, and 0.3 per cent lower than in 1911, while they were 2.1 per cent higher than in 1908. The average rate of wages or earnings per hour in 1912 was higher than in any of the five preceding years, being 7 per cent higher than in 1907, 15.1 per cent higher than in 1908, 10.5 per cent higher than in 1909, 5.8 per cent higher than in 1910, and 10.5 per cent higher than in 1911.

The most significant facts concerning the several occupations of the Bessemer converting department are summarized in the table following. Data are presented for the years 1907 to 1912, inclusive, the figures set opposite each bracketed group of years being for identical plants. Referring to the first occupation presented, laborers, direct comparison can be made of data for 9 identical plants from 1907 to 1910, and for 10 from 1910 to 1912. The first line of the table is analyzed as follows: In 1907 the 9 Bessemer converters from which reports were obtained employed 801 laborers, whose average full-time hours of work were 78 per week. For 3.2 per cent of the 801 laborers the full-time hours per week were over 48 and under 72; for 21.5 per cent, 72; for 33.2 per cent, over 72 and under 84; and for 42.1 per cent, 84 hours. The average rate of wages or earnings per hour of laborers in the year considered (1907) was $0.155. Of the total number 71.3 per cent received 14 and under 16 cents per hour, and 28.7 per cent, 16 and under 18 cents per hour. The average full-time weekly earnings

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

were $12.12. The other lines of the table may be read in the same manner.

Referring to the last column of the table it is seen that in 9 identical plants the average full-time weekly earnings of laborers was $12.12 in 1907. In the next two years there were drops to $11.80 and $11.62, respectively, and in 1910 an advance to $12.69. In the 10 identical plants reporting for 1910, 1911, and 1912 the average for 1910 was also $12.69. There was a decrease to $12.39 in 1911 and an increase to $12.64 in 1912. Despite the fact that the two reports for 1910 are the same, it would not be an accurate comparison, however, to state that earnings increased from $12.12 in 1907 to $12.64 in 1912, because one more plant is concerned in the 1912 average than in that for 1907. The other items in the table should be studied with like care.

Comparing the average full-time weekly earnings for 1912 of the several occupations, it is seen that the lowest average was that of laborers, which was $12.64. The averages of 13 of the 19 occupations reported for this department, however, were from 50 per cent to over 200 per cent higher, the highest being that of vessel men, which was $38.32 in 1912.

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BESSEMER CONVERTERS.

[The figures set opposite each bracketed group of years are for identical plants.]

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 72	72	Over 72 and under 84	84		12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 cents and over.	
Laborers:														
9 plants	1907	801	78.0	.....	3.2	21.5	33.2	42.1	$0.155	.....	71.3	28.7	.....	$12.12
	1908	425	76.2	.....	13.6	30.8	21.9	33.6	.155	.....	76.9	23.1	.....	11.80
	1909	564	76.9	.....	6.1	25.0	39.2	29.6	.151	16.3	54.8	28.9	.....	11.62
	1910	748	78.1	.....	4.6	32.4	20.3	[1] 42.6	.163	.....	27.3	72.7	.....	12.69
10 plants	1910	786	77.8	.....	4.6	35.0	19.6	[2] 40.9	.163	.....	26.0	74.0	.....	12.69
	1911	593	74.6	.....	8.8	42.7	36.3	12.3	.166	.....	17.7	82.3	.....	12.39
	1912	626	75.7	.....	7.5	38.7	27.8	26.0	.167	.....	7.8	92.2	.....	12.64
										Under 16 cts.	16 and under 20 cts.	20 and under 30 cts.	30 cts. and over.	
Bottom makers' helpers:														
9 plants	1907	30	73.5	.....	26.7	46.7	26.7	.....	.257	.....	26.7	46.7	26.6	18.82
	1908	27	72.2	.....	25.9	66.7	7.4	.....	.204	14.8	37.0	33.3	14.8	14.75
	1909	29	73.1	.....	27.6	51.7	20.7	.....	.234	6.9	34.5	37.9	20.7	17.08
	1910	30	72.9	.....	.....	86.7	6.7	6.7	.239	.....	36.7	50.0	13.3	17.38

[1] Including 7.2 per cent whose full-time hours per week were 85.
[2] Including 6.9 per cent whose full-time hours per week were 85.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BESSEMER CONVERTERS—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 72	72	Over 72 and under 84	84		Under 16 cts.	16 and under 20 cts.	20 and under 30 cts.	30 cts. and over.	
Bottom makers' helpers—Concluded.														
10 plants	1910	34	72.8	.....	.....	88.2	5.9	5.9	$0.235	.....	38.3	50.0	11.8	$17.10
	1911	31	72.2	.....	32.3	64.5	.....	3.2	.234	3.2	38.8	38.7	19.4	16.88
	1912	31	72.2	.....	32.3	61.3	6.5	.....	.238	6.5	35.5	45.2	13.0	17.18
Cinder pitmen:														
8 plants	1907	118	67.9	20.3	37.3	32.2	3.4	6.8	.206	30.5	45.8	13.6	10.2	13.32
	1908	71	65.9	29.6	16.9	39.4	14.1	.....	.173	57.7	33.8	8.5	.....	11.27
	1909	92	68.4	22.8	25.0	32.6	10.9	8.7	.178	37.0	51.1	5.4	6.5	11.88
	1910	79	67.3	7.6	19.0	50.6	12.7	10.1	.213	10.1	58.2	24.1	7.6	13.77
9 plants	1910	85	67.6	7.1	17.6	54.1	11.8	9.4	.211	9.4	61.2	22.3	7.1	13.69
	1911	62	69.8	9.7	25.8	54.8	9.7	.....	.199	3.2	87.1	.....	9.7	13.55
	1912	87	67.2	24.1	.....	41.4	34.5	.....	.204	.....	75.8	17.2	6.9	13.27
Ladle liners' helpers:														
9 plants	1907	39	68.2	15.4	28.2	51.3	5.1	.....	.255	10.3	30.8	38.5	20.5	16.65
	1908	31	67.5	19.4	35.5	38.7	.....	6.5	.209	22.6	32.3	35.5	9.7	13.79
	1909	39	68.5	15.4	28.2	46.2	10.3	.....	.230	10.3	38.4	38.4	12.8	15.26
	1910	37	68.5	16.2	2.7	64.9	10.8	5.4	.239	.....	37.8	48.6	13.5	15.83
10 plants	1910	39	68.7	15.4	2.6	66.7	10.3	5.1	.236	.....	41.1	46.2	12.8	15.73
	1911	34	69.1	8.8	44.1	47.1	.....	.....	.233	5.9	41.2	38.3	14.7	15.75
	1912	34	69.6	8.8	44.1	41.2	5.9	.....	.228	5.9	41.2	38.3	14.7	15.43
Stockers:														
9 plants	1907	371	62.5	46.1	12.4	7.3	22.4	11.9	.246	17.0	27.7	27.0	28.3	14.27
	1908	260	58.3	57.7	10.7	10.4	9.6	11.5	.275	14.3	21.2	26.2	38.5	14.93
	1909	266	63.6	42.9	7.5	12.4	22.6	14.7	.264	26.7	19.5	11.6	42.1	15.31
	1910	350	64.9	32.6	16.0	19.4	5.7	26.3	.266	2.9	37.5	25.4	34.3	16.04
10 plants	1910	352	64.9	32.4	16.5	19.3	5.7	26.1	.266	2.8	37.2	25.9	34.1	16.03
	1911	241	61.7	46.1	7.0	23.7	10.8	12.4	.233	5.0	39.8	40.3	15.0	13.60
	1912	268	62.0	45.9	14.9	7.8	17.9	13.4	.312	.....	37.7	13.5	48.8	17.66
										Under 20 cts.	20 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.	
Cupola tappers:														
8 plants	1907	50	60.5	54.0	8.0	18.0	12.0	8.0	.379	2.0	12.0	34.0	52.0	22.16
	1908	43	59.3	55.8	4.7	30.2	4.7	4.7	.335	2.3	23.3	62.8	11.6	19.67
	1909	43	61.5	55.8	.....	11.6	18.6	14.0	.340	2.3	46.5	7.0	44.2	19.74
	1910	56	58.9	64.3	.....	12.5	14.3	8.9	.362	1.8	34.0	32.1	32.2	20.30
	1911	41	59.3	58.5	.....	26.8	4.9	9.8	.318	2.4	34.2	63.4	.....	18.19
9 plants	1911	45	60.4	53.3	.....	33.3	4.4	8.9	.314	2.2	40.0	57.8	.....	18.36
	1912	48	60.6	56.3	4.2	10.4	20.8	8.3	.369	2.1	41.7	2.1	54.2	20.94
Ingot strippers:														
9 plants	1907	29	67.4	31.0	13.8	20.7	20.7	13.8	.310	.....	62.1	17.2	20.7	19.60
	1908	28	68.4	21.4	21.4	21.4	35.7	.....	.238	14.3	78.6	7.1	.....	16.34
	1909	28	70.2	21.4	14.3	21.4	21.4	21.4	.264	.....	78.6	21.4	.....	18.17
	1910	29	67.9	10.3	20.7	27.6	20.7	20.7	.307	.....	69.0	.....	31.0	19.85
10 plants	1910	31	68.1	9.7	19.4	32.3	19.4	19.4	.303	.....	71.0	.....	29.0	19.69
	1911	27	70.4	.....	33.3	44.4	22.2	.....	.282	14.8	66.6	.....	18.5	19.26
	1912	28	68.8	10.7	25.0	28.6	35.7	.....	.320	.....	71.5	7.1	21.4	20.90
Mold cappers:														
8 plants	1907	48	54.5	75.0	.....	16.7	8.3	.....	.347	8.4	16.6	56.3	18.8	18.02
	1908	39	53.7	76.9	.....	17.9	5.1	.....	.196	74.4	20.5	5.1	.....	10.57
	1909	43	54.0	76.7	.....	14.0	9.3	.....	.271	14.1	60.5	11.6	14.0	14.26
	1910	46	55.0	26.1	52.2	8.7	4.3	8.7	.326	17.4	10.8	58.7	13.0	17.07
9 plants	1910	52	57.0	23.1	46.2	19.2	3.8	7.7	.314	15.4	21.2	51.9	11.5	16.96
	1911	37	64.2	32.4	.....	62.2	5.4	.....	.282	24.3	43.2	16.2	16.2	17.36
	1912	44	59.5	54.5	.....	31.8	13.6	.....	.324	18.2	27.2	36.4	18.1	18.05

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BESSEMER CONVERTERS—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 72	72	Over 72 and under 84	84		Under 20 cts.	20 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.	
Stopper makers:														
9 plants	1907	10	72.8	.....	20.0	40.0	30.0	10.0	$0.316	10.0	60.0	.....	30.0	$23.01
	1908	9	72.9	.....	22.2	44.4	11.1	22.2	.223	33.3	55.5	11.1	.....	16.10
	1909	9	71.6	.....	44.4	22.2	11.1	22.2	.270	22.2	44.4	22.2	11.1	19.22
	1910	11	73.1	.....	9.1	72.7	.....	18.2	.263	9.1	63.7	27.3	.....	19.33
10 plants	1910	12	73.0	.....	8.3	75.0	.....	16.7	.260	8.3	66.7	25.0	.....	19.14
	1911	10	72.0	.....	20.0	60.0	.....	20.0	.273	20.0	40.0	40.0	.....	19.53
	1912	10	70.8	.....	30.0	50.0	.....	20.0	.272	20.0	50.0	20.0	10.0	18.91
										Under 25 cts.	25 and under 40 cts.	40 and under 50 cts.	50 cts. and over.	
Bottom makers:														
9 plants	1907	17	73.4	.....	11.8	64.7	23.5	.....	.386	.....	64.7	23.5	11.8	28.10
	1908	17	72.4	.....	23.5	64.7	11.8	.....	.283	47.1	29.4	23.5	.....	20.45
	1909	16	73.1	.....	12.5	68.8	18.8	.....	.351	6.3	56.3	12.5	25.0	25.57
	1910	17	73.5	.....	.....	76.5	11.8	11.8	.355	11.8	64.7	23.5	.....	25.92
10 plants	1910	19	73.4	.....	.....	78.9	10.5	10.5	.346	10.5	68.4	21.1	.....	25.28
	1911	19	71.8	.....	21.1	78.9	.....	.....	.337	10.5	68.4	10.5	10.5	24.18
	1912	20	72.5	.....	20.0	70.0	10.0	.....	.345	10.0	70.0	10.0	10.0	24.96
Cupola melters:														
7 plants	1907	15	65.2	40.0	13.3	20.0	13.3	[1]13.4	.509	6.7	26.7	.....	66.6	31.67
	1908	15	64.7	40.0	13.3	20.0	13.3	13.3	.350	13.3	53.3	20.0	13.3	22.20
	1909	15	64.7	40.0	13.3	20.0	13.3	13.3	.419	20.0	13.3	33.3	33.3	26.09
	1910	16	60.6	37.5	18.8	18.8	12.5	12.5	.447	6.3	43.8	.....	50.1	25.85
	1911	15	64.3	40.0	13.3	20.0	13.3	13.3	.390	6.7	40.0	40.0	13.3	24.45
8 plants	1911	17	65.2	35.3	11.8	29.4	11.8	11.8	.386	5.9	47.1	35.3	11.8	24.62
	1912	18	61.6	50.0	11.1	16.7	11.1	11.1	.409	5.6	44.4	22.2	27.8	23.82
Ladle liners:														
9 plants	1907	21	65.1	28.6	14.3	47.6	9.5	.....	.454	9.5	38.1	19.0	33.3	28.95
	1908	21	65.6	28.6	23.8	38.1	.....	9.5	.306	33.3	42.9	14.3	9.5	19.78
	1909	21	65.1	28.6	14.3	47.6	9.5	.....	.392	23.8	23.8	38.1	14.3	25.22
	1910	23	66.3	26.1	4.3	52.2	8.7	8.7	.383	17.4	39.1	21.7	21.7	25.20
10 plants	1910	25	66.8	24.0	4.0	56.0	8.0	8.0	.378	16.0	44.0	20.0	20.0	25.05
	1911	24	68.3	12.5	20.9	66.7	.....	.....	.342	25.0	33.4	25.0	16.7	22.85
	1912	24	68.9	12.5	20.9	58.3	8.3	.....	.369	16.7	50.0	20.8	12.5	24.95
Regulators, first:														
9 plants	1907	26	62.3	46.2	7.7	30.8	7.7	7.7	.437	7.7	42.3	34.6	15.4	27.28
	1908	25	64.7	36.0	16.0	32.0	8.0	8.0	.266	56.0	28.0	16.0	.....	17.78
	1909	25	64.8	36.0	8.0	40.0	8.0	8.0	.344	32.0	36.0	8.0	24.0	22.97
	1910	29	61.4	20.7	31.0	34.5	.....	13.8	.414	6.9	37.9	34.5	20.7	25.60
10 plants	1910	31	62.1	19.4	29.0	38.7	.....	12.9	.408	6.5	41.9	32.3	19.4	25.45
	1911	24	66.8	25.0	16.7	50.0	.....	8.3	.377	16.6	37.5	37.5	8.3	24.79
	1912	25	64.7	36.0	16.0	32.0	8.0	8.0	.411	8.0	36.0	40.0	16.0	26.24
Regulators, second:														
6 plants	1907	18	65.3	33.3	11.1	33.3	22.2	.....	.427	.....	11.1	77.8	11.1	27.81
	1908	14	73.5	.....	28.6	42.9	28.6	.....	.269	57.1	35.7	7.1	.....	19.64
	1909	14	73.8	.....	14.3	57.1	28.6	.....	.365	7.1	50.0	42.9	.....	26.80
	1910	18	66.7	33.3	.....	44.4	.....	22.2	.403	.....	38.9	50.0	11.1	26.96
8 plants	1910	22	67.5	27.3	9.1	45.5	.....	18.2	.378	9.1	40.9	40.9	9.1	25.52
	1911	21	65.0	28.6	19.0	52.4	.....	.....	.333	19.1	47.7	33.3	.....	21.41
	1912	23	63.5	39.1	17.4	26.1	17.4	.....	.367	.....	82.6	.....	17.4	23.36

[1] Including 6.7 per cent whose full-time hours per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BESSEMER CONVERTERS—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 72	72	Over 72 and under 84	84		Under 25 cts.	25 and under 40 cts.	40 and under 50 cts.	50 cts. and over.	
Vessel men's helpers:														
9 plants	1907	47	57.0	51.1	19.1	8.5	17.0	4.3	$0.566	.....	14.9	25.5	59.6	$31.84
	1908	45	59.5	40.0	20.0	17.8	17.8	4.4	.376	26.6	28.9	26.7	17.7	21.65
	1909	45	59.6	40.0	20.0	17.8	17.8	4.4	.484	4.4	22.2	37.8	35.6	28.24
	1910	49	55.3	49.0	30.6	8.2	.....	12.2	.524	.....	16.3	51.0	32.6	28.86
10 plants	1910	53	56.5	45.3	28.3	15.1	.....	11.3	.506	3.8	18.9	47.2	30.2	28.22
	1911	51	57.6	47.1	17.6	23.5	7.8	3.9	.421	11.7	27.4	27.5	33.4	23.48
	1912	53	55.9	56.6	17.0	7.5	15.1	3.8	.470	.....	37.8	20.8	41.4	25.47
										Under 40 cts.	40 and under 50 cts.	50 and under 70 cts.	70 cts. and over.	
Blowers:														
9 plants	1907	20	65.4	30.0	10.0	50.0	10.0	.....	.619	20.0	20.0	15.0	45.0	39.55
	1908	19	68.8	15.8	10.5	63.2	10.5	.....	.466	36.8	42.1	10.5	10.5	32.41
	1909	19	68.8	15.8	10.5	63.2	10.5	.....	.486	21.1	47.4	21.1	10.5	33.29
	1910	20	69.8	15.0	.....	60.0	15.0	10.0	.536	10.0	45.0	35.0	10.0	37.00
	1911	18	71.9	.....	11.1	88.9	.....	.....	.498	11.1	55.6	22.2	11.1	35.84
10 plants	1911	20	72.0	.....	10.0	90.0	.....	.....	.493	10.0	60.0	20.0	10.0	35.48
	1912	21	69.1	14.3	9.5	66.7	9.5	.....	.529	.....	57.1	33.3	9.5	36.36
Steel pourers:														
9 plants	1907	29	55.4	72.4	.....	13.8	13.8	.....	.693	6.9	17.2	24.1	51.7	36.39
	1908	28	57.4	64.3	.....	21.4	14.3	.....	.439	46.5	3.6	50.0	.....	24.25
	1909	28	57.5	64.3	.....	21.4	14.3	.....	.576	39.2	.....	17.9	42.9	31.61
	1910	30	54.5	70.0	10.0	6.7	.....	13.3	.630	6.7	23.3	30.0	40.0	32.94
10 plants	1910	32	55.6	65.6	9.4	12.5	.....	12.5	.617	6.3	28.1	28.2	37.5	32.74
	1911	30	55.1	70.0	.....	30.0	.....	.....	.535	23.4	10.0	56.7	10.0	27.91
	1912	32	54.7	75.0	.....	12.5	12.5	.....	.578	6.3	34.4	34.4	25.0	30.57
Stopper setters:														
9 plants	1907	45	51.5	86.7	.....	8.9	4.4	.....	.630	26.6	15.6	26.6	31.1	31.79
	1908	40	54.3	75.0	.....	20.0	5.0	.....	.343	67.5	17.5	5.0	10.0	18.50
	1909	34	55.4	70.6	.....	23.5	5.9	.....	.552	35.4	5.9	23.5	35.3	29.36
	1910	37	51.5	73.0	16.2	5.4	.....	5.4	.589	29.7	16.2	21.6	32.4	30.08
10 plants	1910	39	52.6	69.2	15.4	10.3	.....	5.1	.577	33.3	15.4	20.5	30.8	29.81
	1911	39	55.3	69.2	.....	30.8	.....	.....	.498	43.6	17.9	7.7	30.8	26.08
	1912	42	51.7	85.7	.....	9.5	4.8	.....	.496	33.3	35.7	16.6	14.3	25.36
Vessel men:														
9 plants	1907	23	58.5	52.2	13.0	8.7	17.4	8.7	.793	8.7	.....	30.4	60.9	44.58
	1908	22	61.1	40.9	13.6	18.2	18.2	9.1	.528	40.9	9.1	31.8	18.2	31.27
	1909	22	61.2	40.9	13.6	18.2	18.2	9.1	.630	18.2	22.7	22.7	36.4	37.19
	1910	24	56.6	50.0	25.0	8.3	.....	16.7	.708	8.3	8.3	50.0	33.3	38.88
10 plants	1910	26	57.8	46.2	23.1	15.4	.....	15.4	.685	7.7	15.4	46.2	3.08	m 38.18
	1911	25	59.1	48.0	12.0	24.0	8.0	8.0	.580	24.0	8.0	40.0	2.80	32.45
	1912	26	57.3	57.7	11.5	7.7	15.4	7.7	.703	7.7	19.2	26.9	4.62	38.32

Owing to the change in the number of plants from year to year and the consequent difference in the averages for the overlapping year in the two groups, it is difficult to make a comparison of the actual data over a period of several years which will give an accurate

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

measure of the changes throughout the period. To aid in making such a comparison, relative or index numbers have been computed from the averages of the preceding table, for full-time hours per week, rates of wages per hour, and full-time weekly earnings, for each occupation from 1907 to 1912, inclusive. Such figures appear in the table following. These relative or index numbers are simply percentages in which the data for 1912 are taken as the base, or 100 per cent. The relative for each year is the per cent that the average for that year is of the average for 1912. For example, the relative full-time weekly earnings of stockers in 1907 was 80.8, as compared with 100 in 1912, that is, the full-time weekly earnings of stockers in 1907 were 100.8 per cent of the full-time weekly earnings in this occupation in 1912. The method of computing relative numbers is explained on page 21.

The table also shows for each occupation the per cent of increase or decrease in full-time hours per week, rates of wages per hour, and full-time weekly earnings in 1912 as compared with each specified year preceding. Thus the full-time weekly earnings of stockers in 1912 were 23.8 per cent higher than in 1907, 18.3 per cent higher than in 1908, 15.5 per cent higher than in 1909, 10.1 per cent higher than in 1910, and 29.9 per cent higher than in 1911.

In other columns of the table is shown the per cent of change in each year as compared with the year immediately preceding. Thus the full-time weekly earnings of stockers in 1908 were 4.6 per cent higher than in 1907, 2.5 per cent higher in 1909 than in 1908, 4.8 per cent higher in 1910 than in 1909, 15.2 per cent lower in 1911 than in 1910, and 29.9 per cent higher in 1912 than in 1911.

The other occupations and items of the table can be studied in like manner.

The percentages of increase and decrease are computed from the relative numbers.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—BESSEMER CONVERTERS.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.
Stockers:									
1907	100.8	− 0.8	.....	78.8	+26.9	.....	80.8	+23.8	.....
1908	94.0	+ 6.4	− 6.7	88.1	+13.5	+11.8	84.5	+18.3	+ 4.6
1909	102.6	− 2.5	+ 9.1	84.6	+18.2	− 4.0	86.6	+15.5	+ 2.5
1910	104.7	− 4.5	+ 2.0	85.3	+17.2	+ .8	90.8	+10.1	+ 4.8
1911	99.5	+ .5	− 5.0	74.7	+33.9	−12.4	77.0	+29.9	−15.2
1912	100.0	.....	+ .5	100.0	.....	+33.9	100.0	.....	+29.9
Cupola melters:									
1907	107.3	− 6.8	.....	123.2	−18.8	.....	133.9	−25.3	.....
1908	106.5	− 6.1	− .7	84.7	+18.1	−31.3	93.8	+ 6.6	−29.9
1909	106.5	− 6.1	(1)	101.4	− 1.4	+19.7	110.3	− 9.3	+17.6
1910	99.7	+ .3	− 6.4	108.2	− 7.6	+ 6.7	109.3	− 8.5	− .9
1911	105.8	− 5.5	+ 6.1	94.4	+ 5.9	−12.8	103.4	− 3.3	− 5.4
1912	100.0	.....	− 5.5	100.0	.....	+ 5.9	100.0	.....	− 3.3
Cupola tappers:									
1907	101.7	− 1.7	.....	101.5	− 1.5	.....	106.8	− 6.4	.....
1908	99.7	+ .3	− 2.0	89.7	+11.5	−11.6	94.8	+ 5.5	−11.2
1909	103.4	− 3.3	+ 3.7	91.1	+ 9.8	+ 1.6	95.2	+ 5.0	+ .4
1910	99.0	+ 1.0	− 4.3	97.0	+ 3.1	+ 6.5	97.9	+ 2.1	+ 2.8
1911	99.7	+ .3	+ .7	85.1	+17.5	−12.3	87.7	+14.0	−10.4
1912	100.0	.....	+ .3	100.0	.....	+17.5	100.0	.....	+14.0
Blowers:									
1907	94.8	+ 5.5	.....	115.8	−13.6	.....	107.7	− 7.1	.....
1908	99.7	+ .3	+ 5.2	87.2	+14.7	−24.7	88.2	+13.4	−18.1
1909	99.7	+ .3	(1)	90.9	+10.0	+ 4.2	90.6	+10.4	+ 2.7
1910	101.1	− 1.1	+ 1.4	100.3	− .3	+10.3	100.7	− .7	+11.1
1911	104.2	− 4.0	+ 3.1	93.2	+ 7.3	− 7.1	97.6	+ 2.5	− 3.1
1912	100.0	.....	− 4.0	100.0	.....	+ 7.3	100.0	.....	+ 2.5
Regulators, first:									
1907	97.4	+ 2.7	.....	104.8	− 4.6	.....	103.4	− 3.3	.....
1908	101.1	− 1.1	+ 3.8	63.8	+56.7	−39.1	67.4	+48.4	−34.8
1909	101.3	− 1.3	+ .2	82.5	+21.2	+29.3	87.0	+14.9	+29.1
1910	96.0	+ 4.2	− 5.2	99.3	+ .7	+20.4	97.0	+ 3.1	+11.5
1911	103.2	− 3.1	+ 7.5	91.7	+ 9.1	− 7.7	94.5	+ 5.8	− 2.6
1912	100.0	.....	− 3.1	100.0	.....	+ 9.1	100.0	.....	+ 5.8
Regulators, second:									
1907	104.1	− 3.9	.....	109.2	− 8.4	.....	112.7	−11.3	.....
1908	117.1	−14.6	+12.5	68.7	+45.6	−37.1	79.6	+25.6	−29.4
1909	117.6	−15.0	+ .4	93.3	+ 7.2	+35.8	108.6	− 7.9	+36.4
1910	106.3	− 5.9	− 9.6	103.0	− 2.9	+10.4	109.2	− 8.4	+ .6
1911	102.4	− 2.3	− 3.7	90.7	+10.3	−11.9	91.7	+ 9.1	−16.0
1912	100.0	.....	− 2.3	100.0	.....	+10.3	100.0	.....	+ 9.1
Vessel men:									
1907	104.3	− 4.1	.....	109.1	− 8.3	.....	114.2	−12.4	.....
1908	108.9	− 8.2	+ 4.4	72.7	+37.6	−33.4	80.1	+24.8	−29.9
1909	109.1	− 8.3	+ .2	86.7	+15.3	+19.3	95.3	+ 4.9	+19.0
1910	100.9	− .9	− 7.5	97.4	+ 2.7	+12.3	99.6	+ .4	+ 4.5
1911	103.1	− 3.0	+ 2.2	82.5	+21.2	−15.3	84.7	+18.1	−15.0
1912	100.0	.....	− 3.0	100.0	.....	+21.2	100.0	.....	+18.1
Vessel men's helpers:									
1907	104.2	− 4.0	.....	116.3	−14.0	.....	122.2	−18.2	.....
1908	108.7	− 8.0	+ 4.3	77.3	+29.4	−33.5	83.1	+20.3	−32.0
1909	108.9	− 8.2	+ .2	99.4	+ .6	+28.6	108.4	− 7.7	+30.4
1910	101.1	− 1.1	− 7.2	107.7	− 7.1	+ 8.4	110.8	− 9.7	+ 2.2
1911	103.0	− 2.9	+ 1.9	89.6	+11.6	−16.8	92.2	+ 8.5	−16.8
1912	100.0	.....	− 2.9	100.0	.....	+11.6	100.0	.....	+ 8.5

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—BESSEMER CONVERTERS—Continued.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.
Cinder pitmen:									
1907	101.5	− 1.5	.....	100.0	(1)	.....	99.8	+ 0.2	.....
1908	98.5	+ 1.5	− 3.0	84.0	+19.0	−16.0	84.4	+18.5	−15.4
1909	102.2	− 2.2	+ 3.8	86.4	+15.7	+ 2.9	89.0	+12.4	+ 5.5
1910	100.6	− .6	− 1.6	103.4	− 3.3	+19.7	103.2	− 3.1	+16.0
1911	103.9	− 3.8	+ 3.3	97.5	+ 2.6	− 5.7	102.1	− 2.1	− 1.1
1912	100.0	.....	− 3.8	100.0	.....	+ 2.6	100.0	.....	− 2.1
Bottom makers:									
1907	101.1	− 1.1	.....	109.0	− 8.3	.....	109.8	− 8.9	.....
1908	99.7	+ .3	− 1.4	79.9	+25.2	−26.7	79.9	+25.2	−27.2
1909	100.7	− .7	+ 1.0	99.2	+ .8	+24.2	99.9	+ .1	+25.0
1910	101.2	− 1.2	+ .5	100.3	− .3	+ 1.1	101.3	− 1.3	+ 1.4
1911	99.0	+ 1.0	− 2.2	97.7	+ 2.4	− 2.6	96.9	+ 3.2	− 4.3
1912	100.0	.....	+ 1.0	100.0	.....	+ 2.4	100.0	.....	+ 3.2
Bottom makers' helpers:									
1907	101.7	− 1.7	.....	106.2	− 5.8	.....	107.8	− 7.2	.....
1908	99.9	+ .1	− 1.8	84.3	+18.6	−20.6	84.5	+18.3	−21.6
1909	101.1	− 1.1	+ 1.2	96.7	+ 3.4	+14.7	97.8	+ 2.2	+15.7
1910	100.8	− .8	− .3	98.7	+ 1.3	+ 2.1	99.5	+ .5	+ 1.7
1911	100.0	(1)	− .8	98.3	+ 1.7	− .4	98.3	+ 1.7	− 1.2
1912	100.0	.....	(1)	100.0	.....	+ 1.7	100.0	.....	+ 1.7
Ladle liners:									
1907	95.2	+ 5.0	.....	121.4	−17.6	.....	115.3	−13.3	.....
1908	95.9	+ 4.3	+ .7	81.8	+22.2	−32.6	78.8	+26.9	−31.7
1909	95.2	+ 5.0	− .7	104.8	− 4.6	+28.1	100.5	− .5	+27.5
1910	97.0	+ 3.1	+ 1.9	102.4	− 2.3	− 2.3	100.4	− .4	− .1
1911	99.1	+ .9	+ 2.2	92.7	+ 7.9	− 9.5	91.6	+ 9.2	− 8.8
1912	100.0	.....	+ .9	100.0	.....	+ 7.9	100.0	.....	+ 9.2
Ladle liners' helpers:									
1907	98.3	+ 1.7	.....	110.4	− 9.4	.....	107.2	− 6.7	.....
1908	97.3	+ 2.8	− 1.0	90.5	+10.5	−18.0	88.8	+12.6	−17.2
1909	98.7	+ 1.3	+ 1.4	99.6	+ .4	+10.1	98.3	+ 1.7	+10.7
1910	98.7	+ 1.3	(1)	103.5	− 3.4	+ 3.9	101.9	− 1.9	+ 3.7
1911	99.3	+ .7	+ .6	102.2	− 2.2	− 1.3	102.1	− 2.1	+ .2
1912	100.0	.....	+ .7	100.0	.....	− 2.2	100.0	.....	− 2.1
Stopper makers:									
1907	102.7	− 2.6	.....	114.9	−13.0	.....	120.5	−17.0	.....
1908	102.8	− 2.7	+ .1	81.1	+23.3	−29.4	84.3	+18.6	−30.0
1909	101.0	− 1.0	− 1.8	98.1	+ 1.9	+21.0	100.6	− .6	+19.3
1910	103.1	− 3.0	+ 2.1	95.6	+ 4.6	− 2.5	101.2	− 1.2	+ .6
1911	101.7	− 1.7	− 1.4	100.4	− .4	+ 5.0	103.3	− 3.2	+ 2.1
1912	100.0	.....	− 1.7	100.0	.....	− .4	100.0	.....	− 3.2
Stopper setters:									
1907	101.7	− 1.7	.....	124.4	−19.6	.....	124.2	−19.5	.....
1908	107.3	− 6.8	+ 5.5	67.7	+47.7	−45.6	72.3	+38.3	−41.8
1909	109.4	− 8.6	+ 2.0	109.0	− 8.3	+61.0	114.7	−12.8	+58.6
1910	101.7	− 1.7	− 7.0	116.3	−14.0	+ 6.7	117.5	−14.9	+ 2.4
1911	107.0	− 6.5	+ 5.2	100.4	− .4	−13.7	102.8	− 2.7	−12.5
1912	100.0	.....	− 6.5	100.0	.....	− .4	100.0	.....	− 2.7
Steel pourers:									
1907	103.3	− 3.2	.....	117.4	−14.8	.....	118.3	−15.5	.....
1908	107.1	− 6.6	+ 3.7	74.4	+34.4	−36.6	78.8	+26.9	−33.4
1909	107.2	− 6.7	+ .1	97.6	+ 2.5	+31.2	102.8	− 2.7	+30.5
1910	101.6	− 1.6	− 5.2	106.7	− 6.3	+ 9.3	107.1	− 6.6	+ 4.2
1911	100.7	− .7	− .9	92.6	+ 8.0	−13.2	91.3	+ 9.5	−14.8
1912	100.0	.....	− .7	100.0	.....	+ 8.0	100.0	.....	+ 9.5

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—BESSEMER CONVERTERS—Concluded.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.
Mold cappers:									
1907	94.9	+ 5.4	.....	103.2	− 3.1	.....	99.3	+ 0.7	.....
1908	93.5	+ 7.0	− 1.5	58.3	+71.5	−43.5	58.2	+71.8	−41.4
1909	94.1	+ 6.3	+ .6	80.6	+24.1	+38.3	78.6	+27.2	+35.1
1910	95.8	+ 4.4	+ 1.8	96.9	+ 3.2	+20.2	94.1	+ 6.3	+19.7
1911	107.9	− 7.3	+12.6	87.0	+14.9	−10.2	96.3	+ 3.8	+ 2.3
1912	100.0	.....	− 7.3	100.0	.....	+14.9	100.0	.....	+ 3.8
Ingot strippers:									
1907	98.3	+ 1.7	.....	95.6	+ 4.6	.....	93.0	+ 7.5	.....
1908	99.7	+ .3	+ 1.4	73.4	+36.2	−23.2	77.6	+28.9	−16.6
1909	102.3	− 2.2	+ 2.6	81.4	+22.9	+10.9	86.2	+16.0	+11.1
1910	99.0	+ 1.0	− 3.2	94.7	+ 5.6	+16.3	94.2	+ 6.2	+ 9.3
1911	102.3	− 2.2	+ 3.3	88.1	+13.5	− 7.0	92.2	+ 8.5	− 2.1
1912	100.0	.....	− 2.2	100.0	.....	+13.5	100.0	.....	+ 8.5
Laborers:									
1907	102.6	− 2.5	.....	92.8	+ 7.8	.....	95.9	+ 4.3	.....
1908	100.3	− .3	− 2.2	92.8	+ 7.8	(1)	93.4	+ 7.1	− 2.6
1909	101.2	− 1.2	+ .9	90.4	+10.6	− 2.6	91.9	+ 8.8	− 1.6
1910	102.8	− 2.7	+ 1.6	97.6	+ 2.5	+ 8.0	100.4	− .4	+ 9.2
1911	98.5	+ 1.5	− 4.2	99.4	+ .6	+ 1.8	98.0	+ 2.0	− 2.4
1912	100.0	.....	+ 1.5	100.0	.....	+ .6	100.0	.....	+ 2.0

[1] No change.

A like table of relative numbers and percentages is next shown for the Bessemer converting department as a whole, as determined by a combination of the data for the several principal productive occupations of the department which are covered by this report. The method of computing the figures of this table is explained on page 22.

From the table following, under "Weekly earnings," it is seen that the relative full-time weekly earnings of the industry as a whole in 1907 were 95.7 as compared with 100 in 1912. In other words the full-time weekly earnings in 1907 were 95.7 per cent of those in 1912. The relative dropped to 87.7 in 1908, advanced to 93.3 in 1909, and to 97.5 in 1910, dropping in 1911 to 93. In 1912, the base year, the relative was 100.

The next column shows that full-time weekly earnings in 1912 were 4.5 per cent higher than in 1907, 14 per cent higher than in 1908, 7.2 per cent higher than in 1909, 2.6 per cent higher than in 1910, and 7.5 per cent higher than in 1911.

The third column, under "Weekly earnings" shows the per cent of increase or decrease in full-time weekly earnings each year as com-

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

pared with the year immediately preceding. Thus the full-time weekly earnings in 1908 were 8.4 per cent lower than in 1907; in 1909, 6.4 per cent higher than in 1908; in 1910, 4.5 per cent higher than in 1909; in 1911, 4.6 per cent lower than in 1910; and in 1912, 7.5 per cent higher than in 1911.

The relative numbers and percentages for full-time hours per week and rates of wages per hour can be studied in like manner.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE, IN SPECIFIED YEARS, ALL OCCUPATIONS—BESSEMER CONVERTERS.

Year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.
1907	102.2	−2.2	.....	93.5	+ 7.0	.....	95.7	+ 4.5	.....
1908	97.9	+2.1	−4.2	86.9	+15.1	− 7.1	87.7	+14.0	−8.4
1909	101.9	−1.9	+4.1	90.5	+10.5	+ 4.1	93.3	+ 7.2	+6.4
1910	102.6	−2.5	+ .7	94.5	+ 5.8	+ 4.4	97.5	+ 2.6	+4.5
1911	100.3	− .3	−2.2	90.5	+10.5	− 4.2	93.0	+ 7.5	−4.6
1912	100.0	.....	− .3	100.0	.....	+10.5	100.0	.....	+7.5

In considering weekly earnings it should be remembered that a reduction of hours tends to reduce weekly earnings just as an increase in wages per hour, of course, tends to increase them. Between 1907 and 1912 it will be observed that hours were reduced 2.2 per cent and wages per hour increased 7 per cent, each tending to offset the other in weekly earnings.

Still another influence on average weekly earnings for the department must be considered, that is the change in the relative number of employees in the several occupations from year to year. It is obvious that an increase in the relative number of employees in the lower-paid occupations or a decrease in the relative number of those in the higher-paid ones would lower the average for all occupations, just as an increase in the relative number of employees in the higher-paid occupations or a decrease in the relative number in the lower-paid ones would increase the average.

The number and per cent of employees in Bessemer converting plants whose customary working time per week was 6 days or turns, or 7 days, or variations thereof, are shown in the following table. The figures are presented for each of the two districts for which these plants are reported and for the two combined. The employees given

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

under the headings "5 days, 6 days, and 7 days in rotation," "6 days, 6 days, and 7 days in rotation," and "6 days, 7 days, and 7 days in rotation" are engaged in occupations for which the plant employs 3 shifts instead of the customary 2 to complete the 24 hours a day. The heading "6 days, 6 days, and 7 days in rotation," for example, indicates that each week one-third of the employees reported work 7 turns instead of the customary 6, the plant being shut down during the time of 2 shifts on 1 day each week.

NUMBER AND PER CENT OF EMPLOYEES IN EACH DISTRICT WORKING EACH SPECIFIED NUMBER OF DAYS PER WEEK, BY YEARS, 1907 TO 1912—BESSEMER CONVERTERS.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West." The figures set opposite each bracketed group of years are for identical plants.]

District and number of plants.	Year.	Number of employees.	Number of employees whose customary working time per week was—						Per cent of employees whose customary working time per week was—					
			6 days.	6 days and 7 days alternately.	5 days, 6 days, and 7 days in rotation.	6 days, 6 days, and 7 days in rotation.	6 days, 7 days, and 7 days in rotation.	7 days.	6 days.	6 days and 7 days alternately.	5 days, 6 days, and 7 days in rotation.	6 days, 6 days, and 7 days in rotation.	6 days, 7 days, and 7 days in rotation.	7 days.
Pittsburgh:														
6 plants [1]	1907	1,325	999	53	.....	.....	.....	273	75.4	4.0	.....	.....	.....	20.6
	1908	896	727	42	.....	.....	.....	127	81.1	4.7	.....	.....	.....	14.2
	1909	992	778	44	.....	.....	.....	170	78.4	4.4	.....	.....	.....	17.1
	1910	1,246	825	18	78	.....	.....	325	66.2	1.4	6.3	.....	.....	26.1
	1910	1,248	827	18	78	.....	.....	325	66.3	1.4	6.3	.....	.....	26.0
	1911	950	765	36	.....	3	.....	146	80.5	3.8	.....	0.3	.....	15.4
	1912	1,019	824	44	.....	3	.....	148	80.9	4.3	.....	.3	.....	14.5
G.L.and M.W.:														
3 plants	1907	432	74	177	.....	18	12	151	17.1	41.0	.....	4.2	2.8	35.0
	1908	283	88	71	.....	18	12	94	31.1	25.1	.....	6.4	4.2	33.2
	1909	360	63	142	.....	18	12	125	17.5	39.4	.....	5.0	3.3	34.7
	1910	403	98	44	.....	18	12	231	24.3	10.9	.....	4.5	3.0	57.3
4 plants [2]	1910	482	173	48	.....	18	12	231	35.9	10.0	.....	3.7	2.5	47.9
	1911	392	267	44	.....	18	12	51	68.1	11.2	.....	4.6	3.1	13.0
	1911	400	275	44	.....	18	12	51	68.8	11.0	.....	4.5	3.0	12.8
	1912	441	183	158	.....	18	12	70	41.5	35.8	.....	4.1	2.7	15.9
Total:														
9 plants	1907	1,757	1,073	230	.....	18	12	424	61.1	13.1	.....	1.0	.7	24.1
	1908	1,179	815	113	.....	18	12	221	69.1	9.6	.....	1.5	1.0	18.7
	1909	1,352	841	186	.....	18	12	295	62.2	13.8	.....	1.3	.9	21.8
	1910	1,649	923	62	78	18	12	556	56.0	3.8	4.7	1.1	.7	33.7
10 plants [2]	1910	1,730	1,000	66	78	18	12	556	57.8	3.8	4.5	1.0	.7	32.1
	1911	1,342	1,032	80	.....	21	12	197	76.9	6.0	.....	1.6	.9	14.7
	1911	1,350	1,040	80	.....	21	12	197	77.0	5.9	.....	1.6	.9	14.6
	1912	1,460	1,007	202	.....	21	12	218	69.0	13.8	.....	1.4	.8	14.9

[1] For 1 plant it was impossible to secure data for 1 occupation for the years 1907, 1908, and 1909, hence the 2 reports for 1910.
[2] For 1 plant it was impossible to secure data for 3 occupations for 1910, hence the 2 reports for 1911.

In addition to the text tables in the summary, six general tables are presented for the Bessemer converting department, as follows:

Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1907 to 1912.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1907 to 1912.

Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1907 to 1912.

Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1907 to 1912.

Table V.—Average and classified full-time hours of work per week in each year, by districts, 1907 to 1912.

Table VI.—Average and classified full-time hours of work per week in each district, by years, 1907 to 1912.

In Tables I and IV, in addition to actual data, percentages computed therefrom are given. The data from these two tables are summarized in the text table on pages 101 to 104.

Tables III and VI repeat the data for the several districts given in Tables II and V, rearranged for the convenience of the reader.

A brief description of the function of the Bessemer converter is presented on page 23.

DESCRIPTION OF OCCUPATIONS.

The following description of occupations refers only to those occupations which appear in the tables of this report—these being nearly all of the principal productive occupations in the Bessemer converting department.

The order in which the occupations are given follows that of the processes of manufacture.

STOCKERS.

Duties.—Unload and handle materials (pig iron, spiegel, and scrap) until it is delivered at the cupolas.

Nature of work.—Generally requires strong, unskilled workmen.

CUPOLA MELTERS.

Duties.—Regulate the blast, direct the tapping of cupolas, and have general charge of the cupola division.

Nature of work.—Considerable practical knowledge of metallurgy is required, and the position is one of much responsibility.

CUPOLA TAPPERS.

Duties.—Tap iron and cinder from cupolas at direction of melter; also clean up the metal and the cinder runners. The work is sometimes divided into iron tapping and cinder tapping.

Nature of work.—The work is somewhat analogous to blast-furnace practice, but requires greater skill, though it is much lighter.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

BLOWERS.

Duties.—In charge of the converters and directly responsible for the conversion of the molten metal. The specific duties consist in regulating the blast, the valves being controlled by levers in the "pulpit" (an elevated platform opposite the converters), and in regulating the temperature by admitting steam with the blast or by signaling the vessel scrapper to add cold scrap. The blower decides when the heat is fully "blown" and orders the first regulator to tilt the converter and signals what quantity of recarburizer shall be added as the metal runs into the ladle.

Nature of work.—This is one of the most responsible positions in the entire industry and highly skilled operators are required. All decisions as to the temperature and chemical state of the metal are made almost entirely on the basis of the color and general appearance of the flame. The work requires constant attention, the process being repeated every 30 minutes or less during the turn.

REGULATORS, FIRST.

Duties.—Under the direction of the blower operate the hydraulic levers by means of which the vessel is tilted to receive metal and during the course of the blow to receive scrap, etc., also to pour the metal into ladles.

Nature of work.—This is a responsible position and requires experience and good judgment. The first regulator is on the platform with the blower, and the position may be regarded as one of training for that of blower.

REGULATORS, SECOND.

Duties.—Operate the levers which control the movements of the hydraulic jib-crane on which the casting ladle is mounted.

NOTE.—In some of the large plants operating three or four converters the work is somewhat differently divided, the first regulator controlling the converter only until the heat is blown, when a second regulator handles it for dumping, inspecting, and repairing bottom, etc., while the third regulator controls the ladle cranes. In addition, the second or third regulator frequently operates the "car pusher."

VESSEL MEN AND VESSEL MEN'S HELPERS.

Duties.—Are responsible for maintaining the converter in good working order. Their duties consist in (1) inspection, (2) in changing and repairing bottoms, (3) in skulling, patching, and relining. After each "blow" the vessel is turned down so that the condition of its lining and particularly the bottom, where the blast is introduced through tuyeres and which is subject to the greatest wear, may be inspected. If the inspection shows the bottom to be in bad condition with the tuyeres nearly burned out, which occurs after from

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

20 to 30 heats, the entire bottom, which is constructed so that it may be easily removed, is taken off and a new bottom, which has been prepared by the bottom makers as described below, is put on. The new bottom is placed on a hydraulic jack, stationary or mounted on a movable truck, directly under the converter, the outer edges of the bottom are covered with a ring of moist fire clay to give an air-tight connection with the vessel, and the whole is then pressed tightly against the bottom of the vessel by the hydraulic jack and held in place until the connections have been made. This operation is performed with remarkable rapidity. If only one or two tuyeres are shown to be badly burned, it is necessary only to "blank" them by closing the air holes with refractory material. When slag or other accretions collect on the nose of the converter, the vessel men or the helpers pull or pry it off with a long rod or bar. If the inspection shows a bad spot in the vessel lining, it is repaired by throwing wet "ball stuff" on it and roughly tamping it down. When the lining is worn out, which occurs in the ordinary acid converter only after several thousand heats, the vessel men completely reline it. The duties also include, where no separate occupation is carried for the purpose, the cleaning of "skulls" and "spittings" from the shield or stack into which the converter blows.

Nature of work.—The vessel men and helpers regularly work as a crew and there is little exact differentiation of duties, except that the vessel men supervise all the work and perform those parts which require experience and skill. The helpers are of all grades; some do the most difficult work while others do little more than wheel materials. The position of vessel man is one which requires long experience and good judgment, and as emergencies must frequently be met, the men must have the ability to think and act quickly. The work is intermittent in character, with short periods of the greatest activity followed by long periods of comparative inaction, save for inspection, to which one man can attend.

CINDER PITMEN.

Duties.—Clean up and remove the cinder and metal from the pit or floor of the Bessemer building.

Nature of work.—The work is as a whole unskilled. It is, however, for the most part, hard manual labor done under conditions of great heat when working around and under the vessels and ladles.

BOTTOM MAKERS AND HELPERS.

Duties.—Repair and rebuild converter bottoms. The bottom consists essentially of (1) a cylindrical steel casing sloping out at the top to the diameter of the vessel, the lower part forming the

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

"blast box" into which the blast is admitted by a large pipe. This casing is provided with keys or with other appliances by which it can be quickly and securely fastened to the body of the converter. (2) Above the "blast box" is the refractory bottom, which is pierced by a large number of small holes for admitting and distributing the blast in the vessel. In acid vessels these tuyeres, or holes, are formed in fire-clay bricks of special design (in practice the entire brick is known as a tuyere), around which ganister is rammed. When the bottom is removed by the vessel men, the bottom makers and helpers cool it with water and then chip out all the ganister and knock out the tuyere bricks. New tuyere bricks are then placed in position, and moist ganister is tightly rammed around them until it is level with their top. The entire bottom is then placed in an oven where it is kept at a steady heat until thoroughly dried. In addition to this work the bottom makers' helpers in many plants also grind the refractory materials used for this purpose and also for repairing vessels and ladles.

Nature of work.—The work is done by the bottom makers and helpers working as a crew and there is usually little distinction of duties. Bottom makers not only supervise the work, but also do a large part of it. They must have considerable experience and must exercise extreme care, so that the position is one of some importance. The helpers vary considerably in grade.

LADLE LINERS.

Duties.—Patch and reline the ladles in which iron (direct metal) is brought to the converter or in which steel is handled. The ladles may be patched while still hot by throwing damp clay on the defective spots and tamping it into place. For relining or any considerable repairs the ladle must be removed.

Nature of work.—In either case the ladle is first cleaned by the ladle liner's helpers, as described below, and either the entire lining or such part of it as the ladle liner judges on inspection to be defective is removed. If the ladle is to be entirely relined it is done by the ladle liners, with the assistance of the helpers, by building a wall of fire brick, usually in two courses, around the entire inside of the steel casing. The bottom lining is then made by throwing in moist "ball stuff" (the most refractory of clay), which is tamped down until a homogeneous compact lining is formed. The whole of the brick wall around the sides is then covered with fire clay, which is rammed to fill all cavities between the bricks and to present a smooth surface. A fire (gas, wood, or coke) is then lighted inside the ladle and kept burning until the ladle is entirely dried out. The position is usually filled by skilled bricklayers.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

LADLE LINERS' HELPERS.

Duties.—Remove "skulls" of slag and metal from the ladles; remove the entire ladle lining or such part as directed by the ladle liner; bring the materials required by the ladle liner; help to tamp down the clay lining; and, in general, assist him in his work.

Nature of work.—Cleaning and removing ladle linings is particularly hard work, and, as the ladles are cleaned as soon as possible after the metal is cast, the work is frequently done under conditions of excessive heat. The ladle is first turned upside down to dump any liquid slag or metal. It is then turned right side up and when cool enough the men remove the "skulls" with bars and sledges. In the case of iron ladles this work is made easier by constructing the ladle with a large hole in the bottom, which is covered by an iron plate, over which the refractory clay for the bottom is laid. When a ladle is ready for patching or relining, this bottom plate, together with the clay bottom and any "skulls," is pushed up through the ladle by a hydraulic jack.

STOPPER MAKERS.

Duties.—Make stoppers for steel ladles. The stopper consists of a steel rod the height of the ladle inclosed in special hollow fire-brick cylinders, and on the lower end is a solid head usually made of a composition of graphite and fire clay and shaped to fit the nozzle. At the top the bar is bent to form a connection with the steel pourer's lever at the side of the ladle, by which it is raised and lowered, regulating the flow of steel. The stopper maker also removes the sleeves and heads from used stoppers, bends the rods to pattern, and puts on new fire-brick sleeves and head.

Nature of work.—The work is neither difficult nor heavy, but requires some skill and experience.

STOPPER SETTERS.

Duties.—Remove discarded stoppers from the ladles and inspect and place in position the new ones. The stopper setters in a few plants also remove the old nozzle and set a new one in place.

Nature of work.—The position is one which requires a large amount of experience and more than ordinary care and precaution, because a mistake in selecting or setting the stopper means almost certain injury to an employee.

STEEL POURERS.

Duties.—In charge of and do the actual work of pouring (teeming) the steel from the ladle into the molds. The flow is controlled by a lever at the side of the vessel, attached to the stopper within the ladle. The pourer determines to what height in the mold the steel

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

should be poured to give an ingot of the desired weight. He is in general charge of the entire casting crew of a mill and is responsible for the metal after it is tapped from the furnace until the ingots are ready for delivery to the blooming mill. Either he or one of his helpers makes a test casting from each ladle, which casting is given chemical analysis.

Nature of work.—The position is one requiring some practical knowledge of metallurgy, but chiefly long experience in the handling of molten steel.

MOLD CAPPERS.

Duties.—Place an iron plate or "cap" on top of the mold and secure it by means of a bar inserted under two lugs. After the steel has partially cooled, the bar is knocked out and the cap removed. In addition the mold cappers usually have other minor duties and act as steel pourers' helpers.

Nature of work.—In any case skill is required, and the severity of the work through exposure to extreme heat varies greatly.

INGOT STRIPPERS.

Duties.—Operate the crane for stripping ingots. In the modern plants the ingots are cast in molds mounted on small cars, which are brought one at a time in front of the steel-pourer's platform. After the ingot has sufficiently solidified these cars are removed by locomotives to the ingot stripper, which is frequently located some distance away, and in plants using both processes often does duty for both the Bessemer and open-hearth departments.

Nature of work.—The "ingot stripper" is an overhead hydraulic or electric crane of large capacity, equipped with special jaws for gripping the lugs on the side of the ingot mold, and special apparatus for lifting the mold clear of the ingot. Between the jaws is located a large plunger, which can be made to enter through the hole in the top of the mold and exert a pressure on top of the ingot when the mold is lifted. All operations are controlled by levers or controllers in the crane cab. The work requires considerable experience and judgment.

LABORERS.

Duties.—Perform the large number of duties, requiring no skill, not covered by specific occupations, or which are not differentiated in various plants.

Nature of work.—Only unskilled workmen required. For the most part is not particularly heavy manual labor.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912.

BESSEMER CONVERTERS.

[The figures set opposite each bracketed group of years are for identical plants. For explanation of averages see p. 20.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Stockers:																
9 plants	1907	371	62.5	$0.246	$14.27	.....	63	97	6	46	54	81	24	.....	.....	.....
	1908	260	58.3	.275	14.93	[1]16	21	55	.....	20	48	60	16	24	.....	.....
	1909	266	63.6	.264	15.31	22	49	37	15	19	12	54	49	9	.....	.....
	1910	350	64.9	.266	16.04	.....	10	115	16	32	57	69	51	.....	.....	.....
10 plants	1910	352	64.9	.266	16.03	.....	10	115	16	34	57	69	51	.....	.....	.....
	1911	241	61.7	.233	13.60	.....	12	81	15	58	39	24	12	.....	.....	.....
	1912	268	62.0	.312	17.66	.....	.....	80	21	23	13	55	40	36	.....	.....
Cupola melters:																
7 plants	1907	15	65.2	.509	31.67	.....	.....	.....	.....	1	1	3	.....	5	2	3
	1908	15	64.7	.350	22.20	.....	.....	.....	.....	2	3	5	3	2	.....	.....
	1909	15	64.7	.419	26.09	.....	.....	.....	.....	3	.....	2	5	5	.....	.....
	1910	16	60.6	.447	25.85	.....	.....	.....	.....	1	2	5	.....	5	3	.....
	1911	15	64.3	.390	24.45	.....	.....	.....	.....	1	2	4	6	2	.....	.....
8 plants	1911	17	65.2	.386	24.62	.....	.....	.....	.....	1	2	6	6	2	.....	.....
	1912	18	61.6	.409	23.82	.....	.....	.....	.....	1	2	6	4	5	.....	.....
Cupola tappers:																
8 plants	1907	50	60.5	.379	22.16	.....	.....	1	.....	.....	6	17	26	.....	.....	.....
	1908	43	59.3	.335	19.67	.....	.....	1	.....	2	8	27	5	.....	.....	.....
	1909	43	61.5	.340	19.74	.....	.....	1	.....	7	13	3	19	.....	.....	.....
	1910	56	58.9	.362	20.30	.....	.....	.....	1	2	17	18	15	3	.....	.....
	1911	41	59.3	.318	18.19	.....	.....	.....	1	2	12	26	.....	.....	.....	.....
9 plants	1911	45	60.4	.314	18.36	.....	.....	.....	1	2	16	26	.....	.....	.....	.....
	1912	48	60.6	.369	20.94	.....	.....	.....	1	2	18	1	26	.....	.....	.....
Blowers:																
9 plants	1907	20	65.4	.619	39.55	.....	.....	.....	.....	.....	.....	4	4	.....	3	9
	1908	19	68.8	.466	32.41	.....	.....	.....	.....	.....	.....	7	8	2	.....	2
	1909	19	68.8	.486	33.29	.....	.....	.....	.....	.....	.....	4	9	4	.....	2
	1910	20	69.8	.536	37.00	.....	.....	.....	.....	.....	.....	2	9	4	3	2
	1911	18	71.9	.498	35.84	.....	.....	.....	.....	.....	.....	2	10	4	.....	2
10 plants	1911	20	72.0	.493	35.48	.....	.....	.....	.....	.....	.....	2	12	4	.....	2
	1912	21	69.1	.529	36.36	.....	.....	.....	.....	.....	.....	.....	12	5	2	2
Regulators, first:																
9 plants	1907	26	62.3	.437	27.28	.....	.....	2	.....	.....	.....	11	9	.....	4	.....
	1908	25	64.7	.266	17.78	.....	.....	2	9	3	5	2	4	.....	.....	.....
	1909	25	64.8	.344	22.97	.....	.....	2	.....	6	5	4	2	6	.....	.....
	1910	29	61.4	.414	25.60	.....	.....	.....	.....	2	.....	11	10	4	2	.....
10 plants	1910	31	62.1	.408	25.45	.....	.....	.....	.....	2	.....	13	10	4	2	.....
	1911	24	66.8	.377	24.79	.....	2	.....	.....	2	.....	9	9	2	.....	.....
	1912	25	64.7	.411	26.24	.....	.....	.....	.....	2	.....	9	10	4	.....	.....
Regulators, second:																
6 plants	1907	18	65.3	.427	27.81	.....	.....	.....	.....	.....	.....	2	14	2	.....	.....
	1908	14	73.5	.269	19.64	.....	.....	.....	5	3	2	3	1	.....	.....	.....
	1909	14	73.8	.365	26.80	.....	.....	.....	.....	1	1	6	6	.....	.....	.....
	1910	18	66.7	.403	26.96	.....	.....	.....	.....	.....	.....	7	9	2	.....	.....
8 plants	1910	22	67.5	.378	25.52	.....	.....	.....	.....	2	2	7	9	2	.....	.....
	1911	21	65.0	.333	21.41	.....	3	.....	.....	1	1	9	7	.....	.....	.....
	1912	23	63.5	.367	23.36	.....	.....	.....	.....	.....	6	13	.....	4	.....	.....
Vessel men:																
9 plants	1907	23	58.5	.793	44.58	.....	.....	.....	.....	.....	.....	2	.....	2	5	14
	1908	22	61.1	.528	31.27	.....	.....	.....	.....	.....	.....	9	2	.....	7	4
	1909	22	61.2	.630	37.19	.....	.....	.....	.....	.....	.....	4	5	2	3	8
	1910	24	56.6	.708	38.88	.....	.....	.....	.....	.....	.....	2	2	.....	12	8
10 plants	1910	26	57.8	.685	38.18	.....	.....	.....	.....	.....	.....	2	4	.....	12	8
	1911	25	59.1	.580	32.45	.....	.....	.....	.....	.....	2	4	2	4	6	7
	1912	26	57.3	.703	38.32	.....	.....	.....	.....	.....	.....	2	5	4	3	12

[1] Earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Vessel men's helpers:																
9 plants	1907	47	57.0	$0.566	$31.84	.....	.....	.....	.....	.....	2	5	12	6	17	5
	1908	45	59.5	.376	21.65	.....	.....	.....	1	11	6	7	12	6	2	.....
	1909	45	59.6	.484	28.24	.....	.....	.....	.....	2	4	6	17	8	5	3
	1910	49	55.3	.524	28.86	.....	.....	.....	.....	.....	2	6	25	2	8	6
10 plants	1910	53	56.5	.506	28.22	.....	.....	.....	.....	2	2	8	25	2	8	6
	1911	51	57.6	.421	23.48	.....	.....	.....	2	4	5	9	14	14	1	2
	1912	53	55.9	.470	25.47	.....	.....	.....	.....	.....	3	17	11	13	5	4
Cinder pitmen:																
8 plants	1907	118	67.9	.206	13.32	.....	36	10	44	4	12	6	6	.....	.....	.....
	1908	71	65.9	.173	11.27	5	36	8	16	.....	6	.....	.....	.....	.....	.....
	1909	92	68.4	.178	11.88	8	26	19	28	5	.....	6	.....	.....	.....	.....
	1910	79	67.3	.213	13.77	.....	8	6	40	4	15	6	.....	.....	.....	.....
9 plants	1910	85	67.6	.211	13.69	.....	8	12	40	4	15	6	.....	.....	.....	.....
	1911	62	69.8	.199	13.55	.....	2	14	40	.....	.....	6	.....	.....	.....	.....
	1912	87	67.2	.204	13.27	.....	.....	13	53	15	.....	6	.....	.....	.....	.....
Bottom makers:																
9 plants	1907	17	73.4	.386	28.10	.....	.....	.....	.....	.....	5	6	4	.....	2	.....
	1908	17	72.4	.283	20.45	.....	.....	2	.....	6	5	.....	4	.....	.....	.....
	1909	16	73.1	.351	25.57	.....	.....	.....	.....	1	9	.....	2	4	.....	.....
	1910	17	73.5	.355	25.92	.....	.....	.....	.....	2	3	8	4	.....	.....	.....
10 plants	1910	19	73.4	.346	25.28	.....	.....	.....	.....	2	5	8	4	.....	.....	.....
	1911	19	71.8	.337	24.18	.....	.....	.....	.....	2	6	7	2	2	.....	.....
	1912	20	72.5	.345	24.96	.....	.....	.....	.....	2	3	11	2	2	.....	.....
Bottom makers' helpers:																
9 plants	1907	30	73.5	.257	18.82	.....	.....	.....	8	12	2	4	4	.....	.....	.....
	1908	27	72.2	.204	14.75	[1]4	.....	2	8	9	.....	4	.....	.....	.....	.....
	1909	29	73.1	.234	17.08	.....	2	.....	10	11	.....	4	2	.....	.....	.....
	1910	30	72.9	.239	17.38	.....	.....	.....	11	11	4	4	.....	.....	.....	.....
10 plants	1910	34	72.8	.235	17.10	.....	.....	2	11	13	4	4	.....	.....	.....	.....
	1911	31	72.2	.234	16.88	.....	1	2	10	9	3	6	.....	.....	.....	.....
	1912	31	72.2	.238	17.18	.....	2	2	9	6	8	2	2	.....	.....	.....
Ladle liners:																
9 plants	1907	21	65.1	.454	28.95	.....	.....	.....	.....	2	3	5	4	2	2	3
	1908	21	65.6	.306	19.78	.....	.....	2	1	4	6	3	3	2	.....	.....
	1909	21	65.1	.392	25.22	.....	.....	.....	.....	5	2	3	8	.....	2	1
	1910	23	66.3	.383	25.20	.....	.....	.....	.....	4	2	7	5	5	.....	.....
10 plants	1910	25	66.8	.378	25.05	.....	.....	.....	.....	4	2	9	5	5	.....	.....
	1911	24	68.3	.342	22.85	.....	.....	.....	2	4	4	4	6	4	.....	.....
	1912	24	68.9	.369	24.95	.....	.....	.....	.....	4	.....	12	5	3	.....	.....
Ladle liners' helpers:																
9 plants	1907	39	68.2	.255	16.65	.....	4	8	4	11	4	3	.....	2	3	.....
	1908	31	67.5	.209	13.79	.....	7	6	4	10	1	2	1	.....	.....	.....
	1909	39	68.5	.230	15.26	.....	4	8	7	13	2	.....	3	2	.....	.....
	1910	37	68.5	.239	15.83	.....	.....	12	2	15	3	.....	5	.....	.....	.....
10 plants	1910	39	68.7	.236	15.73	.....	.....	12	4	15	3	.....	5	.....	.....	.....
	1911	34	69.1	.233	15.75	.....	2	10	4	11	2	1	4	.....	.....	.....
	1912	34	69.6	.228	15.43	.....	2	10	4	9	4	2	3	.....	.....	.....

[1] Including 2 employees earning 9 and under 10 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Stopper makers:																
9 plants	1907	10	72.8	$0.316	$23.01	.....	.....	.....	1	3	3	.....	3	.....	.....	.....
	1908	9	72.9	.223	16.10	.....	1	1	1	4	1	1	.....	.....	.....	.....
	1909	9	71.6	.270	19.22	.....	.....	1	1	3	1	2	1	.....	.....	.....
	1910	11	73.1	.263	19.33	.....	.....	.....	1	5	2	3	.....	.....	.....	.....
10 plants	1910	12	73.0	.260	19.14	.....	.....	.....	1	6	2	3	.....	.....	.....	.....
	1911	10	72.0	.273	19.53	.....	.....	1	1	3	1	4	.....	.....	.....	.....
	1912	10	70.8	.272	18.91	.....	.....	.....	2	4	1	2	1	.....	.....	.....
Stopper setters:																
9 plants	1907	45	51.5	.630	31.79	.....	.....	.....	.....	.....	1	11	7	6	6	14
	1908	40	54.3	.343	18.50	.....	.....	6	10	2	4	5	7	.....	2	4
	1909	34	55.4	.552	29.36	.....	.....	.....	.....	4	4	4	2	5	3	12
	1910	37	51.5	.589	30.08	.....	.....	.....	.....	.....	.....	11	6	3	5	12
10 plants	1910	39	52.6	.577	29.81	.....	.....	.....	.....	.....	.....	13	6	3	5	12
	1911	39	55.3	.498	26.08	.....	.....	.....	.....	5	3	9	7	3	.....	12
	1912	42	51.7	.496	25.36	.....	.....	.....	.....	.....	.....	14	15	3	4	6
Steel pourers:																
9 plants	1907	29	55.4	.693	36.39	.....	.....	.....	.....	.....	2	.....	5	3	4	15
	1908	28	57.4	.439	24.25	.....	.....	.....	.....	4	5	4	1	9	5	.....
	1909	28	57.5	.576	31.61	.....	.....	.....	.....	.....	2	9	.....	.....	5	12
	1910	30	54.5	.630	32.94	.....	.....	.....	.....	.....	2	.....	7	6	3	12
10 plants	1910	32	55.6	.617	32.74	.....	.....	.....	.....	.....	2	.....	9	6	3	12
	1911	30	55.1	.535	27.91	.....	.....	3	.....	.....	2	2	3	8	9	3
	1912	32	54.7	.578	30.57	.....	.....	.....	.....	.....	2	.....	11	10	1	8
Mold cappers:																
8 plants	1907	48	54.5	.347	18.02	.....	2	2	.....	4	4	27	3	6	.....	.....
	1908	39	53.7	.196	10.57	.....	1	20	8	5	3	2	.....	.....	.....	.....
	1909	43	54.0	.271	14.26	2	.....	2	2	26	.....	5	.....	6	.....	.....
	1910	46	55.0	.326	17.07	.....	.....	4	4	2	3	27	.....	6	.....	.....
9 plants	1910	52	57.0	.314	16.96	.....	.....	4	4	8	3	27	.....	6	.....	.....
	1911	37	64.2	.282	17.36	.....	.....	1	8	6	10	6	6	.....	.....	.....
	1912	44	59.5	.324	18.03	.....	.....	.....	8	6	6	16	2	6	.....	.....
Ingot strippers:																
9 plants	1907	29	67.4	.310	19.60	.....	.....	.....	.....	12	6	5	4	2	.....	.....
	1908	28	68.4	.238	16.34	.....	.....	.....	4	12	10	2	.....	.....	.....	.....
	1909	28	70.2	.264	18.17	.....	.....	.....	.....	12	10	6	.....	.....	.....	.....
	1910	29	67.9	.307	19.85	.....	.....	.....	.....	8	12	.....	9	.....	.....	.....
10 plants	1910	31	68.1	.303	19.69	.....	.....	.....	.....	10	12	.....	9	.....	.....	.....
	1911	27	70.4	.282	19.26	.....	.....	.....	4	8	10	.....	5	.....	.....	.....
	1912	28	68.8	.320	20.90	.....	.....	.....	.....	8	12	2	.....	6	.....	.....
Laborers:																
9 plants	1907	801	78.0	.155	12.12	.....	571	230	.....	.....	.....	.....	.....	.....	.....	.....
	1908	425	76.2	.155	11.80	.....	327	98	.....	.....	.....	.....	.....	.....	.....	.....
	1909	564	76.9	.151	11.62	92	309	163	.....	.....	.....	.....	.....	.....	.....	.....
	1910	748	78.1	.163	12.69	.....	204	544	.....	.....	.....	.....	.....	.....	.....	.....
10 plants	1910	786	77.8	.163	12.69	.....	204	582	.....	.....	.....	.....	.....	.....	.....	.....
	1911	593	74.6	.166	12.39	.....	105	488	.....	.....	.....	.....	.....	.....	.....	.....
	1912	626	75.7	.167	12.64	.....	49	577	.....	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

PER CENT.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Stockers:																
9 plants	1907	371	62.5	$0.246	$14.27	.....	17.0	26.1	1.6	12.4	14.6	21.8	6.5	.....	.....	.....
	1908	260	58.3	.275	14.93	[1] 6.2	8.1	21.2	.....	7.7	18.5	23.1	6.2	9.2	.....	.....
	1909	266	63.6	.264	15.31	8.3	18.4	13.9	5.6	7.1	4.5	20.3	18.4	3.4	.....	.....
	1910	350	64.9	.266	16.04	.....	2.9	32.9	4.6	9.1	16.3	19.7	14.6	.....	.....	.....
10 plants	1910	352	64.9	.266	16.03	.....	2.8	32.7	4.5	9.7	16.2	19.6	14.5	.....	.....	.....
	1911	241	61.7	.233	13.60	.....	5.0	33.6	6.2	24.1	16.2	10.0	5.0	.....	.....	.....
	1912	268	62.0	.312	17.66	.....	....	29.9	7.8	8.6	4.9	20.5	14.9	13.4	.....	.....
Cupola melters:																
7 plants	1907	15	65.2	.509	31.67	.....	.....	.....	.....	6.7	6.7	20.0	.....	33.3	13.3	20.0
	1908	15	64.7	.350	22.20	.....	.....	.....	.....	13.3	20.0	33.3	20.0	13.3	.....	.....
	1909	15	64.7	.419	26.09	.....	.....	.....	.....	20.0	.....	13.3	33.3	33.3	.....	.....
	1910	16	60.6	.447	25.85	.....	.....	.....	.....	6.3	12.5	31.3	.....	31.3	18.8	.....
	1911	15	64.3	.390	24.45	.....	.....	.....	.....	6.7	13.3	26.7	40.0	13.3	.....	.....
8 plants	1911	17	65.2	.386	24.62	.....	.....	.....	.....	5.9	11.8	35.3	35.3	11.8	.....	.....
	1912	18	61.6	.409	23.82	.....	.....	.....	.....	5.6	11.1	33.3	22.2	27.8	.....	.....
Cupola tappers:																
8 plants	1907	50	60.5	.379	22.16	.....	.....	2.0	.....	.....	12.0	34.0	52.0	.....	.....	.....
	1908	43	59.3	.335	19.67	.....	.....	2.3	.....	4.7	18.6	62.8	11.6	.....	.....	.....
	1909	43	61.5	.340	19.74	.....	.....	2.3	.....	16.3	30.2	7.0	44.2	.....	.....	.....
	1910	56	58.9	.362	20.30	.....	.....	.....	1.8	3.6	30.4	32.1	26.8	5.4	.....	.....
	1911	41	59.3	.318	18.19	.....	.....	.....	2.4	4.9	29.3	63.4	.....	.....	.....	.....
9 plants	1911	45	60.4	.314	18.36	.....	.....	.....	2.2	4.4	35.6	57.8	.....	.....	.....	.....
	1912	48	60.6	.369	20.94	.....	.....	.....	2.1	4.2	37.5	2.1	54.2	.....	.....	.....
Blowers:																
9 plants	1907	20	65.4	.619	39.55	.....	.....	.....	.....	.....	.....	20.0	20.0	.....	15.0	45.0
	1908	19	68.8	.466	32.41	.....	.....	.....	.....	.....	.....	36.8	42.1	10.5	.....	10.5
	1909	19	68.8	.486	33.29	.....	.....	.....	.....	.....	.....	21.1	47.4	21.1	.....	10.5
	1910	20	69.8	.536	37.00	.....	.....	.....	.....	.....	.....	10.0	45.0	20.0	15.0	10.0
	1911	18	71.9	.498	35.84	.....	.....	.....	.....	.....	.....	11.1	55.6	22.2	.....	11.1
10 plants	1911	20	72.0	.493	35.48	.....	.....	.....	.....	.....	.....	10.0	60.0	20.0	.....	10.0
	1912	21	69.1	.529	36.36	.....	.....	.....	.....	.....	.....	.....	57.1	23.8	9.5	9.5
Regulators, first:																
9 plants	1907	26	62.3	.437	27.28	.....	.....	7.7	.....	.....	.....	42.3	34.6	.....	15.4	.....
	1908	25	64.7	.266	17.78	.....	.....	8.0	36.0	12.0	20.0	8.0	16.0	.....	.....	.....
	1909	25	64.8	.344	22.97	.....	.....	8.0	.....	24.0	20.0	16.0	8.0	24.0	.....	.....
	1910	29	61.4	.414	25.60	.....	.....	.....	.....	6.9	.....	37.9	34.5	13.8	6.9	.....
10 plants	1910	31	62.1	.408	25.45	.....	.....	.....	.....	6.5	.....	41.9	32.3	12.9	6.5	.....
	1911	24	66.8	.377	24.79	.....	8.3	.....	.....	8.3	.....	37.5	37.5	8.3	.....	.....
	1912	25	64.7	.411	26.24	.....	.....	.....	.....	8.0	.....	36.0	40.0	16.0	.....	.....
Regulators, second:																
6 plants	1907	18	65.3	.427	27.81	.....	.....	.....	.....	.....	.....	11.1	77.8	11.1	.....	.....
	1908	14	73.5	.269	19.64	.....	.....	.....	35.7	21.4	14.3	21.4	7.1	.....	.....	.....
	1909	14	73.8	.365	26.80	.....	.....	.....	.....	7.1	7.1	42.9	42.9	.....	.....	.....
	1910	18	66.7	.403	26.96	.....	.....	.....	.....	.....	.....	38.9	50.0	11.1	.....	.....
8 plants	1910	22	67.5	.378	25.52	.....	.....	.....	.....	9.1	9.1	31.8	40.9	9.1	.....	.....
	1911	21	65.0	.333	21.41	.....	14.3	.....	.....	4.8	4.8	42.9	33.3	.....	.....	.....
	1912	23	63.5	.367	23.36	.....	.....	.....	.....	.....	26.1	56.5	.....	17.4	.....	.....
Vessel men:																
9 plants	1907	23	58.5	.793	44.58	.....	.....	.....	.....	.....	.....	8.7	.....	8.7	21.7	60.9
	1908	22	61.1	.528	31.27	.....	.....	.....	.....	.....	.....	40.9	9.1	.....	31.8	18.2
	1909	22	61.2	.630	37.19	.....	.....	.....	.....	.....	.....	18.2	22.7	9.1	13.6	36.4
	1910	24	56.6	.708	38.88	.....	.....	.....	.....	.....	.....	8.3	8.3	.....	50.0	33.3
10 plants	1910	26	57.8	.685	38.18	.....	.....	.....	.....	.....	.....	7.7	15.4	.....	46.2	30.8
	1911	25	59.1	.580	32.45	.....	.....	.....	.....	.....	8.0	16.0	8.0	16.0	24.0	28.0
	1912	26	57.3	.703	38.32	.....	.....	.....	.....	.....	.....	7.7	19.2	15.4	11.5	46.2

[1] Earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Vessel men's helpers:																
9 plants	1907	47	57.0	$0.566	$31.84	.....	.....	.....	.....	.....	4.3	10.6	25.5	12.8	36.2	10.6
	1908	45	59.5	.376	21.65	.....	.....	.....	2.2	24.4	13.3	15.6	26.7	13.3	4.4	.....
	1909	45	59.6	.484	28.24	.....	.....	.....	.....	4.4	8.9	13.3	37.8	17.8	11.1	6.7
	1910	49	55.3	.524	28.86	.....	.....	.....	.....	.....	4.1	12.2	51.0	4.1	16.3	12.2
10 plants	1910	53	56.5	.506	28.22	.....	.....	.....	.....	3.8	3.8	15.1	47.2	3.8	15.1	11.3
	1911	51	57.6	.421	23.48	.....	.....	.....	3.9	7.8	9.8	17.6	27.5	27.5	2.0	3.9
	1912	53	55.9	.470	25.47	.....	.....	.....	.....	.....	5.7	32.1	20.8	24.5	9.4	7.5
Cinder pitmen:																
8 plants	1907	118	67.9	.206	13.32	.....	30.5	8.5	37.3	3.4	10.2	5.1	5.1	.....	.....	.....
	1908	71	65.9	.173	11.27	7.0	50.7	11.3	22.5	.....	8.5	.....	.....	.....	.....	.....
	1909	92	68.4	.178	11.88	8.7	28.3	20.7	30.4	5.4	.....	6.5	.....	.....	.....	.....
	1910	79	67.3	.213	13.77	.....	10.1	7.6	50.6	5.1	19.0	7.6	.....	.....	.....	.....
9 plants	1910	85	67.6	.211	13.69	.....	9.4	14.1	47.1	4.7	17.6	7.1	.....	.....	.....	.....
	1911	62	69.8	.199	13.55	.....	3.2	22.6	64.5	.....	.....	9.7	.....	.....	.....	.....
	1912	87	67.2	.204	13.27	.....	.....	14.9	60.9	17.2	.....	6.9	.....	.....	.....	.....
Bottom makers:																
9 plants	1907	17	73.4	.386	28.10	.....	.....	.....	.....	.....	29.4	35.3	23.5	.....	11.8	.....
	1908	17	72.4	.283	20.45	.....	.....	11.8	.....	35.3	29.4	.....	23.5	.....	.....	.....
	1909	16	73.1	.351	25.57	.....	.....	.....	.....	6.3	56.3	.....	12.5	25.0	.....	.....
	1910	17	73.5	.355	25.92	.....	.....	.....	.....	11.8	17.6	47.1	23.5	.....	.....	.....
10 plants	1910	19	73.4	.346	25.28	.....	.....	.....	.....	10.5	26.3	42.1	21.1	.....	.....	.....
	1911	19	71.8	.337	24.18	.....	.....	.....	.....	10.5	31.6	36.8	10.5	10.5	.....	.....
	1912	20	72.5	.345	24.96	.....	.....	.....	.....	10.0	15.0	55.0	10.0	10.0	.....	.....
Bottom makers' helpers:																
9 plants	1907	30	73.5	.257	18.82	.....	.....	.....	26.7	40.0	6.7	13.3	13.3	.....	.....	.....
	1908	27	72.2	.204	14.75	[1]14.8	.....	7.4	29.6	33.3	.....	14.8	.....	.....	.....	.....
	1909	29	73.1	.234	17.08	.....	6.9	.....	34.5	37.9	.....	13.8	6.9	.....	.....	.....
	1910	30	72.9	.239	17.38	.....	.....	.....	36.7	36.7	13.3	13.3	.....	.....	.....	.....
10 plants	1910	34	72.8	.235	17.10	.....	.....	5.9	32.4	38.2	11.8	11.8	.....	.....	.....	.....
	1911	31	72.2	.234	16.88	.....	3.2	6.5	32.3	29.0	9.7	19.4	.....	.....	.....	.....
	1912	31	72.2	.238	17.18	.....	6.5	6.5	29.0	19.4	25.8	6.5	6.5	.....	.....	.....
Ladle liners:																
9 plants	1907	21	65.1	.454	28.95	.....	.....	.....	.....	9.5	14.3	23.8	19.0	9.5	9.5	14.3
	1908	21	65.6	.306	19.78	.....	.....	9.5	4.8	19.0	28.6	14.3	14.3	9.5	.....	.....
	1909	21	65.1	.392	25.22	.....	.....	.....	.....	23.8	9.5	14.3	38.1	.....	9.5	4.8
	1910	23	66.3	.383	25.20	.....	.....	.....	.....	17.4	8.7	30.4	21.7	21.7	.....	.....
10 plants	1910	25	66.8	.378	25.05	.....	.....	.....	.....	16.0	8.0	36.0	20.0	20.0	.....	.....
	1911	24	68.3	.342	22.85	.....	.....	.....	8.3	16.7	16.7	16.7	25.0	16.7	.....	.....
	1912	24	68.9	.369	24.95	.....	.....	.....	.....	16.7	.....	50.0	20.8	12.5	.....	.....
Ladle liners' helpers:																
9 plants	1907	39	68.2	.255	16.65	.....	10.3	20.5	10.3	28.2	10.3	7.7	.....	5.1	7.7	.....
	1908	31	67.5	.209	13.79	.....	22.6	19.4	12.9	32.2	3.2	6.5	3.2	.....	.....	.....
	1909	39	68.5	.230	15.26	.....	10.3	20.5	17.9	33.3	5.1	.....	7.7	5.1	.....	.....
	1910	37	68.5	.239	15.83	.....	.....	32.4	5.4	40.5	8.1	.....	13.5	.....	.....	.....
10 plants	1910	39	68.7	.236	15.73	.....	.....	30.8	10.3	38.5	7.7	.....	12.8	.....	.....	.....
	1911	34	69.1	.233	15.75	.....	5.9	29.4	11.8	32.4	5.9	2.9	11.8	.....	.....	.....
	1912	34	69.6	.228	15.43	.....	5.9	29.4	11.8	26.5	11.8	5.9	8.8	.....	.....	.....
Stopper makers:																
9 plants	1907	10	72.8	.316	23.01	.....	.....	.....	10.0	30.0	30.0	.....	30.0	.....	.....	.....
	1908	9	72.9	.223	16.10	.....	11.1	11.1	11.1	44.4	11.1	11.1	.....	.....	.....	.....
	1909	9	71.6	.270	19.22	.....	.....	11.1	11.1	33.3	11.1	22.2	11.1	.....	.....	.....
	1910	11	73.1	.263	19.33	.....	.....	.....	9.1	45.5	18.2	27.3	.....	.....	.....	.....
10 plants	1910	12	73.0	.260	19.14	.....	.....	.....	8.3	50.0	16.7	25.0	.....	.....	.....	.....
	1911	10	72.0	.273	19.53	.....	.....	10.0	10.0	30.0	10.0	40.0	.....	.....	.....	.....
	1912	10	70.8	.272	18.91	.....	.....	.....	20.0	40.0	10.0	20.0	10.0	.....	.....	.....

[1] Including 7.4 per cent earning 9 and under 10 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Concluded.

BESSEMER CONVERTERS—Continued.

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Stopper setters:																
9 plants	1907	45	51.5	$0.630	$31.79	.....	.....	.....	.....	.....	2.2	24.4	15.6	13.3	13.3	31.1
	1908	40	54.3	.343	18.50	.....	.....	15.0	25.0	5.0	10.0	12.5	17.5	.....	5.0	10.0
	1909	34	55.4	.552	29.36	.....	.....	.....	.....	11.8	11.8	11.8	5.9	14.7	8.8	35.3
	1910	37	51.5	.589	30.08	.....	.....	.....	.....	.....	.....	29.7	16.2	8.1	13.5	32.4
10 plants	1910	39	52.6	.577	29.81	.....	.....	.....	.....	.....	.....	33.3	15.4	7.7	12.8	30.8
	1911	39	55.3	.498	26.08	.....	.....	.....	.....	12.8	7.7	23.1	17.9	7.7	.....	30.8
	1912	42	51.7	.496	25.36	.....	.....	.....	.....	.....	.....	33.3	35.7	7.1	9.5	14.3
Steel pourers:																
9 plants	1907	29	55.4	.693	36.39	.....	.....	.....	.....	.....	6.9	.....	17.2	10.3	13.8	51.7
	1908	28	57.4	.439	24.25	.....	.....	.....	.....	14.3	17.9	14.3	3.6	32.1	17.9	.....
	1909	28	57.5	.576	31.61	.....	.....	.....	.....	.....	7.1	32.1	.....	.....	17.9	42.9
	1910	30	54.5	.630	32.94	.....	.....	.....	.....	.....	6.7	.....	23.3	20.0	10.0	40.0
10 plants	1910	32	55.6	.617	32.74	.....	.....	.....	.....	.....	6.3	.....	28.1	18.8	9.4	37.5
	1911	30	55.1	.535	27.91	.....	.....	10.0	.....	.....	6.7	6.7	10.0	26.7	30.0	10.0
	1912	32	54.7	.578	30.57	.....	.....	.....	.....	.....	6.3	.....	34.4	31.3	3.1	25.0
Mold cappers:																
8 plants	1907	48	54.5	.347	18.02	.....	4.2	4.2	.....	8.3	8.3	56.3	6.3	12.5	.....	.....
	1908	39	53.7	.196	10.57	.....	2.6	51.3	20.5	12.8	7.7	5.1	.....	.....	.....	.....
	1909	43	54.0	.271	14.26	4.7	.....	4.7	4.7	60.5	.....	11.6	.....	14.0	.....	.....
	1910	46	55.0	.326	17.07	.....	.....	8.7	8.7	4.3	6.5	58.7	.....	13.0	.....	.....
9 plants	1910	52	57.0	.314	16.96	.....	.....	7.7	7.7	15.4	5.8	51.9	.....	11.5	.....	.....
	1911	37	64.2	.282	17.36	.....	.....	2.7	21.6	16.2	27.0	16.2	16.2	.....	.....	.....
	1912	44	59.5	.324	18.03	.....	.....	.....	18.2	13.6	13.6	36.4	4.5	13.6	.....	.....
Ingot strippers:																
9 plants	1907	29	67.4	.310	19.60	.....	.....	.....	.....	41.4	20.7	17.2	13.8	6.9	.....	.....
	1908	28	68.4	.238	16.34	.....	.....	.....	14.3	42.9	35.7	7.1	.....	.....	.....	.....
	1909	28	70.2	.264	18.17	.....	.....	.....	.....	42.9	35.7	21.4	.....	.....	.....	.....
	1910	29	67.9	.307	19.85	.....	.....	.....	.....	27.6	41.4	.....	31.0	.....	.....	.....
10 plants	1910	31	68.1	.303	19.69	.....	.....	.....	.....	32.3	38.7	.....	29.0	.....	.....	.....
	1911	27	70.4	.282	19.26	.....	.....	.....	14.8	29.6	37.0	.....	18.5	.....	.....	.....
	1912	28	68.8	.320	20.90	.....	.....	.....	.....	28.6	42.9	7.1	.....	21.4	.....	.....
Laborers:																
9 plants	1907	801	78.0	.155	12.12	.....	71.3	28.7	.....	.....	.....	.....	.....	.....	.....	.....
	1908	425	76.2	.155	11.80	.....	76.9	23.1	.....	.....	.....	.....	.....	.....	.....	.....
	1909	564	76.9	.151	11.62	16.3	54.8	28.9	.....	.....	.....	.....	.....	.....	.....	.....
	1910	748	78.1	.163	12.69	.....	27.3	72.7	.....	.....	.....	.....	.....	.....	.....	.....
10 plants	1910	786	77.8	.163	12.69	.....	26.0	74.0	.....	.....	.....	.....	.....	.....	.....	.....
	1911	593	74.6	.166	12.39	.....	17.7	82.3	.....	.....	.....	.....	.....	.....	.....	.....
	1912	626	75.7	.167	12.64	.....	7.8	92.2	.....	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912.

BESSEMER CONVERTERS—Continued.

The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West." For explanation of averages see p. 20.]

STOCKERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Pittsburgh	6	275	57.7	$0.275	$14.97	.....	....	68	6	42	54	81	24	.....	.....	.....
G. L. and M. W.	3	96	76.3	.161	12.25	.....	63	29	....	4	.....	.....	.....	.....	.....	.....
Total	9	371	62.5	.246	14.27	.....	63	97	6	46	54	81	24	.....	.....	.....
1908.																
Pittsburgh	6	224	55.8	.293	15.42	[1] 16	....	44	....	16	48	60	16	24	....	.....
G. L. and M. W.	3	36	74.2	.159	11.85	.....	21	11	....	4	.....	.....	.....	.....	.....	.....
Total	9	260	58.3	.275	14.93	[1] 16	21	55	....	20	48	60	16	24	....	.....
1909.																
Pittsburgh	6	213	60.2	.291	16.13	.....	37	28	9	15	12	54	49	9	....	.....
G. L. and M. W.	3	53	77.5	.155	12.01	22	12	9	6	4	.....	.....	.....	.....	.....	.....
Total	9	266	63.6	.264	15.31	22	49	37	15	19	12	54	49	9	....	.....
1910.																
Pittsburgh	6	296	61.9	.283	16.33	.....	....	86	14	19	57	69	51	.....	.....	.....
G. L. and M. W.	4	56	80.6	.180	14.48	.....	10	29	2	15	.....	.....	.....	.....	.....	.....
Total	10	352	64.9	.266	16.03	.....	10	115	16	34	57	69	51	.....	.....	.....
1911.																
Pittsburgh	6	182	58.2	.252	13.96	.....	3	45	5	54	39	24	12	.....	.....	.....
G. L. and M. W.	4	59	72.4	.172	12.49	.....	9	36	10	4	.....	.....	.....	.....	.....	.....
Total	10	241	61.7	.233	13.60	.....	12	81	15	58	39	24	12	.....	.....	.....
1912.																
Pittsburgh	6	211	58.6	.347	18.77	.....	....	42	18	9	13	53	40	36	....	.....
G. L. and M. W.	4	57	74.6	.182	13.51	.....	....	38	3	14	.....	2	.....	.....	.....	.....
Total	10	268	62.0	.312	17.66	.....	....	80	21	23	13	55	40	36	....	.....

CUPOLA MELTERS.

1907.																
Pittsburgh	5	12	62.5	$0.560	$33.71	.....	....	.....	....	....	1	1	.....	5	2	3
G. L. and M. W.	2	3	76.0	.307	23.50	.....	....	.....	....	1	.....	2	.....	.....	.....	.....
Total	7	15	65.2	.509	31.67	.....	....	.....	....	1	1	3	.....	5	2	3
1908.																
Pittsburgh	5	12	61.9	.365	22.15	.....	....	.....	....	1	3	3	3	2	....	.....
G. L. and M. W.	2	3	76.0	.293	22.40	.....	....	.....	....	1	.....	2	.....	.....	.....	.....
Total	7	15	64.7	.350	22.20	.....	....	.....	....	2	3	5	3	2	....	.....

[1] Earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

CUPOLA MELTERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1909.																
Pittsburgh	5	12	61.9	$0.450	$27.01	.....	.....	.....	.....	2	.....	.....	5	5	.....	.....
G. L. and M. W.	2	3	76.0	.293	22.40	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....
Total	7	15	64.7	.419	26.09	.....	.....	.....	.....	3	.....	2	5	5	.....	.....
1910.																
Pittsburgh	5	13	57.5	.484	26.90	.....	.....	.....	.....	.....	2	3	.....	5	3	.....
G. L. and M. W.	2	3	74.0	.287	21.30	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....
Total	7	16	60.6	.447	25.85	.....	.....	.....	.....	1	2	5	.....	5	3	.....
1911.																
Pittsburgh	5	12	61.9	.413	25.08	.....	.....	.....	.....	.....	2	2	6	2	.....	.....
G. L. and M. W.	3	5	73.2	.321	23.53	.....	.....	.....	.....	1	.....	4	.....	.....	.....	.....
Total	8	17	65.2	.386	24.62	.....	.....	.....	.....	1	2	6	6	2	.....	.....
1912.																
Pittsburgh	5	13	57.2	.442	23.88	.....	.....	.....	.....	.....	2	2	4	5	.....	.....
G. L. and M. W.	3	5	73.2	.323	23.64	.....	.....	.....	.....	1	.....	4	.....	.....	.....	.....
Total	8	18	61.6	.409	23.82	.....	.....	.....	.....	1	2	6	4	5	.....	.....

CUPOLA TAPPERS.

1907.																
Pittsburgh	5	43	57.8	$0.396	$22.31	.....	.....	.....	.....	.....	2	15	26	.....	.....	.....
G. L. and M. W.	3	7	77.1	.274	21.21	.....	.....	1	.....	.....	4	2	.....	.....	.....	.....
Total	8	50	60.5	.379	22.16	.....	.....	1	.....	.....	6	17	26	.....	.....	.....
1908.																
Pittsburgh	5	38	57.3	.346	19.86	.....	.....	.....	.....	1	5	27	5	.....	.....	.....
G. L. and M. W.	3	5	74.4	.245	18.23	.....	.....	1	.....	1	3	.....	.....	.....	.....	.....
Total	8	43	59.3	.335	19.67	.....	.....	1	.....	2	8	27	5	.....	.....	.....
1909.																
Pittsburgh	5	34	57.2	.364	19.86	.....	.....	.....	.....	6	6	3	19	.....	.....	.....
G. L. and M. W.	3	9	77.7	.248	19.31	.....	.....	1	.....	1	7	.....	.....	.....	.....	.....
Total	8	43	61.5	.340	19.74	.....	.....	1	.....	7	13	3	19	.....	.....	.....
1910.																
Pittsburgh	5	48	55.4	.382	20.40	.....	.....	.....	.....	.....	12	18	15	3	.....	.....
G. L. and M. W.	3	8	80.3	.244	19.73	.....	.....	.....	1	2	5	.....	.....	.....	.....	.....
Total	8	56	58.9	.362	20.30	.....	.....	.....	1	2	17	18	15	3	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

CUPOLA TAPPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Pittsburgh	5	34	56.5	$0.332	$18.22						8	26				
G. L. and M. W.	4	11	72.5	.259	18.78				1	2	8					
Total	9	45	60.4	.314	18.36				1	2	16	26				
1912.																
Pittsburgh	5	33	53.7	.423	21 83						6	1	26			
G. L. and M. W.	4	15	75.6	.251	18.98				1	2	12					
Total	9	48	60.6	.369	20.94				1	2	18	1	26			
BLOWERS.																
1907.																
Pittsburgh	6	14	61.6	$0.658	$39.88								4		3	7
G. L. and M. W.	3	6	74.0	.528	38.79							4				2
Total	9	20	65.4	.619	39.55							4	4		3	9
1908.																
Pittsburgh	6	13	66.4	.438	29.46							3	8	2		
G. L. and M. W.	3	6	74.0	.528	38.79							4				2
Total	9	19	68.8	.466	32.41							7	8	2		2
1909.																
Pittsburgh	6	13	66.4	.467	30.75								9	4		
G. L. and M. W.	3	6	74.2	.527	38.80							4				2
Total	9	19	68.8	.486	33.29							4	9	4		2
1910.																
Pittsburgh	6	14	67.1	.510	33.40								9	2	3	
G. L. and M. W.	3	6	76.0	.597	45.38							2		2		2
Total	9	20	69.8	.536	37.00							2	9	4	3	2
1911.																
Pittsburgh	6	12	71.9	.479	34.44								8	4		
G. L. and M. W.	4	8	72.0	.514	37.03							2	4			2
Total	10	20	72.0	.493	35.48							2	12	4		2
1912.																
Pittsburgh	6	13	66.4	.530	34.96								6	5	2	
G. L. and M. W.	4	8	73.5	.527	38.63								6			2
Total	10	21	69.1	.529	36.36								12	5	2	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

REGULATORS, FIRST.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Pittsburgh	6	20	57.6	$0.437	$25.55	.....	.....	.....	.....	.....	.....	11	7	.....	2	.....
G. L. and M. W.	3	6	78.0	.437	33.06	.....	.....	2	.....	.....	.....	.....	2	.....	2	.....
Total	9	26	62.3	.437	27.28	.....	.....	2	.....	.....	.....	11	9	.....	4	.....
1908.																
Pittsburgh	6	19	60.5	.262	16.66	.....	.....	.....	9	1	5	2	2	.....	.....	.....
G. L. and M. W.	3	6	78.0	.281	21.33	.....	.....	2	.....	2	.....	.....	2	.....	.....	.....
Total	9	25	64.7	.266	17.78	.....	.....	2	9	3	5	2	4	.....	.....	.....
1909.																
Pittsburgh	6	19	60.6	.337	21.45	.....	.....	.....	.....	6	5	2	2	4	.....	.....
G. L. and M. W.	3	6	78.2	.366	27.79	.....	.....	2	.....	.....	.....	2	.....	2	.....	.....
Total	9	25	64.8	.344	22.97	.....	.....	2	.....	6	5	4	2	6	.....	.....
1910.																
Pittsburgh	6	23	56.6	.410	23.52	.....	.....	.....	.....	.....	.....	11	8	4	.....	.....
G. L. and M. W.	4	8	78.0	.404	31.02	.....	.....	.....	.....	2	.....	2	2	.....	2	.....
Total	10	31	62.1	.408	25.45	.....	.....	.....	.....	2	.....	13	10	4	2	.....
1911.																
Pittsburgh	6	16	62.8	.409	25.62	.....	.....	.....	.....	.....	.....	9	5	2	.....	.....
G. L. and M. W.	4	8	75.0	.312	23.12	.....	2	.....	.....	2	.....	.....	4	.....	.....	.....
Total	10	24	66.8	.377	24.79	.....	2	.....	.....	2	.....	9	9	2	.....	.....
1912.																
Pittsburgh	6	17	59.1	.435	25.85	.....	.....	.....	.....	.....	.....	6	7	4	.....	.....
G. L. and M. W.	4	8	76.5	.359	27.07	.....	.....	.....	.....	2	.....	3	3	.....	.....	.....
Total	10	25	64.7	.411	26.24	.....	.....	.....	.....	2	.....	9	10	4	.....	.....

REGULATORS, SECOND.

1907.																
Pittsburgh	5	14	61.6	$0.433	$26.75	.....	.....	.....	.....	.....	.....	2	10	2	.....	.....
G. L. and M. W.	1	4	78.0	.404	31.51	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
Total	6	18	65.3	.427	27.81	.....	.....	.....	.....	.....	.....	2	14	2	.....	.....
1908.																
Pittsburgh	5	10	71.7	.297	21.32	.....	.....	.....	1	3	2	3	1	.....	.....	.....
G. L. and M. W.	1	4	78.0	.198	15.44	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
Total	6	14	73.5	.269	19.64	.....	.....	.....	5	3	2	3	1	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

REGULATORS, SECOND—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1909.																
Pittsburgh	5	10	71.9	$0.385	$27.66	.....	.....	.....	.....	1	1	2	6	.....	.....	.....
G. L. and M. W.	1	4	78.5	.314	24.65	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
Total	6	14	73.8	.365	26.80	.....	.....	.....	.....	1	1	6	6	.....	.....	.....
1910.																
Pittsburgh	6	16	62.9	.383	24.05	.....	.....	.....	.....	2	.....	7	5	2	.....	.....
G. L. and M. W.	2	6	80.0	.364	29.44	.....	.....	.....	.....	.....	2	.....	4	.....	.....	.....
Total	8	22	67.5	.378	25.52	.....	.....	.....	.....	2	2	7	9	2	.....	.....
1911.																
Pittsburgh	6	16	62.8	.363	22.75	.....	.....	.....	.....	1	1	7	7	.....	.....	.....
G. L. and M. W.	2	5	72.0	.238	17.11	.....	3	.....	.....	.....	.....	2	.....	.....	.....	.....
Total	8	21	65.0	.333	21.41	.....	3	.....	.....	1	1	9	7	.....	.....	.....
1912.																
Pittsburgh	6	17	59.1	.385	23.11	.....	.....	.....	.....	.....	2	11	.....	4	.....	.....
G. L. and M. W.	2	6	76.0	.318	24.06	.....	.....	.....	.....	.....	4	2	.....	.....	.....	.....
Total	8	23	63.5	.367	23.36	.....	.....	.....	.....	.....	6	13	.....	4	.....	.....
VESSEL MEN.																
1907.																
Pittsburgh	6	16	54.1	$0.781	$41.54	.....	.....	.....	.....	.....	.....	.....	.....	2	5	9
G. L. and M. W.	3	7	68.6	.821	51.54	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	5
Total	9	23	58.5	.793	44.58	.....	.....	.....	.....	.....	.....	2	.....	2	5	14
1908.																
Pittsburgh	6	15	57.7	.527	30.19	.....	.....	.....	.....	.....	.....	5	2	.....	7	1
G. L. and M. W.	3	7	68.6	.531	33.58	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	3
Total	9	22	61.1	.528	31.27	.....	.....	.....	.....	.....	.....	9	2	.....	7	4
1909.																
Pittsburgh	6	15	57.7	.597	33.93	.....	.....	.....	.....	.....	.....	2	5	.....	3	5
G. L. and M. W.	3	7	68.7	.701	44.19	.....	.....	.....	.....	.....	.....	2	.....	2	.....	3
Total	9	22	61.2	.630	37.19	.....	.....	.....	.....	.....	.....	4	5	2	3	8
1910.																
Pittsburgh	6	17	51.0	.678	34.03	.....	.....	.....	.....	.....	.....	.....	2	.....	12	3
G. L. and M. W.	4	9	70.7	.700	46.01	.....	.....	.....	.....	.....	.....	2	2	.....	.....	5
Total	10	26	57.8	.685	38.18	.....	.....	.....	.....	.....	.....	2	4	.....	12	8

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

VESSEL MEN—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Pittsburgh	6	16	54.1	$0.608	$31.72	.....	.....	.....	.....	.....	.....	2	2	2	6	4
G. L. and M. W.	4	9	68.0	.532	33.76	.....	.....	.....	.....	.....	2	2	.....	2	.....	3
Total	10	25	59.1	.580	32.45	.....	.....	.....	.....	.....	2	4	2	4	6	7
1912.																
Pittsburgh	6	17	50.9	.757	37.77	.....	.....	.....	.....	.....	.....	.....	5	.....	3	9
G. L. and M. W.	4	9	69.3	.599	39.35	.....	.....	.....	.....	.....	.....	2	.....	4	.....	3
Total	10	26	57.3	.703	38.32	.....	.....	.....	.....	.....	.....	2	5	4	3	12

VESSEL MEN'S HELPERS.

1907.																
Pittsburgh	6	32	54.1	$0.520	$28.06	.....	.....	.....	.....	.....	.....	5	12	4	11	.....
G. L. and M. W.	3	15	63.2	.662	39.90	.....	.....	.....	.....	.....	2	.....	.....	2	6	5
Total	9	47	57.0	.566	31.84	.....	.....	.....	.....	.....	2	5	12	6	17	5
1908.																
Pittsburgh	6	30	57.7	.357	20.12	.....	.....	.....	1	11	2	4	7	5	.....	.....
G. L. and M. W.	3	15	63.2	.413	24.69	.....	.....	.....	.....	.....	4	3	5	1	2	.....
Total	9	45	59.5	.376	21.65	.....	.....	.....	1	11	6	7	12	6	2	.....
1909.																
Pittsburgh	6	30	57.7	.447	25.54	.....	.....	.....	.....	2	2	6	15	1	4	.....
G. L. and M. W.	3	15	63.3	.559	33.64	.....	.....	.....	.....	.....	2	.....	2	7	1	3
Total	9	45	59.6	.484	28.24	.....	.....	.....	.....	2	4	6	17	8	5	3
1910.																
Pittsburgh	6	34	51.1	.477	24.37	.....	.....	.....	.....	.....	.....	6	25	.....	.....	3
G. L. and M. W.	4	19	66.3	.557	35.10	.....	.....	.....	.....	2	2	2	.....	2	8	3
Total	10	53	56.5	.506	28.22	.....	.....	.....	.....	2	2	8	25	2	8	6
1911.																
Pittsburgh	6	32	53.9	.432	22.97	.....	.....	.....	.....	2	3	7	8	12	.....	.....
G. L. and M. W.	4	19	63.8	.404	24.34	.....	.....	.....	2	2	2	2	6	2	1	2
Total	10	51	57.6	.421	23.48	.....	.....	.....	2	4	5	9	14	14	1	2
1912.																
Pittsburgh	6	34	50.8	.477	23.71	.....	.....	.....	.....	.....	.....	13	4	11	3	3
G. L. and M. W.	4	19	65.1	.457	28.64	.....	.....	.....	.....	.....	3	4	7	2	2	1
Total	10	53	55.9	.470	25.47	.....	.....	.....	.....	.....	3	17	11	13	5	4

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

CINDER PITMEN.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Pittsburgh	5	104	66.3	$0.212	$13.34	.....	32	.....	44	4	12	6	6	.....	.....	.....
G. L. and M. W.	3	14	80.6	.163	13.17	.....	4	10	.....	.....	.....	.....	.....	.....	.....	.....
Total	8	118	67.9	.206	13.32	.....	36	10	44	4	12	6	6	.....	.....	.....
1908.																
Pittsburgh	5	59	63.4	.175	10.98	5	32	.....	16	.....	6	.....	.....	.....	.....	.....
G. L. and M. W.	3	12	78.5	.162	12.71	.....	4	8	.....	.....	.....	.....	.....	.....	.....	.....
Total	8	71	65.9	.173	11.27	5	36	8	16	.....	6	.....	.....	.....	.....	.....
1909.																
Pittsburgh	5	72	64.8	.186	11.77	.....	24	9	28	5	.....	6	.....	.....	.....	.....
G. L. and M. W.	3	20	81.0	.152	12.29	8	2	10	.....	.....	.....	.....	.....	.....	.....	.....
Total	8	92	68.4	.178	11.88	8	26	19	28	5	.....	6	.....	.....	.....	.....
1910.																
Pittsburgh	5	63	64.4	.226	14.04	.....	.....	.....	38	4	15	6	.....	.....	.....	.....
G. L. and M. W.	4	22	76.8	.166	12.71	.....	8	12	2	.....	.....	.....	.....	.....	.....	.....
Total	9	85	67.6	.211	13.69	.....	8	12	40	4	15	6	.....	.....	.....	.....
1911.																
Pittsburgh	5	48	68.8	.204	13.64	.....	.....	10	32	.....	.....	6	.....	.....	.....	.....
G. L. and M. W.	4	14	73.3	.181	13.26	.....	2	4	8	.....	.....	.....	.....	.....	.....	.....
Total	9	62	69.8	.199	13.55	.....	2	14	40	.....	.....	6	.....	.....	.....	.....
1912.																
Pittsburgh	5	66	64.6	.213	13.31	.....	.....	.....	45	15	.....	6	.....	.....	.....	.....
G. L. and M. W.	4	21	75.4	.175	13.13	.....	.....	13	8	.....	.....	.....	.....	.....	.....	.....
Total	9	87	67.2	.204	13.27	.....	.....	13	53	15	.....	6	.....	.....	.....	.....

BOTTOM MAKERS.

1907.																
Pittsburgh	6	12	71.9	$0.437	$31.38	.....	.....	.....	.....	.....	.....	6	4	.....	2	.....
G. L. and M. W.	3	5	76.8	.263	20.22	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	.....
Total	9	17	73.4	.386	28.10	.....	.....	.....	.....	.....	5	6	4	.....	2	.....
1908.																
Pittsburgh	6	12	71.6	.294	21.06	.....	.....	2	.....	4	2	.....	4	.....	.....	.....
G. L. and M. W.	3	5	74.4	.256	19.00	.....	.....	.....	.....	2	3	.....	.....	.....	.....	.....
Total	9	17	72.4	.283	20.45	.....	.....	2	.....	6	5	.....	4	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

BOTTOM MAKERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1909.																
Pittsburgh	6	12	71.9	$0.382	$27.46	.....	.....	.....	.....	.....	6	.....	2	4	.....	.....
G. L. and M. W.	3	4	76.6	.260	19.90	.....	.....	.....	.....	1	3	.....	.....	.....	.....	.....
Total	9	16	73.1	.351	25.57	.....	.....	.....	.....	1	9	.....	2	4	.....	.....
1910.																
Pittsburgh	6	12	72.2	.388	28.04	.....	.....	.....	.....	.....	2	6	4	.....	.....	.....
G. L. and M. W.	4	7	75.4	.274	20.55	.....	.....	.....	.....	2	3	2	.....	.....	.....	.....
Total	10	19	73.4	.346	25.28	.....	.....	.....	.....	2	5	8	4	.....	.....	.....
1911.																
Pittsburgh	6	12	71.7	.363	26.03	.....	.....	.....	.....	.....	4	4	2	2	.....	.....
G. L. and M. W.	4	7	72.0	.292	21.01	.....	.....	.....	.....	2	2	3	.....	.....	.....	.....
Total	10	19	71.8	.337	24.18	.....	.....	.....	.....	2	6	7	2	2	.....	.....
1912.																
Pittsburgh	6	12	71.8	.385	27.61	.....	.....	.....	.....	.....	.....	8	2	2	.....	.....
G. L. and M. W.	4	8	73.5	.287	21.00	.....	.....	.....	.....	2	3	3	.....	.....	.....	.....
Total	10	20	72.5	.345	24.96	.....	.....	.....	.....	2	3	11	2	2	.....	.....

BOTTOM MAKERS' HELPERS.

1907.																
Pittsburgh	6	20	71.8	$0.283	$20.33	.....	.....	.....	6	4	2	4	4	.....	.....	.....
G. L. and M. W.	3	10	76.8	.205	15.80	.....	.....	.....	2	8	.....	.....	.....	.....	.....	.....
Total	9	30	73.5	.257	18.82	.....	.....	.....	8	12	2	4	4	.....	.....	.....
1908.																
Pittsburgh	6	17	71.6	.208	14.89	[1] 4	.....	2	4	3	.....	4	.....	.....	.....	.....
G. L. and M. W.	3	10	73.2	.198	14.51	.....	.....	.....	4	6	.....	.....	.....	.....	.....	.....
Total	9	27	72.2	.204	14.75	[1] 4	.....	2	8	9	.....	4	.....	.....	.....	.....
1909.																
Pittsburgh	6	20	71.8	.250	17.99	.....	2	.....	6	6	.....	4	2	.....	.....	.....
G. L. and M. W.	3	9	76.1	.198	15.07	.....	.....	.....	4	5	.....	.....	.....	.....	.....	.....
Total	9	29	73.1	.234	17.08	.....	2	.....	10	11	.....	4	2	.....	.....	.....
1910.																
Pittsburgh	6	20	72.1	.257	18.55	.....	.....	.....	6	6	4	4	.....	.....	.....	.....
G. L. and M. W.	4	14	73.7	.204	15.02	.....	.....	2	5	7	.....	.....	.....	.....	.....	.....
Total	10	34	72.8	.235	17.10	.....	.....	2	11	13	4	4	.....	.....	.....	.....

[1] Including 2 earning 9 and under 10 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

BOTTOM MAKERS' HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Pittsburgh	6	19	72.3	$0.246	$17.70	.....	1	.....	6	5	3	4	.....	.....	.....	.....
G. L. and M. W.	4	12	72.0	.216	15.57	.....	.....	2	4	4	.....	2	.....	.....	.....	.....
Total	10	31	72.2	.234	16.88	.....	1	2	10	9	3	6	.....	.....	.....	.....
1912.																
Pittsburgh	6	20	71.7	.252	18.10	.....	2	.....	6	2	6	2	2	.....	.....	.....
G. L. and M. W.	4	11	73.1	.213	15.51	.....	.....	2	3	4	2	.....	.....	.....	.....	.....
Total	10	31	72.2	.238	17.18	.....	2	2	9	6	8	2	2	.....	.....	.....
LADLE LINERS.																
1907.																
Pittsburgh	6	13	66.4	$0.415	$27.83	.....	.....	.....	.....	.....	3	4	4	.....	2	.....
G. L. and M. W.	3	8	63.0	.517	30.76	.....	.....	.....	.....	2	.....	1	.....	2	.....	3
Total	9	21	65.1	.454	28.95	.....	.....	.....	.....	2	3	5	4	2	2	3
1908.																
Pittsburgh	6	13	66.2	.273	18.64	.....	.....	2	1	2	4	3	1	.....	.....	.....
G. L. and M. W.	3	8	64.5	.360	21.64	.....	.....	.....	.....	2	2	.....	2	2	.....	.....
Total	9	21	65.6	.306	19.78	.....	.....	2	1	4	6	3	3	2	.....	.....
1909.																
Pittsburgh	6	13	66.4	.352	24.02	.....	.....	.....	.....	3	2	2	6	.....	.....	.....
G. L. and M. W.	3	8	63.1	.457	27.16	.....	.....	.....	.....	2	.....	1	2	.....	2	1
Total	9	21	65.1	.392	25.22	.....	.....	.....	.....	5	2	3	8	.....	2	1
1910.																
Pittsburgh	6	15	67.3	.342	23.24	.....	.....	.....	.....	2	2	7	4	.....	.....	.....
G. L. and M. W.	4	10	66.0	.433	27.76	.....	.....	.....	.....	2	.....	2	1	5	.....	.....
Total	10	25	66.8	.378	25.05	.....	.....	.....	.....	4	2	9	5	5	.....	.....
1911.																
Pittsburgh	6	14	71.7	.330	23.63	.....	.....	.....	.....	2	4	4	2	2	.....	.....
G. L. and M. W.	4	10	63.6	.360	21.75	.....	.....	.....	2	2	.....	.....	4	2	.....	.....
Total	10	24	68.3	.342	22.85	.....	.....	.....	2	4	4	4	6	4	.....	.....
1912.																
Pittsburgh	6	14	71.8	.343	24.59	.....	.....	.....	.....	2	.....	8	4	.....	.....	.....
G. L. and M. W.	4	10	64.8	.407	25.45	.....	.....	.....	.....	2	.....	4	1	3	.....	.....
Total	10	24	68.9	.369	24.95	.....	.....	.....	.....	4	.....	12	5	3	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

LADLE LINERS' HELPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Pittsburgh	6	29	69.3	$0.236	$16.18	.....	4	4	4	8	4	3	.....	1	1	.....
G. L. and M. W.	3	10	64.8	.310	18.01	.....	.....	4	.....	3	.....	.....	.....	1	2	.....
Total	9	39	68.2	.255	16.65	.....	4	8	4	11	4	3	.....	2	3	.....
1908.																
Pittsburgh	6	21	68.2	.191	13.18	.....	7	2	2	9	1	.....	.....	.....	.....	.....
G. L. and M. W.	3	10	66.0	.247	15.08	.....	.....	4	2	1	.....	2	1	.....	.....	.....
Total	9	31	67.5	.209	13.79	.....	7	6	4	10	1	2	1	.....	.....	.....
1909.																
Pittsburgh	6	27	69.1	.215	14.93	.....	4	4	3	12	2	.....	2	.....	.....	.....
G. L. and M. W.	3	12	67.2	.262	16.03	.....	.....	4	4	1	.....	.....	1	2	.....	.....
Total	9	39	68.5	.230	15.26	.....	4	8	7	13	2	.....	3	2	.....	.....
1910.																
Pittsburgh	6	27	69.5	.227	15.65	.....	.....	8	.....	14	3	.....	2	.....	.....	.....
G. L. and M. W.	4	12	67.0	.258	15.93	.....	.....	4	4	1	.....	.....	3	.....	.....	.....
Total	10	39	68.7	.236	15.73	.....	.....	12	4	15	3	.....	5	.....	.....	.....
1911.																
Pittsburgh	6	24	71.5	.223	15.94	.....	2	8	.....	10	2	.....	2	.....	.....	.....
G. L. and M. W.	4	10	63.6	.257	15.29	.....	.....	2	4	1	.....	1	2	.....	.....	.....
Total	10	34	69.1	.233	15.75	.....	2	10	4	11	2	1	4	.....	.....	.....
1912.																
Pittsburgh	6	24	71.6	.214	15.29	.....	2	8	.....	8	4	2	.....	.....	.....	.....
G. L. and M. W.	4	10	64.8	.262	15.77	.....	.....	2	4	1	.....	.....	3	.....	.....	.....
Total	10	34	69.6	.228	15.43	.....	2	10	4	9	4	2	3	.....	.....	.....

STOPPER MAKERS.

1907.																
Pittsburgh	6	6	71.3	$0.319	$22.77	.....	.....	.....	.....	3	1	.....	2	.....	.....	.....
G. L. and M. W.	3	4	75.0	.313	23.38	.....	.....	.....	1	.....	2	.....	1	.....	.....	.....
Total	9	10	72.8	.316	23.01	.....	.....	.....	1	3	3	.....	3	.....	.....	.....
1908.																
Pittsburgh	6	6	73.3	.201	14.49	.....	1	1	.....	4	.....	.....	.....	.....	.....	.....
G. L. and M. W.	3	3	72.0	.268	19.32	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....
Total	9	9	72.9	.223	16.10	.....	1	1	1	4	1	1	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

STOPPER MAKERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1909.																
Pittsburgh	6	6	72.3	$0.252	$18.08			1		3		2				
G. L. and M. W.	3	3	70.0	.307	21.51				1		1		1			
Total	9	9	71.6	.270	19.22			1	1	3	1	2	1			
1910.																
Pittsburgh	6	7	72.0	.253	18.47					5	1	1				
G. L. and M. W.	4	5	74.4	.270	20.06				1	1	1	2				
Total	10	12	73.0	.260	19.14				1	6	2	3				
1911.																
Pittsburgh	6	6	72.0	.261	18.61			1		3		2				
G. L. and M. W.	4	4	72.0	.291	20.92				1		1	2				
Total	10	10	72.0	.273	19.53			1	1	3	1	4				
1912.																
Pittsburgh	6	6	70.0	.263	17.84				1	4			1			
G. L. and M. W.	4	4	72.0	.285	20.52				1		1	2				
Total	10	10	70.8	.272	18.91				2	4	1	2	1			

STOPPER SETTERS.

1907.																
Pittsburgh	6	35	49.4	$0.568	$27.70						1	9	7	6	4	8
G. L. and M. W.	3	10	58.8	.844	46.14							2			2	6
Total	9	45	51.5	.630	31.79						1	11	7	6	6	14
1908.																
Pittsburgh	6	30	52.8	.269	14.45			6	10	2	4	1	7			
G. L. and M. W.	3	10	58.8	.564	30.66							4			2	4
Total	9	40	54.3	.343	18.50			6	10	2	4	5	7		2	4
1909.																
Pittsburgh	6	24	54.0	.481	25.17					4	4	2	2	3	3	6
G. L. and M. W.	3	10	58.9	.720	39.42							2		2		6
Total	9	34	55.4	.552	29.36					4	4	4	2	5	3	12
1910.																
Pittsburgh	6	27	48.4	.516	24.89							9	6	3	3	6
G. L. and M. W.	4	12	62.0	.714	40.90							4			2	6
Total	10	39	52.6	.577	29.81							13	6	3	5	12

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

STOPPER SETTERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Pittsburgh	6	27	53.3	$0.481	$24.37					3	3	7	5	3		6
G. L. and M. W.	4	12	60.0	.538	29.94					2		2	2			6
Total	10	39	55.3	.498	26.08					5	3	9	7	3		12
1912.																
Pittsburgh	6	30	47.9	.459	21.99							11	12	3	4	
G. L. and M. W.	4	12	61.0	.588	33.79							3	3			6
Total	10	42	51.7	.496	25.36							14	15	3	4	6

STEEL POURERS.

1907.																
Pittsburgh	6	17	50.8	$0.756	$37.69								1	3	4	9
G. L. and M. W.	3	12	62.0	.604	34.55						2		4			6
Total	9	29	55.4	.693	36.39						2		5	3	4	15
1908.																
Pittsburgh	6	16	54.0	.472	25.67						3	4	1	3	5	
G. L. and M. W.	3	12	62.0	.396	22.36					4	2			6		
Total	9	28	57.4	.439	24.25					4	5	4	1	9	5	
1909.																
Pittsburgh	6	16	54.0	.618	32.96							5			3	8
G. L. and M. W.	3	12	62.2	.520	29.80						2	4			2	4
Total	9	28	57.5	.576	31.61						2	9			5	12
1910.																
Pittsburgh	6	18	48.1	.664	31.94								3	6	3	6
G. L. and M. W.	4	14	65.1	.555	33.77						2		6			6
Total	10	32	55.6	.617	32.74						2		9	6	3	12
1911.																
Pittsburgh	6	17	50.7	.620	30.64							2	3		9	3
G. L. and M. W.	4	13	60.9	.424	24.34			3			2			8		
Total	10	30	55.1	.535	27.91			3			2	2	3	8	9	3
1912.																
Pittsburgh	6	18	47.9	.649	31.09								5	4	1	8
G. L. and M. W.	4	14	63.4	.487	29.90						2		6	6		
Total	10	32	54.7	.578	30.57						2		11	10	1	8

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

MOLD CAPPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Pittsburgh	5	42	51.4	$0.372	$18.69	.....	.....	.....	.....	2	4	27	3	6	.....	.....
G. L. and M. W.	3	6	76.0	.175	13.32	.....	2	2	.....	2	.....	.....	.....	.....	.....	.....
Total	8	48	54.5	.347	18.02	.....	2	2	.....	4	4	27	3	6	.....	.....
1908.																
Pittsburgh	5	34	50.8	.198	10.21	.....	.....	18	8	3	3	2	.....	.....	.....	.....
G. L. and M. W.	3	5	73.2	.178	13.07	.....	1	2	.....	2	.....	.....	.....	.....	.....	.....
Total	8	39	53.7	.196	10.57	.....	1	20	8	5	3	2	.....	.....	.....	.....
1909.																
Pittsburgh	5	37	50.6	.288	14.53	.....	.....	.....	2	24	.....	5	.....	6	.....	.....
G. L. and M. W.	3	6	75.2	.169	12.64	2	.....	2	.....	2	.....	.....	.....	.....	.....	.....
Total	8	43	54.0	.271	14.26	2	.....	2	2	26	.....	5	.....	6	.....	.....
1910.																
Pittsburgh	5	38	50.1	.355	17.57	.....	.....	.....	2	.....	3	27	.....	6	.....	.....
G. L. and M. W.	4	14	75.6	.204	15.29	.....	.....	4	2	8	.....	.....	.....	.....	.....	.....
Total	9	52	57.0	.314	16.96	.....	.....	4	4	8	3	27	.....	6	.....	.....
1911.																
Pittsburgh	5	26	60.8	.297	17.16	.....	.....	.....	6	4	4	6	6	.....	.....	.....
G. L. and M. W.	4	11	72.3	.247	17.83	.....	.....	1	2	2	6	.....	.....	.....	.....	.....
Total	9	37	64.2	.282	17.36	.....	.....	1	8	6	10	6	6	.....	.....	.....
1912.																
Pittsburgh	5	30	52.7	.369	18.63	.....	.....	.....	4	2	.....	16	2	6	.....	.....
G. L. and M. W.	4	14	73.9	.228	16.76	.....	.....	.....	4	4	6	.....	.....	.....	.....	.....
Total	9	44	59.5	.324	18.03	.....	.....	.....	8	6	6	16	2	6	.....	.....

INGOT STRIPPERS.

1907.																
Pittsburgh	6	19	60.5	$0.357	$20.54	.....	.....	.....	.....	2	6	5	4	2	.....	.....
G. L. and M. W.	3	10	80.4	.221	17.81	.....	.....	.....	.....	10	.....	.....	.....	.....	.....	.....
Total	9	29	67.4	.310	19.60	.....	.....	.....	.....	12	6	5	4	2	.....	.....
1908.																
Pittsburgh	6	18	63.8	.256	16.66	.....	.....	.....	.....	6	10	2	.....	.....	.....	.....
G. L. and M. W.	3	10	76.8	.205	15.76	.....	.....	.....	4	6	.....	.....	.....	.....	.....	.....
Total	9	28	68.4	.238	16.34	.....	.....	.....	4	12	10	2	.....	.....	.....	.....
1909.																
Pittsburgh	6	18	65.2	.284	18.23	.....	.....	.....	.....	2	10	6	.....	.....	.....	.....
G. L. and M. W.	3	10	79.2	.228	18.08	.....	.....	.....	.....	10	.....	.....	.....	.....	.....	.....
Total	9	28	70.2	.264	18.17	.....	.....	.....	.....	12	10	6	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Concluded.

BESSEMER CONVERTERS—Continued.

INGOT STRIPPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Pittsburgh	6	19	61.3	$0.338	$19.75	.....	.....	.....	.....	2	8	.....	9	.....	.....	.....
G. L. and M. W.	4	12	79.0	.247	19.60	.....	.....	.....	.....	8	4	.....	.....	.....	.....	.....
Total	10	31	68.1	.303	19.69	.....	.....	.....	.....	10	12	.....	9	.....	.....	.....
1911.																
Pittsburgh	6	15	67.5	.333	21.80	.....	.....	.....	.....	.....	10	.....	5	.....	.....	.....
G. L. and M. W.	4	12	74.0	.217	16.09	.....	.....	.....	4	8	.....	.....	.....	.....	.....	.....
Total	10	27	70.4	.282	19.26	.....	.....	.....	4	8	10	.....	5	.....	.....	.....
1912.																
Pittsburgh	6	16	63.4	.374	22.42	.....	.....	.....	.....	.....	8	2	.....	6	.....	.....
G. L. and M. W.	4	12	76.0	.248	18.86	.....	.....	.....	.....	8	4	.....	.....	.....	.....	.....
Total	10	28	68.8	.320	20.90	.....	.....	.....	.....	8	12	2	.....	6	.....	.....

LABORERS.

1907.																
Pittsburgh	6	602	76.9	$0.156	$11.97	.....	372	230	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	3	199	81.5	.154	12.57	.....	199	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	9	801	78.0	.155	12.12	.....	571	230	.....	.....	.....	.....	.....	.....	.....	.....
1908.																
Pittsburgh	6	309	74.5	.156	11.61	.....	211	98	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	3	116	80.6	.152	12.28	.....	116	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	9	425	76.2	.155	11.80	.....	327	98	.....	.....	.....	.....	.....	.....	.....	.....
1909.																
Pittsburgh	6	401	75.4	.153	11.55	21	217	163	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	3	163	80.6	.146	11.78	71	92	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	9	564	76.9	.151	11.62	92	309	163	.....	.....	.....	.....	.....	.....	.....	.....
1910.																
Pittsburgh	6	541	77.2	.164	12.68	.....	92	449	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	245	79.1	.161	12.71	.....	112	133	.....	.....	.....	.....	.....	.....	.....	.....
Total	10	786	77.8	.163	12.69	.....	204	582	.....	.....	.....	.....	.....	.....	.....	.....
1911.																
Pittsburgh	6	422	74.3	.167	12.41	.....	50	372	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	171	75.2	.164	12.33	.....	55	116	.....	.....	.....	.....	.....	.....	.....	.....
Total	10	593	74.6	.166	12.39	.....	105	488	.....	.....	.....	.....	.....	.....	.....	.....
1912.																
Pittsburgh	6	428	75.0	.167	12.58	.....	33	395	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	198	77.0	.166	12.75	.....	16	182	.....	.....	.....	.....	.....	.....	.....	.....
Total	10	626	75.7	.167	12.64	.....	49	577	.....	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912.

BESSEMER CONVERTERS—Continued.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West." The figures set opposite each bracketed group of years are for identical plants.]

STOCKERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
6 plants	1907	275	57.7	$0.275	$14.97	.....	....	68	6	42	54	81	24	.....	.....	.....
	1908	224	55.8	.293	15.42	[1] 16	....	44	....	16	48	60	16	24	.....	.....
	1909	213	60.2	.291	16.13	.....	37	28	9	15	12	54	49	9	.....	.....
	1910	296	61.9	.283	16.33	.....	....	86	14	19	57	69	51	.....	.....	.....
	1911	182	58.2	.252	13.96	.....	3	45	5	54	39	24	12	.....	.....	.....
	1912	211	58.6	.347	18.77	.....	.....	42	18	9	13	53	40	36	.....	.....
G.L. and M.W.:																
3 plants	1907	96	76.3	.161	12.25	.....	63	29	....	4	.....	.....	.....	.....	.....	.....
	1908	36	74.2	.159	11.85	.....	21	11	....	4	.....	.....	.....	.....	.....	.....
	1909	53	77.5	.155	12.01	22	12	9	6	4	.....	.....	.....	.....	.....	.....
	1910	54	81.3	.178	14.47	.....	10	29	2	13	.....	.....	.....	.....	.....	.....
4 plants	1910	56	80.6	.180	14.48	.....	10	29	2	15	.....	.....	.....	.....	.....	.....
	1911	59	72.4	.172	12.49	.....	9	36	10	4	.....	.....	.....	.....	.....	.....
	1912	57	71.6	.182	13.51	.....	.....	38	3	14	.....	2	.....	.....	.....	.....

CUPOLA MELTERS.

Pittsburgh:																
5 plants	1907	12	62.5	$0.560	$33.71	.....	.....	.....	.....	.....	1	1	.....	5	2	3
	1908	12	61.9	.365	22.15	.....	.....	.....	.....	1	3	3	3	2	.....	.....
	1909	12	61.9	.450	27.01	.....	.....	.....	.....	2	.....	.....	5	5	.....	.....
	1910	13	57.5	.484	26.90	.....	.....	.....	.....	.....	2	3	.....	5	3	.....
	1911	12	61.9	.413	25.08	.....	.....	.....	.....	.....	2	2	6	2	.....	.....
	1912	13	57.2	.442	23.88	.....	.....	.....	.....	.....	2	2	4	5	.....	.....
G.L. and M.W.:																
2 plants	1907	3	76.0	.307	23.50	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....
	1908	3	76.0	.293	22.40	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....
	1909	3	76.0	.293	22.40	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....
	1910	3	74.0	.287	21.30	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....
	1911	3	74.0	.296	21.95	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....
3 plants	1911	5	73.2	.321	23.53	.....	.....	.....	.....	1	.....	4	.....	.....	.....	.....
	1912	5	73.2	.323	23.64	.....	.....	.....	.....	1	.....	4	.....	.....	.....	.....

CUPOLA TAPPERS.

Pittsburgh:																
5 plants	1907	43	57.8	$0.396	$22.31	.....	.....	.....	.....	.....	2	15	26	.....	.....	.....
	1908	38	57.3	.346	19.86	.....	.....	.....	.....	1	5	27	5	.....	.....	.....
	1909	34	57.2	.364	19.86	.....	.....	.....	.....	6	6	3	19	.....	.....	.....
	1910	48	55.4	.382	20.40	.....	.....	.....	.....	.....	12	18	15	3	.....	.....
	1911	34	56.5	.332	18.22	.....	.....	.....	.....	.....	8	26	.....	.....	.....	.....
	1912	33	53.7	.423	21.83	.....	.....	.....	.....	.....	6	1	26	.....	.....	.....
G.L. and M.W.:																
3 plants	1907	7	77.1	.274	21.21	.....	....	1	....	....	4	2	.....	.....	.....	.....
	1908	5	74.4	.245	18.23	.....	....	1	....	1	3	.....	.....	.....	.....	.....
	1909	9	77.7	.248	19.31	.....	....	1	....	1	7	.....	.....	.....	.....	.....
	1910	8	80.3	.244	19.73	.....	.....	.....	1	2	5	.....	.....	.....	.....	.....
	1911	7	72.9	.248	18.03	.....	.....	.....	1	2	4	.....	.....	.....	.....	.....
4 plants	1911	11	72.5	.259	18.78	.....	.....	.....	1	2	8	.....	.....	.....	.....	.....
	1912	15	75.6	.251	18.98	.....	.....	.....	1	2	12	.....	.....	.....	.....	.....

[1] Earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

BLOWERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
	1907	14	61.6	$0.658	$39.88	.....	.....	.....	.....	.....	.....	.....	4	.....	3	7
	1908	13	66.4	.438	29.46	.....	.....	.....	.....	.....	.....	3	8	2	.....	.....
6 plants....	1909	13	66.4	.467	30.75	.....	.....	.....	.....	.....	.....	.....	9	4	.....	.....
	1910	14	67.1	.510	33.40	.....	.....	.....	.....	.....	.....	.....	9	2	3	.....
	1911	12	71.9	.479	34.44	.....	.....	.....	.....	.....	.....	.....	8	4	.....	.....
	1912	13	66.4	.530	34.96	.....	.....	.....	.....	.....	.....	.....	6	5	2	.....
G.L. and M.W.:																
	1907	6	74.0	.528	38.79	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	2
	1908	6	74.0	.528	38.79	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	2
3 plants....	1909	6	74.2	.527	38.80	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	2
	1910	6	76.0	.597	45.38	.....	.....	.....	.....	.....	.....	2	.....	2	.....	2
	1911	6	72.0	.537	38.64	.....	.....	.....	.....	.....	.....	2	2	.....	.....	2
4 plants....	1911	8	72.0	.514	37.03	.....	.....	.....	.....	.....	.....	2	4	.....	.....	2
	1912	8	73.5	.527	38.63	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	2

REGULATORS, FIRST.

Pittsburgh:																
	1907	20	57.6	$0.437	$25.55	.....	.....	.....	.....	.....	.....	11	7	.....	2	.....
	1908	19	60.5	.262	16.66	.....	.....	.....	9	1	5	2	2	.....	.....	.....
6 plants....	1909	19	60.6	.337	21.45	.....	.....	.....	.....	6	5	2	2	4	.....	.....
	1910	23	56.6	.410	23.52	.....	.....	.....	.....	.....	.....	11	8	4	.....	.....
	1911	16	62.8	.409	25.62	.....	.....	.....	.....	.....	.....	9	5	2	.....	.....
	1912	17	59.1	.435	25.85	.....	.....	.....	.....	.....	.....	6	7	4	.....	.....
G.L.and M.W.:																
	1907	6	78.0	.437	33.06	.....	.....	2	.....	.....	.....	.....	2	.....	2	.....
	1908	6	78.0	.281	21.33	.....	.....	2	.....	2	.....	.....	2	.....	.....	.....
3 plants....	1909	6	78.2	.366	27.79	.....	.....	2	.....	.....	.....	2	.....	2	.....	.....
	1910	6	80.0	.430	33.58	.....	.....	.....	.....	2	.....	.....	2	.....	2	.....
	1910	8	78.0	.404	31.02	.....	.....	.....	.....	2	.....	2	2	.....	2	.....
4 plants....	1911	8	75.0	.312	23.12	.....	2	.....	.....	2	.....	.....	4	.....	.....	.....
	1912	8	76.5	.359	27.07	.....	.....	.....	.....	2	.....	3	3	.....	.....	.....

REGULATORS, SECOND.

Pittsburgh:																
	1907	14	61.6	$0.433	$26.75	.....	.....	.....	.....	.....	.....	2	10	2	.....	.....
	1908	10	71.7	.297	21.32	.....	.....	.....	1	3	2	3	1	.....	.....	.....
5 plants....	1909	10	71.9	.385	27.66	.....	.....	.....	.....	1	1	2	6	.....	.....	.....
	1910	14	61.7	.404	25.04	.....	.....	.....	.....	.....	.....	7	5	2	.....	.....
	1910	16	62.9	.383	24.05	.....	.....	.....	.....	2	.....	7	5	2	.....	.....
6 plants....	1911	16	62.8	.363	22.75	.....	.....	.....	.....	1	1	7	7	.....	.....	.....
	1912	17	59.1	.385	23.11	.....	.....	.....	.....	.....	2	11	.....	4	.....	.....
G. L. and M.W.:																
	1907	4	78.0	.404	31.51	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
	1908	4	78.0	.198	15.44	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
1 plant.....	1909	4	78.5	.314	24.65	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
	1910	4	84.0	.401	33.68	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
	1910	6	80.0	.364	29.44	.....	.....	.....	.....	.....	2	.....	4	.....	.....	.....
2 plants....	1911	5	72.0	.238	17.11	.....	3	.....	.....	.....	.....	2	.....	.....	.....	.....
	1912	6	76.0	.318	24.06	.....	.....	.....	.....	.....	4	2	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

VESSEL MEN.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
	1907	16	54.1	$0.781	$41.54	.....	.....	.....	.....	.....	.....	.....	.....	2	5	9
	1908	15	57.7	.527	30.19	.....	.....	.....	.....	.....	.....	5	2	.....	7	1
	1909	15	57.7	.597	33.93	.....	.....	.....	.....	.....	.....	2	5	.....	3	5
6 plants....	1910	17	51.0	.678	34.03	.....	.....	.....	.....	.....	.....	.....	2	.....	12	3
	1911	16	54.1	.608	31.72	.....	.....	.....	.....	.....	.....	2	2	2	6	4
	1912	17	50.9	.757	37.77	.....	.....	.....	.....	.....	.....	.....	5	.....	3	9
G. L. and M. W.:																
	1907	7	68.6	.821	51.54	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	5
3 plants....	1908	7	68.6	.531	33.58	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	3
	1909	7	68.7	.701	44.19	.....	.....	.....	.....	.....	.....	2	.....	2	.....	3
	1910	7	70.3	.781	50.64	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	5
	1910	9	70.7	.700	46.01	.....	.....	.....	.....	.....	.....	2	2	.....	.....	5
4 plants....	1911	9	68.0	.532	33.76	.....	.....	.....	.....	.....	2	2	.....	2	.....	3
	1912	9	69.3	.599	39.35	.....	.....	.....	.....	.....	.....	2	.....	4	.....	3

VESSEL MEN'S HELPERS.

Pittsburgh:																
	1907	32	54.1	$0.520	$28.06	.....	.....	.....	.....	.....	.....	5	12	4	11	.....
	1908	30	57.7	.357	20.12	.....	.....	.....	1	11	2	4	7	5	.....	.....
	1909	30	57.7	.447	25.54	.....	.....	.....	.....	2	2	6	15	1	4	.....
6 plants....	1910	34	51.1	.477	24.37	.....	.....	.....	.....	.....	.....	6	25	.....	.....	3
	1911	32	53.9	.432	22.97	.....	.....	.....	.....	2	3	7	8	12	.....	.....
	1912	34	50.8	.477	23.71	.....	.....	.....	.....	.....	.....	13	4	11	3	3
G. L. and M. W.:																
	1907	15	63.2	.662	39.90	.....	.....	.....	.....	.....	2	.....	.....	2	6	5
3 plants....	1908	15	63.2	.413	24.69	.....	.....	.....	.....	.....	4	3	5	1	2	.....
	1909	15	63.3	.559	33.64	.....	.....	.....	.....	.....	2	.....	2	7	1	3
	1910	15	64.8	.630	39.03	.....	.....	.....	.....	.....	2	.....	.....	2	8	3
	1910	19	66.3	.557	35.10	.....	.....	.....	.....	2	2	2	.....	2	8	3
4 plants....	1911	19	63.8	.404	24.34	.....	.....	.....	2	2	2	2	6	2	1	2
	1912	19	65.1	.457	28.64	.....	.....	.....	.....	.....	3	4	7	2	2	1

CINDER PITMEN.

Pittsburgh:																
	1907	104	66.3	$0.212	$13.34	.....	32	.....	44	4	12	6	6	.....	.....	.....
	1908	59	63.4	.175	10.98	5	32	.....	16	.....	6	.....	.....	.....	.....	.....
	1909	72	64.8	.186	11.77	.....	24	9	28	5	.....	6	.....	.....	.....	.....
5 plants....	1910	63	64.4	.226	14.04	.....	.....	.....	38	4	15	6	.....	.....	.....	.....
	1911	48	68.8	.204	13.64	.....	.....	10	32	.....	.....	6	.....	.....	.....	.....
	1912	66	64.6	.213	13.31	.....	.....	.....	45	15	.....	6	.....	.....	.....	.....
G. L. and M. W.:																
	1907	14	80.6	.163	13.17	.....	4	10	.....	.....	.....	.....	.....	.....	.....	.....
3 plants....	1908	12	78.5	.162	12.71	.....	4	8	.....	.....	.....	.....	.....	.....	.....	.....
	1909	20	81.0	.152	12.29	8	2	10	.....	.....	.....	.....	.....	.....	.....	.....
	1910	16	78.6	.163	12.74	.....	8	6	2	.....	.....	.....	.....	.....	.....	.....
	1910	22	76.8	.166	12.71	.....	8	12	2	.....	.....	.....	.....	.....	.....	.....
4 plants....	1911	14	73.3	.181	13.26	.....	2	4	8	.....	.....	.....	.....	.....	.....	.....
	1912	21	75.4	.175	13.13	.....	.....	13	8	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

BOTTOM MAKERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
6 plants	1907	12	71.9	$0.437	$31.38	.....	.....	.....	.....	.....	.....	6	4	.....	2	.....
	1908	12	71.6	.294	21.06	.....	.....	2	.....	4	2	.....	4	.....	.....	.....
	1909	12	71.9	.382	27.46	.....	.....	.....	.....	.....	6	.....	2	4	.....	.....
	1910	12	72.2	.388	28.04	.....	.....	.....	.....	.....	2	6	4	.....	.....	.....
	1911	12	71.7	.363	26.03	.....	.....	.....	.....	.....	4	4	2	2	.....	.....
	1912	12	71.8	.385	27.61	.....	.....	.....	.....	.....	.....	8	2	2	.....	.....
G. L. and M. W.:																
3 plants	1907	5	76.8	.263	20.22	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	.....
	1908	5	74.4	.256	19.00	.....	.....	.....	.....	2	3	.....	.....	.....	.....	.....
	1909	4	76.6	.260	19.90	.....	.....	.....	.....	1	3	.....	.....	.....	.....	.....
	1910	5	76.8	.274	20.82	.....	.....	.....	.....	2	1	2	.....	.....	.....	.....
4 plants	1910	7	75.4	.274	20.55	.....	.....	.....	.....	2	3	2	.....	.....	.....	.....
	1911	7	72.0	.292	21.01	.....	.....	.....	.....	2	2	3	.....	.....	.....	.....
	1912	8	73.5	.287	21.00	.....	.....	.....	.....	2	3	3	.....	.....	.....	.....

BOTTOM MAKERS' HELPERS.

Pittsburgh:																
6 plants	1907	20	71.8	$0.283	$20.33	.....	.....	.....	6	4	2	4	4	.....	.....	.....
	1908	17	71.6	.208	14.89	[1] 4	.....	2	4	3	.....	4	.....	.....	.....	.....
	1909	20	71.8	.250	17.99	.....	2	.....	6	6	.....	4	2	.....	.....	.....
	1910	20	72.1	.257	18.55	.....	.....	.....	6	6	4	4	.....	.....	.....	.....
	1911	19	72.3	.246	17.70	.....	1	.....	6	5	3	4	.....	.....	.....	.....
	1912	20	71.7	.252	18.10	.....	2	.....	6	2	6	2	2	.....	.....	.....
G. L. and M. W.:																
3 plants	1907	10	76.8	.205	15.80	.....	.....	.....	2	8	.....	.....	.....	.....	.....	.....
	1908	10	73.2	.198	14.51	.....	.....	.....	4	6	.....	.....	.....	.....	.....	.....
	1909	9	76.1	.198	15.07	.....	.....	.....	4	5	.....	.....	.....	.....	.....	.....
	1910	10	74.4	.203	15.04	.....	.....	.....	5	5	.....	.....	.....	.....	.....	.....
4 plants	1910	14	73.7	.204	15.02	.....	.....	2	5	7	.....	.....	.....	.....	.....	.....
	1911	12	72.0	.216	15.57	.....	.....	2	4	4	.....	2	.....	.....	.....	.....
	1912	11	73.1	.213	15.51	.....	.....	2	3	4	2	.....	.....	.....	.....	.....

LADLE LINERS.

Pittsburgh:																
6 plants	1907	13	66.4	$0.415	$27.83	.....	.....	.....	.....	.....	3	4	4	.....	2	.....
	1908	13	66.2	.273	18.64	.....	.....	2	1	2	4	3	1	.....	.....	.....
	1909	13	66.4	.352	24.02	.....	.....	.....	.....	3	2	2	6	.....	.....	.....
	1910	15	67.3	.342	23.24	.....	.....	.....	.....	2	2	7	4	.....	.....	.....
	1911	14	71.7	.330	23.63	.....	.....	.....	.....	2	4	4	2	2	.....	.....
	1912	14	71.8	.343	24.59	.....	.....	.....	.....	2	.....	8	4	.....	.....	.....
G. L. and M. W.:																
3 plants	1907	8	63.0	.517	30.76	.....	.....	.....	.....	2	.....	1	.....	2	.....	3
	1908	8	64.5	.360	21.64	.....	.....	.....	.....	2	2	.....	2	2	.....	.....
	1909	8	63.1	.457	27.16	.....	.....	.....	.....	2	.....	1	2	.....	2	1
	1910	8	64.5	.460	28.87	.....	.....	.....	.....	2	.....	.....	1	5	.....	.....
4 plants	1910	10	66.0	.433	27.76	.....	.....	.....	.....	2	.....	2	1	5	.....	.....
	1911	10	63.6	.360	21.75	.....	.....	.....	2	2	.....	.....	4	2	.....	.....
	1912	10	64.8	.407	25.45	.....	.....	.....	.....	2	.....	4	1	3	.....	.....

[1] Including 2 employees earning 9 and under 10 cents.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

LADLE LINERS' HELPERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
	1907	29	69.3	$0.236	$16.18	.....	4	4	4	8	4	3	.....	1	1	.....
	1908	21	68.2	.191	13.18	.....	7	2	2	9	1	.....	.....	.....	.....	.....
6 plants....	1909	27	69.1	.215	14.93	.....	4	4	3	12	2	.....	2	.....	.....	.....
	1910	27	69.5	.227	15.65	.....	.....	8	.....	14	3	.....	2	.....	.....	.....
	1911	24	71.5	.223	15.94	.....	2	8	.....	10	2	.....	2	.....	.....	.....
	1912	24	71.6	.214	15.29	.....	2	8	.....	8	4	2	.....	.....	.....	.....
G. L. and M. W.:																
	1907	10	64.8	.310	18.01	.....	.....	4	.....	3	.....	.....	.....	1	2	.....
3 plants....	1908	10	66.0	.247	15.08	.....	.....	4	2	1	.....	2	1	.....	.....	.....
	1909	12	67.2	.262	16.03	.....	.....	4	4	1	.....	.....	1	2	.....	.....
	1910	10	66.0	.271	16.31	.....	.....	4	2	1	.....	.....	3	.....	.....	.....
	1910	12	67.0	.258	15.93	.....	.....	4	4	1	.....	.....	3	.....	.....	.....
4 plants....	1911	10	63.6	.257	15.29	.....	.....	2	4	1	.....	1	2	.....	.....	.....
	1912	10	64.8	.262	15.77	.....	.....	2	4	1	.....	.....	3	.....	.....	.....

STOPPER MAKERS.

Pittsburgh:																
	1907	6	71.3	$0.319	$22.77	.....	.....	.....	.....	3	1	.....	2	.....	.....	.....
	1908	6	73.3	.201	14.49	.....	1	1	.....	4	.....	.....	.....	.....	.....	.....
6 plants....	1909	6	72.3	.252	18.08	.....	.....	1	.....	3	.....	2	.....	.....	.....	.....
	1910	7	72.0	.253	18.47	.....	.....	.....	.....	5	1	1	.....	.....	.....	.....
	1911	6	72.0	.261	18.61	.....	.....	1	.....	3	.....	2	.....	.....	.....	.....
	1912	6	70.0	.263	17.84	.....	.....	.....	1	4	.....	.....	1	.....	.....	.....
G. L. and M. W.:																
	1907	4	75.0	.313	23.38	.....	.....	.....	1	.....	2	.....	1	.....	.....	.....
3 plants....	1908	3	72.0	.268	19.32	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....
	1909	3	70.0	.307	21.51	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....
	1910	4	75.0	.279	20.83	.....	.....	.....	1	.....	1	2	.....	.....	.....	.....
	1910	5	74.4	.270	20.06	.....	.....	.....	1	1	1	2	.....	.....	.....	.....
4 plants....	1911	4	72.0	.291	20.92	.....	.....	.....	1	.....	1	2	.....	.....	.....	.....
	1912	4	72.0	.285	20.52	.....	.....	.....	1	.....	1	2	.....	.....	.....	.....

STOPPER SETTERS.

Pittsburgh:																
	1907	35	49.4	$0.568	$27.70	.....	.....	.....	.....	.....	1	9	7	6	4	
	1908	30	52.8	.269	14.45	.....	.....	6	10	2	4	1	7	.....	.....	.....
6 plants....	1909	24	54.0	.481	25.17	.....	.....	.....	.....	4	4	2	2	3	3	6
	1910	27	48.4	.516	24.89	.....	.....	.....	.....	.....	.....	9	6	3	3	6
	1911	27	53.3	.481	24.37	.....	.....	.....	.....	3	3	7	5	3	.....	6
	1912	30	47.9	.459	21.99	.....	.....	.....	.....	.....	.....	11	12	3	4	.....
G. L. and M. W.:																
	1907	10	58.8	.844	46.14	.....	.....	.....	.....	.....	.....	2	.....	.....	2	6
3 plants....	1908	10	58.8	.564	30.66	.....	.....	.....	.....	.....	.....	4	.....	.....	2	4
	1909	10	58.9	.720	39.42	.....	.....	.....	.....	.....	.....	2	.....	2	.....	6
	1910	10	60.0	.788	44.11	.....	.....	.....	.....	.....	.....	2	.....	.....	2	6
	1910	12	62.0	.714	40.90	.....	.....	.....	.....	.....	.....	4	.....	.....	2	6
4 plants....	1911	12	60.0	.538	29.94	.....	.....	.....	.....	2	.....	2	2	.....	.....	6
	1912	12	61.0	.588	33.79	.....	.....	.....	.....	.....	.....	3	3	.....	.....	6

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

STEEL POURERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
	1907	17	50.8	$0.756	$37.69	.....	.....	.....	.....	.....	.....	.....	1	3	4	9
	1908	16	54.0	.472	25.67	.....	.....	.....	.....	.....	3	4	1	3	5	.....
6 plants	1909	16	54.0	.618	32.96	.....	.....	.....	.....	.....	.....	5	.....	.....	3	8
	1910	18	48.1	.664	31.94	.....	.....	.....	.....	.....	.....	.....	3	6	3	6
	1911	17	50.7	.620	30.64	.....	.....	.....	.....	.....	.....	2	3	.....	9	3
	1912	18	47.9	.649	31.09	.....	.....	.....	.....	.....	.....	.....	5	4	1	8
G. L. and M. W.:																
	1907	12	62.0	.604	34.55	.....	.....	.....	.....	.....	2	.....	4	.....	.....	6
	1908	12	62.0	.396	22.36	.....	.....	.....	.....	4	2	.....	.....	6	.....	.....
3 plants	1909	12	62.2	.520	29.80	.....	.....	.....	.....	.....	2	4	.....	.....	2	4
	1910	12	64.0	.579	34.43	.....	.....	.....	.....	.....	2	.....	4	.....	.....	6
	1910	14	65.1	.555	33.77	.....	.....	.....	.....	.....	2	.....	6	.....	.....	6
4 plants	1911	13	60.9	.424	24.34	.....	3	.....	.....	.....	2	.....	.....	8	.....	.....
	1912	14	63.4	.487	29.90	.....	.....	.....	.....	.....	2	.....	6	6	.....	.....

MOLD CAPPERS.

Pittsburgh:																
	1907	42	51.4	$0.372	$18.69	.....	.....	.....	.....	2	4	27	3	6	.....	.....
	1908	34	50.8	.198	10.21	.....	.....	18	8	3	3	2	.....	.....	.....	.....
5 plants	1909	37	50.6	.288	14.53	.....	.....	.....	2	24	.....	5	.....	6	.....	.....
	1910	38	50.1	.355	17.57	.....	.....	.....	2	.....	3	27	.....	6	.....	.....
	1911	26	60.8	.297	17.16	.....	.....	.....	6	4	4	6	6	.....	.....	.....
	1912	30	52.7	.369	18.63	.....	.....	.....	4	2	.....	16	2	6	.....	.....
G. L. and M. W.:																
	1907	6	76.0	.175	13.32	.....	2	2	.....	2	.....	.....	.....	.....	.....	.....
	1908	5	73.2	.178	13.07	.....	1	2	.....	2	.....	.....	.....	.....	.....	.....
3 plants	1909	6	75.2	.169	12.64	2	.....	2	.....	2	.....	.....	.....	.....	.....	.....
	1910	8	78.4	.188	14.66	.....	.....	4	2	2	.....	.....	.....	.....	.....	.....
	1910	14	75.6	.204	15.29	.....	.....	4	2	8	.....	.....	.....	.....	.....	.....
4 plants	1911	11	72.3	.247	17.83	.....	.....	1	2	2	6	.....	.....	.....	.....	.....
	1912	14	73.9	.228	16.76	.....	.....	.....	4	4	6	.....	.....	.....	.....	.....

INGOT STRIPPERS.

Pittsburgh:																
	1907	19	60.5	$0.357	$20.54	.....	.....	.....	.....	2	6	5	4	2	.....	.....
	1908	18	63.8	.256	16.66	.....	.....	.....	.....	6	10	2	.....	.....	.....	.....
6 plants	1909	18	65.2	.284	18.23	.....	.....	.....	.....	2	10	6	.....	.....	.....	.....
	1910	19	61.3	.338	19.75	.....	.....	.....	.....	2	8	.....	9	.....	.....	.....
	1911	15	67.5	.333	21.80	.....	.....	.....	.....	.....	10	.....	5	.....	.....	.....
	1912	16	63.4	.374	22.42	.....	.....	.....	.....	.....	8	2	.....	6	.....	.....
G. L. and M. W.:																
	1907	10	80.4	.221	17.81	.....	.....	.....	.....	10	.....	.....	.....	.....	.....	.....
	1908	10	76.8	.205	15.76	.....	.....	.....	4	6	.....	.....	.....	.....	.....	.....
3 plants	1909	10	79.2	.228	18.08	.....	.....	.....	.....	10	.....	.....	.....	.....	.....	.....
	1910	10	80.4	.249	20.06	.....	.....	.....	.....	6	4	.....	.....	.....	.....	.....
	1910	12	79.0	.247	19.60	.....	.....	.....	.....	8	4	.....	.....	.....	.....	.....
4 plants	1911	12	74.0	.217	16.09	.....	.....	.....	4	8	.....	.....	.....	.....	.....	.....
	1912	12	76.0	.248	18.86	.....	.....	.....	.....	8	4	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Concluded.

BESSEMER CONVERTERS—Continued.

LABORERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
6 plants	1907	602	76.9	$0.156	$11.97	.....	372	230	....	....	.....	.....	.....	.....	....	.....
	1908	309	74.5	.156	11.61	.....	211	98	....	....	.....	.....	.....	.....	....	.....
	1909	401	75.4	.153	11.55	21	217	163	....	....	.....	.....	.....	.....	....	.....
	1910	541	77.2	.164	12.68	.....	92	449	....	....	.....	.....	.....	.....	....	.....
	1911	422	74.3	.167	12.41	.....	50	372	....	....	.....	.....	.....	.....	....	.....
	1912	428	75.0	.167	12.58	.....	33	395	....	....	.....	.....	.....	.....	....	.....
G. L. and M. W.:																
3 plants	1907	199	81.5	.154	12.57	.....	199	.....	....	....	.....	.....	.....	.....	....	.....
	1908	116	80.6	.152	12.28	.....	116	.....	....	....	.....	.....	.....	.....	....	.....
	1909	163	80.6	.146	11.78	71	92	.....	....	....	.....	.....	.....	.....	....	.....
	1910	207	80.3	.159	12.72	.....	112	95	....	....	.....	.....	.....	.....	....	.....
4 plants	1910	245	79.1	.161	12.71	.....	112	133	....	....	.....	.....	.....	.....	....	.....
	1911	171	75.2	.164	12.33	.....	55	116	....	....	.....	.....	.....	.....	....	.....
	1912	198	77.0	.166	12.75	.....	16	182	....	....	.....	.....	.....	.....	....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912.

BESSEMER CONVERTERS—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Stockers:											
9 plants	1907	371	62.5	171	.....	18	.....	28	27	83	44
	1908	260	58.3	150	4	24	.....	.....	27	25	30
	1909	266	63.6	114	.....	16	.....	4	33	60	39
	1910	350	64.9	114	31	.....	25	.....	68	20	92
10 plants	1910	352	64.9	114	31	.....	27	.....	68	20	92
	1911	241	61.7	111	.....	15	2	.....	57	26	30
	1912	268	62.0	123	.....	20	2	18	21	48	36
Cupola melters:											
7 plants	1907	15	65.2	6	.....	.....	.....	2	3	2	[1] 2
	1908	15	64.7	6	.....	.....	.....	2	3	2	2
	1909	15	64.7	6	.....	.....	.....	2	3	2	2
	1910	16	60.6	6	3	.....	.....	.....	3	2	2
	1911	15	64.3	6	.....	.....	.....	2	3	2	2
8 plants	1911	17	65.2	6	.....	.....	.....	2	5	2	2
	1912	18	61.6	9	.....	.....	.....	2	3	2	2
Cupola tappers:											
8 plants	1907	50	60.5	27	.....	.....	.....	4	9	6	4
	1908	43	59.3	24	.....	.....	.....	2	13	2	2
	1909	43	61.5	24	.....	.....	.....	.....	5	8	6
	1910	56	58.9	36	.....	.....	.....	.....	7	8	5
	1911	41	59.3	24	.....	.....	.....	.....	11	2	4
9 plants	1911	45	60.4	24	.....	.....	.....	.....	15	2	4
	1912	48	60.6	27	.....	.....	.....	2	5	10	4
Blowers:											
9 plants	1907	20	65.4	6	.....	.....	.....	2	10	2	.....
	1908	19	68.8	3	.....	.....	.....	2	12	2	.....
	1909	19	68.8	3	.....	.....	.....	2	12	2	.....
	1910	20	69.8	3	.....	.....	.....	.....	12	3	2
	1911	18	71.9	.....	.....	.....	.....	2	16	.....	.....
10 plants	1911	20	72.0	.....	.....	.....	.....	2	18	.....	.....
	1912	21	69.1	3	.....	.....	.....	2	14	2	.....
Regulators, first:											
9 plants	1907	26	62.3	12	.....	.....	.....	2	8	2	2
	1908	25	64.7	9	.....	.....	.....	4	8	2	2
	1909	25	64.8	9	.....	.....	.....	2	10	2	2
	1910	29	61.4	6	9	.....	.....	.....	10	.....	4
10 plants	1910	31	62.1	6	9	.....	.....	.....	12	.....	4
	1911	24	66.8	6	.....	.....	.....	4	12	.....	2
	1912	25	64.7	9	.....	.....	.....	4	8	2	2
Regulators, second:											
6 plants	1907	18	65.3	6	.....	.....	.....	2	6	4	.....
	1908	14	73.5	.....	.....	.....	.....	4	6	4	.....
	1909	14	73.8	.....	.....	.....	.....	2	8	4	.....
	1910	18	66.7	6	.....	.....	.....	.....	8	.....	4
8 plants	1910	22	67.5	6	.....	.....	.....	2	10	.....	4
	1911	21	65.0	6	.....	.....	.....	4	11	.....	.....
	1912	23	63.5	9	.....	.....	.....	4	6	4	.....
Vessel men:											
9 plants	1907	23	58.5	12	3	.....	.....	.....	2	4	2
	1908	22	61.1	9	3	.....	.....	.....	4	4	2
	1909	22	61.2	9	3	.....	.....	.....	4	4	2
	1910	24	56.6	12	6	.....	.....	.....	2	.....	4
10 plants	1910	26	57.8	12	6	.....	.....	.....	4	.....	4
	1911	25	59.1	12	3	.....	.....	.....	6	2	2
	1912	26	57.3	15	3	.....	.....	.....	2	4	2

[1] Including 1 employee whose full-time hours per week were 31.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BESSEMER CONVERTERS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Vessel men's helpers:											
9 plants	1907	47	57.0	24	9	.....	.....	.....	4	8	2
	1908	45	59.5	18	9	.....	.....	.....	8	8	2
	1909	45	59.6	18	9	.....	.....	.....	8	8	2
	1910	49	55.3	24	15	.....	.....	.....	4	.....	6
10 plants	1910	53	56.5	24	15	.....	.....	.....	8	.....	6
	1911	51	57.6	24	9	.....	.....	.....	12	4	2
	1912	53	55.9	30	9	.....	.....	.....	4	8	2
Cinder pitmen:											
8 plants	1907	118	67.9	24	.....	.....	.....	44	38	4	8
	1908	71	65.9	21	.....	.....	.....	12	28	10	.....
	1909	92	68.4	21	.....	.....	.....	23	30	10	8
	1910	79	67.3	6	15	.....	.....	.....	40	10	8
9 plants	1910	85	67.6	6	15	.....	.....	.....	46	10	8
	1911	62	69.8	6	.....	.....	.....	16	34	6	.....
	1912	87	67.2	21	.....	.....	.....	.....	36	30	.....
Bottom makers:											
9 plants	1907	17	73.4	.....	.....	.....	.....	2	11	4	.....
	1908	17	72.4	.....	.....	.....	.....	4	11	2	.....
	1909	16	73.1	.....	.....	.....	.....	2	11	3	.....
	1910	17	73.5	.....	.....	.....	.....	.....	13	2	2
10 plants	1910	19	73.4	.....	.....	.....	.....	.....	15	2	2
	1911	19	71.8	.....	.....	.....	.....	4	15	.....	.....
	1912	20	72.5	.....	.....	.....	.....	4	14	2	.....
Bottom makers' helpers:											
9 plants	1907	30	73.5	.....	.....	.....	.....	8	14	8	.....
	1908	27	72.2	.....	.....	.....	.....	7	18	2	.....
	1909	29	73.1	.....	.....	.....	.....	8	15	6	.....
	1910	30	72.9	.....	.....	.....	.....	.....	26	2	2
10 plants	1910	34	72.8	.....	.....	.....	.....	.....	30	2	2
	1911	31	72.2	.....	.....	.....	.....	10	20	.....	1
	1912	31	72.2	.....	.....	.....	.....	10	19	2	.....
Ladle liners:											
9 plants	1907	21	65.1	6	.....	.....	1	2	10	2	.....
	1908	21	65.6	6	.....	.....	1	4	8	.....	2
	1909	21	65.1	6	.....	.....	1	2	10	2	.....
	1910	23	66.3	6	.....	.....	1	.....	12	2	2
10 plants	1910	25	66.8	6	.....	.....	1	.....	14	2	2
	1911	24	68.3	3	.....	.....	1	4	16	.....	.....
	1912	24	68.9	3	.....	.....	1	4	14	2	.....
Ladle liners' helpers:											
9 plants	1907	39	68.2	6	.....	.....	1	10	20	2	.....
	1908	31	67.5	6	.....	.....	1	10	12	.....	2
	1909	29	68.5	6	.....	.....	1	10	18	4	.....
	1910	37	68.5	6	.....	.....	1	.....	24	4	2
10 plants	1910	39	68.7	6	.....	.....	1	.....	26	4	2
	1911	34	69.1	3	.....	.....	1	14	16	.....	.....
	1912	34	69.6	3	.....	.....	1	14	14	2	.....
Stopper makers:											
9 plants	1907	10	72.8	.....	.....	.....	2	.....	4	3	1
	1908	9	72.9	.....	.....	.....	2	.....	4	1	2
	1909	9	71.6	.....	.....	.....	2	2	2	1	2
	1910	11	73.1	.....	.....	.....	1	.....	8	.....	2
10 plants	1910	12	73.0	.....	.....	.....	1	.....	9	.....	2
	1911	10	72.0	.....	.....	.....	2	.....	6	.....	2
	1912	10	70.8	.....	.....	.....	3	.....	5	.....	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BESSEMER CONVERTERS—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were— 48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Stopper setters:											
9 plants	1907	45	51.5	39	.....	.....	.....	.....	4	2	.....
	1908	40	54.3	30	.....	.....	.....	.....	8	2	.....
	1909	34	55.4	24	.....	.....	.....	.....	8	2	.....
	1910	37	51.5	27	6	.....	.....	.....	2	.....	2
10 plants	1910	39	52.6	27	6	.....	.....	.....	4	.....	2
	1911	39	55.3	27	.....	.....	.....	.....	12	.....	.....
	1912	42	51.7	36	.....	.....	.....	.....	4	2	.....
Steel pourers:											
9 plants	1907	29	55.4	21	.....	.....	.....	.....	4	4	.....
	1908	28	57.4	18	.....	.....	.....	.....	6	4	.....
	1909	28	57.5	18	.....	.....	.....	.....	6	4	.....
	1910	30	54.5	21	3	.....	.....	.....	2	.....	4
10 plants	1910	32	55.6	21	3	.....	.....	.....	4	.....	4
	1911	30	55.1	21	.....	.....	.....	.....	9	.....	.....
	1912	32	54.7	24	.....	.....	.....	.....	4	4	.....
Mold cappers:											
8 plants	1907	48	54.5	36	.....	.....	.....	.....	8	4	.....
	1908	39	53.7	30	.....	.....	.....	.....	7	2	.....
	1909	43	54.0	33	.....	.....	.....	.....	6	4	.....
	1910	46	55.0	12	24	.....	.....	.....	4	2	4
9 plants	1910	52	57.0	12	24	.....	.....	.....	10	2	4
	1911	37	64.2	12	.....	.....	.....	.....	23	2	.....
	1912	44	59.5	24	.....	.....	.....	.....	14	6	.....
Ingot strippers:											
9 plants	1907	29	67.4	9	.....	.....	.....	4	6	6	4
	1908	28	68.4	6	.....	.....	.....	6	6	10	.....
	1909	28	70.2	6	.....	.....	.....	4	6	6	6
	1910	29	67.9	3	6	.....	.....	.....	8	6	6
10 plants	1910	31	68.1	3	6	.....	.....	.....	10	6	6
	1911	27	70.4	.....	3	.....	.....	6	12	6	.....
	1912	28	68.8	3	3	.....	.....	4	8	10	.....
Laborers:											
9 plants	1907	801	78.0	.....	.....	.....	4	22	172	266	337
	1908	425	76.2	.....	.....	.....	24	34	131	93	143
	1909	564	76.9	.....	12	.....	3	20	141	221	167
	1910	748	78.1	.....	.....	.....	22	13	242	152	[1] 319
10 plants	1910	786	77.8	.....	.....	.....	23	13	275	154	[1] 321
	1911	593	74.6	.....	.....	.....	27	25	253	215	73
	1912	626	75.7	.....	.....	1	17	29	242	174	163

PER CENT.

Stockers:											
9 plants	1907	371	62.5	46.1	.....	4.9	.....	7.5	7.3	22.4	11.9
	1908	260	58.3	57.7	1.5	9.2	.....	.....	10.4	9.6	11.5
	1909	266	63.6	42.9	.....	6.0	.....	1.5	12.4	22.6	14.7
	1910	350	64.9	32.6	8.9	.....	7.1	.....	19.4	5.7	26.3
10 plants	1910	352	64.9	32.4	8.8	.....	7.7	.....	19.3	5.7	26.1
	1911	241	61.7	46.1	.....	6.2	.8	.....	23.7	10.8	12.4
	1912	268	62.0	45.9	.....	7.5	.7	6.7	7.8	17.9	13.4

[1] Including 54 employees whose full-time hours per week were 85.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BESSEMER CONVERTERS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Cupola melters:											
7 plants	1907	15	65.2	40.0	.....	.....	.....	13.3	20.0	13.3	[1] 13.3
	1908	15	64.7	40.0	.....	.....	.....	13.3	20.0	13.3	13.3
	1909	15	64.7	40.0	.....	.....	.....	13.3	20.0	13.3	13.3
	1910	16	60.6	37.5	18.8	.....	.....	.....	18.8	12.5	12.5
	1911	15	64.3	40.0	.....	.....	.....	13.3	20.0	13.3	13.3
8 plants	1911	17	65.2	35.3	.....	.....	.....	11.8	29.4	11.8	11.8
	1912	18	61.6	50.0	.....	.....	.....	11.1	16.7	11.1	11.1
Cupola tappers:											
8 plants	1907	50	60.5	54.0	.....	.....	.....	8.0	18.0	12.0	8.0
	1908	43	59.3	55.8	.....	.....	.....	4.7	30.2	4.7	4.7
	1909	43	61.5	55.8	.....	.....	.....	.....	11.6	18.6	14.0
	1910	56	58.9	64.3	.....	.....	.....	.....	12.5	14.3	8.9
	1911	41	59.3	58.5	.....	.....	.....	.....	26.8	4.9	9.8
9 plants	1911	45	60.4	53.3	.....	.....	.....	.....	33.3	4.4	8.9
	1912	48	60.6	56.3	.....	.....	.....	4.2	10.4	20.8	8.3
Blowers:											
9 plants	1907	20	65.4	30.0	.....	.....	.....	10.0	50.0	10.0	.....
	1908	19	68.8	15.8	.....	.....	.....	10.5	63.2	10.5	.....
	1909	19	68.8	15.8	.....	.....	.....	10.5	63.2	10.5	.....
	1910	20	69.8	15.0	.....	.....	.....	.....	60.0	15.0	10.0
	1911	18	71.9	.....	.....	.....	.....	11.1	88.9	.....	.....
10 plants	1911	20	72.0	.....	.....	.....	.....	10.0	90.0	.....	.....
	1912	21	69.1	14.3	.....	.....	.....	9.5	66.7	9.5	.....
Regulators, first:											
9 plants	1907	26	62.3	46.2	.....	.....	.....	7.7	30.8	7.7	7.7
	1908	25	64.7	36.0	.....	.....	.....	16.0	32.0	8.0	8.0
	1909	25	64.8	36.0	.....	.....	.....	8.0	40.0	8.0	8.0
	1910	29	61.4	20.7	31.0	.....	.....	.....	34.5	.....	13.8
10 plants	1910	31	62.1	19.4	29.0	.....	.....	.....	38.7	.....	12.9
	1911	24	66.8	25.0	.....	.....	.....	16.7	50.0	.....	8.3
	1912	25	64.7	36.0	.....	.....	.....	16.0	32.0	8.0	8.0
Regulators, second:											
6 plants	1907	18	65.3	33.3	.....	.....	.....	11.1	33.3	22.2	.....
	1908	14	73.5	.....	.....	.....	.....	28.6	42.9	28.6	.....
	1909	14	73.8	.....	.....	.....	.....	14.3	57.1	28.6	.....
	1910	18	66.7	33.3	.....	.....	.....	.....	44.4	.....	22.2
8 plants	1910	22	67.5	27.3	.....	.....	.....	9.1	45.5	.....	18.2
	1911	21	65.0	28.6	.....	.....	.....	19.0	52.4	.....	.....
	1912	23	63.5	39.1	.....	.....	.....	17.4	26.1	17.4	.....
Vessel men:											
9 plants	1907	23	58.5	52.2	13.0	.....	.....	.....	8.7	17.4	8.7
	1908	22	61.1	40.9	13.6	.....	.....	.....	18.2	18.2	9.1
	1909	22	61.2	40.9	13.6	.....	.....	.....	18.2	18.2	9.1
	1910	24	56.6	50.0	25.0	.....	.....	.....	8.3	.....	16.7
10 plants	1910	26	57.8	46.2	23.1	.....	.....	.....	15.4	.....	15.4
	1911	25	59.1	48.0	12.0	.....	.....	.....	24.0	8.0	8.0
	1912	26	57.3	57.7	11.5	.....	.....	.....	7.7	15.4	7.7
Vessel men's helpers:											
9 plants	1907	47	57.0	51.1	19.1	.....	.....	.....	8.5	17.0	4.3
	1908	45	59.5	40.0	20.0	.....	.....	.....	17.8	17.8	4.4
	1909	45	59.6	40.0	20.0	.....	.....	.....	17.8	17.8	4.4
	1910	49	55.3	49.0	30.6	.....	.....	.....	8.2	.....	12.2
10 plants	1910	53	56.5	45.3	28.3	.....	.....	.....	15.1	.....	11.3
	1911	51	57.6	47.1	17.6	.....	.....	.....	23.5	7.8	3.9
	1912	53	55.9	56.6	17.0	.....	.....	.....	7.5	15.1	3.8

[1] Including 6.7 per cent whose full-time hours per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Con.

BESSEMER CONVERTERS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Cinder pitmen:											
8 plants	1907	118	67.9	20.3	.....	.....	.....	37.3	32.2	3.4	6.8
	1908	71	65.9	29.6	.....	.....	.....	16.9	39.4	14.1	.....
	1909	92	68.4	22.8	.....	.....	.....	25.0	32.6	10.9	8.7
	1910	79	67.3	7.6	19.0	.....	.....	.....	50.6	12.7	10.1
9 plants	1910	85	67.6	7.1	17.6	.....	.....	.....	54.1	11.8	9.4
	1911	62	69.8	9.7	.....	.....	.....	25.8	54.8	9.7	.....
	1912	87	67.2	24.1	.....	.....	.....	.....	41.4	34.5	.....
Bottom makers:											
9 plants	1907	17	73.4	.....	.....	.....	.....	11.8	64.7	23.5	.....
	1908	17	72.4	.....	.....	.....	.....	23.5	64.7	11.8	.....
	1909	16	73.1	.....	.....	.....	.....	12.5	68.8	18.8	.....
	1910	17	73.5	.....	.....	.....	.....	.....	76.5	11.8	11.8
10 plants	1910	19	73.4	.....	.....	.....	.....	.....	78.9	10.5	10.5
	1911	19	71.8	.....	.....	.....	.....	21.1	78.9	.....	.....
	1912	20	72.5	.....	.....	.....	.....	20.0	70.0	10.0	.....
Bottom maker's helpers:											
9 plants	1907	30	73.5	.....	.....	.....	.....	26.7	46.7	26.7	.....
	1908	27	72.2	.....	.....	.....	.....	25.9	66.7	7.4	.....
	1909	29	73.1	.....	.....	.....	.....	27.6	51.7	20.7	.....
	1910	30	72.9	.....	.....	.....	.....	.....	86.7	6.7	6.7
10 plants	1910	34	72.8	.....	.....	.....	.....	.....	88.2	5.9	5.9
	1911	31	72.2	.....	.....	.....	.....	32.3	64.5	.....	3.2
	1912	31	72.2	.....	.....	.....	.....	32.3	61.3	6.5	.....
Ladle liners:											
9 plants	1907	21	65.1	28.6	.....	.....	4.8	9.5	47.6	9.5	.....
	1908	21	65.6	28.6	.....	.....	4.8	19.0	38.1	.....	9.5
	1909	21	65.1	28.6	.....	.....	4.8	9.5	47.6	9.5	.....
	1910	23	66.3	26.1	.....	.....	4.3	.....	52.2	8.7	8.7
10 plants	1910	25	66.8	24.0	.....	.....	4.0	.....	56.0	8.0	8.0
	1911	24	68.3	12.5	.....	.....	4.2	16.7	66.7	.....	.....
	1912	24	68.9	12.5	.....	.....	4.2	16.7	58.3	8.3	.....
Ladle liners' helpers:											
9 plants	1907	39	68.2	15.4	.....	.....	2.6	25.6	51.3	5.1	.....
	1908	31	67.5	19.4	.....	.....	3.2	32.3	38.7	.....	6.5
	1909	39	68.5	15.4	.....	.....	2.6	25.6	46.2	10.3	.....
	1910	37	68.5	16.2	.....	.....	2.7	.....	64.9	10.8	5.4
10 plants	1910	39	68.7	15.4	.....	.....	2.6	.....	66.7	10.3	5.1
	1911	34	69.1	8.8	.....	.....	2.9	41.2	47.1	.....	.....
	1912	34	69.6	8.8	.....	.....	2.9	41.2	41.2	5.9	.....
Stopper makers:											
9 plants	1907	10	72.8	.....	.....	.....	20.0	.....	40.0	30.0	10.0
	1908	9	72.9	.....	.....	.....	22.2	.....	44.4	11.1	22.2
	1909	9	71.6	.....	.....	.....	22.2	22.2	22.2	11.1	22.2
	1910	11	73.1	.....	.....	.....	9.1	.....	72.7	.....	18.2
10 plants	1910	12	73.0	.....	.....	.....	8.3	.....	75.0	.....	16.7
	1911	10	72.0	.....	.....	.....	20.0	.....	60.0	.....	20.0
	1912	10	70.8	.....	.....	.....	30.0	.....	50.0	.....	20.0
Stopper setters:											
9 plants	1907	45	51.5	86.7	.....	.....	.....	.....	8.9	4.4	.....
	1908	40	54.3	75.0	.....	.....	.....	.....	20.0	5.0	.....
	1909	34	55.4	70.6	.....	.....	.....	.....	23.5	5.9	.....
	1910	37	51.5	73.0	16.2	.....	.....	.....	5.4	.....	5.4
10 plants	1910	39	52.6	69.2	15.4	.....	.....	.....	10.3	.....	5.1
	1911	39	55.3	69.2	.....	.....	.....	.....	30.8	.....	.....
	1912	42	51.7	85.7	.....	.....	.....	.....	9.5	4.8	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Con.

BESSEMER CONVERTERS—Continued.

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Steel pourers:											
9 plants	1907	29	55.4	72.4	.....	.....	.....	.....	13.8	13.8	.....
	1908	28	57.4	64.3	.....	.....	.....	.....	21.4	14.3	.....
	1909	28	57.5	64.3	.....	.....	.....	.....	21.4	14.3	.....
	1910	30	54.5	70.0	10.0	.....	.....	.....	6.7	.....	13.3
10 plants	1910	32	55.6	65.6	9.4	.....	.....	.....	12.5	.....	12.5
	1911	30	55.1	70.0	.....	.....	.....	.....	30.0	.....	.....
	1912	32	54.7	75.0	.....	.....	.....	.....	12.5	12.5	.....
Mold cappers:											
8 plants	1907	48	54.5	75.0	.....	.....	.....	.....	16.7	8.3	.....
	1908	39	53.7	76.9	.....	.....	.....	.....	17.9	5.1	.....
	1909	43	54.0	76.7	.....	.....	.....	.....	14.0	9.3	.....
	1910	46	55.0	26.1	52.2	.....	.....	.....	8.7	4.3	8.7
9 plants	1910	52	57.0	23.1	46.2	.....	.....	.....	19.2	3.8	7.7
	1911	37	64.2	32.4	.....	.....	.....	.....	62.2	5.4	.....
	1912	44	59.5	54.5	.....	.....	.....	.....	31.8	13.6	.....
Ingot strippers:											
9 plants	1907	29	67.4	31.0	.....	.....	.....	13.8	20.7	20.7	13.8
	1908	28	68.4	21.4	.....	.....	.....	21.4	21.4	35.7	.....
	1909	28	70.2	21.4	.....	.....	.....	14.3	21.4	21.4	21.4
	1910	29	67.9	10.3	20.7	.....	.....	.....	27.6	20.7	20.7
10 plants	1910	31	68.1	9.7	19.4	.....	.....	.....	32.3	19.4	19.4
	1911	27	70.4	.....	11.1	.....	.....	22.2	44.4	22.2	.....
	1912	28	68.8	10.7	10.7	.....	.....	14.3	28.6	35.7	.....
Laborers:											
9 plants	1907	801	78.0	.....	.....	.....	.5	2.7	21.5	33.2	42.1
	1908	425	76.2	.....	.....	.....	5.6	8.0	30.8	21.9	33.6
	1909	564	76.9	.....	2.1	.....	.5	3.5	25.0	39.2	29.6
	1910	748	78.1	.....	.....	.....	2.9	1.7	32.4	20.3	[1] 42.6
10 plants	1910	786	77.8	.....	.....	.....	2.9	1.7	35.0	19.6	[2] 40.8
	1911	593	74.6	.....	.....	.....	4.6	4.2	42.7	36.3	12.3
	1912	626	75.7	.....	.....	0.2	2.7	4.6	38.7	27.8	26.0

[1] Including 7.2 per cent whose full-time hours per week were 85.
[2] Including 6.9 per cent whose full-time hours per week were 85.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912.

BESSEMER CONVERTERS—Continued.

STOCKERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Pittsburgh	6	275	57.7	171	.....	18	.....	28	.....	14	44
Great Lakes and Middle West	3	96	76.3	.....	.....	.....	.....	.....	27	69	.....
Total	9	371	62.5	171	.....	18	.....	28	27	83	44
1908.											
Pittsburgh	6	224	55.8	150	4	24	.....	.....	4	12	30
Great Lakes and Middle West	3	36	74.2	.....	.....	.....	.....	.....	23	13	.....
Total	9	260	58.3	150	4	24	.....	.....	27	25	30
1909.											
Pittsburgh	6	213	60.2	114	.....	16	.....	4	26	14	39
Great Lakes and Middle West	3	53	77.5	.....	.....	.....	.....	.....	7	46	.....
Total	9	266	63.6	114	.....	16	.....	4	33	60	39
1910.											
Pittsburgh	6	296	61.9	114	31	.....	25	.....	66	.....	60
Great Lakes and Middle West	4	56	80.6	.....	.....	.....	2	.....	2	20	32
Total	10	352	64.9	114	31	.....	27	.....	68	20	92
1911.											
Pittsburgh	6	182	58.2	111	.....	15	.....	.....	16	10	30
Great Lakes and Middle West	4	59	72.4	.....	.....	.....	2	.....	41	16	.....
Total	10	241	61.7	111	.....	15	2	.....	57	26	30
1912.											
Pittsburgh	6	211	58.6	123	.....	20	.....	18	4	10	36
Great Lakes and Middle West	4	57	74.6	.....	.....	.....	2	.....	17	38	.....
Total	10	268	62.0	123	.....	20	2	18	21	48	36

CUPOLA MELTERS.

1907.											
Pittsburgh	5	12	62.5	6	.....	.....	.....	2	2	.....	[1] 2
Great Lakes and Middle West	2	3	76.0	.....	.....	.....	.....	.....	1	2	.....
Total	7	15	65.2	6	.....	.....	.....	2	3	2	[1] 2
1908.											
Pittsburgh	5	12	61.9	6	.....	.....	.....	2	2	.....	2
Great Lakes and Middle West	2	3	76.0	.....	.....	.....	.....	.....	1	2	.....
Total	7	15	64.7	6	.....	.....	.....	2	3	2	2
1909.											
Pittsburgh	5	12	61.9	6	.....	.....	.....	2	2	.....	2
Great Lakes and Middle West	2	3	76.0	.....	.....	.....	.....	.....	1	2	.....
Total	7	15	64.7	6	.....	.....	.....	2	3	2	2

[1] Including 1 employee whose full-time hours per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

CUPOLA MELTERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Pittsburgh	5	13	57.5	6	3	.....	.....	.....	2	.....	2
Great Lakes and Middle West	2	3	74.0	.....	.....	.....	.....	.....	1	2	.....
Total	7	16	60.6	6	3	.....	.....	.....	3	2	2
1911.											
Pittsburgh	5	12	61.9	6	.....	.....	.....	2	2	.....	2
Great Lakes and Middle West	3	5	73.2	.....	.....	.....	.....	.....	3	2	.....
Total	8	17	65.2	6	.....	.....	.....	2	5	2	2
1912.											
Pittsburgh	5	13	57.2	9	.....	.....	.....	2	.....	.....	2
Great Lakes and Middle West	3	5	73.2	.....	.....	.....	.....	.....	3	2	.....
Total	8	18	61.6	9	.....	.....	.....	2	3	2	2
CUPOLA TAPPERS.											
1907.											
Pittsburgh	5	43	57.8	27	.....	.....	.....	4	8	.....	4
Great Lakes and Middle West	3	7	77.1	.....	.....	.....	.....	.....	1	6	.....
Total	8	50	60.5	27	.....	.....	.....	4	9	6	4
1908.											
Pittsburgh	5	38	57.3	24	.....	.....	.....	2	10	.....	2
Great Lakes and Middle West	3	5	74.4	.....	.....	.....	.....	.....	3	2	.....
Total	8	43	59.3	24	.....	.....	.....	2	13	2	2
1909.											
Pittsburgh	5	34	57.2	24	.....	.....	.....	.....	4	.....	6
Great Lakes and Middle West	3	9	77.7	.....	.....	.....	.....	.....	1	8	.....
Total	8	43	61.5	24	.....	.....	.....	.....	5	8	6
1910.											
Pittsburgh	5	48	55.4	36	.....	.....	.....	.....	6	6	.....
Great Lakes and Middle West	3	8	80.3	.....	.....	.....	.....	.....	1	2	5
Total	8	56	58.9	36	.....	.....	.....	.....	7	8	5
1911.											
Pittsburgh	5	34	56.5	24	.....	.....	.....	.....	6	.....	4
Great Lakes and Middle West	4	11	72.5	.....	.....	.....	.....	.....	9	2	.....
Total	9	45	60.4	24	.....	.....	.....	.....	15	2	4
1912.											
Pittsburgh	5	33	53.7	27	.....	.....	.....	2	.....	.....	4
Great Lakes and Middle West	4	15	75.6	.....	.....	.....	.....	.....	5	10	.....
Total	9	48	60.6	27	.....	.....	.....	2	5	10	4

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

BLOWERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Pittsburgh	6	14	61.6	6	.....	.....	.....	2	6	.....	.....
Great Lakes and Middle West	3	6	74.0	.....	.....	.....	.....	.....	4	2	.....
Total	9	20	65.4	6	.....	.....	.....	2	10	2	.....
1908.											
Pittsburgh	6	13	66.4	3	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West	3	6	74.0	.....	.....	.....	.....	.....	4	2	.....
Total	9	19	68.8	3	.....	.....	.....	2	12	2	.....
1909.											
Pittsburgh	6	13	66.4	3	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West	3	6	74.2	.....	.....	.....	.....	.....	4	2	.....
Total	9	19	68.8	3	.....	.....	.....	2	12	2	.....
1910.											
Pittsburgh	6	14	67.1	3	.....	.....	.....	.....	8	3	.....
Great Lakes and Middle West	3	6	76.0	.....	.....	.....	.....	.....	4	.....	2
Total	9	20	69.8	3	.....	.....	.....	.....	12	3	2
1911.											
Pittsburgh	6	12	71.9	.....	.....	.....	.....	2	10	.....	.....
Great Lakes and Middle West	4	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
Total	10	20	72.0	.....	.....	.....	.....	2	18	.....	.....
1912.											
Pittsburgh	6	13	66.4	3	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West	4	8	73.5	.....	.....	.....	.....	.....	6	2	.....
Total	10	21	69.1	3	.....	.....	.....	2	14	2	.....

REGULATORS, FIRST.

1907.											
Pittsburgh	6	20	57.6	12	.....	.....	.....	2	6	.....	.....
Great Lakes and Middle West	3	6	78.0	.....	.....	.....	.....	.....	2	2	2
Total	9	26	62.3	12	.....	.....	.....	2	8	2	2
1908.											
Pittsburgh	6	19	60.5	9	.....	.....	.....	4	6	.....	.....
Great Lakes and Middle West	3	6	78.0	.....	.....	.....	.....	.....	2	2	2
Total	9	25	64.7	9	.....	.....	.....	4	8	2	2
1909.											
Pittsburgh	6	19	60.6	9	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West	3	6	78.2	.....	.....	.....	.....	.....	2	2	2
Total	9	25	64.8	9	.....	.....	.....	2	10	2	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

REGULATORS, FIRST—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Pittsburgh	6	23	56.6	6	9	.....	.....	.....	8	.....	.....
Great Lakes and Middle West	4	8	78.0	.....	.....	.....	.....	.....	4	.....	4
Total	10	31	62.1	6	9	.....	.....	.....	12	.....	4
1911.											
Pittsburgh	6	16	62.8	6	.....	.....	.....	4	6	.....	.....
Great Lakes and Middle West	4	8	75.0	.....	.....	.....	.....	.....	6	.....	2
Total	10	24	66.8	6	.....	.....	.....	4	12	.....	2
1912.											
Pittsburgh	6	17	59.1	9	.....	.....	.....	4	4	.....	.....
Great Lakes and Middle West	4	8	76.5	.....	.....	.....	.....	.....	4	2	2
Total	10	25	64.7	9	.....	.....	.....	4	8	2	2
REGULATORS, SECOND.											
1907.											
Pittsburgh	5	14	61.6	6	.....	.....	.....	2	6	.....	.....
Great Lakes and Middle West	1	4	78.0	.....	.....	.....	.....	.....	.....	4	.....
Total	6	18	65.3	6	.....	.....	.....	2	6	4	.....
1908.											
Pittsburgh	5	10	71.7	.....	.....	.....	.....	4	6	.....	.....
Great Lakes and Middle West	1	4	78.0	.....	.....	.....	.....	.....	.....	4	.....
Total	6	14	73.5	.....	.....	.....	.....	4	6	4	.....
1909.											
Pittsburgh	5	10	71.9	.....	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West	1	4	78.5	.....	.....	.....	.....	.....	.....	4	.....
Total	6	14	73.8	.....	.....	.....	.....	2	8	4	.....
1910.											
Pittsburgh	6	16	62.9	6	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West	2	6	80.0	.....	.....	.....	.....	.....	2	.....	4
Total	8	22	67.5	6	.....	.....	.....	2	10	.....	4
1911.											
Pittsburgh	6	16	62.8	6	.....	.....	.....	4	6	.....	.....
Great Lakes and Middle West	2	5	72.0	.....	.....	.....	.....	.....	5	.....	.....
Total	8	21	65.0	6	.....	.....	.....	4	11	.....	.....
1912.											
Pittsburgh	6	17	59.1	9	.....	.....	.....	4	4	.....	.....
Great Lakes and Middle West	2	6	76.0	.....	.....	.....	.....	.....	2	4	.....
Total	8	23	63.5	9	.....	.....	.....	4	6	4	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

VESSEL MEN.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Pittsburgh	6	16	54.1	12	.....	.....	.....	.....	2	2	.....
Great Lakes and Middle West	3	7	68.6	.....	3	.....	.....	.....	.....	2	2
Total	9	23	58.5	12	3	.....	.....	.....	2	4	2
1908.											
Pittsburgh	6	15	57.7	9	.....	.....	.....	.....	4	2	.....
Great Lakes and Middle West	3	7	68.6	.....	3	.....	.....	.....	.....	2	2
Total	9	22	61.1	9	3	.....	.....	.....	4	4	2
1909.											
Pittsburgh	6	15	57.7	9	.....	.....	.....	.....	4	2	.....
Great Lakes and Middle West	3	7	68.7	.....	3	.....	.....	.....	.....	2	2
Total	9	22	61.2	9	3	.....	.....	.....	4	4	2
1910.											
Pittsburgh	6	17	51.0	12	3	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	4	9	70.7	.....	3	.....	.....	.....	2	.....	4
Total	10	26	57.8	12	6	.....	.....	.....	4	.....	4
1911.											
Pittsburgh	6	16	54.1	12	.....	.....	.....	.....	2	2	.....
Great Lakes and Middle West	4	9	68.0	.....	3	.....	.....	.....	4	.....	2
Total	10	25	59.1	12	3	.....	.....	.....	6	2	2
1912.											
Pittsburgh	6	17	50.9	15	.....	.....	.....	.....	.....	2	.....
Great Lakes and Middle West	4	9	69.3	.....	3	.....	.....	.....	2	2	2
Total	10	26	57.3	15	3	.....	.....	.....	2	4	2

VESSEL MEN'S HELPERS.

1907.											
Pittsburgh	6	32	54.1	24	.....	.....	.....	.....	4	4	.....
Great Lakes and Middle West	3	15	63.2	.....	9	.....	.....	.....	.....	4	2
Total	9	47	57.0	24	9	.....	.....	.....	4	8	2
1908.											
Pittsburgh	6	30	57.7	18	.....	.....	.....	.....	8	4	.....
Great Lakes and Middle West	3	15	63.2	.....	9	.....	.....	.....	.....	4	2
Total	9	45	59.5	18	9	.....	.....	.....	8	8	2
1909.											
Pittsburgh	6	30	57.7	18	.....	.....	.....	.....	8	4	.....
Great Lakes and Middle West	3	15	63.3	.....	9	.....	.....	.....	.....	4	2
Total	9	45	59.6	18	9	.....	.....	.....	8	8	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

VESSEL MEN'S HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Pittsburgh	6	34	51.1	24	6	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	4	19	66.3	.....	9	.....	.....	.....	4	.....	6
Total	10	53	56.5	24	15	.....	.....	.....	8	.....	6
1911.											
Pittsburgh	6	32	53.9	24	.....	.....	.....	.....	4	4	.....
Great Lakes and Middle West	4	19	63.8	.....	9	.....	.....	.....	8	.....	2
Total	10	51	57.6	24	9	.....	.....	.....	12	4	2
1912.											
Pittsburgh	6	34	50.8	30	.....	.....	.....	.....	.....	4	.....
Great Lakes and Middle West	4	19	65.1	.....	9	.....	.....	.....	4	4	2
Total	10	53	55.9	30	9	.....	.....	.....	4	8	2

CINDER PITMEN.

1907.											
Pittsburgh	5	104	66.3	24	.....	.....	.....	44	36	.....	.....
Great Lakes and Middle West	3	14	80.6	.....	.....	.....	.....	.....	2	4	8
Total	8	118	67.9	24	.....	.....	.....	44	38	4	8
1908.											
Pittsburgh	5	59	63.4	21	.....	.....	.....	12	26	.....	.....
Great Lakes and Middle West	3	12	78.5	.....	.....	.....	.....	.....	2	10	.....
Total	8	71	65.9	21	.....	.....	.....	12	28	10	.....
1909.											
Pittsburgh	5	72	64.8	21	.....	.....	.....	23	28	.....	.....
Great Lakes and Middle West	3	20	81.0	.....	.....	.....	.....	.....	2	10	8
Total	8	92	68.4	21	.....	.....	.....	23	30	10	8
1910.											
Pittsburgh	5	63	64.4	6	15	.....	.....	.....	38	4	.....
Great Lakes and Middle West	4	22	76.8	.....	.....	.....	.....	.....	8	6	8
Total	9	85	67.6	6	15	.....	.....	.....	46	10	8
1911.											
Pittsburgh	5	48	68.8	6	.....	.....	.....	16	26	.....	.....
Great Lakes and Middle West	4	14	73.3	.....	.....	.....	.....	.....	8	6	.....
Total	9	62	69.8	6	.....	.....	.....	16	34	6	.....
1912.											
Pittsburgh	5	66	64.6	21	.....	.....	.....	.....	30	15	.....
Great Lakes and Middle West	4	21	75.4	.....	.....	.....	.....	.....	6	15	.....
Total	9	87	67.2	21	.....	.....	.....	.....	36	30	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

BOTTOM MAKERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Pittsburgh	6	12	71.9	.....	.....	.....	.....	2	10	.....	.....
Great Lakes and Middle West	3	5	76.8	.....	.....	.....	.....	.....	1	4	.....
Total	9	17	73.4	.....	.....	.....	.....	2	11	4	.....
1908.											
Pittsburgh	6	12	71.6	.....	.....	.....	.....	4	8	.....	.....
Great Lakes and Middle West	3	5	74.4	.....	.....	.....	.....	.....	3	2	.....
Total	9	17	72.4	.....	.....	.....	.....	4	11	2	.....
1909.											
Pittsburgh	6	12	71.9	.....	.....	.....	.....	2	10	.....	.....
Great Lakes and Middle West	3	4	76.6	.....	.....	.....	.....	.....	1	3	.....
Total	9	16	73.1	.....	.....	.....	.....	2	11	3	.....
1910.											
Pittsburgh	6	12	72.2	.....	.....	.....	.....	.....	10	2	.....
Great Lakes and Middle West	4	7	75.4	.....	.....	.....	.....	.....	5	.....	2
Total	10	19	73.4	.....	.....	.....	.....	.....	15	2	2
1911.											
Pittsburgh	6	12	71.7	.....	.....	.....	.....	4	8	.....	.....
Great Lakes and Middle West	4	7	72.0	.....	.....	.....	.....	.....	7	.....	.....
Total	10	19	71.8	.....	.....	.....	.....	4	15	.....	.....
1912.											
Pittsburgh	6	12	71.8	.....	.....	.....	.....	4	8	.....	.....
Great Lakes and Middle West	4	8	73.5	.....	.....	.....	.....	.....	6	2	.....
Total	10	20	72.5	.....	.....	.....	.....	4	14	2	.....

BOTTOM MAKERS' HELPERS.

1907.											
Pittsburgh	6	20	71.8	.....	.....	.....	....	8	12	.....	.....
Great Lakes and Middle West	3	10	76.8	.....	.....	.....	.....	.....	2	8	.....
Total	9	30	73.5	.....	.....	.....	.....	8	14	8	.....
1908.											
Pittsburgh	6	17	71.6	.....	.....	.....	.....	7	10	.....	.....
Great Lakes and Middle West	3	10	73.2	.....	.....	.....	.....	.....	8	2	.....
Total	9	27	72.2	.....	.....	.....	.....	7	18	2	.....
1909.											
Pittsburgh	6	20	71.8	.....	.....	.....	.....	8	12	.....	.....
Great Lakes and Middle West	3	9	76.1	.....	.....	.....	.....	.....	3	6	.....
Total	9	29	73.1	.....	.....	.....	.....	8	15	6	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

BOTTOM MAKERS' HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Pittsburgh	6	20	72.1	.....	.....	.....	.....	.....	18	2	.....
Great Lakes and Middle West	4	14	73.7	.....	.....	.....	.....	.....	12	.....	2
Total	10	34	72.8	.....	.....	.....	.....	.....	30	2	2
1911.											
Pittsburgh	6	19	72.3	.....	.....	.....	.....	10	8	.....	1
Great Lakes and Middle West	4	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Total	10	31	72.2	.....	.....	.....	.....	10	20	.....	1
1912.											
Pittsburgh	6	20	71.7	.....	.....	.....	.....	10	10	.....	.....
Great Lakes and Middle West	4	11	73.1	.....	.....	.....	.....	.....	9	2	.....
Total	10	31	72.2	.....	.....	.....	.....	10	19	2	.....
LADLE LINERS.											
1907.											
Pittsburgh	6	13	66.4	3	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West	3	8	63.0	3	.....	.....	1	.....	2	2	.....
Total	9	21	65.1	6	.....	.....	1	2	10	2	.....
1908.											
Pittsburgh	6	13	66.2	3	.....	.....	.....	4	6	.....	.....
Great Lakes and Middle West	3	8	64.5	3	.....	.....	1	.....	2	.....	2
Total	9	21	65.6	6	.....	.....	1	4	8	.....	2
1909.											
Pittsburgh	6	13	66.4	3	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West	3	8	63.1	3	.....	.....	1	.....	2	2	.....
Total	9	21	65.1	6	.....	.....	1	2	10	2	.....
1910.											
Pittsburgh	6	15	67.3	3	.....	.....	.....	.....	10	2	.....
Great Lakes and Middle West	4	10	66.0	3	.....	.....	1	.....	4	.....	2
Total	10	25	66.8	6	.....	.....	1	.....	14	2	2
1911.											
Pittsburgh	6	14	71.7	.....	.....	.....	.....	4	10	.....	.....
Great Lakes and Middle West	4	10	63.6	3	.....	.....	1	.....	6	.....	.....
Total	10	24	68.3	3	.....	.....	1	4	16	.....	.....
1912.											
Pittsburgh	6	14	71.8	.....	.....	.....	.....	4	10	.....	.....
Great Lakes and Middle West	4	10	64.8	3	.....	.....	1	.....	4	2	.....
Total	10	24	68.9	3	.....	.....	1	4	14	2	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

LADLE LINERS' HELPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Pittsburgh	6	29	69.3	3	.....	.....	.....	10	16	.....	.....
Great Lakes and Middle West	3	10	64.8	3	.....	.....	1	.....	4	2	.....
Total	9	39	68.2	6	.....	.....	1	10	20	2	.....
1908.											
Pittsburgh	6	21	68.2	3	.....	.....	.....	10	8	.....	.....
Great Lakes and Middle West	3	10	66.0	3	.....	.....	1	.....	4	.....	2
Total	9	31	67.5	6	.....	.....	1	10	12	.....	2
1909.											
Pittsburgh	6	27	69.1	3	.....	.....	.....	10	14	.....	.....
Great Lakes and Middle West	3	12	67.2	3	.....	.....	1	.....	4	4	.....
Total	9	39	68.5	6	.....	.....	1	10	18	4	.....
1910.											
Pittsburgh	6	27	69.5	3	.....	.....	.....	.....	20	4	.....
Great Lakes and Middle West	4	12	67.0	3	.....	.....	1	.....	6	.....	2
Total	10	39	68.7	6	.....	.....	1	.....	26	4	2
1911.											
Pittsburgh	6	24	71.5	.....	.....	.....	.....	14	10	.....	.....
Great Lakes and Middle West	4	10	63.6	3	.....	.....	1	.....	6	.....	.....
Total	10	34	69.1	3	.....	.....	1	14	16	.....	.....
1912.											
Pittsburgh	6	24	71.6	.....	.....	.....	.....	14	10	.....	.....
Great Lakes and Middle West	4	10	64.8	3	.....	.....	1	.....	4	2	.....
Total	10	34	69.6	3	.....	.....	1	14	14	2	.....

STOPPER MAKERS.

1907.											
Pittsburgh	6	6	71.3	.....	.....	.....	2	.....	2	1	1
Great Lakes and Middle West	3	4	75.0	.....	.....	.....	.....	.....	2	2	.....
Total	9	10	72.8	.....	.....	.....	2	.....	4	3	1
1908.											
Pittsburgh	6	6	73.3	.....	.....	.....	2	.....	1	1	2
Great Lakes and Middle West	3	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	9	9	72.9	.....	.....	.....	2	.....	4	1	2
1909.											
Pittsburgh	6	6	72.3	.....	.....	.....	2	1	.....	1	2
Great Lakes and Middle West	3	3	70.0	.....	.....	.....	.....	1	2	.....	.....
Total	9	9	71.6	.....	.....	.....	2	2	2	1	2
1910.											
Pittsburgh	6	7	72.0	.....	.....	.....	1	.....	5	.....	1
Great Lakes and Middle West	4	5	74.4	.....	.....	.....	.....	.....	4	.....	1
Total	10	12	73.0	.....	.....	.....	1	.....	9	.....	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

STOPPER MAKERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.											
Pittsburgh	6	6	72.0	.....	.....	.....	2	.....	2	.....	2
Great Lakes and Middle West	4	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Total	10	10	72.0	.....	.....	.....	2	.....	6	.....	2
1912.											
Pittsburgh	6	6	70.0	.....	.....	.....	3	.....	1	.....	2
Great Lakes and Middle West	4	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Total	10	10	70.8	.....	.....	.....	3	.....	5	.....	2

STOPPER SETTERS.

1907.											
Pittsburgh	6	35	49.4	33	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	3	10	58.8	6	.....	.....	.....	.....	2	2	.....
Total	9	45	51.5	39	.....	.....	.....	.....	4	2	.....
1908.											
Pittsburgh	6	30	52.8	24	.....	.....	.....	.....	6	.....	.....
Great Lakes and Middle West	3	10	58.8	6	.....	.....	.....	.....	2	2	.....
Total	9	40	54.3	30	.....	.....	.....	.....	8	2	.....
1909.											
Pittsburgh	6	24	54.0	18	.....	.....	.....	.....	6	.....	.....
Great Lakes and Middle West	3	10	58.9	6	.....	.....	.....	.....	2	2	.....
Total	9	34	55.4	24	.....	.....	.....	.....	8	2	.....
1910.											
Pittsburgh	6	27	48.4	21	6	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	4	12	62.0	6	.....	.....	.....	.....	4	.....	2
Total	10	39	52.6	27	6	.....	.....	.....	4	.....	2
1911.											
Pittsburgh	6	27	53.3	21	.....	.....	.....	.....	6	.....	.....
Great Lakes and Middle West	4	12	60.0	6	.....	.....	.....	.....	6	.....	.....
Total	10	39	55.3	27	.....	.....	.....	.....	12	.....	.....
1912.											
Pittsburgh	6	30	47.9	30	.....	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	4	12	61.0	6	.....	.....	.....	.....	4	2	.....
Total	10	42	51.7	36	.....	.....	.....	.....	4	2	.....

STEEL POURERS.

1907.											
Pittsburgh	6	17	50.8	15	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	3	12	62.0	6	.....	.....	.....	.....	2	4	.....
Total	9	29	55.4	21	.....	.....	.....	.....	4	4	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

STEEL POURERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1908.											
Pittsburgh	6	16	54.0	12	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	3	12	62.0	6	.....	.....	.....	.....	2	4	.....
Total	9	28	57.4	18	.....	.....	.....	.....	6	4	.....
1909.											
Pittsburgh	6	16	54.0	12	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	3	12	62.2	6	.....	.....	.....	.....	2	4	.....
Total	9	28	57.5	18	.....	.....	.....	.....	6	4	.....
1910.											
Pittsburgh	6	18	48.1	15	3	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	4	14	65.1	6	.....	.....	.....	.....	4	.....	4
Total	10	32	55.6	21	3	.....	.....	.....	4	.....	4
1911.											
Pittsburgh	6	17	50.7	15	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	4	13	60.9	6	.....	.....	.....	.....	7	.....	.....
Total	10	30	55.1	21	.....	.....	.....	.....	9	.....	.....
1912.											
Pittsburgh	6	18	47.9	18	.....	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	4	14	63.4	6	.....	.....	.....	.....	4	4	.....
Total	10	32	54.7	24	.....	.....	.....	.....	4	4	.....

MOLD CAPPERS.

1907.											
Pittsburgh	5	42	51.4	36	.....	.....	.....	.....	6	.....	...
Great Lakes and Middle West	3	6	76.0	.....	.....	.....	.....	.....	2	4	.....
Total	8	48	54.5	36	.....	.....	.....	.....	8	4	.....
1908.											
Pittsburgh	5	34	50.8	30	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	3	5	73.2	.....	.....	.....	.....	.....	3	2	.....
Total	8	39	53.7	30	.....	.....	.....	.....	7	2	.....
1909.											
Pittsburgh	5	37	50.6	33	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	3	6	75.2	.....	.....	.....	.....	.....	2	4	.....
Total	8	43	54.0	33	.....	.....	.....	.....	6	4	.....
1910.											
Pittsburgh	5	38	50.1	12	24	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	4	14	75.6	.....	.....	.....	.....	.....	8	2	4
Total	9	52	57.0	12	24	.....	.....	.....	10	2	4

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

MOLD CAPPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were— 48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.											
Pittsburgh	5	26	60.8	12	.....	.....	.....	.....	14	.....	.....
Great Lakes and Middle West	4	11	72.3	.....	.....	.....	.....	.....	9	2	.....
Total	9	37	64.2	12	.....	.....	.....	.....	23	2	.....
1912.											
Pittsburgh	5	30	52.7	24	.....	.....	.....	.....	6	.....	.....
Great Lakes and Middle West	4	14	73.9	.....	.....	.....	.....	.....	8	6	.....
Total	9	44	59.5	24	.....	.....	.....	.....	14	6	.....

INGOT STRIPPERS.

1907.											
Pittsburgh	6	19	60.5	9	.....	.....	.....	4	6	.....	.....
Great Lakes and Middle West	3	10	80.4	.....	.....	.....	.....	.....	.....	6	4
Total	9	29	67.4	9	.....	.....	.....	4	6	6	4
1908.											
Pittsburgh	6	18	63.8	6	.....	.....	.....	6	6	.....	.....
Great Lakes and Middle West	3	10	76.8	.....	.....	.....	.....	.....	.....	10	.....
Total	9	28	68.4	6	.....	.....	.....	6	6	10	.....
1909.											
Pittsburgh	6	18	65.2	6	.....	.....	.....	4	6	.....	2
Great Lakes and Middle West	3	10	79.2	.....	.....	.....	.....	.....	.....	6	4
Total	9	28	70.2	6	.....	.....	.....	4	6	6	6
1910.											
Pittsburgh	6	19	61.3	3	6	.....	.....	.....	8	2	.....
Great Lakes and Middle West	4	12	79.0	.....	.....	.....	.....	.....	2	4	6
Total	10	31	68.1	3	6	.....	.....	.....	10	6	6
1911.											
Pittsburgh	6	15	67.5	.....	3	.....	.....	6	6	.....	.....
Great Lakes and Middle West	4	12	74.0	.....	.....	.....	.....	.....	6	6	.....
Total	10	27	70.4	.....	3	.....	.....	6	12	6	.....
1912.											
Pittsburgh	6	16	63.4	3	3	.....	.....	4	6	.....	.....
Great Lakes and Middle West	4	12	76.0	.....	.....	.....	.....	.....	2	10	.....
Total	10	28	68.8	3	3	.....	.....	4	8	10	.....

LABORERS.

1907.											
Pittsburgh	6	602	76.9	.....	.....	.....	4	22	154	218	204
Great Lakes and Middle West	3	199	81.5	.....	.....	.....	.....	.....	18	48	133
Total	9	801	78.0	.....	.....	.....	4	22	172	266	337

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Concluded.

BESSEMER CONVERTERS—Continued.

LABORERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1908.											
Pittsburgh	6	309	74.5	.....	.....	.....	24	34	107	73	71
Great Lakes and Middle West	3	116	80.6	.....	.....	.....	.....	.....	24	20	72
Total	9	425	76.2	.....	.....	.....	24	34	131	93	143
1909.											
Pittsburgh	6	401	75.4	.....	12	.....	3	18	118	174	76
Great Lakes and Middle West	3	163	80.6	.....	.....	.....	.....	2	23	47	91
Total	9	564	76.9	.....	12	.....	3	20	141	221	167
1910.											
Pittsburgh	6	541	77.2	.....	.....	.....	22	13	184	144	[1] 178
Great Lakes and Middle West	4	245	79.1	.....	.....	.....	1	.....	91	10	143
Total	10	786	77.8	.....	.....	.....	23	13	275	154	[1] 321
1911.											
Pittsburgh	6	422	74.3	.....	.....	.....	24	25	140	205	28
Great Lakes and Middle West	4	171	75.2	.....	.....	.....	3	.....	113	10	45
Total	10	593	74.6	.....	.....	.....	27	25	253	215	73
1912.											
Pittsburgh	6	428	75.0	.....	.....	1	13	29	161	125	99
Great Lakes and Middle West	4	198	77.0	.....	.....	.....	4	.....	81	49	64
Total	10	626	75.7	.....	.....	1	17	29	242	174	163

[1] Including 54 employees whose full-time hours per week were 85.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912.

BESSEMER CONVERTERS—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

STOCKERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were— 48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
6 plants	1907	275	57.7	171	.....	18	.....	28	.....	14	44
	1908	224	55.8	150	4	24	.....	.....	4	12	30
	1909	213	60.2	114	.....	16	.....	4	26	14	39
	1910	296	61.9	114	31	.....	25	.....	66	.....	60
	1911	182	58.2	111	.....	15	.....	.....	16	10	30
	1912	211	58.6	123	.....	20	.....	18	4	10	36
Great Lakes and Middle West:											
3 plants	1907	96	76.3	.....	.....	.....	.....	.....	27	69	.....
	1908	36	74.2	.....	.....	.....	.....	.....	23	13	.....
	1909	53	77.5	.....	.....	.....	.....	.....	7	46	.....
	1910	54	81.3	.....	.....	.....	.....	.....	2	20	32
4 plants	1910	56	80.6	.....	.....	.....	2	.....	2	20	32
	1911	59	72.4	.....	.....	.....	2	.....	41	16	.....
	1912	57	74.6	.....	.....	.....	2	.....	17	38	.....

CUPOLA MELTERS.

Pittsburgh:											
5 plants	1907	12	62.5	6	.....	.....	.....	2	2	.....	[1] 2
	1908	12	61.9	6	.....	.....	.....	2	2	.....	2
	1909	12	61.9	6	.....	.....	.....	2	2	.....	2
	1910	13	57.5	6	3	.....	.....	.....	2	.....	2
	1911	12	61.9	6	.....	.....	.....	2	2	.....	2
	1912	13	57.2	9	.....	.....	.....	2	.....	.....	2
Great Lakes and Middle West:											
2 plants	1907	3	76.0	.....	.....	.....	.....	.....	1	2	.....
	1908	3	76.0	.....	.....	.....	.....	.....	1	2	.....
	1909	3	76.0	.....	.....	.....	.....	.....	1	2	.....
	1910	3	74.0	.....	.....	.....	.....	.....	1	2	.....
	1911	3	74.0	.....	.....	.....	.....	.....	1	2	.....
3 plants	1911	5	73.2	.....	.....	.....	.....	.....	3	2	.....
	1912	5	73.2	.....	.....	.....	.....	.....	3	2	.....

CUPOLA TAPPERS.

Pittsburgh:											
5 plants	1907	43	57.8	27	.....	.....	.....	4	8	.....	4
	1908	38	57.3	24	.....	.....	.....	2	10	.....	2
	1909	34	57.2	24	.....	.....	.....	.....	4	.....	6
	1910	48	55.4	36	.....	.....	.....	.....	6	6	.....
	1911	34	56.5	24	.....	.....	.....	.....	6	.....	4
	1912	33	53.7	27	.....	.....	.....	2	.....	.....	4
Great Lakes and Middle West:											
3 plants	1907	7	77.1	.....	.....	.....	.....	.....	1	6	.....
	1908	5	74.4	.....	.....	.....	.....	.....	3	2	.....
	1909	9	77.7	.....	.....	.....	.....	.....	1	8	.....
	1910	8	80.3	.....	.....	.....	.....	.....	1	2	5
	1911	7	72.9	.....	.....	.....	.....	.....	5	2	.....
4 plants	1911	11	72.5	.....	.....	.....	.....	.....	9	2	.....
	1912	15	75.6	.....	.....	.....	.....	.....	5	10	.....

[1] Including 1 employee whose full-time hours per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

BLOWERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
6 plants	1907	14	61.6	6	.....	.....	.....	2	6	.....	.....
	1908	13	66.4	3	.....	.....	.....	2	8	.....	.....
	1909	13	66.4	3	.....	.....	.....	2	8	.....	.....
	1910	14	67.1	3	.....	.....	.....	.....	8	3	.....
	1911	12	71.9	.....	.....	.....	.....	2	10	.....	.....
	1912	13	66.4	3	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West:											
3 plants	1907	6	74.0	.....	.....	.....	.....	.....	4	2	.....
	1908	6	74.0	.....	.....	.....	.....	.....	4	2	.....
	1909	6	74.2	.....	.....	.....	.....	.....	4	2	.....
	1910	6	76.0	.....	.....	.....	.....	.....	4	.....	2
	1911	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
4 plants	1911	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
	1912	8	73.5	.....	.....	.....	.....	.....	6	2	.....

REGULATORS, FIRST.

Pittsburgh:											
6 plants	1907	20	57.6	12	.....	.....	.....	2	6	.....	.....
	1908	19	60.5	9	.....	.....	.....	4	6	.....	.....
	1909	19	60.6	9	.....	.....	.....	2	8	.....	.....
	1910	23	56.6	6	9	.....	.....	.....	8	.....	.....
	1911	16	62.8	6	.....	.....	.....	4	6	.....	.....
	1912	17	59.1	9	.....	.....	.....	4	4	.....	.....
Great Lakes and Middle West:											
3 plants	1907	6	78.0	.....	.....	.....	.....	.....	2	2	2
	1908	6	78.0	.....	.....	.....	.....	.....	2	2	2
	1909	6	78.2	.....	.....	.....	.....	.....	2	2	2
	1910	6	80.0	.....	.....	.....	.....	.....	2	.....	4
4 plants	1910	8	78.0	.....	.....	.....	.....	.....	4	.....	4
	1911	8	75.0	.....	.....	.....	.....	.....	6	.....	2
	1912	8	76.5	.....	.....	.....	.....	.....	4	2	2

REGULATORS, SECOND.

Pittsburgh:											
5 plants	1907	14	61.6	6	.....	.....	.....	2	6	.....	.....
	1908	10	71.7	.....	.....	.....	.....	4	6	.....	.....
	1909	10	71.9	.....	.....	.....	.....	2	8	.....	.....
	1910	14	61.7	6	.....	.....	.....	.....	8	.....	.....
6 plants	1910	16	62.9	6	.....	.....	.....	2	8	.....	.....
	1911	16	62.8	6	.....	.....	.....	4	6	.....	.....
	1912	17	59.1	9	.....	.....	.....	4	4	.....	.....
Great Lakes and Middle West:											
1 plant	1907	4	78.0	.....	.....	.....	.....	.....	.....	4	.....
	1908	4	78.0	.....	.....	.....	.....	.....	.....	4	.....
	1909	4	78.5	.....	.....	.....	.....	.....	.....	4	.....
	1910	4	84.0	.....	.....	.....	.....	.....	.....	.....	4
2 plants	1910	6	80.0	.....	.....	.....	.....	.....	2	.....	4
	1911	5	72.0	.....	.....	.....	.....	.....	5	.....	.....
	1912	6	76.0	.....	.....	.....	.....	.....	2	4	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

VESSEL MEN.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were— 48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
6 plants	1907	16	54.1	12	.....	.....	.....	.....	2	2	.....
	1908	15	57.7	9	.....	.....	.....	.....	4	2	.....
	1909	15	57.7	9	.....	.....	.....	.....	4	2	.....
	1910	17	51.0	12	3	.....	.....	.....	2	.....	.....
	1911	16	54.1	12	.....	.....	.....	.....	2	2	.....
	1912	17	50.9	15	.....	.....	.....	.....	.....	2	.....
Great Lakes and Middle West:											
3 plants	1907	7	68.6	.....	3	.....	.....	.....	.....	2	2
	1908	7	68.6	.....	3	.....	.....	.....	.....	2	2
	1909	7	68.7	.....	3	.....	.....	.....	.....	2	2
	1910	7	70.3	.....	3	.....	.....	.....	.....	.....	4
4 plants	1910	9	70.7	.....	3	.....	.....	.....	2	.....	4
	1911	9	68.0	.....	3	.....	.....	.....	4	.....	2
	1912	9	69.3	.....	3	.....	.....	.....	2	2	2

VESSEL MEN'S HELPERS.

Pittsburgh:											
6 plants	1907	32	54.1	24	.....	.....	.....	.....	4	4	.....
	1908	30	57.7	18	.....	.....	.....	.....	8	4	.....
	1909	30	57.7	18	.....	.....	.....	.....	8	4	.....
	1910	34	51.1	24	6	.....	.....	.....	4	.....	.....
	1911	32	53.9	24	.....	.....	.....	.....	4	4	.....
	1912	34	50.8	30	.....	.....	.....	.....	.....	4	.....
Great Lakes and Middle West:											
3 plants	1907	15	63.2	.....	9	.....	.....	.....	.....	4	2
	1908	15	63.2	.....	9	.....	.....	.....	.....	4	2
	1909	15	63.3	.....	9	.....	.....	.....	.....	4	2
	1910	15	64.8	.....	9	.....	.....	.....	.....	.....	6
4 plants	1910	19	66.3	.....	9	.....	.....	.....	4	.....	6
	1911	19	63.8	.....	9	.....	.....	.....	8	.....	2
	1912	19	65.1	.....	9	.....	.....	.....	4	4	2

CINDER PITMEN.

Pittsburgh:											
5 plants	1907	104	66.3	24	.....	.....	.....	44	36	.....	.....
	1908	59	63.4	21	.....	.....	.....	12	26	.....	.....
	1909	72	64.8	21	.....	.....	.....	23	28	.....	.....
	1910	63	64.4	6	15	.....	.....	.....	38	4	.....
	1911	48	68.8	6	.....	.....	.....	16	26	.....	.....
	1912	66	64.6	21	.....	.....	.....	.....	30	15	.....
Great Lakes and Middle West:											
3 plants	1907	14	80.6	.....	.....	.....	.....	.....	2	4	8
	1908	12	78.5	.....	.....	.....	.....	.....	2	10	.....
	1909	20	81.0	.....	.....	.....	.....	.....	2	10	8
	1910	16	78.6	.....	.....	.....	.....	.....	2	6	8
4 plants	1910	22	76.8	.....	.....	.....	.....	.....	8	6	8
	1911	14	73.3	.....	.....	.....	.....	.....	8	6	.....
	1912	21	75.4	.....	.....	.....	.....	.....	6	15	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

BOTTOM MAKERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
6 plants	1907	12	71.9	.....	.....	.....	.....	2	10	.....	.....
	1908	12	71.6	.....	.....	.....	.....	4	8	.....	.....
	1909	12	71.9	.....	.....	.....	.....	2	10	.....	.....
	1910	12	72.2	.....	.....	.....	.....	.....	10	2	.....
	1911	12	71.7	.....	.....	.....	.....	4	8	.....	.....
	1912	12	71.8	.....	.....	.....	.....	4	8	.....	.....
Great Lakes and Middle West:											
3 plants	1907	5	76.8	.....	.....	.....	.....	.....	1	4	.....
	1908	5	74.4	.....	.....	.....	.....	.....	3	2	.....
	1909	4	76.6	.....	.....	.....	.....	.....	1	3	.....
	1910	5	76.8	.....	.....	.....	.....	.....	3	.....	2
4 plants	1910	7	75.4	.....	.....	.....	.....	.....	5	.....	2
	1911	7	72.0	.....	.....	.....	.....	.....	7	.....	.....
	1912	8	73.5	.....	.....	.....	.....	.....	6	2	.....

BOTTOM MAKERS' HELPERS.

Pittsburgh:											
6 plants	1907	20	71.8	.....	.....	.....	.....	8	12	.....	.....
	1908	17	71.6	.....	.....	.....	.....	7	10	.....	.....
	1909	20	71.8	.....	.....	.....	.....	8	12	.....	.....
	1910	20	72.1	.....	.....	.....	.....	.....	18	2	.....
	1911	19	72.3	.....	.....	.....	.....	10	8	.....	1
	1912	20	71.7	.....	.....	.....	.....	10	10	.....	.....
Great Lakes and Middle West:											
3 plants	1907	10	76.8	.....	.....	.....	.....	.....	2	8	.....
	1908	10	73.2	.....	.....	.....	.....	.....	8	2	.....
	1909	9	76.1	.....	.....	.....	.....	.....	3	6	.....
	1910	10	74.4	.....	.....	.....	.....	.....	8	.....	2
4 plants	1910	14	73.7	.....	.....	.....	.....	.....	12	.....	2
	1911	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
	1912	11	73.1	.....	.....	.....	.....	.....	9	2	.....

LADLE LINERS.

Pittsburgh:											
6 plants	1907	13	66.4	3	.....	.....	.....	2	8	.....	.....
	1908	13	66.2	3	.....	.....	.....	4	6	.....	.....
	1909	13	66.4	3	.....	.....	.....	2	8	.....	.....
	1910	15	67.3	3	.....	.....	.....	.....	10	2	.....
	1911	14	71.7	.....	.....	.....	.....	4	10	.....	.....
	1912	14	71.8	.....	.....	.....	.....	4	10	.....	.....
Great Lakes and Middle West:											
3 plants	1907	8	63.0	3	.....	.....	1	.....	2	2	.....
	1908	8	64.5	3	.....	.....	1	.....	2	.....	2
	1909	8	63.1	3	.....	.....	1	.....	2	2	.....
	1910	8	64.5	3	.....	.....	1	.....	2	.....	2
4 plants	1910	10	66.0	3	.....	.....	1	.....	4	.....	2
	1911	10	63.6	3	.....	.....	1	.....	6	.....	.....
	1912	10	64.8	3	.....	.....	1	.....	4	2	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

LADLE LINERS' HELPERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
6 plants	1907	29	69.3	3	.....	.....	.....	10	16	.....	.....
	1908	21	68.2	3	.....	.....	.....	10	8	.....	.....
	1909	27	69.1	3	.....	.....	.....	10	14	.....	.....
	1910	27	69.5	3	.....	.....	.....	.....	20	4	.....
	1911	24	71.5	.....	.....	.....	.....	14	10	.....	.....
	1912	24	71.6	.....	.....	.....	.....	14	10	.....	.....
Great Lakes and Middle West:											
3 plants	1907	10	64.8	3	.....	.....	1	.....	4	2	.....
	1908	10	66.0	3	.....	.....	1	.....	4	.....	2
	1909	12	67.2	3	.....	.....	1	.....	4	4	.....
	1910	10	66.0	3	.....	.....	1	.....	4	.....	2
4 plants	1910	12	67.0	3	.....	.....	1	.....	6	.....	2
	1911	10	63.6	3	.....	.....	1	.....	6	.....	.....
	1912	10	64.8	3	.....	.....	1	.....	4	2	.....

STOPPER MAKERS.

Pittsburgh:											
6 plants	1907	6	71.3	.....	.....	.....	2	.....	2	1	1
	1908	6	73.3	.....	.....	.....	2	.....	1	1	2
	1909	6	72.3	.....	.....	.....	2	1	.....	1	2
	1910	7	72.0	.....	.....	.....	1	.....	5	.....	1
	1911	6	72.0	.....	.....	.....	2	.....	2	.....	2
	1912	6	70.0	.....	.....	.....	3	.....	1	.....	2
Great Lakes and Middle West:											
3 plants	1907	4	75.0	.....	.....	.....	.....	.....	2	2	.....
	1908	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
	1909	3	70.0	.....	.....	.....	.....	1	2	.....	.....
	1910	4	75.0	.....	.....	.....	.....	.....	3	.....	1
4 plants	1910	5	74.4	.....	.....	.....	.....	.....	4	.....	1
	1911	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1912	4	72.0	.....	.....	.....	.....	.....	4	.....	.....

STOPPER SETTERS.

Pittsburgh:											
6 plants	1907	35	49.4	33	.....	.....	.....	.....	2	.....	.....
	1908	30	52.8	24	.....	.....	.....	.....	6	.....	.....
	1909	24	54.0	18	.....	.....	.....	.....	6	.....	.....
	1910	27	48.4	21	6	.....	.....	.....	.....	.....	.....
	1911	27	53.3	21	.....	.....	.....	.....	6	.....	.....
	1912	30	47.9	30	.....	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West:											
3 plants	1907	10	58.8	6	.....	.....	.....	.....	2	2	.....
	1908	10	58.8	6	.....	.....	.....	.....	2	2	.....
	1909	10	58.9	6	.....	.....	.....	.....	2	2	.....
	1910	10	60.0	6	.....	.....	.....	.....	2	.....	2
4 plants	1910	12	62.0	6	.....	.....	.....	.....	4	.....	2
	1911	12	60.0	6	.....	.....	.....	.....	6	.....	.....
	1912	12	61.0	6	.....	.....	.....	.....	4	2	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BESSEMER CONVERTERS—Continued.

STEEL POURERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
6 plants	1907	17	50.8	15	.....	.....	.....	.....	2	.....	.....
	1908	16	54.0	12	.....	.....	.....	.....	4	.....	.....
	1909	16	54.0	12	.....	.....	.....	.....	4	.....	.....
	1910	18	48.1	15	3	.....	.....	.....	.....	.....	.....
	1911	17	50.7	15	.....	.....	.....	.....	2	.....	.....
	1912	18	47.9	18	.....	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West:											
3 plants	1907	12	62.0	6	.....	.....	.....	.....	2	4	.....
	1908	12	62.0	6	.....	.....	.....	.....	2	4	.....
	1909	12	62.2	6	.....	.....	.....	.....	2	4	.....
	1910	12	64.0	6	.....	.....	.....	.....	2	.....	4
4 plants	1910	14	65.1	6	.....	.....	.....	.....	4	.....	4
	1911	13	60.9	6	.....	.....	.....	.....	7	.....	.....
	1912	14	63.4	6	.....	.....	.....	.....	4	4	.....

MOLD CAPPERS.

Pittsburgh:											
5 plants	1907	42	51.4	36	.....	.....	.....	.....	6	.....	.....
	1908	34	50.8	30	.....	.....	.....	.....	4	.....	.....
	1909	37	50.6	33	.....	.....	.....	.....	4	.....	.....
	1910	38	50.1	12	24	.....	.....	.....	2	.....	.....
	1911	26	60.8	12	.....	.....	.....	.....	14	.....	.....
	1912	30	52.7	24	.....	.....	.....	.....	6	.....	.....
Great Lakes and Middle West:											
3 plants	1907	6	76.0	.....	.....	.....	.....	.....	2	4	.....
	1908	5	73.2	.....	.....	.....	.....	.....	3	2	.....
	1909	6	75.2	.....	.....	.....	.....	.....	2	4	.....
	1910	8	78.4	.....	.....	.....	.....	.....	2	2	4
4 plants	1910	14	75.6	.....	.....	.....	.....	.....	8	2	4
	1911	11	72.3	.....	.....	.....	.....	.....	9	2	.....
	1912	14	73.9	.....	.....	.....	.....	.....	8	6	.....

INGOT STRIPPERS.

Pittsburgh:											
6 plants	1907	19	60.5	9	.....	.....	.....	4	6	.....	.....
	1908	18	63.8	6	.....	.....	.....	6	6	.....	.....
	1909	18	65.2	6	.....	.....	.....	4	6	.....	2
	1910	19	61.3	3	6	.....	.....	.....	8	2	.....
	1911	15	67.5	.....	3	.....	.....	6	6	.....	.....
	1912	16	63.4	3	3	.....	.....	4	6	.....	.....
Great Lakes and Middle West:											
3 plants	1907	10	80.4	.....	.....	.....	.....	.....	.....	6	4
	1908	10	76.8	.....	.....	.....	.....	.....	.....	10	.....
	1909	10	79.2	.....	.....	.....	.....	.....	.....	6	4
	1910	10	80.4	.....	.....	.....	.....	.....	.....	4	6
4 plants	1910	12	79.0	.....	.....	.....	.....	.....	2	4	6
	1911	12	74.0	.....	.....	.....	.....	.....	6	6	.....
	1912	12	76.0	.....	.....	.....	.....	.....	2	10	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Concluded.

BESSEMER CONVERTERS—Concluded.

LABORERS.

District and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
6 plants	1907	602	76.9	.....	.....	.....	4	22	154	218	204
	1908	309	74.5	.....	.....	.....	24	34	107	73	71
	1909	401	75.4	.....	12	.....	3	18	118	174	76
	1910	541	77.2	.....	.....	.....	22	13	184	144	[1] 178
	1911	422	74.3	.....	.....	.....	24	25	140	205	28
	1912	428	75.0	.....	.....	1	13	29	161	125	99
Great Lakes and Middle West:											
3 plants	1907	199	81.5	.....	.....	.....	.....	.....	18	48	133
	1908	116	80.6	.....	.....	.....	.....	.....	24	20	72
	1909	163	80.6	.....	.....	.....	.....	2	23	47	91
	1910	207	80.3	.....	.....	.....	.....	.....	58	8	141
4 plants	1910	245	79.1	.....	.....	.....	1	.....	91	10	143
	1911	171	75.2	.....	.....	.....	3	.....	113	10	45
	1912	198	77.0	.....	.....	.....	4	.....	81	49	64

[1] Including 54 employees whose full-time hours per week were 85.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

OPEN-HEARTH FURNACES.

SUMMARY.

Summary figures relating to the open-hearth furnace department of the iron and steel industry are given with figures for other departments in the introductory summary on pages 7 to 15. An explanation of the scope of the investigation and of the methods employed is given on pages 16 to 22.

Briefly summarized the average full-time weekly earnings of employees in the open-hearth department in 1912 were 3 per cent higher than in 1910 and 6 per cent higher than in 1911. The average full-time hours of labor per week in 1912 were 0.8 per cent lower than in 1910 and 1.7 per cent higher than in 1911. The average rate of wages or earnings per hour in 1912 was 4.2 per cent higher than in both 1910 and 1911.

The most significant facts concerning the several occupations of the open-hearth department are summarized in the table following. Data are presented for the years 1910, 1911, and 1912, and, in all but two occupations, for identical plants in those three years. In the two occupations referred to, for one plant, figures for 1910 were not available, hence two reports are made for 1911, one comparable with 1910 and the other with 1912.

Referring to the first occupation presented, door operators, direct comparison can be made of data for 15 identical plants from 1910 to 1912, inclusive. The first line of the table is analyzed as follows: In 1910 the 15 open-hearth furnaces for which reports were obtained employed 165 door operators, whose average full-time hours of work were 75.9 per week. For 12.1 per cent of the 165 door operators the full-time hours per week were over 60 and under 72; for 38.2 per cent, 72; for 21.8 per cent, over 72 and under 84; and for 27.9 per cent, 84. The average rate of wages or earnings per hour of door operators in the year considered (1910) was $0.101. Of the total number 51.5 per cent received under 10 cents per hour; 31.5 per cent, 10 and under 12 cents; 8.5 per cent, 12 and under 14 cents; and 8.5 per cent, 14 and under 16 cents per hour. The other lines of the table may be read in the same manner.

Referring to the last column of the table, it is seen that in 15 plants the average full-time weekly earnings of door operators were $7.72 in both 1910 and 1912, decreasing to $7.53 in 1911. Comparing the average full-time weekly earnings for 1912 of the several occupations,

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

it is seen that with the exception of door operators, who are usually boys, the lowest average was that of laborers, which was $12.10, and the highest that of melters' helpers, first, which was $31.89.

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—OPEN-HEARTH FURNACES.

[The figures set opposite each bracketed group of years are for identical plants.]

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				60 and under.	Over 60 and under 72	72	Over 72 and under 84	84		Under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	
Door operators:														
15 plants	1910	165	75.9	.....	12.1	38.2	21.8	27.9	$0.101	51.5	31.5	8.5	8.5	$7.72
	1911	160	75.5	.....	21.3	23.8	31.3	23.8	.100	46.3	38.8	15.0	.....	7.53
	1912	157	76.0	.....	20.4	28.0	21.0	30.6	.102	38.9	44.6	16.6	.....	7.72
										12 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 30 cts.	
Laborers:														
17 plants	1910	1,038	74.5	9.7	20.4	13.2	35.2	21.6	.157	44.7	55.4	.....	.....	11.69
	1911	806	73.2	11.1	23.8	14.5	37.0	13.5	.161	34.1	63.5	2.4	.....	11.78
	1912	897	74.4	12.1	12.8	14.6	43.7	16.8	.163	22.1	75.4	2.6	.....	12.10
Melters' helpers, third:														
17 plants	1910	393	76.5	.....	7.6	35.9	29.5	27.0	.196	3.6	38.4	16.8	41.2	14.97
	1911	394	73.9	.....	19.8	36.5	36.0	7.6	.185	21.1	21.6	23.9	33.5	13.67
	1912	414	75.4	.....	6.8	30.4	46.4	16.4	.199	17.6	13.5	15.2	53.6	15.01
Stockers:														
17 plants	1910	448	76.8	.....	13.4	23.9	34.4	28.3	.177	32.8	18.5	17.0	31.7	13.69
	1911	419	74.4	3.1	26.0	24.3	27.7	18.9	.172	37.7	24.6	33.9	3.8	12.73
	1912	403	76.6	.....	6.5	30.3	38.5	24.8	.176	31.3	39.5	6.9	22.4	13.49
Switchmen:														
14 plants	1910	109	77.3	.....	6.4	22.0	44.0	27.5	.185	11.0	32.1	31.2	25.7	14.29
	1911	113	74.5	.....	36.3	19.5	35.4	8.8	.187	5.3	25.7	46.0	23.0	13.90
15 plants	1911	117	74.4	.....	38.5	18.8	34.2	8.5	.186	6.8	24.8	44.4	23.9	13.85
	1912	112	74.6	.....	16.1	28.6	46.4	8.9	.198	5.4	17.9	41.1	35.7	14.75
										Under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 cts. and over.	
Charging-machine operators:														
17 plants	1910	73	76.8	.....	8.2	34.2	27.4	30.1	.294	5.5	2.7	47.9	43.8	22.52
	1911	72	74.7	.....	25.0	25.0	33.3	16.7	.287	11.2	13.9	36.1	38.9	21.37
	1912	72	75.5	.....	13.9	38.9	25.0	22.2	.312	5.6	2.8	22.2	69.4	23.56
Engineers, locomotive:														
14 plants	1910	107	77.3	.....	5.6	23.4	44.9	26.2	.244	9.4	48.6	36.4	5.6	18.92
	1911	110	74.4	.....	35.5	20.0	36.4	8.2	.248	5.4	40.9	51.8	1.8	18.40
15 plants	1911	114	74.3	.....	37.7	19.3	35.1	7.9	.247	7.0	39.5	51.8	1.8	18.32
	1912	111	75.2	.....	14.4	19.8	57.7	8.1	.261	7.2	23.4	51.4	18.0	19.61
Ingot strippers:														
15 plants	1910	46	73.7	6.5	21.7	30.4	17.4	23.9	.275	8.6	41.3	21.7	28.2	19.88
	1911	51	71.9	5.9	7.8	62.7	19.6	3.9	.256	39.2	13.7	21.6	25.5	18.06
	1912	49	72.4	6.1	.....	69.4	20.4	4.1	.281	8.2	40.8	12.2	38.8	20.00

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK, AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—OPEN-HEARTH FURNACES—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				60 and under.	Over 60 and under 72	72	Over 72 and under 84	84		Under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 cts. and over.	
Ladle cranemen:														
16 plants	1910	90	77.2	.....	8.9	27.8	31.1	32.2	$0.294	6.7	22.2	21.1	50.0	$22.76
	1911	86	74.6	.....	24.4	33.7	23.3	18.6	.287	8.1	16.3	39.5	36.0	21.32
	1912	90	76.2	.....	10.0	32.2	31.1	26.7	.317	6.7	7.8	.....	85.6	24.22
Melters' helpers, second:														
17 plants	1910	339	76.6	.....	8.3	38.1	22.4	31.3	.272	5.3	24.8	40.4	29.5	20.87
	1911	335	74.5	.....	35.2	21.2	20.9	22.7	.263	7.5	31.9	38.8	21.8	19.62
	1912	347	75.8	.....	19.6	37.2	14.4	28.8	.274	6.3	20.7	44.4	28.5	20.77
Mold cappers:														
8 plants	1910	40	76.5	.....	.....	55.0	15.0	30.0	.217	35.0	35.0	15.0	15.0	16.49
	1911	38	74.0	.....	21.1	26.3	42.1	10.5	.215	36.9	36.8	10.5	15.8	15.78
	1912	42	75.9	.....	19.0	28.6	33.3	19.0	.223	19.1	42.9	28.6	9.5	16.86
Stock cranemen:														
13 plants	1910	75	78.8	1.3	2.7	16.0	40.0	40.0	.223	14.7	66.7	18.7	.....	17.60
	1911	70	75.6	1.4	22.9	10.0	42.9	22.9	.207	24.2	75.7	.....	.....	15.61
	1912	66	77.7	.....	.....	18.2	51.5	30.3	.235	12.2	48.5	39.4	.....	18.29
										20 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	
Melters' helpers, first:														
17 plants	1910	341	77.7	.....	7.0	22.0	39.9	31.1	.416	3.5	36.4	49.6	10.6	32.27
	1911	338	75.3	.....	17.2	21.3	48.5	13.0	.400	10.1	39.9	42.3	7.7	30.12
	1912	347	76.5	.....	2.3	23.6	55.0	19.0	.417	6.1	30.3	50.4	13.3	31.89
Steel pourers:														
14 plants	1910	47	75.3	.....	10.6	48.9	17.0	23.4	.308	51.0	40.4	8.5	.....	23.05
	1911	44	73.7	.....	22.7	27.3	40.9	9.1	.304	45.4	50.0	4.5	.....	22.32
	1912	46	75.3	.....	21.7	30.4	30.4	17.4	.313	39.1	52.2	8.7	.....	23.52
Stopper setters:														
10 plants	1910	30	76.2	.....	.....	36.7	56.7	6.7	.313	46.7	33.3	13.3	6.7	23.63
	1911	29	73.5	.....	27.6	20.7	51.7	.....	.313	44.8	37.9	10.3	6.9	23.11
	1912	29	75.8	.....	.....	20.7	72.4	6.9	.329	44.8	27.6	27.6	.....	24.92

To aid in making a comparison of the data over a period of several years which will give an accurate measure of the changes throughout the period, relative or index numbers have been computed from the averages of the preceding table for the full-time hours per week, rates of wages per hour, and full-time weekly earnings of each occupation from 1910 to 1912, inclusive. Such figures appear in the table below.

These relative or index numbers are simply percentages for which the data for 1912 are taken as the base, or 100 per cent. The relative for each year is the per cent which the average for that year is of the average for 1912. For example, the relative full-time weekly earnings of stockers in 1910 was 101.5 as compared with 100 in 1912; that is, the full-time weekly earnings of stockers in 1910 were 101.5 per cent of the full-time weekly earnings in this occupation in 1912. The method of computing relative numbers is explained on page 21.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

The table below also shows for each occupation the per cent of increase or decrease in full-time hours per week, rates of wages per hour, and full-time weekly earnings in 1912 as compared with each specified year preceding. Thus, the full-time weekly earnings of stockers in 1912 were 1.5 per cent lower than in 1910 and 5.9 per cent higher than in 1911.

In other columns of the table is shown the per cent of change in each year as compared with the year immediately preceding. Thus, the full-time weekly earnings of stockers in 1911 were 7 per cent lower than in 1910, and in 1912 5.9 per cent higher than in 1911. The other occupations and items of the table can be studied in like manner. The percentages of increase and decrease are computed from the relative numbers.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—OPEN-HEARTH FURNACES.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.
Stockers:									
1910	100.3	−0.3	.....	100.6	− 0.6	.....	101.5	− 1.5	.....
1911	97.1	+3.0	−3.2	97.5	+ 2.4	− 2.9	94.4	+ 5.9	− 7.0
1912	100.0	.....	+3.0	100.0	.....	+ 2.4	100.0	.....	+ 5.9
Stock cranemen:									
1910	101.4	−1.4	.....	94.9	+ 5.4	.....	96.2	+ 4.0	.....
1911	97.3	+2.8	−4.0	88.1	+13.5	− 7.2	85.3	+17.2	−11.3
1912	100.0	.....	+2.8	100.0	.....	+13.5	100.0	.....	+17.2
Charging-machine operators:									
1910	101.7	−1.7	.....	94.2	+ 6.2	.....	95.6	+ 4.6	.....
1911	98.9	+1.1	−2.8	92.0	+ 8.7	− 2.3	90.7	+10.3	− 5.1
1912	100.0	.....	+1.1	100.0	.....	+ 8.7	100.0	.....	+10.3
Door operators:									
1910	99.9	+ .1	.....	99.0	+ 1.0	.....	100.0	(1)	.....
1911	99.3	+ .7	− .6	98.0	+ 2.0	− 1.0	97.5	+ 2.6	− 2.5
1912	100.0	.....	+ .7	100.0	.....	+ 2.0	100.0	.....	+ 2.6
Melters' helpers, first:									
1910	101.6	−1.6	.....	99.8	+ .2	.....	101.2	− 1.2	.....
1911	98.4	+1.6	−3.1	95.9	+ 4.3	− 3.9	94.4	+ 5.9	− 6.7
1912	100.0	.....	+1.6	100.0	.....	+ 4.3	100.0	.....	+ 5.9
Melters' helpers, second:									
1910	101.1	−1.1	.....	99.3	+ .7	.....	100.5	− .5	.....
1911	98.3	+1.7	−2.8	96.0	+ 4.2	− 3.3	94.5	+ 5.8	− 6.0
1912	100.0	.....	+1.7	100.0	.....	+ 4.2	100.0	.....	+ 5.8
Melters' helpers, third:									
1910	101.5	−1.5	.....	98.5	+ 1.5	.....	99.7	+ .3	.....
1911	98.0	+2.0	−3.4	93.0	+ 7.5	− 5.6	91.1	+ 9.8	− 8.6
1912	100.0	.....	+2.0	100.0	.....	+ 7.5	100.0	.....	+ 9.8
Stopper setters:									
1910	100.5	− .5	.....	95.1	+ 5.2	.....	94.8	+ 5.5	.....
1911	97.0	+3.1	−3.5	95.1	+ 5.2	(1)	92.7	+ 7.9	− 2.2
1912	100.0	.....	+3.1	100.0	.....	+ 5.2	100.0	.....	+ 7.9
Steel pourers:									
1910	100.0	(1)	.....	98.4	+ 1.6	.....	98.0	+ 2.0	.....
1911	97.9	+2.1	−2.1	97.1	+ 3.0	− 1.3	94.9	+ 5.4	− 3.2
1912	100.0	.....	+2.1	100.0	.....	+ 3.0	100.0	.....	+ 5.4

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—OPEN-HEARTH FURNACES—Concluded.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.
Mold cappers:									
1910	100.8	−0.8	.....	97.3	+ 2.8	.....	97.8	+ 2.2	.....
1911	97.5	+2.6	−3.3	96.4	+ 3.7	− 0.9	93.6	+ 6.8	− 4.3
1912	100.0	.....	+2.6	100.0	.....	+ 3.7	100.0	.....	+ 6.8
Ladle cranemen:									
1910	101.3	−1.3	.....	92.7	+ 7.9	.....	94.0	+ 6.4	.....
1911	97.9	+2.1	−3.4	90.5	+10.5	− 2.4	88.0	+13.6	− 6.4
1912	100.0	.....	+2.1	100.0	.....	+10.5	100.0	.....	+13.6
Ingot strippers:									
1910	101.8	−1.8	.....	97.9	+ 2.1	.....	99.4	+ .6	.....
1911	99.3	+ .7	−2.5	91.1	+ 9.8	− 6.9	90.3	+10.7	− 9.2
1912	100.0	.....	+ .7	100.0	.....	+ 9.8	100.0	.....	+10.7
Engineers, locomotive:									
1910	102.7	−2.6	.....	93.1	+ 7.4	.....	96.1	+ 4.1	.....
1911	98.8	+1.2	−3.8	94.6	+ 5.7	+ 1.6	93.4	+ 7.1	− 2.8
1912	100.0	.....	+1.2	100.0	.....	+ 5.7	100.0	.....	+ 7.1
Switchmen:									
1910	103.5	−3.4	.....	92.9	+ 7.6	.....	96.5	+ 3.6	.....
1911	99.7	+ .3	−3.7	93.9	+ 6.5	+ 1.1	93.9	+ 6.5	− 2.7
1912	100.0	.....	+ .3	100.0	.....	+ 6.5	100.0	.....	+ 6.5
Laborers:									
1910	100.1	− .1	.....	96.3	+ 3.8	.....	96.6	+ 3.5	.....
1911	98.4	+1.6	−1.7	98.8	+ 1.2	+ 2.6	97.4	+ 2.7	+ .8
1912	100.0	.....	+1.6	100.0	.....	+ 1.2	100.0	.....	+ 2.7

A like table of relative numbers and percentages is next shown for the open-hearth furnace department as a whole, as determined by a combination of the data for the several principal productive occupations of the department, which are covered by this report. The method of computing the figures of this table is explained on page 22.

From the table below under "weekly earnings," it is seen that the relative full-time weekly earnings of the open-hearth department as a whole in 1910 were 97.1 as compared with 100 in 1912. In other words, the full-time weekly earnings in 1910 were 97.1 per cent of such earnings in 1912. The relative dropped to 94.3 in 1911, and in 1912, the base year, the relative is 100.

The next column shows that full-time weekly earnings in 1912 were 3 per cent higher than in 1910, and 6 per cent higher than in 1911.

The third column under "weekly earnings" shows the per cent of increase or decrease in full-time weekly earnings in each year as compared with the year immediately preceding. Thus, the full-time

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

weekly earnings in 1911 were 2.9 per cent lower than in 1910, and in 1912, 6 per cent higher than in 1911. The relative numbers and percentages for full-time hours per week and rates of wages per hour can be read in like manner.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, ALL OCCUPATIONS—OPEN-HEARTH FURNACES.

Year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.
1910	100.8	−0.8	.....	96.0	+4.2	.....	97.1	+3.0	.....
1911	98.3	+1.7	−2.5	96.0	+4.2	(1)	94.3	+6.0	−2.9
1912	100.0	.....	+1.7	100.0	.....	+4.2	100.0	.....	+6.0

[1] No change.

In considering weekly earnings it should be remembered that a reduction of hours tends to reduce weekly earnings just as an increase in wages per hour, of course, tends to increase them.

Still another influence on average weekly earnings for the department must be considered—that is the change in the relative number of employees in the several occupations from year to year. It is obvious that an increase in the relative number of employees in the lower-paid occupations or a decrease in the relative number of those in the higher-paid ones would tend to lower the average for all occupations, just as an increase in the relative number of employees in the higher-paid occupations or a decrease in the relative number in the lower-paid ones would tend to increase the average.

The number and per cent of employees in open-hearth plants whose customary working time per week was 5 days or turns, or 6 days, or 7 days, or variations thereof, are shown in the following table. The heading "5 days and 6 days alternately," for example, indicates that the plants were running 6 days and 5 nights each week, being shut down for one day and a half each week, and that the employees reported under this heading work 6 turns one week and 5 turns the next.

The figures are presented for each district and for the four districts combined.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

NUMBER AND PER CENT OF EMPLOYEES IN EACH DISTRICT WORKING EACH SPECIFIED NUMBER OF DAYS PER WEEK, BY YEARS, 1910 TO 1912—OPEN-HEARTH FURNACES.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West." The figures set opposite each bracketed group of years are for identical plants.]

District and number of plants.	Year	Number of employees.	Number of employees whose customary working time per week was—						Per cent of employees whose customary working time per week was—					
			5 days and 6 days alternately.	6 days.	5 days and 7 days alternately.	6 days and 7 days alternately.	6 days, 6 days, and 7 days in rotation.	7 days.	5 days and 6 days alternately.	6 days.	5 days and 7 days alternately.	6 days and 7 days alternately.	6 days, 6 days, and 7 days in rotation.	7 days.
Eastern:														
4 plants[1]	1910	583	207	252	16	24	.....	84	35.5	43.2	2.7	4.1	.....	14.4
	1911	469	83	274	.....	26	.....	86	17.7	58.4	.....	5.5	.....	18.3
	1911	477	83	282	.....	26	.....	86	17.4	59.1	.....	5.5	.....	18.0
	1912	480	55	311	.....	26	.....	88	11.5	64.8	.....	5.4	.....	18.3
Pittsburgh:														
5 plants	1910	1,491	.....	343	.....	837	.....	311	.....	23.0	.....	56.1	.....	20.9
	1911	1,432	32	558	32	636	3	171	2.2	39.0	2.2	44.4	0.2	11.9
	1912	1,428	.....	225	.....	881	3	319	.....	15.8	.....	61.7	.2	22.3
G. L. and M. W.:														
6 plants	1910	975	.....	340	.....	63	.....	572	.....	34.9	.....	6.5	.....	58.7
	1911	941	.....	461	.....	263	.....	217	.....	49.0	.....	27.9	.....	23.1
	1912	1,020	.....	517	.....	204	.....	299	.....	50.7	.....	20.0	.....	29.3
Southern:														
2 plants	1910	292	.....	188	.....	.....	.....	104	.....	64.4	.....	.....	.....	35.6
	1911	223	.....	100	.....	58	.....	65	.....	44.8	.....	26.0	.....	29.1
	1912	254	.....	98	.....	68	.....	88	.....	38.6	.....	26.8	.....	34.6
Total:														
17 plants[1]	1910	3,341	207	1,123	16	924	.....	1,071	6.2	33.6	.5	27.7	.....	32.1
	1911	3,065	115	1,393	32	983	3	539	3.8	45.4	1.0	32.1	.1	17.6
	1911	3,073	115	1,401	32	983	3	539	3.7	45.6	1.0	32.0	.1	17.5
	1912	3,182	55	1,151	.....	1,179	3	794	1.7	36.2	.....	37.1	.1	25.0

[1] For one plant it was impossible to secure data for two occupations for 1910, hence the two reports for 1911.

In addition to the text tables presented in the summary, six general tables are presented for the open-hearth department, as follows:

Table I.—Average full-time weekly earnings and averages and classified rates of wages per hour in the United States, by years, 1910 to 1912.

Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1910 to 1912.

Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1910 to 1912.

Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1910 to 1912.

Table V.—Average and classified full-time hours of work per week in each year, by districts, 1910 to 1912.

Table VI.—Average and classified full-time hours of work per week in each district, by years, 1910 to 1912.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

In Tables I and IV, in addition to actual data, percentages computed therefrom are given. The data from these two tables are summarized in the text table on pages 171 and 172.

Tables III and VI repeat the data for the several districts given in Tables II and V, rearranged for the convenience of the reader.

A brief description of the function of the open-hearth furnace is presented on page 23.

DESCRIPTION OF OCCUPATIONS.

The following description of occupations refers only to those occupations which appear in the tables of this report—these being nearly all of the principal productive occupations in the open-hearth department.

The order in which the occupations are given follows that of the processes of manufacture.

STOCKERS.

Duties.—Unload materials from cars and sort and assemble different grades of scrap in piles; but principal duty is to load the materials for open-hearth melting (limestone, scrap, pig iron, etc.) into charging boxes.

Nature of work.—Unskilled work, varying in difficulty and severity with the individual plant. For the greater part, however, the employees may be regarded as selected common labor.

STOCK CRANEMEN.

Duties.—Operate the small cranes, of 5 tons capacity or over; handling melting stock for furnaces, with crane, magnet, grab bucket, and chains.

Nature of work.—A great deal of the work is performed by lads of 16 to 20 years of age, since a bright mind and a supple body are great factors in learning and successfully performing the operation of the cranes.

CHARGING-MACHINE OPERATORS.

Duties.—Operate the machine for charging materials into the furnace and for placing and removing the runner for pouring hot metal. The usual type of machine consists of an electrically propelled truck, moving on a track parallel with the furnace fronts, on which truck is mounted an electric carriage, moving to and from the furnaces. A large bar or ram projects on the furnace side. This is provided with a specially shaped head, which engages in a groove at the end of the charging box. This bar can be moved back and forth, up and down, or made to revolve, so that with it the box is picked up, pushed through the open door of the furnace, and dumped. The machine is also used to shift the cars bearing the boxes to the point at which they will be used.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

Nature of work.—Work requires considerable experience, good judgment, and great dexterity of hand, because there are as many as five levers or handles, each of which controls some separate movement of the machine. Furthermore, since a number of men necessarily work on and around the track upon which the charging machine operates, constant watchfulness is demanded.

DOOR OPERATORS.

Duties.—Operate levers which through electric or hydraulic connections open and close the doors of furnaces for charging or inspecting, or for making bottoms.

Nature of work.—The work is light and is frequently performed by boys.

MELTERS' HELPERS, FIRST.

Duties.—In direct charge, under the melter's orders, of the operation of a single furnace. The duties fall into groups: (1) Directing the charging of materials as described above; (2) regulating the temperature of the furnace; the latter is done by reversing the gas and air in the regenerators at proper intervals (usually from 15 to 30 minutes, by regulating the flow of gas and air, and by charging cold or molten material, as the case may be); (3) inspecting and testing "heat," particularly by fracture tests, and upon the melter's decision as to the indication of these tests, making the necessary additions of ore, flux, or recarburizer, as well as seeing that the melter's orders as to tapping are carried out; (4) "making bottoms" and repairing the walls and lining of the furnace; (5) on Sundays, if the department operates only six days per week, "tending gas" and making minor repairs.

Nature of work.—The position requires considerable practical metallurgical knowledge (to be acquired only through experience) combined with supervisory capacity and sufficient strength to stand hard work. The work of making bottoms and repairs on linings is particularly hard, not only because it is heavy work, in which the first helper does his full share, but because it is done directly in front of the furnace door in a very high temperature. Fortunately the work can be finished in from 15 to 30 minutes. In all the work assistance is furnished by the second helpers and the third helpers (cinder pitmen), and if necessary by men from other furnaces, this work being everywhere reciprocal. As the position leads to that of melter, it is eagerly sought after.

MELTERS' HELPERS, SECOND.

Duties.—Although in general assistants to the first helpers in most of their functions, the second helpers have specific charge of the back (casting side) of single furnaces, and assisted by the third helpers

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

(or by second helpers from other furnaces) perform the actual work of tapping. They drill out the magnesite clay with which the tapping holes are closed in stationary furnaces or signal the first helpers to tilt the furnaces if of the tilting type; with a bar keep the metal running freely and put in the recarburizer as the metal runs into the ladle; are everywhere employed in making bottoms and other necessary furnace repairs.

Nature of work.—The position requires experience and skill, but no great amount of technical knowledge. The work is hard and heavy, and though the conditions under which it is done vary greatly, being much improved under the best modern conditions, these employees are still exposed to very high temperatures, though usually for short periods. The hazard of severe burns during the process of tapping always exists.

MELTERS' HELPERS, THIRD (CINDER PITMEN).

Duties.—The organization and duties of this group differ rather widely in the various plants. For the majority, however, the duties may be said to consist in cleaning out the cinder pits and in cleaning up the slag, in helping to tap, and in shoveling the recarburizing materials which have been assembled at the back of the furnace into the ladles when the metal is run out. Also assist in "making bottoms."

Nature of work.—This is unskilled work and for the most part is not very heavy, although frequently considerable strength and endurance are called for.

STEEL POURERS, STOPPER SETTERS, MOLD CAPPERS.

See same names in Bessemer converters for description. The work is similar and the conditions are practically the same except that much larger quantities of metal are handled at one time in the open hearth.

LADLE CRANEMEN.

Duties.—Operate the large cranes, varying in size from 75 to 200 tons capacity, used at back of furnace to handle the ladles of molten metal. The cranemen place the ladles in position to receive the hot metal when the furnace is tapped, then at direction of steel pourer shift them from mold to mold.

Nature of work.—A great deal of the work is done under conditions of extreme heat and requires greater skill than that of any other cranemen. It requires also a class of men quick to judge and act in emergencies.

INGOT STRIPPERS.

See under Bessemer converters.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

ENGINEERS, LOCOMOTIVE.

Duties.—Operate locomotives used to distribute incoming stock, to transfer melting materials to furnace level, to shift ladle cars from blast furnace to mixer and mold cars from mold yard to pouring platform and thence to stripping cranes, and to haul the red-hot ingots to the blooming mill.

Nature of work.—Requires very careful and watchful men, owing to the numerous tracks, crossovers, and short curves, and the many workmen moving about the yards.

SWITCHMEN.

Duties.—Couple and uncouple cars and throw switches.

Nature of work.—Very much the same as for locomotive engineers.

LABORERS.

Duties.—Includes all the large number of employees engaged in the unskilled and unspecialized work of the department.

Nature of work.—The work varies widely in difficulty and experience required, although in most plants it is paid at a single hourly rate.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912.

OPEN-HEARTH FURNACES.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
Stockers:																
17 plants...	1910	448	76.8	$0.177	$13.69	.....	.....	26	121	83	76	142	.....	.....	.....	.....
	1911	419	74.4	.172	12.73	.....	.....	3	155	103	142	16	.....	.....	.....	.....
	1912	403	76.6	.176	13.49	.....	.....	6	120	159	28	72	18	.....	.....	.....
Stock cranemen:																
13 plants...	1910	75	78.8	.223	17.60	.....	.....	.....	.....	5	6	50	14	.....	.....	.....
	1911	70	75.6	.207	15.61	.....	.....	.....	.....	5	12	53	.....	.....	.....	.....
	1912	66	77.7	.235	18.29	.....	.....	.....	.....	4	4	32	26	.....	.....	.....
Charging-machine operators:																
17 plants...	1910	73	76.8	.294	22.52	.....	.....	.....	.....	.....	4	2	35	26	6	.....
	1911	72	74.7	.287	21.37	.....	.....	.....	.....	4	4	10	26	22	6	.....
	1912	72	75.5	.312	23.56	.....	.....	.....	.....	.....	4	2	16	50	.....	.....
Door operators:																
15 plants...	1910	165	75.9	.101	7.72	[1] 85	52	14	14	.....	.....	.....	.....	.....	.....	.....
	1911	160	75.5	.100	7.53	[2] 74	62	24	.....	.....	.....	.....	.....	.....	.....	.....
	1912	157	76.0	.102	7.72	[3] 61	70	26	.....	.....	.....	.....	.....	.....	.....	.....
Melters' helpers, first:																
17 plants...	1910	341	77.7	.416	32.27	.....	.....	.....	.....	.....	.....	.....	12	124	169	36
	1911	338	75.3	.400	30.12	.....	.....	.....	.....	.....	.....	6	28	135	143	26
	1912	347	76.5	.417	31.89	.....	.....	.....	.....	.....	.....	4	17	105	175	46
Melters' helpers, second:																
17 plants...	1910	339	76.6	.272	20.87	.....	.....	.....	.....	.....	18	84	137	100	.....	.....
	1911	335	74.5	.263	19.62	.....	.....	.....	.....	4	21	107	130	73	.....	.....
	1912	347	75.8	.274	20.77	.....	.....	.....	.....	7	15	72	154	99	.....	.....
Melters' helpers, third:																
17 plants...	1910	393	76.5	.196	14.97	.....	.....	.....	14	151	66	162	.....	.....	.....	.....
	1911	394	73.9	.185	13.67	.....	.....	24	59	85	94	131	1	.....	.....	.....
	1912	414	75.4	.199	15.01	.....	.....	20	53	56	63	186	36	.....	.....	.....
Stopper setters:																
10 plants...	1910	30	76.2	.313	23.63	.....	.....	.....	.....	.....	.....	14	.....	10	4	2
	1911	29	73.5	.313	23.11	.....	.....	.....	.....	.....	.....	9	4	11	3	2
	1912	29	75.8	.329	24.92	.....	.....	.....	.....	.....	.....	5	8	8	8	.....
Steel pourers:																
14 plants...	1910	47	75.3	.308	23.05	.....	.....	.....	.....	.....	.....	5	19	19	4	.....
	1911	44	73.7	.304	22.32	.....	.....	.....	.....	.....	.....	6	14	22	2	.....
	1912	46	75.3	.313	23.52	.....	.....	.....	.....	.....	.....	6	12	24	4	.....
Mold cappers:																
8 plants...	1910	40	76.5	.217	16.49	.....	.....	.....	8	6	.....	14	6	6	.....	.....
	1911	38	74.0	.215	15.78	.....	.....	.....	12	.....	2	14	4	6	.....	.....
	1912	42	75.9	.223	16.86	.....	.....	.....	6	.....	2	18	12	4	.....	.....
Ladle cranemen:																
16 plants...	1910	90	77.2	.294	22.76	.....	.....	.....	.....	6	.....	20	19	39	6	.....
	1911	86	74.6	.287	21.32	.....	.....	.....	.....	5	2	14	34	24	7	.....
	1912	90	76.2	.317	24.22	.....	.....	.....	.....	.....	6	7	.....	77	.....	.....
Ingot strippers:																
15 plants...	1910	46	73.7	.275	19.88	.....	.....	2	.....	2	.....	19	10	10	3	.....
	1911	51	71.9	.256	18.06	.....	.....	.....	.....	4	16	7	11	10	2	1
	1912	49	72.4	.281	20.00	.....	.....	.....	.....	4	.....	20	6	16	.....	3
Engineers, locomotive:																
14 plants...	1910	107	77.3	.244	18.92	.....	.....	.....	.....	8	2	52	39	6	.....	.....
	1911	110	74.4	.248	18.40	.....	.....	.....	.....	4	2	45	57	2	.....	.....
15 plants...	1911	114	74.3	.247	18.32	.....	.....	.....	.....	4	4	45	59	2	.....	.....
	1912	111	75.2	.261	19.61	.....	.....	.....	.....	4	4	26	57	20	.....	.....

[1] Including 10 employees earning 7 and under 8 cents per hour, and 46 earning 8 and under 9 cents per hour.
[2] Including 10 employees earning 7 and under 8 cents per hour, and 54 earning 8 and under 9 cents per hour.
[3] Including 10 employees earning 7 and under 8 cents per hour, and 43 earning 8 and under 9 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
Switchmen:																
14 plants	1910	109	77.3	$0.185	$14.29	.....	.....	.....	12	35	34	28	.....	.....	.....	.....
	1911	113	74.5	.187	13.90	.....	.....	.....	6	29	52	26	.....	.....	.....	.....
15 plants	1911	117	74.4	.186	13.85	.....	.....	.....	8	29	52	28	.....	.....	.....	.....
	1912	112	74.6	.198	14.75	.....	.....	.....	6	20	46	32	8	.....	.....	.....
Laborers:																
17 plants	1910	1,038	74.5	.157	11.69	.....	.....	204	259	575	.....	.....	.....	.....	.....	.....
	1911	806	73.2	.161	11.78	.....	.....	140	135	512	19	.....	.....	.....	.....	.....
	1912	897	74.4	.163	12.10	.....	.....	118	80	676	23	.....	.....	.....	.....	.....

PER CENT.

Stockers:																
17 plants	1910	448	76.8	$0.177	$13.69	.....	.....	5.8	27.0	18.5	17.0	31.7	.....	.....	.....	.....
	1911	419	74.4	.172	12.73	.....	.....	.7	37.0	24.6	33.9	3.8	.....	.....	.....	.....
	1912	403	76.6	.176	13.49	.....	.....	1.5	29.8	39.5	6.9	17.9	4.5	.....	.....	.....
Stock cranemen:																
13 plants	1910	75	78.8	.223	17.60	.....	.....	.....	.....	6.7	8.0	66.7	18.7	.....	.....	.....
	1911	70	75.6	.207	15.61	.....	.....	.....	.....	7.1	17.1	75.7	.....	.....	.....	.....
	1912	66	77.7	.235	18.29	.....	.....	.....	.....	6.1	6.1	48.5	39.4	.....	.....	.....
Charging machine operators:																
17 plants	1910	73	76.8	.294	22.52	.....	.....	.....	.....	.....	5.5	2.7	47.9	35.6	8.2	.....
	1911	72	74.7	.287	21.37	.....	.....	.....	.....	5.6	5.6	13.9	36.1	30.6	8.3	.....
	1912	72	75.5	.312	23.56	.....	.....	.....	.....	.....	5.6	2.8	22.2	69.4	.....	.....
Door operators:																
15 plants	1910	165	75.9	.101	7.72	[1]51.5	31.5	8.5	8.5	.....	.....	.....	.....	.....	.....	.....
	1911	160	75.5	.100	7.53	[2]46.3	38.8	15.0	.....	.....	.....	.....	.....	.....	.....	.....
	1912	157	76.0	.102	7.72	[3]38.9	44.6	16.6	.....	.....	.....	.....	.....	.....	.....	.....
Melters' helpers, first:																
17 plants	1910	341	77.7	.416	32.27	.....	.....	.....	.....	.....	.....	.....	3.5	36.4	49.6	10.6
	1911	338	75.3	.400	30.12	.....	.....	.....	.....	.....	.....	1.8	8.3	39.9	42.3	7.7
	1912	347	76.5	.417	31.89	.....	.....	.....	.....	.....	.....	1.2	4.9	30.3	50.4	13.3
Melters' helpers, second:																
17 plants	1910	339	76.6	.272	20.87	.....	.....	.....	.....	.....	5.3	24.8	40.4	29.5	.....	.....
	1911	335	74.5	.263	19.62	.....	.....	.....	.....	1.2	6.3	31.9	38.8	21.8	.....	.....
	1912	347	75.8	.274	20.77	.....	.....	.....	.....	2.0	4.3	20.7	44.4	28.5	.....	.....
Melters' helpers, third:																
17 plants	1910	393	76.5	.196	14.97	.....	.....	.....	3.6	38.4	16.8	41.2	.....	.....	.....	.....
	1911	394	73.9	.185	13.67	.....	.....	6.1	15.0	21.6	23.9	33.2	.3	.....	.....	.....
	1912	414	75.4	.199	15.01	.....	.....	4.8	12.8	13.5	15.2	44.9	8.7	.....	.....	.....
Stopper setters:																
10 plants	1910	30	76.2	.313	23.63	.....	.....	.....	.....	.....	.....	46.7	.....	33.3	13.3	6.7
	1911	29	73.5	.313	23.11	.....	.....	.....	.....	.....	.....	31.0	13.8	37.9	10.3	6.9
	1912	29	75.8	.329	24.92	.....	.....	.....	.....	.....	.....	17.2	27.6	27.6	27.6	.....
Steel pourers:																
14 plants	1910	47	75.3	.308	23.05	.....	.....	.....	.....	.....	.....	10.6	40.4	40.4	8.5	.....
	1911	44	73.7	.304	22.32	.....	.....	.....	.....	.....	.....	13.6	31.8	50.0	4.5	.....
	1912	46	75.3	.313	23.52	.....	.....	.....	.....	.....	.....	13.0	26.1	52.2	8.7	.....

[1] Including 6.1 per cent earning 7 and under 8 cents per hour, and 27.9 per cent earning 8 and under 9 cents per hour.
[2] Including 6.3 per cent earning 7 and under 8 cents per hour, and 33.8 per cent earning 8 and under 9 cents per hour.
[3] Including 6.4 per cent earning 7 and under 8 cents per hour, and 27.4 per cent earning 8 and under 9 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Concluded.

OPEN-HEARTH FURNACES—Continued.

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
Mold cappers:																
8 plants	1910	40	76.5	$0.217	$16.49	.....	.....	.....	20.0	15.0	.....	35.0	15.0	15.0	.....	.....
	1911	38	74.0	.215	15.78	.....	.....	.....	31.6	.....	5.3	36.8	10.5	15.8	.....	.....
	1912	42	75.9	.223	16.86	.....	.....	.....	14.3	.....	4.8	42.9	28.6	9.5	.....	.....
Ladle cranemen:																
16 plants	1910	90	77.2	.294	22.76	.....	.....	.....	.....	6.7	.....	22.2	21.1	43.3	6.7	.....
	1911	86	74.6	.287	21.32	.....	.....	.....	.....	5.8	2.3	16.3	39.5	27.9	8.1	.....
	1912	90	76.2	.317	24.22	.....	.....	.....	.....	.....	6.7	7.8	.....	85.6	.....	.....
Ingot strippers:																
15 plants	1910	46	73.7	.275	19.88	.....	.....	4.3	.....	4.3	.....	41.3	21.7	21.7	6.5	.....
	1911	51	71.9	.256	18.06	.....	.....	.....	.....	7.8	31.4	13.7	21.6	19.6	3.9	2.0
	1912	49	72.4	.281	20.00	.....	.....	.....	.....	8.2	.....	40.8	12.2	32.7	.....	6.1
Engineers, locomotive:																
14 plants	1910	107	77.3	.244	18.92	.....	.....	.....	.....	7.5	1.9	48.6	36.4	5.6	.....	.....
	1911	110	74.4	.248	18.40	.....	.....	.....	.....	3.6	1.8	40.9	51.8	1.8	.....	.....
15 plants	1911	114	74.3	.247	18.32	.....	.....	.....	.....	3.5	3.5	39.5	51.8	1.8	.....	.....
	1912	111	75.2	.261	19.61	.....	.....	.....	.....	3.6	3.6	23.4	51.4	18.0	.....	.....
Switchmen:																
14 plants	1910	109	77.3	.185	14.29	.....	.....	.....	1.0	32.1	31.2	25.7	.....	.....	.....	.....
	1911	113	74.5	.187	13.90	.....	.....	.....	5.3	25.7	46.0	23.0	.....	.....	.....	.....
15 plants	1911	117	74.4	.186	13.85	.....	.....	.....	6.8	24.8	44.4	23.9	.....	.....	.....	.....
	1912	112	74.6	.198	14.75	.....	.....	.....	5.4	17.9	41.1	28.6	7.1	.....	.....	.....
Laborers:																
17 plants	1910	1,038	74.5	.157	11.69	.....	.....	19.7	25.0	55.4	.....	.....	.....	.....	.....	.....
	1911	806	73.2	.161	11.78	.....	.....	17.4	16.7	63.5	2.4	.....	.....	.....	.....	.....
	1912	897	74.4	.163	12.10	.....	.....	13.2	8.9	75.4	2.6	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912.

OPEN-HEARTH FURNACES—Continued.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West."]

STOCKERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
1910.																
Eastern	4	98	70.8	$0.142	$10.06	....	....	24	74	....	....	....	....	....	....	....
Pittsburgh	5	213	77.9	.197	15.41	....	....	....	4	53	24	132	....	....	....	....
G. L. and M. W.	6	117	79.5	.175	14.04	....	....	....	25	30	52	10	....	....	....	....
Southern	2	20	78.0	.144	11.15	....	....	2	18	....	....	....	....	....	....	....
Total	17	448	76.8	.177	13.69	....	....	26	121	83	76	142	....	....	....	....
1911.																
Eastern	4	85	72.2	.147	10.62	....	....	....	85	....	....	....	....	....	....	....
Pittsburgh	5	193	74.2	.183	13.56	....	....	....	32	57	90	14	....	....	....	....
G. L. and M. W.	6	120	76.0	.175	13.24	....	....	....	20	46	52	2	....	....	....	....
Southern	2	21	76.0	.143	10.80	....	....	3	18	....	....	....	....	....	....	....
Total	17	419	74.4	.172	12.73	....	....	3	155	103	142	16	....	....	....	....
1912.																
Eastern	4	86	73.6	.150	11.01	....	....	....	68	18	....	....	....	....	....	....
Pittsburgh	5	167	78.2	.185	14.36	....	....	....	34	77	16	30	10	....	....	....
G. L. and M. W.	6	126	76.4	.191	14.56	....	....	....	....	64	12	42	8	....	....	....
Southern	2	24	77.0	.140	10.74	....	....	6	18	....	....	....	....	....	....	....
Total	17	403	76.6	.176	13.49	....	....	6	120	159	28	72	18	....	....	....

STOCK CRANEMEN.

1910.																
Eastern	3	7	74.6	$0.175	$13.00	....	....	....	....	5	2	....	....	....	....	....
Pittsburgh	4	34	77.3	.220	16.99	....	....	....	....	....	4	24	6	....	....	....
G. L. and M. W.	4	26	82.2	.242	19.89	....	....	....	....	....	....	18	8	....	....	....
Southern	2	8	78.0	.217	16.79	....	....	....	....	....	....	8	....	....	....	....
Total	13	75	78.8	.223	17.60	....	....	....	....	5	6	50	14	....	....	....
1911.																
Eastern	3	9	72.6	.177	12.81	....	....	....	....	5	4	....	....	....	....	....
Pittsburgh	4	30	72.9	.215	15.68	....	....	....	....	....	....	30	....	....	....	....
G. L. and M. W.	4	24	80.0	.207	16.50	....	....	....	....	....	8	16	....	....	....	....
Southern	2	7	75.4	.211	15.86	....	....	....	....	....	....	7	....	....	....	....
Total	13	70	75.6	.207	15.61	....	....	....	....	5	12	53	....	....	....	....
1912.																
Eastern	3	8	78.0	.179	13.89	....	....	....	....	4	4	....	....	....	....	....
Pittsburgh	4	26	76.4	.225	17.18	....	....	....	....	....	....	20	6	....	....	....
G. L. and M. W.	4	24	80.0	.262	20.98	....	....	....	....	....	....	8	16	....	....	....
Southern	2	8	75.0	.244	18.17	....	....	....	....	....	....	4	4	....	....	....
Total	13	66	77.7	.235	18.29	....	....	....	....	4	4	32	26	....	....	....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

CHARGING-MACHINE OPERATORS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
1910.																
Eastern	4	14	73.6	$0.228	$16.60	.....	.....	.....	.....	.....	4	2	8	.....	.....	.....
Pittsburgh	5	28	78.0	.293	22.77	.....	.....	.....	.....	.....	.....	.....	14	14	.....	.....
G. L. and M.W.	6	22	78.0	.346	26.95	.....	.....	.....	.....	.....	.....	.....	6	10	6	.....
Southern	2	9	74.7	.269	20.16	.....	.....	.....	.....	.....	.....	.....	7	2	.....	.....
Total	17	73	76.8	.294	22.52	.....	.....	.....	.....	.....	4	2	35	26	6	.....
1911.																
Eastern	4	14	73.8	.206	15.12	.....	.....	.....	.....	4	4	2	4	.....	.....	.....
Pittsburgh	5	28	74.5	.302	22.51	.....	.....	.....	.....	.....	.....	.....	18	10	.....	.....
G. L. and M.W.	6	24	75.5	.323	24.21	.....	.....	.....	.....	.....	.....	4	4	10	6	.....
Southern	2	6	74.0	.260	19.32	.....	.....	.....	.....	.....	.....	4	.....	2	.....	.....
Total	17	72	74.7	.287	21.37	.....	.....	.....	.....	4	4	10	26	22	6	.....
1912.																
Eastern	4	14	73.8	.226	16.52	.....	.....	.....	.....	.....	4	2	8	.....	.....	.....
Pittsburgh	5	28	77.1	.319	24.64	.....	.....	.....	.....	.....	.....	.....	6	22	.....	.....
G. L. and M.W.	6	24	75.0	.354	26.63	.....	.....	.....	.....	.....	.....	.....	2	22	.....	.....
Southern	2	6	74.0	.306	22.63	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
Total	17	72	75.5	.312	23.56	.....	.....	.....	.....	.....	4	2	16	50	.....	.....

DOOR OPERATORS.

1910.																
Eastern	3	30	72.6	$0.089	$6.41	[1] 30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	60	74.4	.097	7.23	[2] 28	32	.....	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M.W.	6	64	79.1	.112	8.92	[2] 16	20	14	14	.....	.....	.....	.....	.....	.....	.....
Southern	2	11	74.2	.094	6.92	[3] 11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	15	165	75.9	.101	7.72	[4] 85	52	14	14	.....	.....	.....	.....	.....	.....	.....
1911.																
Eastern	3	28	74.0	.093	6.80	[1] 20	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	60	74.1	.099	7.31	[2] 28	32	.....	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M.W.	6	62	76.3	.106	8.14	[2] 16	22	24	.....	.....	.....	.....	.....	.....	.....	.....
Southern	2	10	82.8	.087	7.21	[2] 10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	15	160	75.5	.100	7.53	[5] 74	62	24	.....	.....	.....	.....	.....	.....	.....	.....
1912.																
Eastern	3	26	74.6	.093	6.84	[1] 18	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	57	75.6	.099	7.45	[2] 25	32	.....	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M.W.	6	64	75.9	.107	8.13	[2] 16	22	26	.....	.....	.....	.....	.....	.....	.....	.....
Southern	2	10	82.8	.108	8.96	[2] 2	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	15	157	76.0	.102	7.72	[6] 61	70	26	.....	.....	.....	.....	.....	.....	.....	.....

[1] Including 10 employees earning 7 and under 8 cents per hour.
[2] Earning 8 and under 9 cents per hour.
[3] Including 2 employees earning 8 and under 9 cents per hour.
[4] Including 10 employees earning 7 and under 8 cents per hour, and 46 earning 8 and under 9 cents per hour.
[5] Including 10 employees earning 7 and under 8 cents per hour, and 54 earning 8 and under 9 cents per hour.
[6] Including 10 employees earning 7 and under 8 cents per hour, and 43 earning 8 and under 9 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

MELTERS' HELPERS, FIRST.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
1910.																
Eastern	4	54	74.5	$0.320	$23.76	.....	.....	.....	.....	.....	.....	.....	12	42	.....	.....
Pittsburgh	5	148	78.5	.412	32.37	.....	.....	.....	.....	.....	.....	.....	.....	48	100	.....
G. L. and M. W.	6	106	79.0	.446	35.05	.....	.....	.....	.....	.....	.....	.....	.....	34	44	28
Southern	2	33	74.9	.490	36.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	25	8
Total	17	341	77.7	.416	32.27	.....	.....	.....	.....	.....	.....	.....	12	124	169	36
1911.																
Eastern	4	56	74.4	.309	22.87	.....	.....	.....	.....	.....	.....	4	24	28	.....	.....
Pittsburgh	5	150	74.1	.411	30.45	.....	.....	.....	.....	.....	.....	.....	2	63	77	8
G. L. and M. W.	6	112	76.1	.426	32.30	.....	.....	.....	.....	.....	.....	2	.....	42	52	16
Southern	2	20	82.8	.432	35.73	.....	.....	.....	.....	.....	.....	.....	2	2	14	2
Total	17	338	75.3	.400	30.12	.....	.....	.....	.....	.....	.....	6	28	135	143	26
1912.																
Eastern	4	52	74.8	.324	24.15	.....	.....	.....	.....	.....	.....	2	15	35	.....	.....
Pittsburgh	5	153	76.5	.429	32.78	.....	.....	.....	.....	.....	.....	.....	2	40	99	12
G. L. and M. W.	6	120	76.0	.436	33.15	.....	.....	.....	.....	.....	.....	2	.....	24	62	32
Southern	2	22	82.9	.449	37.15	.....	.....	.....	.....	.....	.....	.....	.....	6	14	2
Total	17	347	76.5	.417	31.89	.....	.....	.....	.....	.....	.....	4	17	105	175	46

MELTERS' HELPERS, SECOND.

1910.																
Eastern	4	58	71.8	$0.213	$15.29	.....	.....	.....	.....	.....	10	40	8	.....	.....	.....
Pittsburgh	5	148	76.9	.288	22.20	.....	.....	.....	.....	.....	.....	.....	100	48	.....	.....
G. L. and M. W.	6	108	78.9	.285	22.39	.....	.....	.....	.....	.....	.....	44	12	52	.....	.....
Southern	2	25	75.8	.259	19.40	.....	.....	.....	.....	.....	8	.....	17	.....	.....	.....
Total	17	339	76.6	.272	20.87	.....	.....	.....	.....	.....	18	84	137	100	.....	.....
1911.																
Eastern	4	56	72.6	.201	14.56	.....	.....	.....	.....	2	21	33	.....	.....	.....	.....
Pittsburgh	5	150	73.2	.285	20.93	.....	.....	.....	.....	.....	.....	20	83	47	.....	.....
G. L. and M. W.	6	109	76.0	.270	20.44	.....	.....	.....	.....	2	.....	42	41	24	.....	.....
Southern	2	20	82.2	.236	19.48	.....	.....	.....	.....	.....	.....	12	6	2	.....	.....
Total	17	335	74.5	.263	19.62	.....	.....	.....	.....	4	21	107	130	73	.....	.....
1912.																
Eastern	4	52	72.9	.213	15.52	.....	.....	.....	.....	5	15	26	6	.....	.....	.....
Pittsburgh	5	154	75.7	.294	22.26	.....	.....	.....	.....	.....	.....	8	87	59	.....	.....
G. L. and M. W.	6	119	76.0	.278	21.21	.....	.....	.....	.....	2	.....	26	51	40	.....	.....
Southern	2	22	82.4	.247	20.42	.....	.....	.....	.....	.....	.....	12	10	.....	.....	.....
Total	17	347	75.8	.274	20.77	.....	.....	.....	.....	7	15	72	154	99	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

MELTERS' HELPERS, THIRD.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
1910.																
Eastern	4	62	71.6	$0.162	$11.58	.....	.....	.....	14	38	10	.....	.....	.....	.....	.....
Pittsburgh	5	165	77.8	.202	15.66	.....	.....	.....	.....	49	48	68	.....	.....	.....	.....
G. L. and M. W.	6	130	77.7	.199	15.48	.....	.....	.....	.....	56	8	66	.....	.....	.....	.....
Southern	2	36	74.7	.214	15.87	.....	.....	.....	.....	8	.....	28	.....	.....	.....	.....
Total	17	393	76.5	.196	14.97	.....	.....	.....	14	151	66	162	.....	.....	.....	.....
1911.																
Eastern	4	57	72.6	.156	11.36	.....	.....	.....	25	32	.....	.....	.....	.....	.....	.....
Pittsburgh	5	174	73.4	.192	14.10	.....	.....	.....	34	24	37	78	1	.....	.....	.....
G. L. and M. W.	6	133	75.2	.197	14.87	.....	.....	.....	.....	23	57	53	.....	.....	.....	.....
Southern	2	30	73.2	.141	10.33	.....	.....	24	.....	6	.....	.....	.....	.....	.....	.....
Total	17	394	73.9	.185	13.67	.....	.....	24	59	85	94	131	1	.....	.....	.....
1912.																
Eastern	4	53	72.9	.166	12.06	.....	.....	.....	15	18	20	.....	.....	.....	.....	.....
Pittsburgh	5	176	75.6	.205	15.47	.....	.....	.....	32	24	15	93	12	.....	.....	.....
G. L. and M. W.	6	137	75.5	.214	16.21	.....	.....	.....	.....	8	28	77	24	.....	.....	.....
Southern	2	48	76.8	.169	13.15	.....	.....	20	6	6	.....	16	.....	.....	.....	.....
Total	17	414	75.4	.199	15.01	.....	.....	20	53	56	63	186	36	.....	.....	.....

STOPPER SETTERS.

1910.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	18	76.7	$0.300	$22.91	.....	.....	.....	.....	.....	.....	8	.....	8	2	.....
G. L. and M. W.	4	8	74.1	.352	26.06	.....	.....	.....	.....	.....	.....	4	.....	.....	2	2
Southern	2	4	78.0	.289	22.01	.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....
Total	10	30	76.2	.313	23.63	.....	.....	.....	.....	.....	.....	14	.....	10	4	2
1911.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	18	72.8	.297	21.84	.....	.....	.....	.....	.....	.....	4	4	9	1	.....
G. L. and M. W.	4	7	74.4	.372	27.58	.....	.....	.....	.....	.....	.....	3	.....	.....	2	2
Southern	2	4	75.0	.284	21.01	.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....
Total	10	29	73.5	.313	23.11	.....	.....	.....	.....	.....	.....	9	4	11	3	2
1912.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	18	76.5	.321	24.63	.....	.....	.....	.....	.....	.....	.....	8	8	2	.....
G. L. and M. W.	4	7	74.4	.345	25.70	.....	.....	.....	.....	.....	.....	3	.....	.....	4	.....
Southern	2	4	75.0	.338	24.90	.....	.....	.....	.....	.....	.....	2	.....	.....	2	.....
Total	10	29	75.8	.329	24.92	.....	.....	.....	.....	.....	.....	5	8	8	8	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

STEEL POURERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
1910.																
Eastern	3	7	71.8	$0.298	$21.02	.....	.....	.....	.....	.....	.....	2	.....	5	.....	.....
Pittsburgh	4	18	74.0	.303	22.33	.....	.....	.....	.....	.....	.....	.....	14	.....	4	.....
G. L. and M. W.	5	14	78.0	.351	27.35	.....	.....	.....	.....	.....	.....	.....	.....	14	.....	.....
Southern	2	8	76.5	.250	18.90	.....	.....	.....	.....	.....	.....	3	5	.....	.....	.....
Total	14	47	75.3	.308	23.05	.....	.....	.....	.....	.....	.....	5	19	19	4	.....
1911.																
Eastern	3	6	73.8	.302	21.88	.....	.....	.....	.....	.....	.....	2	.....	4	.....	.....
Pittsburgh	4	18	71.5	.304	21.78	.....	.....	.....	.....	.....	.....	2	8	6	2	.....
G. L. and M. W.	5	14	76.3	.330	25.04	.....	.....	.....	.....	.....	.....	.....	2	12	.....	.....
Southern	2	6	74.0	.245	18.02	.....	.....	.....	.....	.....	.....	2	4	.....	.....	.....
Total	14	44	73.7	.304	22.32	.....	.....	.....	.....	.....	.....	6	14	22	2	.....
1912.																
Eastern	3	6	73.8	.295	21.38	.....	.....	.....	.....	.....	.....	2	.....	4	.....	.....
Pittsburgh	4	18	75.2	.327	24.64	.....	.....	.....	.....	.....	.....	2	4	8	4	.....
G. L. and M. W.	5	16	76.5	.311	23.73	.....	.....	.....	.....	.....	.....	.....	8	8	.....	.....
Southern	2	6	74.0	.297	21.76	.....	.....	.....	.....	.....	.....	2	.....	4	.....	.....
Total	14	46	75.3	.313	23.52	.....	.....	.....	.....	.....	.....	6	12	24	4	.....

MOLD CAPPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
1910.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	18	74.0	$0.236	$17.38	.....	.....	.....	.....	.....	.....	14	2	2	.....	.....
G. L. and M. W.	2	8	78.0	.293	22.67	.....	.....	.....	.....	.....	.....	.....	4	4	.....	.....
Southern	2	14	78.9	.151	11.81	.....	.....	.....	8	6	.....	.....	.....	.....	.....	.....
Total	8	40	76.5	.217	16.49	.....	.....	.....	8	6	.....	14	6	6	.....	.....
1911.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	18	71.5	.238	17.03	.....	.....	.....	.....	.....	2	10	4	2	.....	.....
G. L. and M. W.	2	8	78.0	.260	19.93	.....	.....	.....	.....	.....	.....	4	.....	4	.....	.....
Southern	2	12	75.0	.149	11.15	.....	.....	.....	12	.....	.....	.....	.....	.....	.....	.....
Total	8	38	74.0	.215	15.78	.....	.....	.....	12	.....	2	14	4	6	.....	.....
1912.																
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	18	75.2	.258	19.35	.....	.....	.....	.....	.....	2	4	8	4	.....	.....
G. L. and M. W.	2	10	79.2	.223	17.49	.....	.....	.....	.....	.....	.....	6	4	.....	.....	.....
Southern	2	14	74.6	.178	13.20	.....	.....	.....	6	.....	.....	8	.....	.....	.....	.....
Total	8	42	75.9	.223	16.86	.....	.....	.....	6	.....	2	18	12	4	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

LADLE CRANEMEN.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
1910.																
Eastern	4	18	72.6	$0.224	$16.18					6		8	2	2		
Pittsburgh	5	36	78.1	.298	23.25							12	4	20		
G. L. and M. W.	5	29	79.4	.331	26.21								8	15	6	
Southern	2	7	75.4	.302	22.86								5	2		
Total	16	90	77.2	.294	22.76					6		20	19	39	6	
1911.																
Eastern	4	15	73.1	.223	16.29					5		8		2		
Pittsburgh	5	36	73.4	.303	22.28								22	14		
G. L. and M. W.	5	27	77.3	.301	22.96						2	6	6	6	7	
Southern	2	8	73.5	.283	20.86								6	2		
Total	16	86	74.6	.287	21.32					5	2	14	34	24	7	
1912.																
Eastern	4	15	73.5	.219	16.12						6	7		2		
Pittsburgh	5	36	76.1	.327	24.92									36		
G. L. and M. W.	5	31	78.2	.347	27.10									31		
Southern	2	8	73.5	.342	25.12									8		
Total	16	90	76.2	.317	24.22						6	7		77		

INGOT STRIPPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
1910.																
Eastern	2	12	70.7	$0.235	$16.50					2		10				
Pittsburgh	5	17	71.3	.341	23.67								6	8	3	
G. L. and M. W.	6	13	78.5	.235	18.20			2				7	2	2		
Southern	2	4	78.0	.250	19.35							2	2			
Total	15	46	73.7	.275	19.88			2		2		19	10	10	3	
1911.																
Eastern	2	18	72.8	.191	13.91					2	16					
Pittsburgh	5	17	68.1	.328	21.73							1	5	8	2	1
G. L. and M. W.	6	12	75.0	.253	18.95					2		4	4	2		
Southern	2	4	75.0	.247	18.42							2	2			
Total	15	51	71.9	.256	18.06					4	16	7	11	10	2	1
1912.																
Eastern	2	16	72.9	.221	16.04					2		14				
Pittsburgh	5	17	69.5	.360	24.41								4	10		3
G. L. and M. W.	6	12	75.0	.249	18.63					2		4	2	4		
Southern	2	4	75.0	.285	21.20							2		2		
Total	15	49	72.4	.281	20.00					4		20	6	16		3

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

ENGINEERS, LOCOMOTIVE.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
1910.																
Eastern	3	14	72.9	$0.184	$13.49	.....	.....	.....	.....	8	2	4	.....	.....	.....	.....
Pittsburgh	4	51	78.6	.264	20.80	.....	.....	.....	.....	.....	.....	17	28	6	.....	.....
G. L. and M. W.	5	22	80.7	.245	19.80	.....	.....	.....	.....	.....	.....	12	10	.....	.....	.....
Southern	2	20	73.2	.232	16.96	.....	.....	.....	.....	.....	.....	19	1	.....	.....	.....
Total	14	107	77.3	.244	18.92	.....	.....	.....	.....	8	2	52	39	6	.....	.....
1911.																
Eastern	4	19	73.2	.209	15.25	.....	.....	.....	.....	4	4	9	2	.....	.....	.....
Pittsburgh	4	52	73.6	.271	19.90	.....	.....	.....	.....	.....	.....	4	46	2	.....	.....
G. L. and M. W.	5	22	77.4	.244	18.87	.....	.....	.....	.....	.....	.....	12	10	.....	.....	.....
Southern	2	21	73.7	.226	16.64	.....	.....	.....	.....	.....	.....	20	1	.....	.....	.....
Total	15	114	74.3	.247	18.32	.....	.....	.....	.....	4	4	45	59	2	.....	.....
1912.																
Eastern	4	18	73.3	.207	15.08	.....	.....	.....	.....	4	4	8	2	.....	.....	.....
Pittsburgh	4	50	74.6	.279	20.82	.....	.....	.....	.....	.....	.....	2	40	8	.....	.....
G. L. and M. W.	5	22	76.4	.260	19.80	.....	.....	.....	.....	.....	.....	12	2	8	.....	.....
Southern	2	21	77.1	.265	20.38	.....	.....	.....	.....	.....	.....	4	13	4	.....	.....
Total	15	111	75.2	.261	19.61	.....	.....	.....	.....	4	4	26	57	20	.....	.....

SWITCHMEN.

1910.																
Eastern	3	15	72.4	$0.159	$11.48	.....	.....	.....	4	9	2	.....	.....	.....	.....	.....
Pittsburgh	4	52	78.5	.187	14.66	.....	.....	.....	8	16	8	20	.....	.....	.....	.....
G. L. and M. W.	5	22	80.7	.194	15.64	.....	.....	.....	.....	6	8	8	.....	.....	.....	.....
Southern	2	20	74.4	.188	13.97	.....	.....	.....	.....	4	16	.....	.....	.....	.....	.....
Total	14	109	77.3	.185	14.29	.....	.....	.....	12	35	34	28	.....	.....	.....	.....
1911.																
Eastern	4	19	73.2	.166	12.11	.....	.....	.....	6	9	2	2	.....	.....	.....	.....
Pittsburgh	4	54	73.6	.191	14.08	.....	.....	.....	.....	14	22	18	.....	.....	.....	.....
G. L. and M. W.	5	22	77.4	.194	15.01	.....	.....	.....	2	.....	12	8	.....	.....	.....	.....
Southern	2	22	74.2	.184	13.64	.....	.....	.....	.....	6	16	.....	.....	.....	.....	.....
Total	15	117	74.4	.186	13.85	.....	.....	.....	8	29	52	28	.....	.....	.....	.....
1912.																
Eastern	4	18	73.3	.165	11.99	.....	.....	.....	6	8	4	.....	.....	.....	.....	.....
Pittsburgh	4	52	74.5	.195	14.54	.....	.....	.....	.....	4	34	14	.....	.....	.....	.....
G. L. and M. W.	5	22	76.4	.207	15.83	.....	.....	.....	.....	2	8	8	4	.....	.....	.....
Southern	2	20	74.4	.225	16.62	.....	.....	.....	.....	6	.....	10	4	.....	.....	.....
Total	15	112	74.6	.198	14.75	.....	.....	.....	6	20	46	32	8	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Concluded.

OPEN-HEARTH FURNACES—Continued.

LABORERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
1910.																
Eastern	4	194	64.9	$0.145	$9.41	.....	.....	37	136	21	.....	.....	.....	.....	.....	.....
Pittsburgh	5	485	75.5	.162	12.24	.....	.....	95	34	356	.....	.....	.....	.....	.....	.....
G. L. and M. W.	6	286	78.4	.162	12.72	.....	.....	.....	88	198	.....	.....	.....	.....	.....	.....
Southern	2	73	78.4	.130	10.15	.....	.....	72	1	.....	.....	.....	.....	.....	.....	.....
Total	17	1,038	74.5	.157	11.69	.....	.....	204	259	575	.....	.....	.....	.....	.....	.....
1911.																
Eastern	4	95	62.7	.146	9.08	.....	.....	45	32	15	3	.....	.....	.....	.....	.....
Pittsburgh	5	434	73.2	.164	11.99	.....	.....	68	28	338	.....	.....	.....	.....	.....	.....
G. L. and M. W.	6	245	76.6	.166	12.67	.....	.....	.....	70	159	16	.....	.....	.....	.....	.....
Southern	2	32	79.1	.130	10.22	.....	.....	27	5	.....	.....	.....	.....	.....	.....	.....
Total	17	806	73.2	.161	11.78	.....	.....	140	135	512	19	.....	.....	.....	.....	.....
1912.																
Eastern	4	116	62.3	.152	9.40	.....	.....	39	16	54	7	.....	.....	.....	.....	.....
Pittsburgh	5	458	75.6	.165	12.45	.....	.....	54	42	362	.....	.....	.....	.....	.....	.....
G. L. and M. W.	6	286	77.4	.167	12.91	.....	.....	.....	10	260	16	.....	.....	.....	.....	.....
Southern	2	37	75.6	.134	9.97	.....	.....	25	12	.....	.....	.....	.....	.....	.....	.....
Total	17	897	74.4	.163	12.10	.....	.....	118	80	676	23	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912.

OPEN-HEARTH FURNACES—Continued.

[The abbreviation "G. L. and M. W." stands for "Great Lakes and Middle West." The figures set opposite each bracketed group of years are for identical plants.]

STOCKERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
Eastern:																
4 plants	1910	98	70.8	$0.142	$10.06	.....	.....	24	74	.....	.....	.....	.....	.....	.....	.....
	1911	85	72.2	.147	10.62	.....	.....	.....	85	.....	.....	.....	.....	.....	.....	.....
	1912	86	73.6	.150	11.01	.....	.....	.....	68	18	.....	.....	.....	.....	.....	.....
Pittsburgh:																
5 plants	1910	213	77.9	.197	15.41	.....	.....	.....	4	53	24	132	.....	.....	.....	.....
	1911	193	74.2	.183	13.56	.....	.....	.....	32	57	90	14	.....	.....	.....	.....
	1912	167	78.2	.185	14.36	.....	.....	.....	34	77	16	30	10	.....	.....	.....
G.L. and M.W.:																
6 plants	1910	117	79.5	.175	14.04	.....	.....	.....	25	30	52	10	.....	.....	.....	.....
	1911	120	76.0	.175	13.24	.....	.....	.....	20	46	52	2	.....	.....	.....	.....
	1912	126	76.4	.191	14.56	.....	.....	.....	.....	64	12	42	8	.....	.....	.....
Southern:																
2 plants	1910	20	78.0	.144	11.15	.....	.....	2	18	.....	.....	.....	.....	.....	.....	.....
	1911	21	76.0	.143	10.80	.....	.....	3	18	.....	.....	.....	.....	.....	.....	.....
	1912	24	77.0	.140	10.74	.....	.....	6	18	.....	.....	.....	.....	.....	.....	.....

STOCK CRANEMEN.

Eastern:																
3 plants	1910	7	74.6	$0.175	$13.00	.....	.....	.....	.....	5	2	.....	.....	.....	.....	.....
	1911	9	72.6	.177	12.81	.....	.....	.....	.....	5	4	.....	.....	.....	.....	.....
	1912	8	78.0	.179	13.89	.....	.....	.....	.....	4	4	.....	.....	.....	.....	.....
Pittsburgh:																
4 plants	1910	34	77.3	.220	16.99	.....	.....	.....	.....	.....	4	24	6	.....	.....	.....
	1911	30	72.9	.215	15.68	.....	.....	.....	.....	.....	.....	30	.....	.....	.....	.....
	1912	26	76.4	.225	17.18	.....	.....	.....	.....	.....	.....	20	6	.....	.....	.....
G.L. and M.W.:																
4 plants	1910	26	82.2	.242	19.89	.....	.....	.....	.....	.....	.....	18	8	.....	.....	.....
	1911	24	80.0	.207	16.50	.....	.....	.....	.....	.....	8	16	.....	.....	.....	.....
	1912	24	80.0	.262	20.98	.....	.....	.....	.....	.....	.....	8	16	.....	.....	.....
Southern:																
2 plants	1910	8	78.0	.217	16.79	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
	1911	7	75.4	.211	15.86	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	.....
	1912	8	75.0	.244	18.17	.....	.....	.....	.....	.....	.....	4	4	.....	.....	.....

CHARGING-MACHINE OPERATORS.

Eastern:																
4 plants	1910	14	73.6	$0.228	$16.60	.....	.....	.....	.....	.....	4	2	8	.....	.....	.....
	1911	14	73.8	.206	15.12	.....	.....	.....	.....	4	4	2	4	.....	.....	.....
	1912	14	73.8	.226	16.52	.....	.....	.....	.....	.....	4	2	8	.....	.....	.....
Pittsburgh:																
5 plants	1910	28	78.0	.293	22.77	.....	.....	.....	.....	.....	.....	.....	14	14	.....	.....
	1911	28	74.5	.302	22.51	.....	.....	.....	.....	.....	.....	.....	18	10	.....	.....
	1912	28	77.1	.319	24.64	.....	.....	.....	.....	.....	.....	.....	6	22	.....	.....
G.L. and M.W.:																
6 plants	1910	22	78.0	.346	26.95	.....	.....	.....	.....	.....	.....	.....	6	10	6	.....
	1911	24	75.5	.323	24.21	.....	.....	.....	.....	.....	.....	4	4	10	6	.....
	1912	24	75.0	.354	26.63	.....	.....	.....	.....	.....	.....	.....	2	22	.....	.....
Southern:																
2 plants	1910	9	74.7	.269	20.16	.....	.....	.....	.....	.....	.....	.....	7	2	.....	.....
	1911	6	74.0	.260	19.32	.....	.....	.....	.....	.....	.....	4	.....	2	.....	.....
	1912	6	74.0	.306	22.63	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

DOOR OPERATORS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
Eastern:																
3 plants	1910	30	72.6	$0.089	$6.41	[1] 30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1911	28	74.0	.093	6.80	[1] 20	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1912	26	74.6	.093	6.84	[1] 18	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh:																
4 plants	1910	60	74.4	.097	7.23	[2] 28	32	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1911	60	74.1	.099	7.31	[2] 28	32	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1912	57	75.6	.099	7.45	[2] 25	32	.....	.....	.....	.....	.....	.....	.....	.....	.....
G.L. and M.W.:																
6 plants	1910	64	79.1	.112	8.92	[2] 16	20	14	14	.....	.....	.....	.....	.....	.....	.....
	1911	62	76.3	.106	8.14	[2] 16	22	24	.....	.....	.....	.....	.....	.....	.....	.....
	1912	64	75.9	.107	8.13	[2] 16	22	26	.....	.....	.....	.....	.....	.....	.....	.....
Southern:																
2 plants	1910	11	74.2	.094	6.92	[3] 11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1911	10	82.8	.087	7.21	[2] 10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1912	10	82.8	.108	8.96	[3] 2	8	.....	.....	.....	.....	.....	.....	.....	.....	.....

MELTERS' HELPERS, FIRST.

Eastern:																
4 plants	1910	54	74.5	$0.320	$23.76	.....	.....	.....	.....	.....	.....	.....	12	42	.....	.....
	1911	56	74.4	.309	22.87	.....	.....	.....	.....	.....	.....	4	24	28	.....	.....
	1912	52	74.8	.324	24.15	.....	.....	.....	.....	.....	.....	2	15	35	.....	.....
Pittsburgh:																
5 plants	1910	148	78.5	.412	32.37	.....	.....	.....	.....	.....	.....	.....	.....	48	100	.....
	1911	150	74.1	.411	30.45	.....	.....	.....	.....	.....	.....	.....	2	63	77	8
	1912	153	76.5	.429	32.78	.....	.....	.....	.....	.....	.....	.....	2	40	99	12
G.L.and M.W.:																
6 plants	1910	106	79.0	.446	35.05	.....	.....	.....	.....	.....	.....	.....	.....	34	44	28
	1911	112	76.1	.426	32.30	.....	.....	.....	.....	.....	.....	2	.....	42	52	16
	1912	120	76.0	.436	33.15	.....	.....	.....	.....	.....	.....	2	.....	24	62	32
Southern:																
2 plants	1910	33	74.9	.490	36.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	25	8
	1911	20	82.8	.432	35.73	.....	.....	.....	.....	.....	.....	.....	2	2	14	2
	1912	22	82.9	.449	37.15	.....	.....	.....	.....	.....	.....	.....	.....	6	14	2

MELTERS' HELPERS, SECOND.

Eastern:																
4 plants	1910	58	71.8	$0.213	$15.29	.....	.....	.....	.....	.....	10	40	8	.....	.....	.....
	1911	56	72.6	.201	14.56	.....	.....	.....	.....	2	21	33	.....	.....	.....	.....
	1912	52	72.9	.213	15.52	.....	.....	.....	.....	5	15	26	6	.....	.....	.....
Pittsburgh:																
5 plants	1910	148	76.9	.288	22.20	.....	.....	.....	.....	.....	.....	.....	100	48	.....	.....
	1911	150	73.2	.285	20.93	.....	.....	.....	.....	.....	.....	20	83	47	.....	.....
	1912	154	75.7	.294	22.26	.....	.....	.....	.....	.....	.....	8	87	59	.....	.....
G.L.and M.W.:																
6 plants	1910	108	78.9	.285	22.39	.....	.....	.....	.....	.....	.....	44	12	52	.....	.....
	1911	109	76.0	.270	20.44	.....	.....	.....	.....	2	.....	42	41	24	.....	.....
	1912	119	76.0	.278	21.21	.....	.....	.....	.....	2	.....	26	51	40	.....	.....
Southern:																
2 plants	1910	25	75.8	.259	19.40	.....	.....	.....	.....	.....	8	.....	17	.....	.....	.....
	1911	20	82.2	.236	19.48	.....	.....	.....	.....	.....	.....	12	6	2	.....	.....
	1912	22	82.4	.247	20.42	.....	.....	.....	.....	.....	.....	12	10	.....	.....	.....

[1] Including 10 employees earning 7 and under 8 cents per hour.
[2] Earning 8 and under 9 cents per hour.
[3] Including 2 employees earning 8 and under 9 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

MELTERS' HELPERS, THIRD.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
Eastern:																
4 plants	1910	62	71.6	$0.162	$11.58	.....	.....	.....	14	38	10	.....	.....	.....	.....	.....
	1911	57	72.6	.156	11.36	.....	.....	.....	25	32	.....	.....	.....	.....	.....	.....
	1912	53	72.9	.166	12.06	.....	.....	.....	15	18	20	.....	.....	.....	.....	.....
Pittsburgh:																
5 plants	1910	165	77.8	.202	15.66	.....	.....	.....	.....	49	48	68	.....	.....	.....	.....
	1911	174	73.4	.192	14.10	.....	.....	.....	34	24	37	78	1	.....	.....	.....
	1912	176	75.6	.205	15.47	.....	.....	.....	32	24	15	93	12	.....	.....	.....
G.L. and M.W.:																
6 plants	1910	130	77.7	.199	15.48	.....	.....	.....	.....	56	8	66	.....	.....	.....	.....
	1911	133	75.2	.197	14.87	.....	.....	.....	.....	23	57	53	.....	.....	.....	.....
	1912	137	75.5	.214	16.21	.....	.....	.....	.....	8	28	77	24	.....	.....	.....
Southern:																
2 plants	1910	36	74.7	.214	15.87	.....	.....	.....	.....	8	.....	28	.....	.....	.....	.....
	1911	30	73.2	.141	10.33	.....	.....	24	.....	6	.....	.....	.....	.....	.....	.....
	1912	48	76.8	.169	13.15	.....	.....	20	6	6	.....	16	.....	.....	.....	.....

STOPPER SETTERS.

Pittsburgh:																
4 plants	1910	18	76.7	$0.300	$22.91	.....	.....	.....	.....	.....	.....	8	.....	8	2	.....
	1911	18	72.8	.297	21.84	.....	.....	.....	.....	.....	.....	4	4	9	1	.....
	1912	18	76.5	.321	24.63	.....	.....	.....	.....	.....	.....	.....	8	8	2	.....
G.L. and M.W.:																
4 plants	1910	8	74.1	.352	26.06	.....	.....	.....	.....	.....	.....	4	.....	.....	2	2
	1911	7	74.4	.372	27.58	.....	.....	.....	.....	.....	.....	3	.....	.....	2	2
	1912	7	74.4	.345	25.70	.....	.....	.....	.....	.....	.....	3	.....	.....	4	.....
Southern:																
2 plants	1910	4	78.0	.289	22.01	.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....
	1911	4	75.0	.284	21.01	.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....
	1912	4	75.0	.338	24.90	.....	.....	.....	.....	.....	.....	2	.....	.....	2	.....

STEEL POURERS.

Eastern:																
3 plants	1910	7	71.8	$0.298	$21.02	.....	.....	.....	.....	.....	.....	2	.....	5	.....	.....
	1911	6	73.8	.302	21.88	.....	.....	.....	.....	.....	.....	2	.....	4	.....	.....
	1912	6	73.8	.295	21.38	.....	.....	.....	.....	.....	.....	2	.....	4	.....	.....
Pittsburgh:																
4 plants	1910	18	74.0	.303	22.33	.....	.....	.....	.....	.....	.....	.....	14	.....	4	.....
	1911	18	71.5	.304	21.78	.....	.....	.....	.....	.....	.....	2	8	6	2	.....
	1912	18	75.2	.327	24.64	.....	.....	.....	.....	.....	.....	2	4	8	4	.....
G.L. and M.W.:																
5 plants	1910	14	78.0	.351	27.35	.....	.....	.....	.....	.....	.....	.....	.....	14	.....	.....
	1911	14	76.3	.330	25.04	.....	.....	.....	.....	.....	.....	.....	2	12	.....	.....
	1912	16	76.5	.311	23.73	.....	.....	.....	.....	.....	.....	.....	8	8	.....	.....
Southern:																
2 plants	1910	8	76.5	.250	18.90	.....	.....	.....	.....	.....	.....	3	5	.....	.....	.....
	1911	6	74.0	.245	18.02	.....	.....	.....	.....	.....	.....	2	4	.....	.....	.....
	1912	6	74.0	.297	21.76	.....	.....	.....	.....	.....	.....	2	.....	4	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

MOLD CAPPERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
Pittsburgh:																
4 plants	1910	18	74.0	$0.236	$17.38	.....	.....	.....	.....	.....	.....	14	2	2	.....	.....
	1911	18	71.5	.238	17.03	.....	.....	.....	.....	.....	2	10	4	2	.....	.....
	1912	18	75.2	.258	19.35	.....	.....	.....	.....	.....	2	4	8	4	.....	.....
G. L. and M.W.:																
2 plants	1910	8	78.0	.293	22.67	.....	.....	.....	.....	.....	.....	.....	4	4	.....	.....
	1911	8	78.0	.260	19.93	.....	.....	.....	.....	.....	.....	4	.....	4	.....	.....
	1912	10	79.2	.223	17.49	.....	.....	.....	.....	.....	.....	6	4	.....	.....	.....
Southern:																
2 plants	1910	14	78.9	.151	11.81	.....	.....	.....	8	6	.....	.....	.....	.....	.....	.....
	1911	12	75.0	.149	11.15	.....	.....	.....	12	.....	.....	.....	.....	.....	.....	.....
	1912	14	74.6	.178	13.20	.....	.....	.....	6	.....	.....	8	.....	.....	.....	.....

LADLE CRANEMEN.

Eastern:																
4 plants	1910	18	72.6	$0.224	$16.18	.....	.....	.....	.....	6	.....	8	2	2	.....	.....
	1911	15	73.1	.223	16.29	.....	.....	.....	.....	5	.....	8	.....	2	.....	.....
	1912	15	73.5	.219	16.12	.....	.....	.....	.....	.....	6	7	.....	2	.....	.....
Pittsburgh:																
5 plants	1910	36	78.1	.298	23.25	.....	.....	.....	.....	.....	.....	12	4	20	.....	.....
	1911	36	73.4	.303	22.28	.....	.....	.....	.....	.....	.....	.....	22	14	.....	.....
	1912	36	76.1	.327	24.92	.....	.....	.....	.....	.....	.....	.....	.....	36	.....	.....
G. L. and M.W.:																
5 plants	1910	29	79.4	.331	26.21	.....	.....	.....	.....	.....	.....	.....	8	15	6	.....
	1911	27	77.3	.301	22.96	.....	.....	.....	.....	.....	2	6	6	6	7	.....
	1912	31	78.2	.347	27.10	.....	.....	.....	.....	.....	.....	.....	.....	31	.....	.....
Southern:																
2 plants	1910	7	75.4	.302	22.86	.....	.....	.....	.....	.....	.....	.....	5	2	.....	.....
	1911	8	73.5	.283	20.86	.....	.....	.....	.....	.....	.....	.....	6	2	.....	.....
	1912	8	73.5	.342	25.12	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....

INGOT STRIPPERS.

Eastern:																
2 plants	1910	12	70.7	$0.235	$16.50	.....	.....	.....	.....	2	.....	10	.....	.....	.....	.....
	1911	18	72.8	.191	13.91	.....	.....	.....	.....	2	16	.....	.....	.....	.....	.....
	1912	16	72.9	.221	16.04	.....	.....	.....	.....	2	.....	14	.....	.....	.....	.....
Pittsburgh:																
5 plants	1910	17	71.3	.341	23.67	.....	.....	.....	.....	.....	.....	.....	6	8	3	.....
	1911	17	68.1	.328	21.73	.....	.....	.....	.....	.....	.....	1	5	8	2	1
	1912	17	69.5	.360	24.41	.....	.....	.....	.....	.....	.....	.....	4	10	.....	3
G. L. and M.W.:																
6 plants	1910	13	78.5	.235	18.20	.....	.....	2	.....	.....	.....	7	2	2	.....	.....
	1911	12	75.0	.253	18.95	.....	.....	.....	.....	2	.....	4	4	2	.....	.....
	1912	12	75.0	.249	18.63	.....	.....	.....	.....	2	.....	4	2	4	.....	.....
Southern:																
2 plants	1910	4	78.0	.250	19.35	.....	.....	.....	.....	.....	.....	2	2	.....	.....	.....
	1911	4	75.0	.247	18.42	.....	.....	.....	.....	.....	.....	2	2	.....	.....	.....
	1912	4	75.0	.285	21.20	.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Concluded.

OPEN-HEARTH FURNACES—Continued.

ENGINEERS, LOCOMOTIVE.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.
Eastern:																
3 plants	1910	14	72.9	$0.184	$13.49	.....	.....	.....	.....	8	2	4	.....	.....	.....	.....
	1911	15	73.7	.204	15.00	.....	.....	.....	.....	4	2	9	.....	.....	.....	.....
4 plants	1911	19	73.2	.209	15.25	.....	.....	.....	.....	4	4	9	2	.....	.....	.....
	1912	18	73.3	.207	15.08	.....	.....	.....	.....	4	4	8	2	.....	.....	.....
Pittsburgh:																
4 plants	1910	51	78.6	.264	20.80	.....	.....	.....	.....	.....	.....	17	28	6	.....	.....
	1911	52	73.6	.271	19.90	.....	.....	.....	.....	.....	.....	4	46	2	.....	.....
	1912	50	74.6	.279	20.82	.....	.....	.....	.....	.....	.....	2	40	8	.....	.....
G.L. and M.W.:																
5 plants	1910	22	80.7	.245	19.80	.....	.....	.....	.....	.....	.....	12	10	.....	.....	.....
	1911	22	77.4	.244	18.87	.....	.....	.....	.....	.....	.....	12	10	.....	.....	.....
	1912	22	64.7	.260	19.80	.....	.....	.....	.....	.....	.....	12	2	8	.....	.....
Southern:																
2 plants	1910	20	73.2	.232	16.96	.....	.....	.....	.....	.....	.....	19	1	.....	.....	.....
	1911	21	73.7	.226	16.64	.....	.....	.....	.....	.....	.....	20	1	.....	.....	.....
	1912	21	77.1	.265	20.38	.....	.....	.....	.....	.....	.....	4	13	4	.....	.....

SWITCHMEN.

Eastern:																
3 plants	1910	15	72.4	$0.159	$11.48	.....	.....	.....	4	9	2	.....	.....	.....	.....	.....
	1911	15	73.7	.164	12.04	.....	.....	.....	4	9	2	.....	.....	.....	.....	.....
4 plants	1911	19	73.2	.166	12.11	.....	.....	.....	6	9	2	2	.....	.....	.....	.....
	1912	18	73.3	.165	11.99	.....	.....	.....	6	8	4	.....	.....	.....	.....	.....
Pittsburgh:																
4 plants	1910	52	78.5	.187	14.66	.....	.....	.....	8	16	8	20	.....	.....	.....	.....
	1911	54	73.6	.191	14.08	.....	.....	.....	.....	14	22	18	.....	.....	.....	.....
	1912	52	74.5	.195	14.54	.....	.....	.....	.....	4	34	14	.....	.....	.....	.....
G.L. and M.W.:																
5 plants	1910	22	80.7	.194	15.64	.....	.....	.....	.....	6	8	8	.....	.....	.....	.....
	1911	22	77.4	.194	15.01	.....	.....	.....	2	.....	12	8	.....	.....	.....	.....
	1912	22	76.4	.207	15.83	.....	.....	.....	.....	2	8	8	4	.....	.....	.....
Southern:																
2 plants	1910	20	74.4	.188	13.97	.....	.....	.....	.....	4	16	.....	.....	.....	.....	.....
	1911	22	74.2	.184	13.64	.....	.....	.....	.....	6	16	.....	.....	.....	.....	.....
	1912	20	74.4	.225	16.62	.....	.....	.....	.....	6	.....	10	4	.....	.....	.....

LABORERS.

Eastern:																
4 plants	1910	194	64.9	$0.145	$9.41	.....	.....	37	136	21	.....	.....	.....	.....	.....	.....
	1911	95	62.7	.146	9.08	.....	.....	45	32	15	3	.....	.....	.....	.....	.....
	1912	116	62.3	.152	9.40	.....	.....	39	16	54	7	.....	.....	.....	.....	.....
Pittsburgh:																
5 plants	1910	485	75.5	.162	12.24	.....	.....	95	34	356	.....	.....	.....	.....	.....	.....
	1911	434	73.2	.164	11.99	.....	.....	68	28	338	.....	.....	.....	.....	.....	.....
	1912	458	75.6	.165	12.45	.....	.....	54	42	362	.....	.....	.....	.....	.....	.....
G.L. and M.W.:																
6 plants	1910	286	78.4	.162	12.72	.....	.....	.....	88	198	.....	.....	.....	.....	.....	.....
	1911	245	76.6	.166	12.67	.....	.....	.....	70	159	16	.....	.....	.....	.....	.....
	1912	286	77.4	.167	12.91	.....	.....	.....	10	260	16	.....	.....	.....	.....	.....
Southern:																
2 plants	1910	73	78.4	.130	10.15	.....	.....	72	1	.....	.....	.....	.....	.....	.....	.....
	1911	32	79.1	.130	10.22	.....	.....	27	5	.....	.....	.....	.....	.....	.....	.....
	1912	37	75.6	.134	9.97	.....	.....	25	12	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912.

OPEN-HEARTH FURNACES—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Stockers:											
17 plants	1910	448	76.8	.....	.....	.....	.....	60	107	154	127
	1911	419	74.4	.....	.....	.....	13	109	102	116	79
	1912	403	76.6	.....	.....	.....	.....	26	122	155	100
Stock cranemen:											
13 plants	1910	75	78.8	.....	1	.....	.....	2	12	30	30
	1911	70	75.6	.....	1	.....	.....	16	7	30	16
	1912	66	77.7	.....	.....	.....	.....	.....	12	34	20
Charging-machine operators:											
17 plants	1910	73	76.8	.....	.....	.....	.....	6	25	20	22
	1911	72	74.7	.....	.....	.....	.....	18	18	24	12
	1912	72	75.5	.....	.....	.....	.....	10	28	18	16
Door operators:											
15 plants	1910	165	75.9	.....	.....	.....	.....	20	63	36	46
	1911	160	75.5	.....	.....	.....	.....	34	38	50	38
	1912	157	76.0	.....	.....	.....	.....	32	44	33	48
Melters' helpers, first:											
17 plants	1910	341	77.7	.....	.....	.....	.....	24	75	136	106
	1911	338	75.3	.....	.....	.....	.....	58	72	164	44
	1912	347	76.5	.....	.....	.....	.....	8	82	191	66
Melters' helpers, second:											
17 plants	1910	339	76.6	.....	.....	.....	.....	28	129	76	106
	1911	335	74.5	.....	.....	.....	.....	118	71	70	76
	1912	347	75.8	.....	.....	.....	.....	68	129	50	100
Melters' helpers, third:											
17 plants	1910	393	76.5	.....	.....	.....	.....	30	141	116	106
	1911	394	73.9	.....	.....	.....	.....	78	144	142	30
	1912	414	75.4	.....	.....	.....	.....	28	126	192	68
Stopper setters:											
10 plants	1910	30	76.2	.....	.....	.....	.....	.....	11	17	2
	1911	29	73.5	.....	.....	.....	.....	8	6	15	.....
	1912	29	75.8	.....	.....	.....	.....	.....	6	21	2
Steel pourers:											
14 plants	1910	47	75.3	.....	.....	.....	.....	5	23	8	11
	1911	44	73.7	.....	.....	.....	.....	10	12	18	4
	1912	46	75.3	.....	.....	.....	.....	10	14	14	8
Mold cappers:											
8 plants	1910	40	76.5	.....	.....	.....	.....	.....	22	6	12
	1911	38	74.0	.....	.....	.....	.....	8	10	16	4
	1912	42	75.9	.....	.....	.....	.....	8	12	14	8
Ladle cranemen:											
16 plants	1910	90	77.2	.....	.....	.....	.....	8	25	28	29
	1911	86	74.6	.....	.....	.....	.....	21	29	20	16
	1912	90	76.2	.....	.....	.....	.....	9	29	28	24
Ingot strippers:											
15 plants	1910	46	73.7	3	.....	.....	.....	10	14	8	11
	1911	51	71.9	.....	3	.....	.....	4	32	10	2
	1912	49	72.4	.....	3	.....	.....	.....	34	10	2
Engineers, locomotive:											
14 plants	1910	107	77.3	.....	.....	.....	.....	6	25	48	28
	1911	110	74.4	.....	.....	.....	.....	39	22	40	9
15 plants	1911	114	74.3	.....	.....	.....	.....	43	22	40	9
	1912	111	75.2	.....	.....	.....	.....	16	22	64	9
Switchmen:											
14 plants	1910	109	77.3	.....	.....	.....	.....	7	24	48	30
	1911	113	74.5	.....	.....	.....	.....	41	22	40	10
15 plants	1911	117	74.4	.....	.....	.....	.....	45	22	40	10
	1912	112	74.6	.....	.....	.....	.....	18	32	52	10
Laborers:											
17 plants	1910	1,038	74.5	.....	29	8	63	212	137	365	224
	1911	806	73.2	.....	35	.....	55	192	117	298	109
	1912	897	74.4	.....	51	5	52	115	131	392	151

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Con.

OPEN-HEARTH FURNACES—Continued.

PER CENT.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Stockers:											
17 plants	1910	448	76.8	.....	.....	.....	.....	13.4	23.9	34.4	28.3
	1911	419	74.4	.....	.....	.....	3.1	26.0	24.3	27.7	18.9
	1912	403	76.6	.....	.....	.....	.....	6.5	30.3	38.5	24.8
Stock cranemen:											
13 plants	1910	75	78.8	.....	1.3	.....	.....	2.7	16.0	40.0	40.0
	1911	70	75.6	.....	1.4	.....	.....	22.9	10.0	42.9	22.9
	1912	66	77.7	.....	.....	.....	.....	.....	18.2	51.5	30.3
Charging-machine operators:											
17 plants	1910	73	76.8	.....	.....	.....	.....	8.2	34.2	27.4	30.1
	1911	72	74.7	.....	.....	.....	.....	25.0	25.0	33.3	16.7
	1912	72	75.5	.....	.....	.....	.....	13.9	38.9	25.0	22.2
Door operators:											
15 plants	1910	165	75.9	.....	.....	.....	.....	12.1	38.2	21.8	27.9
	1911	160	75.5	.....	.....	.....	.....	21.3	23.8	31.3	23.8
	1912	157	76.0	.....	.....	.....	.....	20.4	28.0	21.0	30.6
Melters' helpers, first:											
17 plants	1910	341	77.7	.....	.....	.....	.....	7.0	22.0	39.9	31.1
	1911	338	75.3	.....	.....	.....	.....	17.2	21.3	48.5	13.0
	1912	347	76.5	.....	.....	.....	.....	2.3	23.6	55.0	19.0
Melters' helpers, second:											
17 plants	1910	339	76.6	.....	.....	.....	.....	8.3	38.1	22.4	31.3
	1911	335	74.5	.....	.....	.....	.....	35.2	21.2	20.9	22.7
	1912	347	75.8	.....	.....	.....	.....	19.6	37.2	14.4	28.8
Melters' helpers, third:											
17 plants	1910	393	76.5	.....	.....	.....	.....	7.6	35.9	29.5	27.0
	1911	394	73.9	.....	.....	.....	.....	19.8	36.5	36.0	7.6
	1912	414	75.4	.....	.....	.....	.....	6.8	30.4	46.4	16.4
Stopper setters:											
10 plants	1910	30	76.2	.....	.....	.....	.....	.....	36.7	56.7	6.7
	1911	29	73.5	.....	.....	.....	.....	27.6	20.7	51.7	.....
	1912	29	75.8	.....	.....	.....	.....	.....	20.7	72.4	6.9
Steel pourers:											
14 plants	1910	47	75.3	.....	.....	.....	.....	10.6	48.9	17.0	23.4
	1911	44	73.7	.....	.....	.....	.....	22.7	27.3	40.9	9.1
	1912	46	75.3	.....	.....	.....	.....	21.7	30.4	30.4	17.4
Mold cappers:											
8 plants	1910	40	76.5	.....	.....	.....	.....	.....	55.0	15.0	30.0
	1911	38	74.0	.....	.....	.....	.....	21.1	26.3	42.1	10.5
	1912	42	75.9	.....	.....	.....	.....	19.0	28.6	33.3	19.0
Ladle cranemen:											
16 plants	1910	90	77.2	.....	.....	.....	.....	8.9	27.8	31.1	32.2
	1911	86	74.6	.....	.....	.....	.....	24.4	33.7	23.3	18.6
	1912	90	76.2	.....	.....	.....	.....	10.0	32.2	31.1	26.7
Ingot strippers:											
15 plants	1910	46	73.7	6.5	.....	.....	.....	21.7	30.4	17.4	23.9
	1911	51	71.9	.....	5.9	.....	.....	7.8	62.7	19.6	3.9
	1912	49	72.4	.....	6.1	.....	.....	.....	69.4	20.4	4.1
Engineers, locomotive:											
14 plants	1910	107	77.3	.....	.....	.....	.....	5.6	23.4	44.9	26.2
	1911	110	74.4	.....	.....	.....	.....	35.5	20.0	36.4	8.2
15 plants	1911	114	74.3	.....	.....	.....	.....	37.7	19.3	35.1	7.9
	1912	111	75.2	.....	.....	.....	.....	14.4	19.8	57.7	8.1
Switchmen:											
14 plants	1910	109	77.3	.....	.....	.....	.....	6.4	22.0	44.0	27.5
	1911	113	74.5	.....	.....	.....	.....	36.3	19.5	35.4	8.8
15 plants	1911	117	74.4	.....	.....	.....	.....	38.5	18.8	34.2	8.5
	1912	112	74.6	.....	.....	.....	.....	16.1	28.6	46.4	8.9
Laborers:											
17 plants	1910	1,038	74.5	.....	2.8	0.8	6.1	20.4	13.2	35.2	21.6
	1911	806	73.2	.....	4.3	.....	6.8	23.8	14.5	37.0	13.5
	1912	897	74.4	.....	5.7	.6	5.8	12.8	14.6	43.7	16.8

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912.

OPEN-HEARTH FURNACES—Continued.

STOCKERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	4	98	70.8	.....	.....	.....	.....	60	22	.....	16
Pittsburgh	5	213	77.9	.....	.....	.....	.....	.....	31	154	28
Great Lakes and Middle West	6	117	79.5	.....	.....	.....	.....	.....	44	.....	73
Southern	2	20	78.0	.....	.....	.....	.....	.....	10	.....	10
Total	17	448	76.8	.....	.....	.....	.....	60	107	154	127
1911.											
Eastern	4	85	72.2	.....	.....	.....	.....	45	24	.....	16
Pittsburgh	5	193	74.2	.....	.....	.....	13	64	.....	84	32
Great Lakes and Middle West	6	120	76.0	.....	.....	.....	.....	.....	68	24	28
Southern	2	21	76.0	.....	.....	.....	.....	.....	10	8	3
Total	17	419	74.4	.....	.....	.....	13	109	102	116	79
1912.											
Eastern	4	86	73.6	.....	.....	.....	.....	26	44	.....	16
Pittsburgh	5	167	78.2	.....	.....	.....	.....	.....	.....	123	44
Great Lakes and Middle West	6	126	76.4	.....	.....	.....	.....	.....	68	24	34
Southern	2	24	77.0	.....	.....	.....	.....	.....	10	8	6
Total	17	403	76.6	.....	.....	.....	.....	26	122	155	100

STOCK CRANEMEN.

1910.											
Eastern	3	7	74.6	.....	1	.....	.....	2	.....	.....	4
Pittsburgh	4	34	77.3	.....	.....	.....	.....	.....	4	30	.....
Great Lakes and Middle West	4	26	82.2	.....	.....	.....	.....	.....	4	.....	22
Southern	2	8	78.0	.....	.....	.....	.....	.....	4	.....	4
Total	13	75	78.8	.....	1	.....	.....	2	12	30	30
1911.											
Eastern	3	9	72.6	.....	1	.....	.....	4	.....	.....	4
Pittsburgh	4	30	72.9	.....	.....	.....	.....	12	.....	18	.....
Great Lakes and Middle West	4	24	80.0	.....	.....	.....	.....	.....	4	8	12
Southern	2	7	75.4	.....	.....	.....	.....	.....	3	4	.....
Total	13	70	75.6	.....	1	.....	.....	16	7	30	16
1912.											
Eastern	3	8	78.0	.....	.....	.....	.....	.....	4	.....	4
Pittsburgh	4	26	76.4	.....	.....	.....	.....	.....	.....	22	4
Great Lakes and Middle West	4	24	80.0	.....	.....	.....	.....	.....	4	8	12
Southern	2	8	75.0	.....	.....	.....	.....	.....	4	4	.....
Total	13	66	77.7	.....	.....	.....	.....	.....	12	34	20

CHARGING-MACHINE OPERATORS.

1910.											
Eastern	4	14	73.6	.....	.....	.....	.....	6	4	.....	4
Pittsburgh	5	28	78.0	.....	.....	.....	.....	.....	4	18	6
Great Lakes and Middle West	6	22	78.0	.....	.....	.....	.....	.....	10	2	10
Southern	2	9	74.7	.....	.....	.....	.....	.....	7	.....	2
Total	17	73	76.8	.....	.....	.....	.....	6	25	20	22

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

CHARGING-MACHINE OPERATORS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.											
Eastern	4	14	73.8	.....	.....	.....	.....	10	.....	.....	4
Pittsburgh	5	28	74.5	.....	.....	.....	.....	8	.....	16	4
Great Lakes and Middle West	6	24	75.5	.....	.....	.....	.....	.....	14	6	4
Southern	2	6	74.0	.....	.....	.....	.....	.....	4	2	.....
Total	17	72	74.7	.....	.....	.....	.....	18	18	24	12
1912.											
Eastern	4	14	73.8	.....	.....	.....	.....	10	.....	.....	4
Pittsburgh	5	28	77.1	.....	.....	.....	.....	.....	8	12	8
Great Lakes and Middle West	6	24	75.0	.....	.....	.....	.....	.....	16	4	4
Southern	2	6	74.0	.....	.....	.....	.....	.....	4	2	.....
Total	17	72	75.5	.....	.....	.....	.....	10	28	18	16

DOOR OPERATORS.

1910.											
Eastern	3	30	72.6	.....	.....	.....	.....	20	.....	.....	10
Pittsburgh	4	60	74.4	.....	.....	.....	.....	.....	32	28	.....
Great Lakes and Middle West	6	64	79.1	.....	.....	.....	.....	.....	22	8	34
Southern	2	11	74.2	.....	.....	.....	.....	.....	9	.....	2
Total	15	165	75.9	.....	.....	.....	.....	20	63	36	46
1911.											
Eastern	3	28	74.0	.....	.....	.....	.....	10	8	.....	10
Pittsburgh	4	60	74.1	.....	.....	.....	.....	24	.....	28	8
Great Lakes and Middle West	6	62	76.3	.....	.....	.....	.....	.....	30	20	12
Southern	2	10	82.8	.....	.....	.....	.....	.....	.....	2	8
Total	15	160	75.5	.....	.....	.....	.....	34	38	50	38
1912.											
Eastern	3	26	74.6	.....	.....	.....	.....	8	8	.....	10
Pittsburgh	4	57	75.6	.....	.....	.....	.....	24	.....	17	16
Great Lakes and Middle West	6	64	75.9	.....	.....	.....	.....	.....	36	14	14
Southern	2	10	82.8	.....	.....	.....	.....	.....	.....	2	8
Total	15	157	76.0	.....	.....	.....	.....	32	44	33	48

MELTERS' HELPERS, FIRST.

1910.											
Eastern	4	54	74.5	.....	.....	.....	.....	24	.....	20	10
Pittsburgh	5	148	78.5	.....	.....	.....	.....	.....	12	104	32
Great Lakes and Middle West	6	106	79.0	.....	.....	.....	.....	.....	38	12	56
Southern	2	33	74.9	.....	.....	.....	.....	.....	25	.....	8
Total	17	341	77.7	.....	.....	.....	.....	24	75	136	106
1911.											
Eastern	4	56	74.4	.....	.....	.....	.....	10	16	20	10
Pittsburgh	5	150	74.1	.....	.....	.....	.....	48	.....	102	.....
Great Lakes and Middle West	6	112	76.1	.....	.....	.....	.....	.....	56	36	20
Southern	2	20	82.8	.....	.....	.....	.....	.....	.....	6	14
Total	17	338	75.3	.....	.....	.....	.....	58	72	164	44

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

MELTERS' HELPERS, FIRST—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1912.											
Eastern	4	52	74.8	.....	.....	.....	.....	8	14	20	10
Pittsburgh	5	153	76.5	.....	.....	.....	.....	.....	.....	141	12
Great Lakes and Middle West	6	120	76.0	.....	.....	.....	.....	.....	68	24	28
Southern	2	22	82.9	.....	.....	.....	.....	.....	.....	6	16
Total	17	347	76.5	.....	.....	.....	.....	8	82	191	66

MELTERS' HELPERS, SECOND.

1910.											
Eastern	4	58	71.8	.....	.....	.....	.....	28	20	.....	10
Pittsburgh	5	148	76.9	.....	.....	.....	.....	.....	52	64	32
Great Lakes and Middle West	6	108	78.9	.....	.....	.....	.....	.....	40	12	56
Southern	2	25	75.8	.....	.....	.....	.....	.....	17	.....	8
Total	17	339	76.6	.....	.....	.....	.....	28	129	76	106
1911.											
Eastern	4	56	72.6	.....	.....	.....	.....	30	16	.....	10
Pittsburgh	5	150	73.2	.....	.....	.....	.....	88	.....	28	34
Great Lakes and Middle West	6	109	76.0	.....	.....	.....	.....	.....	55	36	18
Southern	2	20	82.2	.....	.....	.....	.....	.....	.....	6	14
Total	17	335	74.5	.....	.....	.....	.....	118	71	70	76
1912.											
Eastern	4	52	72.9	.....	.....	.....	.....	28	14	.....	10
Pittsburgh	5	154	75.7	.....	.....	.....	.....	40	48	20	46
Great Lakes and Middle West	6	119	76.0	.....	.....	.....	.....	.....	67	24	28
Southern	2	22	82.4	.....	.....	.....	.....	.....	.....	6	16
Total	17	347	75.8	.....	.....	.....	.....	68	129	50	100

MELTERS' HELPERS, THIRD.

1910.											
Eastern	4	62	71.6	.....	.....	.....	.....	30	22	.....	10
Pittsburgh	5	165	77.8	.....	.....	.....	.....	.....	29	104	32
Great Lakes and Middle West	6	130	77.7	.....	.....	.....	.....	.....	62	12	56
Southern	2	36	74.7	.....	.....	.....	.....	.....	28	.....	8
Total	17	393	76.5	.....	.....	.....	.....	30	141	116	106
1911.											
Eastern	4	57	72.6	.....	.....	.....	.....	30	17	.....	10
Pittsburgh	5	174	73.4	.....	.....	.....	.....	48	24	100	2
Great Lakes and Middle West	6	133	75.2	.....	.....	.....	.....	.....	79	36	18
Southern	2	30	73.2	.....	.....	.....	.....	.....	24	6	.....
Total	17	394	73.9	.....	.....	.....	.....	78	144	142	30
1912.											
Eastern	4	53	72.9	.....	.....	.....	.....	28	15	.....	10
Pittsburgh	5	176	75.6	.....	.....	.....	.....	.....	.....	162	14
Great Lakes and Middle West	6	137	75.5	.....	.....	.....	.....	.....	85	24	28
Southern	2	48	76.8	.....	.....	.....	.....	.....	26	6	16
Total	17	414	75.4	.....	.....	.....	.....	28	126	192	68

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

STOPPER SETTERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	18	76.7	.....	.....	.....	.....	.....	4	14	.....
Great Lakes and Middle West	4	8	74.1	.....	.....	.....	.....	.....	5	3	.....
Southern	2	4	78.0	.....	.....	.....	.....	.....	2	.....	2
Total	10	30	76.2	.....	.....	.....	.....	.....	11	17	2
1911.											
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	18	72.8	.....	.....	.....	.....	8	.....	10	.....
Great Lakes and Middle West	4	7	74.4	.....	.....	.....	.....	.....	4	3	.....
Southern	2	4	75.0	.....	.....	.....	.....	.....	2	2	.....
Total	10	29	73.5	.....	.....	.....	.....	8	6	15	.....
1912.											
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	18	76.5	.....	.....	.....	.....	.....	.....	16	2
Great Lakes and Middle West	4	7	74.4	.....	.....	.....	.....	.....	4	3	.....
Southern	2	4	75.0	.....	.....	.....	.....	.....	2	2	.....
Total	10	29	75.8	.....	.....	.....	.....	.....	6	21	2

STEEL POURERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	3	7	71.8	.....	.....	.....	.....	5	.....	.....	2
Pittsburgh	4	18	74.0	.....	.....	.....	.....	.....	12	6	.....
Great Lakes and Middle West	5	14	78.0	.....	.....	.....	.....	.....	6	2	6
Southern	2	8	76.5	.....	.....	.....	.....	.....	5	.....	3
Total	14	47	75.3	.....	.....	.....	.....	5	23	8	11
1911.											
Eastern	3	6	73.8	.....	.....	.....	.....	2	2	.....	2
Pittsburgh	4	18	71.5	.....	.....	.....	.....	8	.....	10	.....
Great Lakes and Middle West	5	14	76.3	.....	.....	.....	.....	.....	6	6	2
Southern	2	6	74.0	.....	.....	.....	.....	.....	4	2	.....
Total	14	44	73.7	.....	.....	.....	.....	10	12	18	4
1912.											
Eastern	3	6	73.8	.....	.....	.....	.....	2	2	.....	2
Pittsburgh	4	18	75.2	.....	.....	.....	.....	8	.....	8	2
Great Lakes and Middle West	5	16	76.5	.....	.....	.....	.....	.....	8	4	4
Southern	2	6	74.0	.....	.....	.....	.....	.....	4	2	.....
Total	14	46	75.3	.....	.....	.....	.....	10	14	14	8

MOLD CAPPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	18	74.0	.....	.....	.....	.....	.....	12	6	.....
Great Lakes and Middle West	2	8	78.0	.....	.....	.....	.....	.....	4	.....	4
Southern	2	14	78.9	.....	.....	.....	.....	.....	6	.....	8
Total	8	40	76.5	.....	.....	.....	.....	.....	22	6	12

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

MOLD CAPPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.											
Eastern											
Pittsburgh	4	18	71.5					8		10	
Great Lakes and Middle West	2	8	78.0						4		4
Southern	2	12	75.0						6	6	
Total	8	38	74.0					8	10	16	4
1912.											
Eastern											
Pittsburgh	4	18	75.2					8		8	2
Great Lakes and Middle West	2	10	79.2						4		6
Southern	2	14	74.6						8	6	
Total	8	42	75.9					8	12	14	8

LADLE CRANEMEN.

1910.											
Eastern	4	18	72.6					8	6		4
Pittsburgh	5	36	78.1						4	26	6
Great Lakes and Middle West	5	29	79.4						10	2	17
Southern	2	7	75.4						5		2
Total	16	90	77.2					8	25	28	29
1911.											
Eastern	4	15	73.1					9	2		4
Pittsburgh	5	36	73.4					12	10	10	4
Great Lakes and Middle West	5	27	77.3						11	8	8
Southern	2	8	73.5						6	2	
Total	16	86	74.6					21	29	20	16
1912.											
Eastern	4	15	73.5					9	2		4
Pittsburgh	5	36	76.1						10	18	8
Great Lakes and Middle West	5	31	78.2						11	8	12
Southern	2	8	73.5						6	2	
Total	16	90	76.2					9	29	28	24

INGOT STRIPPERS.

1910.											
Eastern	2	12	70.7					10		2	
Pittsburgh	5	17	71.3	3					6	6	2
Great Lakes and Middle West	6	13	78.5						6		7
Southern	2	4	78.0						2		2
Total	15	46	73.7	3				10	14	8	11
1911.											
Eastern	2	18	72.8						16	2	
Pittsburgh	5	17	68.1		3			4	6	4	
Great Lakes and Middle West	6	12	75.0						8	2	2
Southern	2	4	75.0						2	2	
Total	15	51	71.9		3			4	32	10	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

INGOT STRIPPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1912.											
Eastern	2	16	72.9	.....	.....	.....	.....	.....	14	2	.....
Pittsburgh	5	17	69.5	.....	3	.....	.....	.....	10	4	.....
Great Lakes and Middle West	6	12	75.0	.....	.....	.....	.....	.....	8	2	2
Southern	2	4	75.0	.....	.....	.....	.....	.....	2	2	.....
Total	15	49	72.4	.....	3	.....	.....	.....	34	10	2

ENGINEERS, LOCOMOTIVE.

1910.											
Eastern	3	14	72.9	.....	.....	.....	.....	6	.....	4	4
Pittsburgh	4	51	78.6	.....	.....	.....	.....	.....	3	40	8
Great Lakes and Middle West	5	22	80.7	.....	.....	.....	.....	.....	4	4	14
Southern	2	20	73.2	.....	.....	.....	.....	.....	18	.....	2
Total	14	107	77.3	.....	.....	.....	.....	6	25	48	28
1911.											
Eastern	4	19	73.2	.....	.....	.....	.....	15	.....	.....	4
Pittsburgh	4	52	73.6	.....	.....	.....	.....	28	.....	24	.....
Great Lakes and Middle West	5	22	77.4	.....	.....	.....	.....	.....	6	12	4
Southern	2	21	73.7	.....	.....	.....	.....	.....	16	4	1
Total	15	114	74.3	.....	.....	.....	.....	43	22	40	9
1912.											
Eastern	4	18	73.3	.....	.....	.....	.....	14	.....	.....	4
Pittsburgh	4	50	74.6	.....	.....	.....	.....	2	8	40	.....
Great Lakes and Middle West	5	22	76.4	.....	.....	.....	.....	.....	10	8	4
Southern	2	21	77.1	.....	.....	.....	.....	.....	4	16	1
Total	15	111	75.2	.....	.....	.....	.....	16	22	64	9

SWITCHMEN.

1910.											
Eastern	3	15	72.4	.....	.....	.....	.....	7	.....	4	4
Pittsburgh	4	52	78.5	.....	.....	.....	.....	.....	4	40	8
Great Lakes and Middle West	5	22	80.7	.....	.....	.....	.....	.....	4	4	14
Southern	2	20	74.4	.....	.....	.....	.....	.....	16	.....	4
Total	14	109	77.3	.....	.....	.....	.....	7	24	48	30
1911.											
Eastern	4	19	73.2	.....	.....	.....	.....	15	.....	.....	4
Pittsburgh	4	54	73.6	.....	.....	.....	.....	30	.....	24	.....
Great Lakes and Middle West	5	22	77.4	.....	.....	.....	.....	.....	6	12	4
Southern	2	22	74.2	.....	.....	.....	.....	.....	16	4	2
Total	15	117	74.4	.....	.....	.....	.....	45	22	40	10
1912.											
Eastern	4	18	73.3	.....	.....	.....	.....	14	.....	.....	4
Pittsburgh	4	52	74.5	.....	.....	.....	.....	4	8	40	.....
Great Lakes and Middle West	5	22	76.4	.....	.....	.....	.....	.....	10	8	4
Southern	2	20	74.4	.....	.....	.....	.....	.....	14	4	2
Total	15	112	74.6	.....	.....	.....	.....	18	32	52	10

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Concluded.

OPEN-HEARTH FURNACES—Continued.

LABORERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	4	194	64.9	.....	29	8	20	111	18	2	6
Pittsburgh	5	485	75.5	.....	.....	.....	16	97	33	325	14
Great Lakes and Middle West	6	286	78.4	.....	.....	.....	27	4	52	38	165
Southern	2	73	78.4	.....	.....	.....	.....	.....	34	.....	39
Total	17	1,038	74.5	.....	29	8	63	212	137	365	224
1911.											
Eastern	4	95	62.7	.....	33	.....	31	17	2	6	6
Pittsburgh	5	434	73.2	.....	2	.....	15	162	20	231	4
Great Lakes and Middle West	6	245	76.6	.....	.....	.....	4	13	93	59	76
Southern	2	32	79.1	.....	.....	.....	5	.....	2	2	23
Total	17	806	73.2	.....	35	.....	55	192	117	298	109
1912.											
Eastern	4	116	62.3	.....	51	.....	25	24	2	8	6
Pittsburgh	5	458	75.6	.....	.....	5	12	78	25	326	12
Great Lakes and Middle West	6	286	77.4	.....	.....	.....	3	13	102	58	110
Southern	2	37	75.6	.....	.....	.....	12	.....	2	.....	23
Total	17	897	74.4	.....	51	5	52	115	131	392	151

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912.

OPEN-HEARTH FURNACES—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

STOCKERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
4 plants	1910	98	70.8	.....	.....	.....	.....	60	22	.....	16
	1911	85	72.2	.....	.....	.....	.....	45	24	.....	16
	1912	86	73.6	.....	.....	.....	.....	26	44	.....	16
Pittsburgh:											
5 plants	1910	213	77.9	.....	.....	.....	.....	.....	31	154	28
	1911	193	74.2	.....	.....	.....	13	64	.....	84	32
	1912	167	78.2	.....	.....	.....	.....	.....	.....	123	44
Great Lakes and Middle West:											
6 plants	1910	117	79.5	.....	.....	.....	.....	.....	44	.....	73
	1911	120	76.0	.....	.....	.....	.....	.....	68	24	28
	1912	126	76.4	.....	.....	.....	.....	.....	68	24	34
Southern:											
2 plants	1910	20	78.0	.....	.....	.....	.....	.....	10	.....	10
	1911	21	76.0	.....	.....	.....	.....	.....	10	8	3
	1912	24	77.0	.....	.....	.....	.....	.....	10	8	6

STOCK CRANEMEN.

Eastern:											
3 plants	1910	7	74.6	.....	1	.....	.....	2	.....	.....	4
	1911	9	72.6	.....	1	.....	.....	4	.....	.....	4
	1912	8	78.0	.....	.....	.....	.....	.....	4	.....	4
Pittsburgh:											
4 plants	1910	34	77.3	.....	.....	.....	.....	.....	4	30	.....
	1911	30	72.9	.....	.....	.....	.....	12	.....	18	.....
	1912	26	76.4	.....	.....	.....	.....	.....	.....	22	4
Great Lakes and Middle West:											
4 plants	1910	26	82.2	.....	.....	.....	.....	.....	4	.....	22
	1911	24	80.0	.....	.....	.....	.....	.....	4	8	12
	1912	24	80.0	.....	.....	.....	.....	.....	4	8	12
Southern:											
2 plants	1910	8	78.0	.....	.....	.....	.....	.....	4	.....	4
	1911	7	75.4	.....	.....	.....	.....	.....	3	4	.....
	1912	8	75.0	.....	.....	.....	.....	.....	4	4	.....

CHARGING-MACHINE OPERATORS.

Eastern:											
4 plants	1910	14	73.6	.....	.....	.....	.....	6	4	.....	4
	1911	14	73.8	.....	.....	.....	.....	10	.....	.....	4
	1912	14	73.8	.....	.....	.....	.....	10	.....	.....	4
Pittsburgh:											
5 plants	1910	28	78.0	.....	.....	.....	.....	.....	4	18	6
	1911	28	74.5	.....	.....	.....	.....	8	.....	16	4
	1912	28	77.1	.....	.....	.....	.....	.....	8	12	8
Great Lakes and Middle West:											
6 plants	1910	22	78.0	.....	.....	.....	.....	.....	10	2	10
	1911	24	75.5	.....	.....	.....	.....	.....	14	6	4
	1912	24	75.0	.....	.....	.....	.....	.....	16	4	4
Southern:											
2 plants	1910	9	74.7	.....	.....	.....	.....	.....	7	.....	2
	1911	6	74.0	.....	.....	.....	.....	.....	4	2	.....
	1912	6	74.0	.....	.....	.....	.....	.....	4	2	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

DOOR OPERATORS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
3 plants	1910	30	72.6	.....	.....	.....	.....	20	.....	.....	10
	1911	28	74.0	.....	.....	.....	.....	10	8	.....	10
	1912	26	74.6	.....	.....	.....	.....	8	8	.....	10
Pittsburgh:											
4 plants	1910	60	74.4	.....	.....	.....	.....	.....	32	28	.....
	1911	60	74.1	.....	.....	.....	.....	24	.....	28	8
	1912	57	75.6	.....	.....	.....	.....	24	.....	17	16
Great Lakes and Middle West:											
6 plants	1910	64	79.1	.....	.....	.....	.....	.....	22	8	34
	1911	62	76.3	.....	.....	.....	.....	.....	30	20	12
	1912	64	75.9	.....	.....	.....	.....	.....	36	14	14
Southern:											
2 plants	1910	11	74.2	.....	.....	.....	.....	.....	9	.....	2
	1911	10	82.8	.....	.....	.....	.....	.....	.....	2	8
	1912	10	82.8	.....	.....	.....	.....	.....	.....	2	8

MELTERS' HELPERS, FIRST.

Eastern:											
4 plants	1910	54	74.5	.....	.....	.....	.....	24	.....	20	10
	1911	56	74.4	.....	.....	.....	.....	10	16	20	10
	1912	52	74.8	.....	.....	.....	.....	8	14	20	10
Pittsburgh:											
5 plants	1910	148	78.5	.....	.....	.....	.....	.....	12	104	32
	1911	150	74.1	.....	.....	.....	.....	48	.....	102	.....
	1912	153	76.5	.....	.....	.....	.....	.....	.....	141	12
Great Lakes and Middle West:											
6 plants	1910	106	79.0	.....	.....	.....	.....	.....	38	12	56
	1911	112	76.1	.....	.....	.....	.....	.....	56	36	20
	1912	120	76.0	.....	.....	.....	.....	.....	68	24	28
Southern:											
2 plants	1910	33	74.9	.....	.....	.....	.....	.....	25	.....	8
	1911	20	82.8	.....	.....	.....	.....	.....	.....	6	14
	1912	22	82.9	.....	.....	.....	.....	.....	.....	6	16

MELTERS' HELPERS, SECOND.

Eastern:											
4 plants	1910	58	71.8	.....	.....	.....	.....	28	20	.....	10
	1911	56	72.6	.....	.....	.....	.....	30	16	.....	10
	1912	52	72.9	.....	.....	.....	.....	28	14	.....	10
Pittsburgh:											
5 plants	1910	148	76.9	.....	.....	.....	.....	.....	52	64	32
	1911	150	73.2	.....	.....	.....	.....	88	.....	28	34
	1912	154	75.7	.....	.....	.....	.....	40	48	20	46
Great Lakes and Middle West:											
6 plants	1910	108	78.9	.....	.....	.....	.....	.....	40	12	56
	1911	109	76.0	.....	.....	.....	.....	.....	55	36	18
	1912	119	76.0	.....	.....	.....	.....	.....	67	24	28
Southern:											
2 plants	1910	25	75.8	.....	.....	.....	.....	.....	17	.....	8
	1911	20	82.2	.....	.....	.....	.....	.....	.....	6	14
	1912	22	82.4	.....	.....	.....	.....	.....	.....	6	16

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

MELTERS' HELPERS, THIRD.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
4 plants	1910	62	71.6	.....	.....	.....	.....	30	22	.....	10
	1911	57	72.6	.....	.....	.....	.....	30	17	.....	10
	1912	53	72.9	.....	.....	.....	.....	28	15	.....	10
Pittsburgh:											
5 plants	1910	165	77.8	.....	.....	.....	.....	.....	29	104	32
	1911	174	73.4	.....	.....	.....	.....	48	24	100	2
	1912	176	75.6	.....	.....	.....	.....	.....	.....	162	14
Great Lakes and Middle West:											
6 plants	1910	130	77.7	.....	.....	.....	.....	.....	62	12	56
	1911	133	75.2	.....	.....	.....	.....	.....	79	36	18
	1912	137	75.5	.....	.....	.....	.....	.....	85	24	28
Southern:											
2 plants	1910	36	74.7	.....	.....	.....	.....	.....	28	.....	8
	1911	30	73.2	.....	.....	.....	.....	.....	24	6	.....
	1912	48	76.8	.....	.....	.....	.....	.....	26	6	16

STOPPER SETTERS.

Pittsburgh:											
4 plants	1910	18	76.7	.....	.....	.....	.....	.....	4	14	.....
	1911	18	72.8	.....	.....	.....	.....	8	.....	10	.....
	1912	18	76.5	.....	.....	.....	.....	.....	.....	16	2
Great Lakes and Middle West:											
4 plants	1910	8	74.1	.....	.....	.....	.....	.....	5	3	.....
	1911	7	74.4	.....	.....	.....	.....	.....	4	3	.....
	1912	7	74.4	.....	.....	.....	.....	.....	4	3	.....
Southern:											
2 plants	1910	4	78.0	.....	.....	.....	.....	.....	2	.....	2
	1911	4	75.0	.....	.....	.....	.....	.....	2	2	.....
	1912	4	75.0	.....	.....	.....	.....	.....	2	2	.....

STEEL POURERS.

Eastern:											
3 plants	1910	7	71.8	.....	.....	.....	.....	5	.....	.....	2
	1911	6	73.8	.....	.....	.....	.....	2	2	.....	2
	1912	6	73.8	.....	.....	.....	.....	2	2	.....	2
Pittsburgh:											
4 plants	1910	18	74.0	.....	.....	.....	.....	.....	12	6	.....
	1911	18	71.5	.....	.....	.....	.....	8	.....	10	.....
	1912	18	75.2	.....	.....	.....	.....	8	.....	8	2
Great Lakes and Middle West:											
5 plants	1910	14	78.0	.....	.....	.....	.....	.....	6	2	6
	1911	14	76.3	.....	.....	.....	.....	.....	6	6	2
	1912	16	76.5	.....	.....	.....	.....	.....	8	4	4
Southern:											
2 plants	1910	8	76.5	.....	.....	.....	.....	.....	5	.....	3
	1911	6	74.0	.....	.....	.....	.....	.....	4	2	.....
	1912	6	74.0	.....	.....	.....	.....	.....	4	2	.....

MOLD CAPPERS.

Pittsburgh:											
4 plants	1910	18	74.0	.....	.....	.....	.....	.....	12	6	.....
	1911	18	71.5	.....	.....	.....	.....	8	.....	10	.....
	1912	18	75.2	.....	.....	.....	.....	8	.....	8	2
Great Lakes and Middle West:											
2 plants	1910	8	78.0	.....	.....	.....	.....	.....	4	.....	4
	1911	8	78.0	.....	.....	.....	.....	.....	4	.....	4
	1912	10	79.2	.....	.....	.....	.....	.....	4	.....	6
Southern:											
2 plants	1910	14	78.9	.....	.....	.....	.....	.....	6	.....	8
	1911	12	75.0	.....	.....	.....	.....	.....	6	6	.....
	1912	14	74.6	.....	.....	.....	.....	.....	8	6	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

OPEN-HEARTH FURNACES—Continued.

LADLE CRANEMEN.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
4 plants	1910	18	72.6	.....	.....	.....	.....	8	6	.....	4
	1911	15	73.1	.....	.....	.....	.....	9	2	.....	4
	1912	15	73.5	.....	.....	.....	.....	9	2	.....	4
Pittsburgh:											
5 plants	1910	36	78.1	.....	.....	.....	.....	.....	4	26	6
	1911	36	73.4	.....	.....	.....	.....	12	10	10	4
	1912	36	76.1	.....	.....	.....	.....	.....	10	18	8
Great Lakes and Middle West:											
5 plants	1910	29	79.4	.....	.....	.....	.....	.....	10	2	17
	1911	27	77.3	.....	.....	.....	.....	.....	11	8	8
	1912	31	78.2	.....	.....	.....	.....	.....	11	8	12
Southern:											
2 plants	1910	7	75.4	.....	.....	.....	.....	.....	5	.....	2
	1911	8	73.5	.....	.....	.....	.....	.....	6	2	.....
	1912	8	73.5	.....	.....	.....	.....	.....	6	2	.....

INGOT STRIPPERS.

Eastern:											
2 plants	1910	12	70.7	.....	.....	.....	.....	10	.....	2	.....
	1911	18	72.8	.....	.....	.....	.....	.....	16	2	.....
	1912	16	72.9	.....	.....	.....	.....	.....	14	2	.....
Pittsburgh:											
5 plants	1910	17	71.3	3	.....	.....	.....	.....	6	6	2
	1911	17	68.1	.....	3	.....	.....	4	6	4	.....
	1912	17	69.5	.....	3	.....	.....	.....	10	4	.....
Great Lakes and Middle West:											
6 plants	1910	13	78.5	.....	.....	.....	.....	.....	6	.....	7
	1911	12	75.0	.....	.....	.....	.....	.....	8	2	2
	1912	12	75.0	.....	.....	.....	.....	.....	8	2	2
Southern:											
2 plants	1910	4	78.0	.....	.....	.....	.....	.....	2	.....	2
	1911	4	75.0	.....	.....	.....	.....	.....	2	2	.....
	1912	4	75.0	.....	.....	.....	.....	.....	2	2	.....

ENGINEERS, LOCOMOTIVE.

Eastern:											
3 plants	1910	14	72.9	.....	.....	.....	.....	6	.....	4	4
	1911	15	73.7	.....	.....	.....	.....	11	.....	.....	4
4 plants	1911	19	73.2	.....	.....	.....	.....	15	.....	.....	4
	1912	18	73.3	.....	.....	.....	.....	14	.....	.....	4
Pittsburgh:											
4 plants	1910	51	78.6	.....	.....	.....	.....	.....	3	40	8
	1911	52	73.6	.....	.....	.....	.....	28	.....	24	.....
	1912	50	74.6	.....	.....	.....	.....	2	8	40	.....
Great Lakes and Middle West:											
5 plants	1910	22	80.7	.....	.....	.....	.....	.....	4	4	14
	1911	22	77.4	.....	.....	.....	.....	.....	6	12	4
	1912	22	76.4	.....	.....	.....	.....	.....	10	8	4
Southern:											
2 plants	1910	20	73.2	.....	.....	.....	.....	.....	18	.....	2
	1911	21	73.7	.....	.....	.....	.....	.....	16	4	1
	1912	21	77.1	.....	.....	.....	.....	.....	4	16	1

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Concluded.

OPEN-HEARTH FURNACES—Concluded.

SWITCHMEN.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
3 plants	1910	15	72.4	.....	.....	.....	.....	7	.....	4	4
	1911	15	73.7	.....	.....	.....	.....	11	.....	.....	4
4 plants	1911	19	73.2	.....	.....	.....	.....	15	.....	.....	4
	1912	18	73.3	.....	.....	.....	.....	14	.....	.....	4
Pittsburgh:											
4 plants	1910	52	78.5	.....	.....	.....	.....	.....	4	40	8
	1911	54	73.6	.....	.....	.....	.....	30	.....	24	.....
	1912	52	74.5	.....	.....	.....	.....	4	8	40	.....
Great Lakes and Middle West:											
5 plants	1910	22	80.7	.....	.....	.....	.....	.....	4	4	14
	1911	22	77.4	.....	.....	.....	.....	.....	6	12	4
	1912	22	76.4	.....	.....	.....	.....	.....	10	8	4
Southern:											
2 plants	1910	20	74.4	.....	.....	.....	.....	.....	16	.....	4
	1911	22	74.2	.....	.....	.....	.....	.....	16	4	2
	1912	20	74.4	.....	.....	.....	.....	.....	14	4	2

LABORERS.

Eastern:											
4 plants	1910	194	64.9	.....	29	8	20	111	18	2	6
	1911	95	62.7	.....	33	.....	31	17	2	6	6
	1912	116	62.3	.....	51	.....	25	24	2	8	6
Pittsburgh:											
5 plants	1910	485	75.5	.....	.....	.....	16	97	33	325	14
	1911	434	73.2	.....	2	.....	15	162	20	231	4
	1912	458	75.6	.....	.....	5	12	78	25	326	12
Great Lakes and Middle West:											
6 plants	1910	286	78.4	.....	.....	.....	27	4	52	38	165
	1911	245	76.6	.....	.....	.....	4	13	93	59	76
	1912	286	77.4	.....	.....	.....	3	13	102	58	110
Southern:											
2 plants	1910	73	78.4	.....	.....	.....	.....	.....	34	.....	39
	1911	32	79.1	.....	.....	.....	5	.....	2	2	23
	1912	37	75.6	.....	.....	.....	12	.....	2	.....	23

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

BLOOMING MILLS.

SUMMARY.

Summary figures relating to the blooming-mill department of the iron and steel industry are given with figures for other departments in the introductory summary on pages 7 to 15. An explanation of the scope of the investigation and of the methods employed is given on pages 16 to 22.

Briefly summarized, the average full-time weekly earnings of employees in the blooming-mill department in 1912 were 5.8 per cent higher than in 1910 and 4.7 per cent higher than in 1911. The average full-time hours of labor per week in 1912 were the same as in 1911 and 0.6 per cent lower than in 1910. The average rate of wages or earnings per hour in 1912 was 6.7 per cent higher than in 1910 and 5.6 per cent higher than in 1911.

The most significant facts concerning the several occupations of the blooming-mill department are summarized in the table below. Data are presented from identical plants for the years 1910, 1911, and 1912. Referring to the first occupation presented, laborers, direct comparison can be made of data for 19 identical plants from 1910 to 1912, inclusive. The first line of the table is read as follows: In 1910, the 19 blooming mills from which reports were obtained employed 449 laborers whose average full-time hours of work were 74.1 per week. For 16.2 per cent of the 449 laborers the full-time hours per week were over 48 or under 72; for 53.9 per cent, 72 per week; for 5.6 per cent, over 72 or under 84; and for 24.3 per cent, 84 hours per week. The average rate of wages or earnings per hour of laborers in the year considered (1910) was $0.162. Of the total number, 10 per cent received 12 or under 14 cents per hour; 13.4 per cent, 14 or under 16 cents; and 76.6 per cent, 16 or under 18 cents per hour. The average full-time weekly earnings were $11.97.

The other lines of the table may be read in the same manner.

Referring to the last column of the table, it is seen that in 19 plants the average full-time weekly earnings of laborers were $11.97 in 1910. In 1911 there was an advance to $12.02, and in 1912 a further advance to $12.13. Comparing the average full-time weekly earnings for 1912 of the several occupations, it is seen that the lowest average was that of laborers, which was $12.13, and the highest that of rollers, which was $41.41.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—BLOOMING MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 72	72	Over 72 and under 84	84		12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	
Laborers:														
19 plants	1910	449	74.1	.....	16.2	53.9	5.6	24.3	$0.162	10.0	13.4	76.6	.....	$11.97
	1911	363	73.7	.....	14.4	59.0	8.8	17.9	.163	12.4	8.3	79.3	.....	12.02
	1912	396	73.8	.....	14.1	56.6	11.1	18.2	.164	10.4	.8	88.9	.....	12.13
										12 and under 16 cts.	16 and under 20 cts.	20 and under 30 cts.	30 and under 40 cts.	
Bottom makers' helpers:														
12 plants	1910	47	70.3	.....	12.8	78.7	.....	8.5	.251	8.5	17.0	48.9	25.5	17.23
	1911	46	70.3	.....	19.5	65.2	10.9	4.3	.243	8.7	15.2	54.4	21.7	16.83
	1912	46	70.4	.....	19.5	60.9	15.2	4.3	.257	4.3	13.0	56.6	26.1	17.84
Shearmen's helpers:														
18 plants	1910	100	70.9	3.0	17.0	56.0	10.0	14.0	.218	14.0	35.0	42.0	9.0	15.15
	1911	96	69.5	3.1	24.0	58.3	12.5	2.1	.217	13.5	26.0	57.3	3.1	14.90
	1912	93	70.1	.....	24.8	62.4	10.8	2.2	.237	1.1	31.2	49.4	18.3	16.44
										16 and under 20 cts.	20 and under 30 cts.	30 and under 40 cts.	40 cts. and over.	
Bottom makers:														
16 plants	1910	60	70.5	.....	13.3	80.0	.....	6.7	.335	3.3	40.0	26.7	30.0	23.26
	1911	55	70.8	.....	16.4	67.3	9.1	7.3	.331	3.6	23.6	47.3	25.5	23.24
	1912	58	70.9	.....	15.5	69.0	8.6	6.9	.347	3.4	25.8	36.2	34.5	24.44
Heaters' helpers:														
11 plants	1910	34	73.4	.....	20.6	35.3	26.5	17.6	.344	5.9	44.2	23.5	26.4	24.62
	1911	34	73.5	.....	20.6	35.3	17.6	26.5	.363	5.9	29.4	32.4	32.4	26.71
	1912	34	73.5	.....	20.6	35.3	17.6	26.5	.354	5.9	23.5	26.5	44.1	25.58
Shearmen:														
19 plants	1910	48	70.0	6.3	14.6	58.3	12.5	8.3	.303	.....	50.0	43.8	6.3	20.85
	1911	46	69.4	6.5	19.5	60.9	8.7	4.3	.306	8.7	30.4	50.0	10.9	20.96
	1912	46	69.5	6.5	19.5	60.9	8.7	4.3	.328	.....	32.6	45.7	21.7	22.39
Table men:														
13 plants	1910	36	69.3	8.3	19.4	55.6	5.6	11.1	.271	16.7	55.6	19.4	8.3	18.03
	1911	35	68.7	.....	34.2	48.6	11.4	5.7	.254	22.8	51.4	25.7	.....	17.05
	1912	35	68.7	.....	34.2	48.6	11.4	5.7	.285	14.3	45.8	31.4	8.6	19.00
										20 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 cts. and over.	
Manipulators:														
19 plants	1910	52	68.4	11.5	19.3	55.8	5.8	7.7	.365	38.5	28.8	23.1	9.6	24.21
	1911	48	67.9	6.3	29.2	50.0	10.4	4.2	.350	39.6	27.1	27.1	6.3	23.26
	1912	7	66.6	12.8	25.6	46.8	10.6	4.3	.390	27.7	29.8	23.4	19.1	24.94
Pit cranemen:														
18 plants	1910	99	69.6	.....	29.3	50.5	4.0	16.2	.315	43.4	34.3	22.2	.....	21.41
	1911	95	68.8	.....	33.6	49.5	6.3	10.5	.309	41.1	54.7	4.2	.....	21.01
	1912	97	68.7	.....	37.2	46.4	6.2	10.3	.328	35.0	50.5	14.4	.....	22.33
Roll engineers:														
18 plants	1910	42	70.9	7.1	16.6	45.2	16.7	14.3	.392	11.9	40.5	35.7	11.9	27.12
	1911	40	70.9	7.5	20.0	37.5	20.0	15.0	.385	10.0	57.5	17.5	15.0	26.66
	1912	41	69.2	14.6	19.5	31.7	19.5	14.6	.428	.....	58.5	4.9	36.6	28.65

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—BLOOMING MILLS—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 72	72	Over 72 and under 84	84		30 and under 40 cts.	40 and under 50 cts.	50 and under 18 cts.	60 cts. and over.	
Heaters:														
19 plants	1910	51	73.4	.....	9.8	60.8	7.8	21.6	$0.521	7.8	29.4	45.1	17.6	$37.88
	1911	49	73.3	.....	16.3	51.0	12.2	20.4	.512	8.2	34.7	44.9	12.3	37.50
	1912	53	73.0	.....	15.1	58.5	7.5	18.9	.556	.....	26.4	43.4	30.2	40.42
Roller.:														
18 plants	1910	46	67.6	13.0	17.4	63.0	.....	6.5	.605	.....	34.8	23.9	41.3	40.00
	1911	41	66.6	7.3	29.2	58.5	4.9	.....	.585	.....	26.8	31.7	41.5	38.49
	1912	42	65.0	14.3	28.6	52.4	4.8	.....	.652	.....	16.7	31.0	52.4	41.41

To aid in making a comparison of the data over a period of several years which will give an accurate measure of the changes throughout the period, relative or index numbers have been computed from the averages of the preceding table for the full-time hours per week, rates of wages per hour, and full-time weekly earnings of each occupation from 1910 to 1912, inclusive. Such figures appear in the table following. These relative or index numbers are simply percentages for which the data for 1912 are taken as the base, or 100 per cent. The relative for each year is the per cent which the average for that year is of the average for 1912. For example, the relative full-time weekly earnings of pit cranemen in 1910 were 95.9, as compared with 100 in 1912; that is, the full-time weekly earnings of pit cranemen in 1910 were 95.9 per cent of the full-time weekly earnings in this occupation in 1912. The method of computing relative numbers is explained on page 21.

The table following also shows for each occupation the per cent of increase or decrease in full-time hours per week, rates of wages per hour, and full-time weekly earnings in 1912, as compared with each specified year preceding. Thus the full-time weekly earnings of pit cranemen in 1912 were 4.3 per cent higher than in 1910 and 6.3 per cent higher than in 1911.

In other columns of the table is shown the per cent of change in each year as compared with the year immediately preceding. Thus the full-time weekly earnings of pit cranemen in 1911 were 1.9 per cent lower than in 1910, and 6.3 per cent higher in 1912 than in 1911. The other occupations and items of the table can be studied in like manner. The percentages of increase and decrease are computed from the relative numbers.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY OCCUPATIONS—BLOOMING MILLS.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.
Pit cranemen:									
1910	101.3	−1.3	.....	96.0	+ 4.2	.....	95.9	+ 4.3	.....
1911	100.1	− .1	−1.2	94.2	+ 6.2	− 1.9	94.1	+ 6.3	− 1.9
1912	100.0	.....	− .1	100.0	.....	+ 6.2	100.0	.....	+ 6.3
Heaters:									
1910	100.5	− .5	.....	93.7	+ 6.7	.....	93.7	+ 6.7	.....
1911	100.4	− .4	− .1	92.1	+ 8.6	− 1.7	92.8	+ 7.8	− 1.0
1912	100.0	.....	− .4	100.0	.....	+ 8.6	100.0	.....	+ 7.8
Heaters' helpers:									
1910	99.9	+ .1	.....	97.2	+ 2.9	.....	96.2	+ 4.0	.....
1911	100.0	(1)	+ .1	102.5	− 2.4	+ 5.5	104.4	− 4.2	+ 8.5
1912	100.0	.....	(1)	100.0	.....	− 2.4	100.0	.....	− 4.2
Bottom makers:									
1910	99.4	+ .6	.....	96.5	+ 3.6	.....	95.2	+ 5.0	.....
1911	99.9	+ .1	+ .5	95.4	+ 4.8	− 1.1	95.1	+ 5.2	− .1
1912	100.0	.....	+ .1	100.0	.....	+ 4.8	100.0	.....	+ 5.2
Bottom makers' helpers:									
1910	99.9	+ .1	.....	97.7	+ 2.4	.....	96.6	+ 3.5	.....
1911	99.9	+ .1	(1)	94.6	+ 5.7	− 3.2	94.3	+ 6.0	− 2.4
1912	100.0	.....	+ .1	100.0	.....	+ 5.7	100.0	.....	+ 6.0
Roll engineers:									
1910	102.5	−2.4	.....	91.6	+ 9.2	.....	94.7	+ 5.6	.....
1911	102.5	−2.4	(1)	90.0	+11.1	− 1.7	93.1	+ 7.4	− 1.7
1912	100.0	.....	−2.4	100.0	.....	+11.1	100.0	.....	+ 7.4
Rollers:									
1910	104.0	−3.8	.....	92.8	+ 7.8	.....	96.6	+ 3.5	.....
1911	102.5	−2.4	−1.4	89.7	+11.5	− 3.3	92.9	+ 7.6	− 3.8
1912	100.0	.....	−2.4	100.0	.....	+11.5	100.0	.....	+ 7.6
Manipulators:									
1910	102.7	−2.6	.....	93.6	+ 6.8	.....	97.1	+ 3.0	.....
1911	102.0	−2.0	− .7	89.7	+11.5	− 4.2	93.3	+ 7.2	− 3.9
1912	100.0	.....	−2.0	100.0	.....	+11.5	100.0	.....	+ 7.2
Table men:									
1910	100.9	− .9	.....	95.0	+ 5.3	.....	94.9	+ 5.4	.....
1911	100.0	(1)	− .9	89.1	+12.2	− 6.2	89.7	+11.5	− 5.5
1912	100.0	.....	(1)	100.0	.....	+12.2	100.0	.....	+11.5
Shearmen:									
1910	100.7	− .7	.....	92.4	+ 8.2	.....	93.1	+ 7.4	.....
1911	99.9	+ .1	− .8	93.3	+ 7.2	+ 1.0	93.6	+ 6.8	+ .5
1912	100.0	.....	+ .1	100.0	.....	+ 7.2	100.0	.....	+ 6.8
Shearmen's helpers:									
1910	101.1	−1.1	.....	91.6	+ 9.2	.....	92.2	+ 8.5	.....
1911	99.1	+ .9	−2.0	92.0	+ 8.7	− .4	90.6	+10.4	− 1.7
1912	100.0	.....	+ .9	100.0	.....	+ 8.7	100.0	.....	+10.4
Laborers:									
1910	100.4	− .4	.....	98.8	+ 1.2	.....	98.7	+ 1.3	.....
1911	99.9	+ .1	− .5	99.4	+ .6	+ .6	99.1	+ .9	+ .4
1912	100.0	.....	+ .1	100.0	.....	+ .6	100.0	.....	+ .9

[1] No change.

A like table of relative numbers and percentages is next shown for the blooming-mill department as a whole, as determined by a combination of the data for the several principal productive occupations of the department which are covered by this report. The method of computing the figures of this table is explained on page 22.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

From the table below, under "weekly earnings," it is seen that the relative full-time weekly earnings of the department as a whole in 1910 were 94.5 as compared with 100 in 1912. In other words, the full-time weekly earnings in 1910 were 94.5 per cent of such earnings in 1912. The relative increases to 95.5 in 1911, and in 1912, the base year, the relative was 100.

The next column shows that full-time weekly earnings in 1912 were 5.8 per cent higher than in 1910 and 4.7 per cent higher than in 1911.

The third column, under "weekly earnings," shows the per cent of increase or decrease in full-time weekly earnings each year as compared with the year immediately preceding. Thus the full-time weekly earnings in 1911 were 1.1 per cent higher than in 1910, and in 1912, 4.7 per cent higher than in 1911. The relative numbers and percentages for full-time hours per week and rates of wages per hour can be read in like manner.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, ALL OCCUPATIONS—BLOOMING MILLS.

Year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.
1910	100.6	−0.6	.....	93.7	+6.7	.....	94.5	+5.8	.....
1911	100.0	(1)	−0.6	94.7	+5.6	+1.1	95.5	+4.7	+1.1
1912	100.0	.....	(1)	100.0	.....	+5.6	100.0	.....	+4.7

[1] No change.

In considering weekly earnings it should be remembered that a reduction of hours tends to reduce weekly earnings just as an increase in wages per hour, of course, tends to increase them. Still another influence on average weekly earnings for the department must be considered, that is, the change in the relative number of employees in the several occupations from year to year. It is obvious that an increase in the relative number of employees in the lower-paid occupations or a decrease in the relative number of those in the higher-paid ones would tend to lower the average for all occupations, just as an increase in the relative number of employees in the higher-paid occupations or a decrease in the relative number in the lower-paid ones would tend to increase the average.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

The number and per cent of employees in blooming-mill plants whose customary working time per week was 5 days or turns, or 6 days, or 7 days, or variations thereof, are shown in the following table. The heading "5 days and 6 days alternately" indicates that the plants were running 6 days and 5 nights each week, being shut down for one day and a half each week, and that the employees reported under this heading worked 6 days one week and 5 nights the next. The heading "6 days and 7 days alternately" indicates that the plants were not in operation half a day in each week, the employees reported working 6 turns one week and 7 turns the next week.

The figures are presented for each district and for the four districts combined.

NUMBER AND PER CENT OF EMPLOYEES IN EACH DISTRICT WORKING EACH SPECIFIED NUMBER OF DAYS PER WEEK, BY YEARS, 1910 TO 1912—BLOOMING MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

District and number of plants.	Year.	Number of employees.	Number of employees whose customary working time per week was—					Per cent of employees whose customary working time per week was—				
			5 days.	5 days and 6 days alternately.	6 days.	6 days and 7 days alternately.	7 days.	5 days.	5 days and 6 days alternately.	6 days.	6 days and 7 days alternately.	7 days.
Eastern:												
3 plants	1910	110	.....	70	6	25	9	.....	63.6	5.5	22.7	8.2
	1911	97	.....	52	10	22	13	.....	53.6	10.3	22.7	13.4
	1912	95	.....	46	14	22	13	.....	48.4	14.7	23.2	13.7
Pittsburgh:												
8 plants	1910	522	.....	.....	426	83	13	.....	.....	81.6	15.9	2.5
	1911	480	.....	.....	355	86	39	.....	.....	74.0	17.9	8.1
	1912	493	.....	.....	354	92	47	.....	.....	71.8	18.7	9.5
Great Lakes and Middle West:												
6 plants	1910	346	.....	.....	205	2	139	.....	.....	59.2	.6	40.2
	1911	296	.....	.....	188	24	84	.....	.....	63.5	8.1	28.4
	1912	328	.....	.....	209	22	97	.....	.....	63.7	6.7	29.6
Southern:												
2 plants	1910	86	.....	.....	61	.....	25	.....	.....	70.9	.....	29.1
	1911	75	1	.....	49	12	13	1.3	.....	65.3	16.0	17.3
	1912	72	1	.....	55	12	4	1.4	.....	76.4	16.7	5.6
Total:												
19 plants	1910	1,064	.....	70	698	110	186	.....	6.6	65.6	10.3	17.5
	1911	948	1	52	602	144	149	.1	5.5	63.5	15.2	15.7
	1912	988	1	46	632	148	161	.1	4.7	64.0	15.0	16.3

In addition to the text tables presented in the summary, six general tables are presented for the blooming-mill department as follows:

Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1910 to 1912.

Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1910 to 1912.

Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1910 to 1912.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1910 to 1912.

Table V.—Average and classified full-time hours of work per week in each year, by districts, 1910 to 1912.

Table VI.—Average and classified full-time hours of work per week in each district, by years, 1910 to 1912.

In Tables I and IV, in addition to actual data, percentages computed therefrom are given. The data from these two tables are summarized in the text table on pages 212 and 213.

Tables III and VI repeat the data for the several districts given in Tables II and V, rearranged for the convenience of the reader.

A brief description of the function of the blooming mill is presented on page 24.

DESCRIPTION OF OCCUPATIONS.

The following description of occupations refers only to those occupations which appear in the tables of this report—these being nearly all of the principal productive occupations in the blooming-mill department.

The order in which the occupations are given follows that of the processes of manufacture.

PIT CRANEMEN.

Duties.—Operate the cranes used for charging the ingots into the soaking pits and for drawing them from the pits as directed by the heater and placing them either in the ingot car or on the roll table.

Nature of work.—The position is one of excessive heat as well as of discomfort from the gas fumes, particularly during the summer, because of the necessary position which the craneman must occupy directly over the soaking pits. For this reason it is customary to provide spell hands for the position during the hot weather, and in some cases to shorten the working hours considerably. The position is particularly bad if the crane cab is fixed directly over the tongs so that the craneman is exposed not only to the general heat from the pits but to the very much higher temperature that arises from the heated ingot and open pit. Much care has been taken in a number of plants to render the position more tolerable by an extensive use of asbestos and other nonconducting substances in the construction of the crane cab. In addition to its severity the occupation demands considerable skill to charge and draw ingots with the rapidity and accuracy required in the modern blooming mill.

HEATERS.

Duties.—Are responsible for and direct the charging and drawing of the ingots by the pit cranemen and the maintenance of a proper temperature in the special type of furnace used for heating ingots, known as "soaking pits." Either the heaters, or under their direc-

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

tion, the helpers, attend to the reversing of the gas in the regenerative chambers. Frequent inspections (or, to an increasing extent, pyrometric tests) are made of the temperature of the ingots in the separate pits, and on the basis of these tests or inspections the heaters must so regulate the temperature of the pits that there will always be ingots at the proper temperature for rolling. In many plants heaters keep a record for each ingot of the time of charging and drawing and of the chamber in which it was placed, although in some plants clerks are supplied to do this work. Also supervise and, to some extent, at times, assist in cleaning and repairing the pits and in the preparation of new bottoms.

Nature of work.—A highly skilled and very responsible position. As most of the decisions as to the temperature of the pits and ingots are made only on the heater's ability to judge by inspection, a knowledge which can be gained only by long practical experience, the difficulty of securing good men for the position will be appreciated.

HEATERS' HELPERS.

Duties.—Reverse the gas in the regenerative chambers of the pits and, under the direction of the heater, regulate the temperature; change the steel bits in the tongs of the pit crane, and in a few plants operate the nonautomatic pit crane tongs, although in some plants this is done by men in a separate occupation (pit tongs men), assist in repairs, and in general assist the heater in all his duties. In many plants they perform additional functions which are ordinarily given to separate occupations, such as make and repair bottoms, tap and clean out cinder, open and close the pit covers.

Nature of work.—Where the work consists only in reversing the gas and otherwise generally assisting the heater, the work is not heavy or severe. Where, however, the duties of the specialized occupations are also embraced, all the conditions of work peculiar to those occupations must be encountered.

BOTTOM MAKERS.

Duties.—Make, level, and repair the coke-dust bottoms of the "soaking pits." This work is done by throwing in coke dust from the top of the pits while there are no ingots in them and working the coke into an approximately level condition with long iron bars. This is usually done while the pits are heated. When the bottom becomes too deep or contains much molten metal and scale, the bottom makers dig the bottom out, using a long iron bar with a sharp flat head and a scraper for removing the cinder.

Nature of work.—The greater part of this work requires exposure to excessive heat, from which the men protect themselves by tying wet cloths, etc., over exposed parts and by wearing heavy shoes

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

with soles of wood. It is periodic in character, and they thus obtain relief from time to time. The making of bottoms under these necessary conditions is very severe and by no means unskillful work. The wage is, however, proportioned much more to the difficulty and severity of the work than to the knowledge and skill required.

BOTTOM MAKERS' HELPERS.

Duties.—Wheel coke dust needed in making bottoms, bring necessary tools, and assist in doing the harder and more exposed work of bottom making. In some plants they also perform the functions of cinder men.

Nature of work.—The work resembles that done by the bottom makers, the chief difference being that the bottom makers are more highly skilled and supervise the work.

ROLL ENGINEERS.

Duties.—Really fall into two distinct classes: (1) Engineers on reversing engines for two-high mills. In this case they must not only keep the engine in good running order and see to repairs (in which they are usually aided by assistants), but occupy a position in the roller's platform or "pulpit" alongside the rolls and with levers connected with the engine throttle reverse the direction of the engine after every passage of the ingot through the rolls. (2) Engineers on nonreversing engines for three-high mills. In this case they simply act as ordinary stationary engineers, maintaining the engine at proper speed and keeping it in good running order. They must be on hand at all times to stop and start the engine at the roller's signal.

Nature of work.—The engineer on reversing engines must be not only an engineer of high grade and capable of quick decision and action in emergencies, but also occupies a position which requires constant attention and which in summer is exposed to considerable heat. The engineer on nonreversing engines is usually a considerable distance from the heat of the rolls and has a great deal of time in which he is waiting for the roller's signals, but is otherwise unoccupied. The engineer on reversing engines frequently assists in roll changes, while the engineer on nonreversing engines does not.

ROLLERS.

Duties.—Operate rolls and are in charge of rolling crew during actual rolling and while changing rolls and making repairs. The nature and the difficulties of the rollers' duties vary widely with the different types of mills. In reversing blooming mills they operate the levers by which the distance between the upper and lower rolls is regulated, and also usually operate the levers controlling the direction and speed of rotation of the live rollers of the table. On three-high mills, where the distance between the rolls is fixed, the

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

rollers operate the apparatus tilting or lifting the table for raising the ingot from the lower to the upper pass, and also the levers controlling the live rollers of the table.

Nature of work.—The roller's position is one requiring considerable skill and long experience, but the work is not of such high grade in these mills, which turn out an unfinished product ("blooms," "billets," and "slabs"), as in the plate, standard rail, structural, light rail, and other shape mills, which turn out a finished article. The roller, however, is not valued so much for his services in tending the rolls while everything is going right as for his knowledge of what to do when there is trouble. In a mill where an ingot is being handled every minute or two and there are at times two ingots on the table at once, unremitting attention is required. In the case of a mill delay, as when there is no hot steel, he may rest, or he may have to work hard at repairing some broken part.

MANIPULATORS.

Duties.—Operate levers controlling a device by which ingots can be turned over or reversed or by which the ingot or bloom can be shifted laterally from one pass of the rolls to another.

Nature of work.—The work is much more skilled and requires longer experience than any description would indicate. The men become wonderfully expert in using the manipulators, and it is upon the quickness with which the operation of turning and shifting the ingot can be performed that the production of the mill largely depends. The manipulator assists in all roll changes and repairs not performed by millwrights.

TABLE MEN.

Duties.—Work alongside, or in a few cases, on the tables of the blooming mill and with long iron hooks guide the ingot or bloom into the right pass, or with a heavy iron tool with a square fork at the end which fits over a bloom, turns the bloom over when it is too small to be handled by the manipulator. In a few cases, using a similar tool with a fork large enough to fit an ingot, they perform the functions described above for the manipulator. In some cases they operate an approach table or some form of conveyor or transfer in addition to the duties described above.

Nature of work.—This is very heavy manual labor. In the mills equipped with the best types of manipulators, the table man's services are required only from time to time, when the piece becomes unmanageable, and in this case the position is relieved of its worst conditions. Where it is necessary for table men to do all or the greater part of the work of handling the ingot or bloom, the position, even when frequently relieved by spell hands, is one of the most severe in the industry, because of the arduousness of the work and the exposure

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

to heat. There is also danger of serious injury to the eyes as well as minor burns from flying metal, which is driven back with considerable force when the ingot enters the rolls.

SHEARMEN.

Duties.—Operate large shears by which the end of the partially rolled ingot containing the "pipe" (a cavity formed in the molten metal by the gases contained in the metal) is removed; shear the ingot when rolled down to size into shorter pieces called "blooms" or "billets," according to their size and length, for use in the smaller rolling mills; supervise the entire shearing crew; and are responsible for keeping the shears and shear tables in proper working order. In many plants assist in roll changes.

Nature of work.—The work ordinarily falls into two parts: First, operating the roller table by which the piece is carried under the shears; and, second, setting the gauge which fixes the length of the piece and operating the lever controlling the mechanism (hydraulic, electric, or steam) by which the shear is made to cut the bloom or ingot. The operation does not require a great amount of skill, but the position is one of some responsibility, particularly in shearing crop ends so as to secure the maximum of good steel from each ingot rolled.

SHEARMEN'S HELPERS.

Duties.—Comprise two different classes: (1) Those who operate levers by which the gauge or stop against which the end of the bloom strikes to regulate the length, or levers for operating the "kick-off," a contrivance for knocking the sheared ends ("crop ends" or "bloom butts") off the shear table, or levers controlling the tables which carry the bloom away from the shears. (2) Unskilled men who drag the hot bloom butts or crop ends away from the shears with tongs and do any of the other required unskilled work around the shears.

Nature of work.—The various lever men are not highly skilled, but their work requires very constant attention, and they may be regarded generally as in training for positions as shearmen. The unskilled work is not very heavy, as the crop ends are comparatively small, but it is rather hot work, particularly in summer, when the iron plates over which they drag the red-hot bloom ends become excessively hot. As a protection, heavy shoes with wooden soles are usually worn.

LABORERS.

Duties.—Include all the unskilled workmen not carried under one of the specific occupations.

Nature of work.—Diversified both as to the difficulty of the work and the conditions under which it is done. It is generally more or less intermittent in character.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912.

BLOOMING MILLS.

The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pit cranemen:																
18 plants...	1910	99	69.6	$0.315	$21.41	.....	.....	.....	.....	21	22	34	22	.....	.....	.....
	1911	95	68.8	.309	21.01	.....	.....	.....	.....	9	30	52	4	.....	.....	.....
	1912	97	68.7	.328	22.33	.....	.....	.....	.....	7	27	49	14	.....	.....	.....
Heaters:																
19 plants...	1910	51	73.4	.521	37.88	.....	.....	.....	.....	.....	.....	4	15	23	7	2
	1911	49	73.3	.512	37.50	.....	.....	.....	.....	.....	.....	4	17	22	2	4
	1912	53	73.0	.556	40.42	.....	.....	.....	.....	.....	.....	.....	14	23	8	8
Heaters' helpers:																
11 plants...	1910	34	73.4	.344	24.62	.....	.....	.....	2	4	11	8	6	3	.....	.....
	1911	34	73.5	.363	26.71	.....	.....	.....	2	4	6	11	7	.....	4	.....
	1912	34	73.5	.354	25.58	.....	.....	.....	2	5	3	9	15	.....	.....	.....
Bottom makers:																
16 plants...	1910	60	70.5	.335	23.26	.....	.....	.....	2	10	14	16	16	2	.....	.....
	1911	55	70.8	.331	23.24	.....	.....	.....	2	6	7	26	14	.....	.....	.....
	1912	58	70.9	.347	24.44	.....	.....	.....	2	10	5	21	20	.....	.....	.....
Bottom makers' helpers:																
12 plants...	1910	47	70.3	.251	17.23	.....	4	8	.....	15	8	12	.....	.....	.....	.....
	1911	46	70.3	.243	16.83	.....	4	7	.....	9	16	10	.....	.....	.....	.....
	1912	46	70.4	.257	17.84	.....	2	6	.....	9	17	12	.....	.....	.....	.....
Roll engineers:																
18 plants...	1910	42	70.9	.392	27.12	.....	.....	.....	.....	.....	5	17	15	2	3	.....
	1911	40	70.9	.385	26.66	.....	.....	.....	.....	.....	4	23	7	6	.....	.....
	1912	41	69.2	.428	28.65	.....	.....	.....	.....	.....	.....	24	2	13	2	.....
Rollers:																
18 plants...	1910	46	67.6	.605	40.00	.....	.....	.....	.....	.....	.....	.....	16	11	11	8
	1911	41	66.6	.585	38.49	.....	.....	.....	.....	.....	.....	.....	11	13	12	5
	1912	42	65.0	.652	41.41	.....	.....	.....	.....	.....	.....	.....	7	13	7	15
Manipulators:																
19 plants...	1910	52	68.4	.365	24.21	.....	.....	.....	.....	4	16	15	12	2	3	.....
	1911	48	67.9	.350	23.26	.....	.....	.....	.....	5	14	13	13	3	.....	.....
	1912	47	66.6	.390	24.94	.....	.....	.....	.....	3	10	14	11	4	5	.....
Table men:																
13 plants...	1910	36	69.3	.271	18.03	.....	.....	6	.....	10	10	7	.....	3	.....	.....
	1911	35	68.7	.254	17.05	.....	.....	6	2	9	9	9	.....	.....	.....	.....
	1912	35	68 7	.285	19.00	.....	.....	4	1	8	8	11	3	.....	.....	.....
Shearmen:																
19 plants...	1910	48	70.0	.303	20.85	.....	.....	.....	.....	11	13	21	.....	3	.....	.....
	1911	46	69.4	.306	20.96	.....	.....	.....	4	7	7	23	5	.....	.....	.....
	1912	46	69.5	.328	22.39	.....	.....	.....	.....	7	8	21	8	2	.....	.....
Shearmen's helpers:																
18 plants...	1910	100	70.9	.218	15.15	.....	14	18	17	26	16	9	.....	.....	.....	.....
	1911	96	69.5	.217	14.90	1	12	17	8	29	26	3	.....	.....	.....	.....
	1912	93	70.1	.237	16.44	.....	1	20	9	27	19	17	.....	.....	.....	.....
Laborers:																
19 plants...	1910	449	74.1	.162	11.97	45	60	344	.....	.....	.....	.....	.....	.....	.....	.....
	1911	363	73.7	.163	12.02	45	30	288	.....	.....	.....	.....	.....	.....	.....	.....
	1912	396	73.8	.164	12.13	41	3	352	.....	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Concluded.

BLOOMING MILLS—Continued.

PER CENT.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pit cranemen:																
18 plants...	1910	99	69.6	$0.315	$21.41	.....	.....	.....	.....	21.2	22.2	34.3	22.2	.....	.....	.....
	1911	95	68.8	.309	21.01	.....	.....	.....	.....	9.5	31.6	54.7	4.2	.....	.....	.....
	1912	97	68.7	.328	22.33	.....	.....	.....	.....	7.2	27.8	50.5	14.4	.....	.....	.....
Heaters:																
19 plants...	1910	51	73.4	.521	37.88	.....	.....	.....	.....	.....	.....	7.8	29.4	45.1	13.7	3.9
	1911	49	73.3	.512	37.50	.....	.....	.....	.....	.....	.....	8.2	34.7	44.9	4.1	8.2
	1912	53	73.0	.556	40.42	.....	.....	.....	.....	.....	.....	.....	26.4	43.4	15.1	15.1
Heaters' helpers:																
11 plants...	1910	34	73.4	.344	24.62	.....	.....	.....	5.9	11.8	32.4	23.5	17.6	8.8	.....	.....
	1911	34	73.5	.363	26.71	.....	.....	.....	5.9	11.8	17.6	32.4	20.6	.....	11.8	.....
	1912	34	73.5	.354	25.58	.....	.....	.....	5.9	14.7	8.8	26.5	44.1	.....	.....	.....
Bottom makers:																
16 plants...	1910	60	70.5	.335	23.26	.....	.....	.....	3.3	16.7	23.3	26.7	26.7	3.3	.....	.....
	1911	55	70.8	.331	23.24	.....	.....	.....	3.6	10.9	12.7	47.3	25.5	.....	.....	.....
	1912	58	70.9	.347	24.44	.....	.....	.....	3.4	17.2	8.6	36.2	34.5	.....	.....	.....
Bottom makers' helpers:																
12 plants...	1910	47	70.3	.251	17.23	.....	8.5	17.0	.....	31.9	17.0	25.5	.....	.....	.....	.....
	1911	46	70.3	.243	16.83	.....	8.7	15.2	.....	19.6	34.8	21.7	.....	.....	.....	.....
	1912	46	70.4	.257	17.84	.....	4.3	13.0	.....	19.6	37.0	26.1	.....	.....	.....	.....
Roll engineers:																
18 plants...	1910	42	70.9	.392	27.12	.....	.....	.....	.....	.....	11.9	40.5	35.7	4.8	7.1	.....
	1911	40	70.9	.385	26.66	.....	.....	.....	.....	.....	10.0	57.5	17.5	15.0	.....	.....
	1912	41	69.2	.428	28.65	.....	.....	.....	.....	.....	.....	58.5	4.9	31.7	4.9	.....
Rollers:																
18 plants...	1910	46	67.6	.605	40.00	.....	.....	.....	.....	.....	.....	.....	34.8	23.9	23.9	17.4
	1911	41	66.6	.585	38.49	.....	.....	.....	.....	.....	.....	.....	26.8	31.7	29.3	12.2
	1912	42	65.0	.652	41.41	.....	.....	.....	.....	.....	.....	.....	16.7	31.0	16.7	35.7
Manipulators:																
19 plants...	1910	52	68.4	.365	24.21	.....	.....	.....	.....	7.7	30.8	28.8	23.1	3.8	5.8	.....
	1911	48	67.9	.350	23.26	.....	.....	.....	.....	10.4	29.2	27.1	27.1	6.3	.....	.....
	1912	47	66.6	.390	24.94	.....	.....	.....	.....	6.4	21.3	29.8	23.4	8.5	10.6	.....
Table men:																
13 plants...	1910	36	69.3	.271	18.03	.....	.....	16.7	.....	27.8	27.8	19.4	.....	8.3	.....	.....
	1911	35	68.7	.254	17.05	.....	.....	17.1	5.7	25.7	25.7	25.7	.....	.....	.....	.....
	1912	35	68.7	.285	19.00	.....	.....	11.4	2.9	22.9	22.9	31.4	8.6	.....	.....	.....
Shearmen:																
19 plants...	1910	48	70.0	.303	20.85	.....	.....	.....	.....	22.9	27.1	43.8	.....	6.3	.....	.....
	1911	46	69.4	.306	20.96	.....	.....	.....	8.7	15.2	15.2	50.0	10.9	.....	.....	.....
	1912	46	69.5	.328	22.39	.....	.....	.....	.....	15.2	17.4	45.7	17.4	4.3	.....	.....
Shearmen's helpers:																
18 plants...	1910	100	70.9	.218	15.15	.....	14.0	18.0	17.0	26.0	16.0	9.0	.....	.....	.....	.....
	1911	96	69.5	.217	14.90	1.0	12.5	17.7	8.3	30.2	27.1	3.1	.....	.....	.....	.....
	1912	93	70.1	.237	16.44	.....	1.1	21.5	9.7	29.0	20.4	18.3	.....	.....	.....	.....
Laborers:																
19 plants...	1910	449	74.1	.162	11.97	10.0	13.4	76.6	.....	.....	.....	.....	.....	.....	.....	.....
	1911	363	73.7	.163	12.02	12.4	8.3	79.3	.....	.....	.....	.....	.....	.....	.....	.....
	1912	396	73.8	.164	12.13	10.4	.8	88.9	.....	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS 1910 TO 1912.

BLOOMING MILLS—Continued.

PIT CRANEMEN.

[The abbreviation "G. L. and M. W." stands for "Great Lakes and Middle West."]

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	3	15	69.2	$0.266	$18.31	....	....	....	....	11	....	4	....	....	....	....
Pittsburgh	7	48	64.0	.360	22.62	....	....	....	....	4	4	18	22	....	....	....
G. L. and M. W.	6	30	77.6	.266	20.60	....	....	....	....	6	18	6	....	....	....	....
Southern	2	6	76.0	.311	23.57	....	....	....	....	....	....	6	....	....	....	....
Total	18	99	69.6	.315	21.41	....	....	....	....	21	22	34	22	....	....	....
1911.																
Eastern	3	14	68.7	.311	21.25	....	....	....	....	....	4	10	....	....	....	....
Pittsburgh	7	48	64.0	.332	21.15	....	....	....	....	....	14	30	4	....	....	....
G. L. and M. W.	6	27	76.4	.266	20.19	....	....	....	....	9	12	6	....	....	....	....
Southern	2	6	74.0	.310	22.92	....	....	....	....	....	....	6	....	....	....	....
Total	18	95	68.8	.309	21.01	....	....	....	....	9	30	52	4	....	....	....
1912.																
Eastern	3	14	68.7	.283	19.25	....	....	....	....	6	4	2	2	....	....	....
Pittsburgh	7	48	63.5	.350	22.14	....	....	....	....	....	9	31	8	....	....	....
G. L. and M. W.	6	29	76.1	.304	22.98	....	....	....	....	1	14	14	....	....	....	....
Southern	2	6	74.0	.380	27.96	....	....	....	....	....	....	2	4	....	....	....
Total	18	97	68.7	.328	22.33	....	....	....	....	7	27	49	14	....	....	....

HEATERS.

1910.																
Eastern	3	6	76.3	$0.505	$38.18	....	....	....	....	....	....	....	2	4	....	....
Pittsburgh	8	19	70.0	.594	41.44	....	....	....	....	....	....	....	2	8	7	2
G. L. and M. W.	6	19	75.2	.444	33.17	....	....	....	....	....	....	4	10	5	....	....
Southern	2	7	75.4	.545	40.78	....	....	....	....	....	....	....	1	6	....	....
Total	19	51	73.4	.521	37.88	....	....	....	....	....	....	4	15	23	7	2
1911.																
Eastern	3	6	75.4	.572	43.73	....	....	....	....	....	....	....	2	2	....	2
Pittsburgh	8	19	69.8	.561	39.28	....	....	....	....	....	....	....	5	10	2	2
G. L. and M. W.	6	20	75.0	.451	33.55	....	....	....	....	....	....	4	9	7	....	....
Southern	2	4	78.0	.499	39.52	....	....	....	....	....	....	....	1	3	....	....
Total	19	49	73.3	.512	37.50	....	....	....	....	....	....	4	17	22	2	4
1912.																
Eastern	3	6	75.4	.541	40.15	....	....	....	....	....	....	....	2	2	2	....
Pittsburgh	8	19	69.2	.629	43.75	....	....	....	....	....	....	....	2	7	5	5
G. L. and M. W.	6	24	74.5	.497	36.82	....	....	....	....	....	....	....	9	13	1	1
Southern	2	4	78.0	.584	46.61	....	....	....	....	....	....	....	1	1	....	2
Total	19	53	73.0	.556	40.42	....	....	....	....	....	....	....	14	23	8	8

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

BLOOMING MILLS—Continued.

HEATERS' HELPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	3	13	75.8	$0.337	$25.54						7	4	2			
Pittsburgh	5	13	68.2	.384	25.12				2	4	4		4	3		
G. L. and M. W.	2	5	81.6	.240	19.44							1				
Southern	1	3	72.0	.376	27.07							3				
Total	11	34	73.4	.344	24.62				2	4	11	8	6	3		
1911.																
Eastern	3	14	75.9	.415	32.29						2	8			4	
Pittsburgh	5	13	67.1	.353	23.23				2		4		7			
G. L. and M. W.	2	5	84.0	.240	20.16					4		1				
Southern	1	2	72.0	.370	26.64							2				
Total	11	34	73.5	.363	26.71				2	4	6	11	7		4	
1912.																
Eastern	3	14	75.9	.372	28.21							8	6			
Pittsburgh	5	13	67.1	.357	23.34				2	1	3		7			
G. L. and M. W.	2	5	84.0	.240	20.16					4		1				
Southern	1	2	72.0	.490	35.28								2			
Total	11	34	73.5	.354	25.58				2	5	3	9	15			

BOTTOM MAKERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	1	2	65.5	$0.248	$16.24					2						
Pittsburgh	8	34	68.2	.403	27.31						2	14	16	2		
G. L. and M. W.	5	17	73.4	.248	18.09				2	6	7	2				
Southern	2	7	75.4	.243	18.17					2	5					
Total	16	60	70.5	.335	23.26				2	10	14	16	16	2		
1911.																
Eastern	1	2	65.5	.332	21.75							2				
Pittsburgh	8	34	69.4	.373	25.86						2	18	14			
G. L. and M. W.	5	15	73.6	.261	19.10				2	4	3	6				
Southern	2	4	75.0	.231	17.23					2	2					
Total	16	55	70.8	.331	23.24				2	6	7	26	14			
1912.																
Eastern	1	2	65.5	.227	14.87					2						
Pittsburgh	8	34	69.4	.399	27.74						2	13	19			
G. L. and M. W.	5	17	73.4	.273	19.90				2	6	3	5	1			
Southern	2	5	74.4	.288	21.19					2		3				
Total	16	58	70.9	.347	24.44				2	10	5	21	20			

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

BLOOMING MILLS—Continued.

BOTTOM MAKERS' HELPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern																
Pittsburgh	6	30	67.7	$0.290	$19.35			2		8	8	12				
G. L. and M. W.	4	11	74.2	.188	13.85		2	2		7						
Southern	2	6	76.0	.169	12.79		2	4								
Total	12	47	70.3	.251	17.23		4	8		15	8	12				
1911.																
Eastern																
Pittsburgh	6	30	68.2	.274	18.56			2		2	16	10				
G. L. and M. W.	4	11	74.2	.192	14.16		2	2		7						
Southern	2	5	74.4	.166	12.33		2	3								
Total	12	46	70.3	.243	16.83		4	7		9	16	10				
1912.																
Eastern																
Pittsburgh	6	30	68.3	.283	19.16			2		3	13	12				
G. L. and M. W.	4	11	74.2	.212	15.64			4		3	4					
Southern	2	5	74.4	.200	14.75		2			3						
Total	12	46	70.4	.257	17.84		2	6		9	17	12				

ROLL ENGINEERS.

1910.																
Eastern	3	6	70.2	$0.358	$24.98							4	2			
Pittsburgh	7	18	65.8	.447	28.55							8	5	2	3	
G. L. and M. W.	6	15	77.2	.343	26.27						5	4	6			
Southern	2	3	72.0	.376	27.07							1	2			
Total	18	42	70.9	.392	27.12						5	17	15	2	3	
1911.																
Eastern	3	6	69.3	.400	27.50							4		2		
Pittsburgh	7	18	66.2	.427	27.47							8	6	4		
G. L. and M. W.	6	13	78.0	.327	25.36						4	8	1			
Southern	2	3	72.0	.358	25.78							3				
Total	18	40	70.9	.385	26.66						4	23	7	6		
1912.																
Eastern	3	6	69.3	.385	26.43							4	2			
Pittsburgh	7	19	62.7	.476	28.63							8		9	2	
G. L. and M. W.	6	13	78.0	.371	28.75							11		2		
Southern	2	3	72.0	.455	32.78							1		2		
Total	18	41	69.2	.428	28.65							24	2	13	2	

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

BLOOMING MILLS—Continued.

ROLLERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	2	5	65.7	$0.488	$32.04	.....	.....	.....	.....	.....	.....	.....	3	2	.....	.....
Pittsburgh	8	21	62.1	.705	42.89	.....	.....	.....	.....	.....	.....	.....	2	4	7	8
G. L. and M. W.	6	16	74.3	.528	39.07	.....	.....	.....	.....	.....	.....	.....	9	3	4	.....
Southern	2	4	72.0	.535	38.48	.....	.....	.....	.....	.....	.....	.....	2	2	.....	.....
Total	18	46	67.6	.605	40.00	.....	.....	.....	.....	.....	.....	.....	16	11	11	8
1911.																
Eastern	2	4	64.4	.531	34.30	.....	.....	.....	.....	.....	.....	.....	2	.....	2	.....
Pittsburgh	8	21	62.3	.649	40.14	.....	.....	.....	.....	.....	.....	.....	2	4	10	5
G. L. and M. W.	6	13	73.0	.505	36.85	.....	.....	.....	.....	.....	.....	.....	6	7	.....	.....
Southern	2	3	72.0	.551	39.67	.....	.....	.....	.....	.....	.....	.....	1	2	.....	.....
Total	18	41	66.6	.585	38.49	.....	.....	.....	.....	.....	.....	.....	11	13	12	5
1912.																
Eastern	2	4	64.4	.564	36.31	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....
Pittsburgh	8	22	59.5	.725	42.11	.....	.....	.....	.....	.....	.....	.....	2	2	6	12
G. L. and M. W.	6	13	73.0	.548	39.99	.....	.....	.....	.....	.....	.....	.....	4	7	1	1
Southern	2	3	72.0	.683	49.18	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2
Total	18	42	65.0	.652	41.41	.....	.....	.....	.....	.....	.....	.....	7	13	7	15

MANIPULATORS.

1910.																
Eastern	3	9	68.6	$0.368	$25.03	.....	.....	.....	.....	.....	2	5	2	.....	.....	.....
Pittsburgh	8	21	62.1	.445	26.86	.....	.....	.....	.....	.....	4	2	10	2	3	.....
G. L. and M. W.	6	19	74.6	.281	20.95	.....	.....	.....	.....	4	9	6	.....	.....	.....	.....
Southern	2	3	72.0	.331	23.83	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....
Total	19	52	68.4	.365	24.21	.....	.....	.....	.....	4	16	15	12	2	3	.....
1911.																
Eastern	3	8	68.3	.364	24.68	.....	.....	.....	.....	.....	.....	4	4	.....	.....	.....
Pittsburgh	8	21	62.3	.412	25.31	.....	.....	.....	.....	.....	6	3	9	3	.....	.....
G. L. and M. W.	6	16	74.4	.265	19.69	.....	.....	.....	.....	5	7	4	.....	.....	.....	.....
Southern	2	3	72.0	.337	24.26	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....
Total	19	48	67.9	.350	23.26	.....	.....	.....	.....	5	14	13	13	3	.....	.....
1912.																
Eastern	3	6	69.3	.343	23.48	.....	.....	.....	.....	.....	2	2	2	.....	.....	.....
Pittsburgh	8	22	59.5	.468	26.70	.....	.....	.....	.....	.....	2	5	6	4	5	.....
G. L. and M. W.	6	16	74.4	.299	22.23	.....	.....	.....	.....	3	5	7	1	.....	.....	.....
Southern	2	3	72.0	.408	29.35	.....	.....	.....	.....	.....	1	.....	2	.....	.....	.....
Total	19	47	66.6	.390	24.94	.....	.....	.....	.....	3	10	14	11	4	5	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

BLOOMING MILLS—Continued.

TABLE MEN.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	2	6	70.3	$0.275	$19.12					2	4					
Pittsburgh	5	16	63.5	.341	20.82						6	7		3		
G. L. and M. W.	4	9	77.3	.189	14.77			4		5						
Southern	2	5	72.0	.190	13.68			2		3						
Total	13	36	69.3	.271	18.03			6		10	10	7		3		
1911.																
Eastern	2	6	68.5	.260	17.88						6					
Pittsburgh	5	16	63.8	.305	19.12					4	3	9				
G. L. and M. W.	4	9	76.1	.189	14.47			4	2	3						
Southern	2	4	72.0	.185	13.32			2		2						
Total	13	35	68.7	.254	17.05			6	2	9	9	9				
1912.																
Eastern	2	6	68.5	.312	21.21						2	4				
Pittsburgh	5	16	63.8	.338	20.91					2	4	7	3			
G. L. and M. W.	4	9	76.1	.203	15.50			2	1	6						
Southern	2	4	72.0	.221	15.88			2			2					
Total	13	35	68.7	.285	19.00			4	1	8	8	11	3			

SHEARMEN.

1910.																
Eastern	3	6	70.2	$0.318	$22.37						2	4				
Pittsburgh	8	24	66.5	.329	21.36					4	4	13		3		
G. L. and M. W.	6	15	75.2	.257	19.33					7	6	2				
Southern	2	3	72.0	.295	21.26						1	2				
Total	19	48	70.0	.303	20.85					11	13	21		3		
1911.																
Eastern	3	6	69.3	.350	24.39					2		2	2			
Pittsburgh	8	24	66.3	.318	20.68				4		2	15	3			
G. L. and M. W.	6	13	74.8	.268	19.98					5	4	4				
Southern	2	3	72.0	.286	20.59						1	2				
Total	19	46	69.4	.306	20.96				4	7	7	23	5			
1912.																
Eastern	3	6	69.3	.325	22.72						1	5				
Pittsburgh	8	24	66.3	.339	21.78					4	2	12	4	2		
G. L. and M. W.	6	13	74.8	.303	22.65					3	4	4	2			
Southern	2	3	72.0	.354	25.49						1		2			
Total	19	46	69.5	.328	22.39					7	8	21	8	2		

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Concluded.

BLOOMING MILLS—Continued.

SHEARMEN'S HELPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	2	10	68.6	$0.218	$15.06	....	....	2	....	6	2	....	....	....	....	....
Pittsburgh	8	50	67.1	.247	16.22	....	....	8	7	14	12	9	....	....	....	....
G. L. and M. W.	6	34	76.9	.180	13.74	....	12	6	10	6	....	....	....	....	....	....
Southern	2	6	72.0	.200	14.40	....	2	2	....	....	2	....	....	....	....	....
Total	18	100	70.9	.218	15.15	....	14	18	17	26	16	9	....	....	....	....
1911.																
Eastern	2	10	66.4	.194	13.13	1	1	4	....	2	2	....	....	....	....	....
Pittsburgh	8	50	66.7	.240	15.86	....	....	8	2	17	20	3	....	....	....	....
G. L. and M. W.	6	30	74.9	.188	13.98	....	10	2	6	10	2	....	....	....	....	....
Southern	2	6	72.0	.200	14.39	....	1	3	....	....	2	....	....	....	....	....
Total	18	96	69.5	.217	14.90	1	12	17	8	29	26	3	....	....	....	....
1912.																
Eastern	2	10	66.4	.235	15.74	....	....	1	1	4	4	....	....	....	....	....
Pittsburgh	8	49	68.0	.248	16.58	....	....	8	2	15	15	9	....	....	....	....
G. L. and M. W.	6	28	74.7	.217	16.12	....	....	10	6	6	....	6	....	....	....	....
Southern	2	6	72.0	.250	17.99	....	1	1	....	2	....	2	....	....	....	....
Total	18	93	70.1	.237	16.44	....	1	20	9	27	19	17	....	....	....	....

LABORERS.

1910.																
Eastern	3	32	68.3	$0.143	$9.70	10	22	....	....	....	....	....	....	....	....	....
Pittsburgh	8	228	72.0	.168	12.13	2	....	226	....	....	....	....	....	....	....	....
G. L. and M. W.	6	156	77.6	.163	12.58	....	38	118	....	....	....	....	....	....	....	....
Southern	2	33	78.2	.131	10.20	33	....	....	....	....	....	....	....	....	....	....
Total	19	449	74.1	.162	11.97	45	60	344	....	....	....	....	....	....	....	....
1911.																
Eastern	3	21	65.7	.139	9.04	12	5	4	....	....	....	....	....	....	....	....
Pittsburgh	8	186	72.5	.170	12.32	1	....	185	....	....	....	....	....	....	....	....
G. L. and M. W.	6	124	76.1	.166	12.58	....	25	99	....	....	....	....	....	....	....	....
Southern	2	32	76.9	.132	10.12	32	....	....	....	....	....	....	....	....	....	....
Total	19	363	73.7	.163	12.02	45	30	288	....	....	....	....	....	....	....	....
1912.																
Eastern	3	21	64.7	.141	9.01	12	3	6	....	....	....	....	....	....	....	....
Pittsburgh	8	197	73.1	.169	12.37	1	....	196	....	....	....	....	....	....	....	....
G. L. and M. W.	6	150	76.1	.167	12.70	....	....	150	....	....	....	....	....	....	....	....
Southern	2	28	73.7	.131	9.65	28	....	....	....	....	....	....	....	....	....	....
Total	19	396	73.8	.164	12.13	41	3	352	....	....	....	....	....	....	....	....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912.

BLOOMING MILLS—Continued.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West." The figures set opposite each bracketed group of years are for identical plants.]

PIT CRANEMEN.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
3 plants	1910	15	69.2	$0.266	$18.31	.....	.....	.....	.....	11	.....	4	.....	.....	.....	.....
	1911	14	68.7	.311	21.25	.....	.....	.....	.....	.....	4	10	.....	.....	.....	.....
	1912	14	68.7	.283	19.25	.....	.....	.....	.....	6	4	2	2	.....	.....	.....
Pittsburgh:																
7 plants	1910	48	64.0	.360	22.62	.....	.....	.....	.....	4	4	18	22	.....	.....	.....
	1911	48	64.0	.332	21.15	.....	.....	.....	.....	.....	14	30	4	.....	.....	.....
	1912	48	63.5	.350	22.14	.....	.....	.....	.....	.....	9	31	8	.....	.....	.....
G.L.and M.W.:																
6 plants	1910	30	77.6	.266	20.60	.....	.....	.....	.....	6	18	6	.....	.....	.....	.....
	1911	27	76.4	.266	20.19	.....	.....	.....	.....	9	12	6	.....	.....	.....	.....
	1912	29	76.1	.304	22.98	.....	.....	.....	.....	1	14	14	.....	.....	.....	.....
Southern:																
2 plants	1910	6	76.0	.311	23.57	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....
	1911	6	74.0	.310	22.92	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....
	1912	6	74.0	.380	27.96	.....	.....	.....	.....	.....	.....	2	4	.....	.....	.....

HEATERS.

Eastern:																
3 plants	1910	6	76.3	$0.505	$38.18	.....	.....	.....	.....	.....	.....	.....	2	4	.....	.....
	1911	6	75.4	.572	43.73	.....	.....	.....	.....	.....	.....	.....	2	2	.....	2
	1912	6	75.4	.541	40.15	.....	.....	.....	.....	.....	.....	.....	2	2	2	.....
Pittsburgh:																
8 plants	1910	19	70.0	.594	41.44	.....	.....	.....	.....	.....	.....	.....	2	8	7	2
	1911	19	69.8	.561	39.28	.....	.....	.....	.....	.....	.....	.....	5	10	2	2
	1912	19	69.2	.629	43.75	.....	.....	.....	.....	.....	.....	.....	2	7	5	5
G.L.and M.W.:																
6 plants	1910	19	75.2	.444	33.17	.....	.....	.....	.....	.....	.....	4	10	5	.....	.....
	1911	20	75.0	.451	33.55	.....	.....	.....	.....	.....	.....	4	9	7	.....	.....
	1912	24	74.5	.497	36.82	.....	.....	.....	.....	.....	.....	.....	9	13	1	1
Southern:																
2 plants	1910	7	75.4	.545	40.78	.....	.....	.....	.....	.....	.....	.....	1	6	.....	.....
	1911	4	78.0	.499	39.52	.....	.....	.....	.....	.....	.....	.....	1	3	.....	.....
	1912	4	78.0	.584	46.61	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2

HEATERS' HELPERS.

Eastern:																
3 plants	1910	13	75.8	$0.337	$25.54	.....	.....	.....	.....	.....	7	4	2	.....	.....	.....
	1911	14	75.9	.415	32.29	.....	.....	.....	.....	.....	2	8	.....	.....	4	.....
	1912	14	75.9	.372	28.21	.....	.....	.....	.....	.....	.....	8	6	.....	.....	.....
Pittsburgh:																
5 plants	1910	13	68.2	.384	25.12	.....	.....	.....	2	.....	4	.....	4	3	.....	.....
	1911	13	67.1	.353	23.23	.....	.....	.....	2	.....	4	.....	7	.....	.....	.....
	1912	13	67.1	.357	23.34	.....	.....	.....	2	1	3	.....	7	.....	.....	.....
G.L.and M.W.:																
2 plants	1910	5	81.6	.240	19.44	.....	.....	.....	.....	4	.....	1	.....	.....	.....	.....
	1911	5	84.0	.240	20.16	.....	.....	.....	.....	4	.....	1	.....	.....	.....	.....
	1912	5	84.0	.240	20.16	.....	.....	.....	.....	4	.....	1	.....	.....	.....	.....
Southern:																
1 plant	1910	3	72.0	.376	27.07	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....
	1911	2	72.0	.370	26.64	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1912	2	72.0	.490	35.28	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

BLOOMING MILLS—Continued.

BOTTOM MAKERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1910	2	65.5	$0.248	$16.24	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
	1911	2	65.5	.332	21.75	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1912	2	65.5	.227	14.87	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
Pittsburgh:																
8 plants	1910	34	68.2	.403	27.31	.....	.....	.....	.....	.....	2	14	16	2	.....	.....
	1911	34	69.4	.373	25.86	.....	.....	.....	.....	.....	2	18	14	.....	.....	.....
	1912	34	69.4	.399	27.74	.....	.....	.....	.....	.....	2	13	19	.....	.....	.....
G.L. and M.W.:																
5 plants	1910	17	73.4	.248	18.09	.....	.....	.....	2	6	7	2	.....	.....	.....	.....
	1911	15	73.6	.261	19.10	.....	.....	.....	2	4	3	6	.....	.....	.....	.....
	1912	17	73.4	.273	19.90	.....	.....	.....	2	6	3	5	1	.....	.....	.....
Southern:																
2 plants	1910	7	75.4	.243	18.17	.....	.....	.....	.....	2	5	.....	.....	.....	.....	.....
	1911	4	75.0	.231	17.23	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....
	1912	5	74.4	.288	21.19	.....	.....	.....	.....	2	.....	3	.....	.....	.....	.....

BOTTOM MAKERS' HELPERS.

Pittsburgh:																
6 plants	1910	30	67.7	$0.290	$19.35	.....	.....	2	.....	8	8	12	.....	.....	.....	.....
	1911	30	68.2	.274	18.56	.....	.....	2	.....	2	16	10	.....	.....	.....	.....
	1912	30	68.3	.283	19.16	.....	.....	2	.....	3	13	12	.....	.....	.....	.....
G.L. and M.W.:																
4 plants	1910	11	74.2	.188	13.85	.....	2	2	.....	7	.....	.....	.....	.....	.....	.....
	1911	11	74.2	.192	14.16	.....	2	2	.....	7	.....	.....	.....	.....	.....	.....
	1912	11	74.2	.212	15.64	.....	.....	4	.....	3	4	.....	.....	.....	.....	.....
Southern:																
2 plants	1910	6	76.0	.169	12.79	.....	2	4	.....	.....	.....	.....	.....	.....	.....	.....
	1911	5	74.4	.166	12.33	.....	2	3	.....	.....	.....	.....	.....	.....	.....	.....
	1912	5	74.4	.200	14.75	.....	2	.....	.....	3	.....	.....	.....	.....	.....	.....

ROLL ENGINEERS.

Eastern:																
3 plants	1910	6	70.2	$0.358	$24.98	.....	.....	.....	.....	.....	.....	4	2	.....	.....	.....
	1911	6	69.3	.400	27.50	.....	.....	.....	.....	.....	.....	4	.....	2	.....	.....
	1912	6	69.3	.385	26.43	.....	.....	.....	.....	.....	.....	4	2	.....	.....	.....
Pittsburgh:																
7 plants	1910	18	65.8	.447	28.55	.....	.....	.....	.....	.....	.....	8	5	2	3	.....
	1911	18	66.2	.427	27.47	.....	.....	.....	.....	.....	.....	8	6	4	.....	.....
	1912	19	62.7	.476	28.63	.....	.....	.....	.....	.....	.....	8	.....	9	2	.....
G.L. and M.W.:																
6 plants	1910	15	77.2	.343	26.27	.....	.....	.....	.....	.....	5	4	6	.....	.....	.....
	1911	13	78.0	.327	25.36	.....	.....	.....	.....	.....	4	8	1	.....	.....	.....
	1912	13	78.0	.371	28.75	.....	.....	.....	.....	.....	.....	11	.....	2	.....	.....
Southern:																
2 plants	1910	3	72.0	.376	27.07	.....	.....	.....	.....	.....	.....	1	2	.....	.....	.....
	1911	3	72.0	.358	25.78	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....
	1912	3	72.0	.455	32.78	.....	.....	.....	.....	.....	.....	1	.....	2	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

BLOOMING MILLS—Continued.

ROLLERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
2 plants	1910	5	65.7	$0.488	$32.04								3	2		
	1911	4	64.4	.531	34.30								2		2	
	1912	4	64.4	.564	36.31									4		
Pittsburgh:																
8 plants	1910	21	62.1	.705	42.89								2	4	7	8
	1911	21	62.3	.649	40.14								2	4	10	5
	1912	22	59.5	.725	42.11								2	2	6	12
G.L. and M.W.:																
6 plants	1910	16	74.3	.528	39.07								9	3	4	
	1911	13	73.0	.505	36.85								6	7		
	1912	13	73.0	.548	39.99								4	7	1	1
Southern:																
2 plants	1910	4	72.0	.535	38.48								2	2		
	1911	3	72.0	.551	39.67								1	2		
	1912	3	72.0	.683	49.18								1			2

MANIPULATORS.

Eastern:																
3 plants	1910	9	68.6	$0.368	$25.03						2	5	2			
	1911	8	68.3	.364	24.68							4	4			
	1912	6	69.3	.343	23.48						2	2	2			
Pittsburgh:																
8 plants	1910	21	62.1	.445	26.86						4	2	10	2	3	
	1911	21	62.3	.412	25.31						6	3	9	3		
	1912	22	59.5	.468	26.70						2	5	6	4	5	
G.L. and M.W.:																
6 plants	1910	19	74.6	.281	20.95					4	9	6				
	1911	16	74.4	.265	19.69					5	7	4				
	1912	16	74.4	.299	22.23					3	5	7	1			
Southern:																
2 plants	1910	3	72.0	.331	23.83						1	2				
	1911	3	72.0	.337	24.26						1	2				
	1912	3	72.0	.408	29.35						1		2			

TABLE MEN.

Eastern:																
2 plants	1910	6	70.3	$0.275	$19.12					2	4					
	1911	6	68.5	.260	17.88						6					
	1912	6	68.5	.312	21.21						2	4				
Pittsburgh:																
5 plants	1910	16	63.5	.341	20.82						6	7		3		
	1911	16	63.8	.305	19.12					4	3	9				
	1912	16	63.8	.338	20.91					2	4	7	3			
G.L. and M.W.:																
4 plants	1910	9	77.3	.189	14.77			4		5						
	1911	9	76.1	.189	14.47			4	2	3						
	1912	9	76.1	.203	15.50			2	1	6						
Southern:																
2 plants	1910	5	72.0	.190	13.68			2		3						
	1911	4	72.0	.185	13.22			2		2						
	1912	4	72.0	.221	15.88			2			2					

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Concluded.

BLOOMING MILLS—Continued.

SHEARMEN.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
3 plants	1910	6	70.2	$0.318	$22.37	....	....	....	....	....	2	4	....	....	....	....
	1911	6	69.3	.350	24.39	....	....	....	....	2	....	2	2	....	....	....
	1912	6	69.3	.325	22.72	....	....	....	....	....	1	5	....	....	....	....
Pittsburgh:																
8 plants	1910	24	66.5	.329	21.36	....	....	....	....	4	4	13	....	3	....	....
	1911	24	66.3	.318	20.68	....	....	....	4	....	2	15	3	....	....	....
	1912	24	66.3	.339	21.78	....	....	....	....	4	2	12	4	2	....	....
G.L. and M.W.:																
6 plants	1910	15	75.2	.257	19.33	....	....	....	....	7	6	2	....	....	....	....
	1911	13	74.8	.268	19.98	....	....	....	....	5	4	4	....	....	....	....
	1912	13	74.8	.303	22.65	....	....	....	....	3	4	4	2	....	....	....
Southern:																
2 plants	1910	3	72.0	.295	21.26	....	....	....	....	....	1	2	....	....	....	....
	1911	3	72.0	.286	20.59	....	....	....	....	....	1	2	....	....	....	....
	1912	3	72.0	.354	25.49	....	....	....	....	....	1	....	2	....	....	....

SHEARMEN'S HELPERS.

Eastern:																
2 plants	1910	10	68.6	$0.218	$15.06	....	....	2	....	6	2	....	....	....	....	....
	1911	10	66.4	.194	13.13	1	1	4	....	2	2	....	....	....	....	....
	1912	10	66.4	.235	15.74	....	....	1	1	4	4	....	....	....	....	....
Pittsburgh:																
8 plants	1910	50	67.1	.247	16.22	....	....	8	7	14	12	9	....	....	....	....
	1911	50	66.7	.240	15.86	....	....	8	2	17	20	3	....	....	....	....
	1912	49	68.0	.248	16.58	....	....	8	2	15	15	9	....	....	....	....
G.L. and M.W.:																
6 plants	1910	34	76.9	.180	13.74	....	12	6	10	6	....	5	....	....	....	....
	1911	30	74.9	.188	13.98	....	10	2	6	10	2	....	....	....	....	....
	1912	28	74.7	.217	16.12	....	....	10	6	6	....	....	6	....	....	....
Southern:																
2 plants	1910	6	72.0	.200	14.40	....	2	2	....	....	2	....	....	....	....	....
	1911	6	72.0	.200	14.39	....	1	3	....	....	2	....	....	....	....	....
	1912	6	72.0	.250	17.99	....	1	1	....	2	....	2	....	....	....	....

LABORERS.

Eastern:																
3 plants	1910	32	68.3	$0.143	$9.70	10	22	....	....	....	....	....	....	....	....	....
	1911	21	65.7	.139	9.04	12	5	4	....	....	....	....	....	....	....	....
	1912	21	64.7	.141	9.01	12	3	6	....	....	....	....	....	....	....	....
Pittsburgh:																
8 plants	1910	228	72.0	.168	12.13	2	....	226	....	....	....	....	....	....	....	....
	1911	186	72.5	.170	12.32	1	....	185	....	....	....	....	....	....	....	....
	1912	197	73.1	.169	12.37	1	....	196	....	....	....	....	....	....	....	....
G.L. and M.W.:																
6 plants	1910	156	77.6	.163	12.58	....	38	118	....	....	....	....	....	....	....	....
	1911	124	76.1	.166	12.58	....	25	99	....	....	....	....	....	....	....	....
	1912	150	76.1	.167	12.70	....	....	150	....	....	....	....	....	....	....	....
Southern:																
2 plants	1910	33	78.2	.131	10.20	33	....	....	....	....	....	....	....	....	....	....
	1911	32	76.9	.132	10.12	32	....	....	....	....	....	....	....	....	....	....
	1912	28	73.7	.131	9.65	28	....	....	....	....	....	....	....	....	....	....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912.

BLOOMING MILLS—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pit cranemen:											
18 plants	1910	99	69.6	.....	18	.....	.....	11	50	4	16
	1911	95	68.8	.....	18	.....	.....	14	47	6	10
	1912	97	68.7	.....	18	.....	.....	18	45	6	10
Heaters:											
19 plants	1910	51	73.4	.....	3	.....	.....	2	31	4	11
	1911	49	73.3	.....	3	.....	1	4	25	6	10
	1912	53	73.0	.....	3	.....	1	4	31	4	10
Heaters' helpers:											
11 plants	1910	34	73.4	.....	3	.....	.....	4	12	9	6
	1911	34	73.5	.....	3	.....	.....	4	12	6	9
	1912	34	73.5	.....	3	.....	.....	4	12	6	9
Bottom makers:											
16 plants	1910	60	70.5	.....	6	.....	.....	2	48	.....	4
	1911	55	70.8	.....	6	.....	.....	3	37	5	4
	1912	58	70.9	.....	6	.....	.....	3	40	5	4
Bottom makers' helpers:											
12 plants	1910	47	70.3	.....	6	.....	.....	.....	37	.....	4
	1911	46	70.3	.....	6	.....	.....	3	30	5	2
	1912	46	70.4	.....	6	.....	.....	3	28	7	2
Roll engineers:											
18 plants	1910	42	70.9	3	3	.....	.....	4	19	7	6
	1911	40	70.9	3	3	.....	.....	5	15	8	6
	1912	41	69.2	6	3	.....	.....	5	13	8	6
Rollers:											
18 plants	1910	46	67.6	6	3	.....	.....	5	29	.....	3
	1911	41	66.6	3	6	.....	.....	6	24	2	.....
	1912	42	65.0	6	6	.....	.....	6	22	2	.....
Manipulators:											
19 plants	1910	52	68.4	6	3	.....	.....	7	29	3	4
	1911	48	67.9	3	6	.....	.....	8	24	5	2
	1912	47	66.6	6	6	.....	.....	6	22	5	2
Table men:											
13 plants	1910	36	69.3	3	3	.....	.....	4	20	2	4
	1911	35	68.7	.....	6	.....	.....	6	17	4	2
	1912	35	68.7	.....	6	.....	.....	6	17	4	2
Shearmen:											
19 plants	1910	48	70.0	3	3	.....	.....	4	28	6	4
	1911	46	69.4	3	3	.....	.....	6	28	4	2
	1912	46	69.5	3	3	.....	.....	6	28	4	2
Shearmen's helpers:											
18 plants	1910	100	70.9	3	9	.....	.....	8	56	10	14
	1911	96	69.5	3	9	.....	.....	14	56	12	2
	1912	93	70.1	.....	9	.....	.....	14	58	10	2
Laborers:											
19 plants	1910	449	74.1	.....	3	.....	11	59	242	25	109
	1911	363	73.7	.....	4	.....	14	34	214	32	65
	1912	396	73.8	.....	6	.....	12	38	224	44	72

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Concluded.

BLOOMING MILLS—Continued.

PER CENT.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pit cranemen:											
18 plants	1910	99	69.6	.....	18.2	.....	.....	11.1	50.5	4.0	16.2
	1911	95	68.8	.....	18.9	.....	.....	14.7	49.5	6.3	10.5
	1912	97	68.7	.....	18.6	.....	.....	18.6	46.4	6.2	10.3
Heaters:											
19 plants	1910	51	73.4	.....	5.9	.....	.....	3.9	60.8	7.8	21.6
	1911	49	73.3	.....	6.1	.....	2.0	8.2	51.0	12.2	20.4
	1912	53	73.0	.....	5.7	.....	1.9	7.5	58.5	7.5	18.9
Heaters' helpers:											
11 plants	1910	34	73.4	.....	8.8	.....	.....	11.8	35.3	26.5	17.6
	1911	34	73.5	.....	8.8	.....	.....	11.8	35.3	17.6	26.5
	1912	34	73.5	.....	8.8	.....	.....	11.8	35.3	17.6	26.5
Bottom makers:											
16 plants	1910	60	70.5	.....	10.0	.....	.....	3.3	80.0	.....	6.7
	1911	55	70.8	.....	10.9	.....	.....	5.5	67.3	9.1	7.3
	1912	58	70.9	.....	10.3	.....	.....	5.2	69.0	8.6	6.9
Bottom makers' helpers:											
12 plants	1910	47	70.3	.....	12.8	.....	.....	.....	78.7	.....	8.5
	1911	46	70.3	.....	13.0	.....	.....	6.5	65.2	10.9	4.3
	1912	46	70.4	.....	13.0	.....	.....	6.5	60.9	15.2	4.3
Roll engineers:											
18 plants	1910	42	70.9	7.1	7.1	.....	.....	9.5	45.2	16.7	14.3
	1911	40	70.9	7.5	7.5	.....	.....	12.5	37.5	20.0	15.0
	1912	41	69.2	14.6	7.3	.....	.....	12.2	31.7	19.5	14.6
Rollers:											
18 plants	1910	46	67.6	13.0	6.5	.....	.....	10.9	63.0	.....	6.5
	1911	41	66.6	7.3	14.6	.....	.....	14.6	58.5	4.9	.....
	1912	42	65.0	14.3	14.3	.....	.....	14.3	52.4	4.8	.....
Manipulators:											
19 plants	1910	52	68.4	11.5	5.8	.....	.....	13.5	55.8	5.8	7.7
	1911	48	67.9	6.3	12.5	.....	.....	16.7	50.0	10.4	4.2
	1912	47	66.6	12.8	12.8	.....	.....	12.8	46.8	10.6	4.3
Table men:											
13 plants	1910	36	69.3	8.3	8.3	.....	.....	11.1	55.6	5.6	11.1
	1911	35	68.7	.....	17.1	.....	.....	17.1	48.6	11.4	5.7
	1912	35	68.7	.....	17.1	.....	.....	17.1	48.6	11.4	5.7
Shearmen:											
19 plants	1910	48	70.0	6.3	6.3	.....	.....	8.3	58.3	12.5	8.3
	1911	46	69.4	6.5	6.5	.....	.....	13.0	60.9	8.7	4.3
	1912	46	69.5	6.5	6.5	.....	.....	13.0	60.9	8.7	4.3
Shearmen's helpers:											
18 plants	1910	100	70.9	3.0	9.0	.....	.....	8.0	56.0	10.0	14.0
	1911	96	69.5	3.1	9.4	.....	.....	14.6	58.3	12.5	2.1
	1912	93	70.1	.....	9.7	.....	.....	15.1	62.4	10.8	2.2
Laborers:											
19 plants	1910	449	74.1	.....	.7	.....	2.4	13.1	53.9	5.6	24.3
	1911	363	73.7	.....	1.1	.....	3.9	9.4	59.0	8.8	17.9
	1912	396	73.8	.....	1.5	.....	3.0	9.6	56.6	11.1	18.2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912.

BLOOMING MILLS—Continued.

PIT CRANEMEN.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	3	15	69.2	.....	.....	.....	.....	11	.....	4	.....
Pittsburgh	7	48	64.0	.....	18	.....	.....	.....	30	.....	.....
Great Lakes and Middle West	6	30	77.6	.....	.....	.....	.....	.....	16	.....	14
Southern	2	6	76.0	.....	.....	.....	.....	.....	4	.....	2
Total	18	99	69.6	.....	18	.....	.....	11	50	4	16
1911.											
Eastern	3	14	68.7	.....	.....	.....	.....	10	.....	4	.....
Pittsburgh	7	48	64.0	.....	18	.....	.....	4	26	.....	.....
Great Lakes and Middle West	6	27	76.4	.....	.....	.....	.....	.....	17	.....	10
Southern	2	6	74.0	.....	.....	.....	.....	.....	4	2	.....
Total	18	95	68.8	.....	18	.....	.....	14	47	6	10
1912.											
Eastern	3	14	68.7	.....	.....	.....	.....	10	.....	4	.....
Pittsburgh	7	48	63.5	.....	18	.....	.....	8	22	.....	.....
Great Lakes and Middle West	6	29	76.1	.....	.....	.....	.....	.....	19	.....	10
Southern	2	6	74.0	.....	.....	.....	.....	.....	4	2	.....
Total	18	97	68.7	.....	18	.....	.....	18	45	6	10

HEATERS.

1910.											
Eastern	3	6	76.3	.....	.....	.....	.....	2	.....	2	2
Pittsburgh	8	19	70.0	.....	3	.....	.....	.....	12	2	2
Great Lakes and Middle West	6	19	75.2	.....	.....	.....	.....	.....	14	.....	5
Southern	2	7	75.4	.....	.....	.....	.....	.....	5	.....	2
Total	19	51	73.4	.....	3	.....	.....	2	31	4	11
1911.											
Eastern	3	6	75.4	.....	.....	.....	.....	2	.....	2	2
Pittsburgh	8	19	69.8	.....	3	.....	.....	2	10	4	.....
Great Lakes and Middle West	6	20	75.0	.....	.....	.....	.....	.....	15	.....	5
Southern	2	4	78.0	.....	.....	.....	1	.....	.....	.....	3
Total	19	49	73.3	.....	3	.....	1	4	25	6	10
1912.											
Eastern	3	6	75.4	.....	.....	.....	.....	2	.....	2	2
Pittsburgh	8	19	69.2	.....	3	.....	.....	2	12	2	.....
Great Lakes and Middle West	6	24	74.5	.....	.....	.....	.....	.....	19	.....	5
Southern	2	4	78.0	.....	.....	.....	1	.....	.....	.....	3
Total	19	53	73.0	.....	3	.....	1	4	31	4	10

HEATERS' HELPERS.

1910.											
Eastern	3	13	75.8	.....	.....	.....	.....	4	.....	7	2
Pittsburgh	5	13	68.2	.....	3	.....	.....	.....	8	2	.....
Great Lakes and Middle West	2	5	81.6	.....	.....	.....	.....	.....	1	.....	4
Southern	1	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	11	34	73.4	.....	3	.....	.....	4	12	9	6
1911.											
Eastern	3	14	75.9	.....	.....	.....	.....	4	.....	6	4
Pittsburgh	5	13	67.1	.....	3	.....	.....	.....	10	.....	.....
Great Lakes and Middle West	2	5	84.0	.....	.....	.....	.....	.....	.....	.....	5
Southern	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Total	11	34	73.5	.....	3	.....	.....	4	12	6	9

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

BLOOMING MILLS—Continued.

HEATERS' HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1912.											
Eastern	3	14	75.9	.....	.....	.....	.....	4	.....	6	4
Pittsburgh	5	13	67.1	.....	3	.....	.....	.....	10	.....	.....
Great Lakes and Middle West	2	5	84.0	.....	.....	.....	.....	.....	.....	.....	5
Southern	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Total	11	34	73.5	.....	3	.....	.....	4	12	6	9

BOTTOM MAKERS.

1910.											
Eastern	1	2	65.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	8	34	68.2	.....	6	.....	.....	.....	28	.....	.....
Great Lakes and Middle West	5	17	73.4	.....	.....	.....	.....	.....	15	.....	2
Southern	2	7	75.4	.....	.....	.....	.....	.....	5	.....	2
Total	16	60	70.5	.....	6	.....	.....	2	48	.....	4
1911.											
Eastern	1	2	65.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	8	34	69.4	.....	6	.....	.....	1	22	3	2
Great Lakes and Middle West	5	15	73.6	.....	.....	.....	.....	.....	13	.....	2
Southern	2	4	75.0	.....	.....	.....	.....	.....	2	2	.....
Total	16	55	70.8	.....	6	.....	.....	3	37	5	4
1912.											
Eastern	1	2	65.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	8	34	69.4	.....	6	.....	.....	1	22	3	2
Great Lakes and Middle West	5	17	73.4	.....	.....	.....	.....	.....	15	.....	2
Southern	2	5	74.4	.....	.....	.....	.....	.....	3	2	.....
Total	16	58	70.9	.....	6	.....	.....	3	40	5	4

BOTTOM MAKERS' HELPERS.

1910.											
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	30	67.7	.....	6	.....	.....	.....	24	.....	.....
Great Lakes and Middle West	4	11	74.2	.....	.....	.....	.....	.....	9	.....	2
Southern	2	6	76.0	.....	.....	.....	.....	.....	4	.....	2
Total	12	47	70.3	.....	6	.....	.....	.....	37	.....	4
1911.											
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	30	68.2	.....	6	.....	.....	3	18	3	.....
Great Lakes and Middle West	4	11	74.2	.....	.....	.....	.....	.....	9	.....	2
Southern	2	5	74.4	.....	.....	.....	.....	.....	3	2	.....
Total	12	46	70.3	.....	6	.....	.....	3	30	5	2
1912.											
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	30	68.3	.....	6	.....	.....	3	16	5	.....
Great Lakes and Middle West	4	11	74.2	.....	.....	.....	.....	.....	9	.....	2
Southern	2	5	74.4	.....	.....	.....	.....	.....	3	2	.....
Total	12	46	70.4	.....	6	.....	.....	3	28	7	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

BLOOMING MILLS—Continued.

ROLL ENGINEERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	3	6	70.2	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh	7	18	65.8	3	3	.....	.....	.....	8	4	.....
Great Lakes and Middle West	6	15	77.2	.....	.....	.....	.....	.....	8	1	6
Southern	2	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	18	42	70.9	3	3	.....	.....	4	19	7	6
1911.											
Eastern	3	6	69.3	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh	7	18	66.2	3	3	.....	.....	1	6	5	.....
Great Lakes and Middle West	6	13	78.0	.....	.....	.....	.....	.....	6	1	6
Southern	2	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	18	40	70.9	3	3	.....	.....	5	15	8	6
1912.											
Eastern	3	6	69.3	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh	7	19	62.7	6	3	.....	.....	1	4	5	.....
Great Lakes and Middle West	6	13	78.0	.....	.....	.....	.....	.....	6	1	6
Southern	2	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	18	41	69.2	6	3	.....	.....	5	13	8	6

ROLLERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	2	5	65.7	.....	.....	.....	.....	5	.....	.....	.....
Pittsburgh	8	21	62.1	6	3	.....	.....	.....	12	.....	.....
Great Lakes and Middle West	6	16	74.3	.....	.....	.....	.....	.....	13	.....	3
Southern	2	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Total	18	46	67.6	6	3	.....	.....	5	29	.....	3
1911.											
Eastern	2	4	64.4	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	8	21	62.3	3	6	.....	.....	2	10	.....	.....
Great Lakes and Middle West	6	13	73.0	.....	.....	.....	.....	.....	11	2	.....
Southern	2	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	18	41	66.6	3	6	.....	.....	6	24	2	.....
1912.											
Eastern	2	4	64.4	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	8	22	59.5	6	6	.....	.....	2	8	.....	.....
Great Lakes and Middle West	6	13	73.0	.....	.....	.....	.....	.....	11	2	.....
Southern	2	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	18	42	65.0	6	6	.....	.....	6	22	2	.....

MANIPULATORS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	3	9	68.6	.....	.....	.....	.....	7	.....	2	.....
Pittsburgh	8	21	62.1	6	3	.....	.....	.....	12	.....	.....
Great Lakes and Middle West	6	19	74.6	.....	.....	.....	.....	.....	14	1	4
Southern	2	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	19	52	68.4	6	3	.....	.....	7	29	3	4

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

BLOOMING MILLS—Continued.

MANIPULATORS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.											
Eastern	3	8	68.3	.....	.....	.....	.....	6	.....	2	.....
Pittsburgh	8	21	62.3	3	6	.....	.....	2	10	.....	.....
Great Lakes and Middle West	6	16	74.4	.....	.....	.....	.....	.....	11	3	2
Southern	2	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	19	48	67.9	3	6	.....	.....	8	24	5	2
1912.											
Eastern	3	6	69.3	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh	8	22	59.5	6	6	.....	.....	2	8	.....	.....
Great Lakes and Middle West	6	16	74.4	.....	.....	.....	.....	.....	11	3	2
Southern	2	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	19	47	66.6	6	6	.....	.....	6	22	5	2
TABLE MEN.											
1910.											
Eastern	2	6	70.3	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh	5	16	63.5	3	3	.....	.....	.....	10	.....	.....
Great Lakes and Middle West	4	9	77.3	.....	.....	.....	.....	.....	5	.....	4
Southern	2	5	72.0	.....	.....	.....	.....	.....	5	.....	.....
Total	13	36	69.3	3	3	.....	.....	4	20	2	4
1911.											
Eastern	2	6	68.5	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh	5	16	63.8	.....	6	.....	.....	2	8	.....	.....
Great Lakes and Middle West	4	9	76.1	.....	.....	.....	.....	.....	5	2	2
Southern	2	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Total	13	35	68.7	.....	6	.....	.....	6	17	4	2
1912.											
Eastern	2	6	68.5	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh	5	16	63.8	.....	6	.....	.....	2	8	.....	.....
Great Lakes and Middle West	4	9	76.1	.....	.....	.....	.....	.....	5	2	2
Southern	2	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Total	13	35	68.7	.....	6	.....	.....	6	17	4	2
SHEARMEN.											
1910.											
Eastern	3	6	70.2	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh	8	24	66.5	3	3	.....	.....	.....	14	4	.....
Great Lakes and Middle West	6	15	75.2	.....	.....	.....	.....	.....	11	.....	4
Southern	2	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	19	48	70.0	3	3	.....	.....	4	28	6	4
1911.											
Eastern	3	6	69.3	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh	8	24	66.3	3	3	.....	.....	2	16	.....	.....
Great Lakes and Middle West	6	13	74.8	.....	.....	.....	.....	.....	9	2	2
Southern	2	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	19	46	69.4	3	3	.....	.....	6	28	4	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Concluded.

BLOOMING MILLS—Continued.

SHEARMEN—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1912.											
Eastern	3	6	69.3	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh	8	24	66.3	3	3	.....	.....	2	16	.....	.....
Great Lakes and Middle West	6	13	74.8	.....	.....	.....	.....	.....	9	2	2
Southern	2	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
Total	19	46	69.5	3	3	.....	.....	6	28	4	2

SHEARMEN'S HELPERS

1910.											
Eastern	2	10	68.6	.....	.....	.....	.....	8	.....	2	.....
Pittsburgh	8	50	67.1	3	9	.....	.....	.....	30	8	.....
Great Lakes and Middle West	6	34	76.9	.....	.....	.....	.....	.....	20	.....	14
Southern	2	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
Total	18	100	70.9	3	9	.....	.....	8	56	10	14
1911.											
Eastern	2	10	66.4	.....	.....	.....	.....	8	.....	2	.....
Pittsburgh	8	50	66.7	3	9	.....	.....	6	32	.....	.....
Great Lakes and Middle West	6	30	74.9	.....	.....	.....	.....	.....	18	10	2
Southern	2	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
Total	18	96	69.5	3	9	.....	.....	14	56	12	2
1912.											
Eastern	2	10	66.4	.....	.....	.....	.....	8	.....	2	.....
Pittsburgh	8	49	68.0	.....	9	.....	.....	6	34	.....	.....
Great Lakes and Middle West	6	28	74.7	.....	.....	.....	.....	.....	18	8	2
Southern	2	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
Total	18	93	70.1	.....	9	.....	.....	14	58	10	2

LABORERS.

1910.											
Eastern	3	32	68.3	.....	3	.....	.....	22	.....	2	5
Pittsburgh	8	228	72.0	.....	.....	.....	7	35	154	21	11
Great Lakes and Middle West	6	156	77.6	.....	.....	.....	4	2	72	2	76
Southern	2	33	78.2	.....	.....	.....	.....	.....	16	.....	17
Total	19	449	74.1	.....	3	.....	11	59	242	25	109
1911.											
Eastern	3	21	65.7	.....	4	.....	5	8	.....	2	2
Pittsburgh	8	186	72.5	.....	.....	.....	4	22	135	18	7
Great Lakes and Middle West	6	124	76.1	.....	.....	.....	5	4	63	6	46
Southern	2	32	76.9	.....	.....	.....	.....	.....	16	6	10
Total	19	363	73.7	.....	4	.....	14	34	214	32	65
1912.											
Eastern	3	21	64.7	.....	6	.....	5	6	.....	2	2
Pittsburgh	8	197	73.1	.....	.....	.....	3	31	123	19	21
Great Lakes and Middle West	6	150	76.1	.....	.....	.....	4	1	80	17	48
Southern	2	28	73.7	.....	.....	.....	.....	.....	21	6	1
Total	19	396	73.8	.....	6	.....	12	38	224	44	72

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912.

BLOOMING MILLS—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

PIT CRANEMEN.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
3 plants	1910	15	69.2	.....	.....	.....	.....	11	.....	4	.....
	1911	14	68.7	.....	.....	.....	.....	10	.....	4	.....
	1912	14	68.7	.....	.....	.....	.....	10	.....	4	.....
Pittsburgh:											
7 plants	1910	48	64.0	.....	18	.....	.....	.....	30	.....	.....
	1911	48	64.0	.....	18	.....	.....	4	26	.....	.....
	1912	48	63.5	.....	18	.....	.....	8	22	.....	.....
Great Lakes and Middle West:											
6 plants	1910	30	77.6	.....	.....	.....	.....	.....	16	.....	14
	1911	27	76.4	.....	.....	.....	.....	.....	17	.....	10
	1912	29	76.1	.....	.....	.....	.....	.....	19	.....	10
Southern:											
2 plants	1910	6	76.0	.....	.....	.....	.....	.....	4	.....	2
	1911	6	74.0	.....	.....	.....	.....	.....	4	2	.....
	1912	6	74.0	.....	.....	.....	.....	.....	4	2	.....

HEATERS.

Eastern:											
3 plants	1910	6	76.3	.....	.....	.....	.....	2	.....	2	2
	1911	6	75.4	.....	.....	.....	.....	2	.....	2	2
	1912	6	75.4	.....	.....	.....	.....	2	.....	2	2
Pittsburgh:											
8 plants	1910	19	70.0	.....	3	.....	.....	.....	12	2	2
	1911	19	69.8	.....	3	.....	.....	2	10	4	.....
	1912	19	69.2	.....	3	.....	.....	2	12	2	.....
Great Lakes and Middle West:											
6 plants	1910	19	75.2	.....	.....	.....	.....	.....	14	.....	5
	1911	20	75.0	.....	.....	.....	.....	.....	15	.....	5
	1912	24	74.5	.....	.....	.....	.....	.....	19	.....	5
Southern:											
2 plants	1910	7	75.4	.....	.....	.....	.....	.....	5	.....	2
	1911	4	78.0	.....	.....	.....	1	.....	.....	.....	3
	1912	4	78.0	.....	.....	.....	1	.....	.....	.....	3

HEATERS' HELPERS.

Eastern:											
3 plants	1910	13	75.8	.....	.....	.....	.....	4	.....	7	2
	1911	14	75.9	.....	.....	.....	.....	4	.....	6	4
	1912	14	75.9	.....	.....	.....	.....	4	.....	6	4
Pittsburgh:											
5 plants	1910	13	68.2	.....	3	.....	.....	.....	8	2	.....
	1911	13	67.1	.....	3	.....	.....	.....	10	.....	.....
	1912	13	67.1	.....	3	.....	.....	.....	10	.....	.....
Great Lakes and Middle West:											
2 plants	1910	5	81.6	.....	.....	.....	.....	.....	1	.....	4
	1911	5	84.0	.....	.....	.....	.....	.....	.....	.....	5
	1912	5	84.0	.....	.....	.....	.....	.....	.....	.....	5
Southern:											
1 plant	1910	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
	1911	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
	1912	2	72.0	.....	.....	.....	.....	.....	2	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

BLOOMING MILLS—Continued.

BOTTOM MAKERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
1 plant	1910	2	65.5	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	65.5	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	65.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh:											
8 plants	1910	34	68.2	.....	6	.....	.....	.....	28	.....	.....
	1911	34	69.4	.....	6	.....	.....	1	22	3	2
	1912	34	69.4	.....	6	.....	.....	1	22	3	2
Great Lakes and Middle West:											
5 plants	1910	17	73.4	.....	.....	.....	.....	.....	15	.....	2
	1911	15	73.6	.....	.....	.....	.....	.....	13	.....	2
	1912	17	73.4	.....	.....	.....	.....	.....	15	.....	2
Southern:											
2 plants	1910	7	75.4	.....	.....	.....	.....	.....	5	.....	2
	1911	4	75.0	.....	.....	.....	.....	.....	2	2	.....
	1912	5	74.4	.....	.....	.....	.....	.....	3	2	.....

BOTTOM MAKERS' HELPERS.

Pittsburgh:											
6 plants	1910	30	67.7	.....	6	.....	.....	.....	24	.....	.....
	1911	30	68.2	.....	6	.....	.....	3	18	3	.....
	1912	30	68.3	.....	6	.....	.....	3	16	5	.....
Great Lakes and Middle West:											
4 plants	1910	11	74.2	.....	.....	.....	.....	.....	9	.....	2
	1911	11	71.2	.....	.....	.....	.....	.....	9	.....	2
	1912	11	74.2	.....	.....	.....	.....	.....	9	.....	2
Southern:											
2 plants	1910	6	76.0	.....	.....	.....	.....	.....	4	.....	2
	1911	5	74.4	.....	.....	.....	.....	.....	3	2	.....
	1912	5	74.4	.....	.....	.....	.....	.....	3	2	.....

ROLL ENGINEERS.

Eastern:											
3 plants	1910	6	70.2	.....	.....	.....	.....	4	.....	2	.....
	1911	6	69.3	.....	.....	.....	.....	4	.....	2	.....
	1912	6	69.3	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh:											
7 plants	1910	18	65.8	3	3	.....	.....	.....	8	4	.....
	1911	18	66.2	3	3	.....	.....	1	6	5	.....
	1912	19	62.7	6	3	.....	.....	1	4	5	.....
Great Lakes and Middle West:											
6 plants	1910	15	77.2	.....	.....	.....	.....	.....	8	1	6
	1911	13	78.0	.....	.....	.....	.....	.....	6	1	6
	1912	13	78.0	.....	.....	.....	.....	.....	6	1	6
Southern:											
2 plants	1910	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
	1911	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
	1912	3	72.0	.....	.....	.....	.....	.....	3	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

BLOOMING MILLS—Continued.

ROLLERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
2 plants	1910	5	65.7	.....	.....	.....	.....	5	.....	.....	.....
	1911	4	64.4	.....	.....	.....	.....	4	.....	.....	.....
	1912	4	64.4	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh:											
8 plants	1910	21	62.1	6	3	.....	.....	.....	12	.....	.....
	1911	21	62.3	3	6	.....	.....	2	10	.....	.....
	1912	22	59.5	6	6	.....	.....	2	8	.....	.....
Great Lakes and Middle West:											
6 plants	1910	16	74.3	.....	.....	.....	.....	.....	13	.....	3
	1911	13	73.0	.....	.....	.....	.....	.....	11	2	.....
	1912	13	73.0	.....	.....	.....	.....	.....	11	2	.....
Southern:											
2 plants	1910	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1911	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
	1912	3	72.0	.....	.....	.....	.....	.....	3	.....	.....

MANIPULATORS.

Eastern:											
3 plants	1910	9	68.6	.....	.....	.....	.....	7	.....	2	.....
	1911	8	68.3	.....	.....	.....	.....	6	.....	2	.....
	1912	6	69.3	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh:											
8 plants	1910	21	62.1	6	3	.....	.....	.....	12	.....	.....
	1911	21	62.3	3	6	.....	.....	2	10	.....	.....
	1912	22	59.5	6	6	.....	.....	2	8	.....	.....
Great Lakes and Middle West:											
6 plants	1910	19	74.6	.....	.....	.....	.....	.....	14	1	4
	1911	16	74.4	.....	.....	.....	.....	.....	11	3	2
	1912	16	74.4	.....	.....	.....	.....	.....	11	3	2
Southern:											
2 plants	1910	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
	1911	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
	1912	3	72.0	.....	.....	.....	.....	.....	3	.....	.....

TABLE MEN.

Eastern:											
2 plants	1910	6	70.3	.....	.....	.....	.....	4	.....	2	.....
	1911	6	68.5	.....	.....	.....	.....	4	.....	2	.....
	1912	6	68.5	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh:											
5 plants	1910	16	63.5	3	3	.....	.....	.....	10	.....	.....
	1911	16	63.8	.....	6	.....	.....	2	8	.....	.....
	1912	16	63.8	.....	6	.....	.....	2	8	.....	.....
Great Lakes and Middle West:											
4 plants	1910	9	77.3	.....	.....	.....	.....	.....	5	.....	4
	1911	9	76.1	.....	.....	.....	.....	.....	5	2	2
	1912	9	76.1	.....	.....	.....	.....	.....	5	2	2
Southern:											
2 plants	1910	5	72.0	.....	.....	.....	.....	.....	5	.....	.....
	1911	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1912	4	72.0	.....	.....	.....	.....	.....	4	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Concluded.

BLOOMING MILLS—Concluded.

SHEARMEN.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
3 plants	1910	6	70.2	.....	.....	.....	.....	4	.....	2	.....
	1911	6	69.3	.....	.....	.....	.....	4	.....	2	.....
	1912	6	69.3	.....	.....	.....	.....	4	.....	2	.....
Pittsburgh:											
8 plants	1910	24	66.5	3	3	.....	.....	.....	14	4	.....
	1911	24	66.3	3	3	.....	.....	2	16	.....	.....
	1912	24	66.3	3	3	.....	.....	2	16	.....	.....
Great Lakes and Middle West:											
6 plants	1910	15	75.2	.....	.....	.....	.....	.....	11	.....	4
	1911	13	74.8	.....	.....	.....	.....	.....	9	2	2
	1912	13	74.8	.....	.....	.....	.....	.....	9	2	2
Southern:											
2 plants	1910	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
	1911	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
	1912	3	72.0	.....	.....	.....	.....	.....	3	.....	.....

SHEARMEN'S HELPERS.

Eastern:											
2 plants	1910	10	68.6	.....	.....	.....	.....	8	.....	2	.....
	1911	10	66.4	.....	.....	.....	.....	8	.....	2	.....
	1912	10	66.4	.....	.....	.....	.....	8	.....	2	.....
Pittsburgh:											
8 plants	1910	50	67.1	3	9	.....	.....	.....	30	8	.....
	1911	50	66.7	3	9	.....	.....	6	32	.....	.....
	1912	49	68.0	.....	9	.....	.....	6	34	.....	.....
Great Lakes and Middle West:											
6 plants	1910	34	76.9	.....	.....	.....	.....	.....	20	.....	14
	1911	30	74.9	.....	.....	.....	.....	.....	18	10	2
	1912	28	74.7	.....	.....	.....	.....	.....	18	8	2
Southern:											
2 plants	1910	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
	1911	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
	1912	6	72.0	.....	.....	.....	.....	.....	6	.....	.....

LABORERS.

Eastern:											
3 plants	1910	32	68.3	.....	3	.....	.....	22	.....	2	5
	1911	21	65.7	.....	4	.....	5	8	.....	2	2
	1912	21	64.7	.....	6	.....	5	6	.....	2	2
Pittsburgh:											
8 plants	1910	228	72.0	.....	.....	.....	7	35	154	21	11
	1911	186	72.5	.....	.....	.....	4	22	135	18	7
	1912	197	73.1	.....	.....	.....	3	31	123	19	21
Great Lakes and Middle West:											
6 plants	1910	156	77.6	.....	.....	.....	4	2	72	2	76
	1911	124	76.1	.....	.....	.....	5	4	63	6	46
	1912	150	76.1	.....	.....	.....	4	1	80	17	48
Southern:											
2 plants	1910	33	78.2	.....	.....	.....	.....	.....	16	.....	17
	1911	32	76.9	.....	.....	.....	.....	.....	16	6	10
	1912	28	73.7	.....	.....	.....	.....	.....	21	6	1

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

PLATE MILLS.

SUMMARY.

Summary figures relating to the plate-mill department of the iron and steel industry are given with figures for other departments in the introductory summary on pages 7 to 15. An explanation of the scope of the investigation and the methods employed is given on pages 16 to 22.

Briefly summarized, the average full-time weekly earnings of employees in the plate-mill department in 1912 were 4 per cent higher than in 1910 and 7.9 per cent higher than in 1911. The average full-time hours of labor per week in 1912 were 0.3 per cent higher than in 1910 and 0.9 per cent higher than in 1911. The average rate of wages or earnings per hour in 1912 were 3.2 per cent higher than in 1910 and 7.0 per cent higher than in 1911.

The most significant facts concerning the several occupations of the plate-mill department are summarized in the table below.

Data are presented for identical plants for the years 1910, 1911, and 1912. Referring to the first occupation, laborers, direct comparison can be made of data for 11 identical plants from 1910 to 1912, inclusive. The first line of the table is read as follows: In 1910 the 11 plate mills for which reports were obtained employed 355 laborers whose average full-time hours of work were 66.8 per week. For 25.1 per cent of the 355 laborers the full-time hours per week were 60 or under; for 58 per cent, over 60 or under 72; for 9.9 per cent, 72; for 0.6 per cent, over 72 or under 84; and for 6.5 per cent the working hours were 84 per week.

The average rate of wages or earnings per hour of laborers in the year considered (1910) was $0.159. Of the total number, 17.7 per cent received 12 or under 14 cents per hour; 10.1 per cent, 14 or under 16 cents; 71.3 per cent, 16 or under 18 cents; and 0.8 per cent, 18 or under 20 cents per hour. The average full-time weekly earnings were $10.68. The other lines of the table may be read in the same manner.

Referring to the last column of the table, it is seen that in 11 plants the average full-time weekly earnings of laborers were $10.68 in 1910. In 1911 there was a drop to $10.51, and in 1912 an increase to $11.04. Comparing the average full-time weekly earnings for 1912 in the several occupations, it is seen that the lowest average was that of laborers, which was $11.04, while with but one exception the average full-time weekly earnings for the remaining 15 occupations were from 50 to over 350 per cent higher, the highest being the average for rollers, sheared-plate mills, which was $50.03.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—PLATE MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				60 and under.	Over 60 and under 72	72	Over 72 and under 84	84		12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	
Laborers:														
11 plants	1910	355	66.8	25.1	58.0	9.9	0.6	6.5	$0.159	17.7	10.1	71.3	0.8	$10.68
	1911	274	66.2	25.5	51.8	18.2	3.3	1.1	.158	23.7	9.5	66.8	.....	10.51
	1912	287	68.3	25.4	44.9	16.7	7.0	[1]5.9	.160	26.1	7.3	65.2	1.4	11.04
										Under 16 cts.	16 and under 20 cts.	20 and under 30 cts.	30 cts. and over.	
Heaters' helpers:														
10 plants	1910	111	69.5	.....	66.7	27.9	.....	5.4	.243	9.0	29.7	45.0	16.2	16.98
	1911	108	67.3	3.7	65.7	29.6	.....	.9	.227	10.2	30.5	48.2	11.1	15.31
	1912	101	67.5	3.0	64.4	29.7	3.0	.....	.247	.....	29.7	56.4	13.8	16.71
Roll hands, other, sheared-plate mills:														
6 plants	1910	14	68.0	.....	71.4	28.6	.....	.....	.263	.....	42.9	14.3	42.9	17.71
	1911	14	68.9	.....	42.9	57.1	.....	.....	.242	14.3	14.3	57.1	14.3	16.64
	1912	14	68.9	.....	42.9	57.1	.....	.....	.279	14.3	14.3	35.7	35.7	19.16
Shearmen's helpers:														
11 plants	1910	460	68.4	1.5	56.7	41.7	.....	.....	.215	9.7	47.4	28.5	14.3	14.71
	1911	429	68.4	3.7	40.6	55.7	.....	.....	.206	13.8	52.7	27.3	6.3	14.20
	1912	432	68.6	2.5	39.4	58.1	.....	.....	.223	4.1	56.3	20.2	19.5	15.42
Table men, sheared-plate mills:														
9 plants	1910	73	68.3	.....	68.5	31.5	.....	.....	.262	8.2	24.7	37.0	30.1	17.88
	1911	72	68.1	.....	58.3	41.7	.....	.....	.246	4.2	41.7	29.2	25.0	16.81
	1912	69	68.3	.....	56.5	43.5	.....	.....	.279	.....	30.4	34.7	34.8	19.07
										Under 20 cts.	20 and under 30 cts.	30 and under 40 cts.	40 cts. and over.	
Charging-crane and charging-machine operators:														
9 plants	1910	41	71.6	.....	34.1	56.1	.....	9.8	.303	.....	65.8	19.5	14.6	21.85
	1911	39	69.4	7.7	33.3	56.4	.....	2.6	.283	12.8	43.5	38.5	5.2	19.70
	1912	38	69.1	7.9	34.2	57.9	.....	.....	.315	10.5	36.8	36.8	15.7	21.85
Manipulators, sheared-plate mills:														
9 plants	1910	26	68.4	.....	69.2	30.8	.....	.....	.318	.....	53.9	15.4	30.8	21.64
	1911	28	68.1	.....	57.1	42.9	.....	.....	.300	10.7	46.4	25.0	17.9	20.44
	1912	28	68.1	.....	57.1	42.9	.....	.....	.341	14.3	42.9	7.1	35.7	23.24
Roll engineers:														
11 plants	1910	36	71.5	.....	27.8	61.1	11.1	.....	.300	11.2	44.5	33.3	11.2	21.45
	1911	35	70.8	5.7	34.3	37.1	17.1	5.7	.290	8.6	54.3	28.6	8.6	20.55
	1912	35	71.5	5.7	34.3	34.3	17.1	8.6	.289	8.6	54.3	28.6	8.6	20.78
Roll hands, other, universal mills, 48-inch:														
2 plants	1910	6	70.0	.....	33.3	66.7	.....	.....	.299	.....	33.3	66.7	.....	20.93
	1911	4	72.0	.....	.....	100.0	.....	.....	.299	.....	50.0	50.0	.....	21.55
	1912	4	72.0	.....	.....	100.0	.....	.....	.288	.....	50.0	50.0	.....	20.74
Screw men, side rolls, universal mills, 48-inch:														
4 plants	1910	10	69.2	.....	60.0	40.0	.....	.....	.314	.....	40.0	40.0	20.0	21.77
	1911	9	66.3	22.2	44.4	33.3	.....	.....	.296	.....	44.4	44.4	11.1	19.80
	1912	9	66.3	22.2	44.4	33.3	.....	.....	.271	44.4	.....	55.6	.....	18.12

[1] Including 5.2 per cent working 91 hours per week.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—PLATE MILLS—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				60 and under	Over 60 and under 72	72	Over 72 and under 84	84		Under 20 cts.	20 and under 30 cts.	30 and under 40 cts.	40 cts. and over.	
Shearmen:														
11 plants	1910	70	67.5	2.9	64.3	32.9	.....	.....	$0.378	1.4	32.9	32.9	32.8	$25.69
	1911	66	68.0	6.1	42.4	51.5	.....	.....	.356	1.5	37.8	31.8	28.7	24.45
	1912	68	68.2	5.9	39.7	54.4	.....	.....	.386	.....	36.8	27.9	35.3	26.61
										Under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 cts and over.	
Heaters:														
11 plants	1910	56	71.0	.....	39.3	53.6	.....	7.1	.508	7.1	14.3	21.4	57.1	36.35
	1911	55	69.1	5.4	38.2	54.5	.....	1.8	.468	5.5	27.3	20.0	47.3	32.46
	1912	53	69.4	5.7	35.8	52.8	5.7	.....	.513	5.7	17.0	11.3	66.1	35.78
Rollers, sheared-plate mills:														
9 plants	1910	28	68.4	.....	71.4	28.6	.....	.....	.712	21.4	7.1	14.3	57.1	48.18
	1911	28	68.1	3.6	53.6	42.9	.....	.....	.607	21.4	7.1	14.3	57.1	41.46
	1912	25	68.5	4.0	48.0	48.0	.....	.....	.729	4.0	8.0	24.0	64.0	50.03
Rollers, universal mills, 48-inch:														
4 plants	1910	8	69.5	.....	50.0	50.0	.....	.....	.636	.....	25.0	.....	75.0	44.22
	1911	7	68.4	14.3	28.6	57.1	.....	.....	.584	.....	28.6	.....	71.5	40.31
	1912	6	67.8	16.7	33.3	50.0	.....	.....	.581	33.3	.....	.....	66.7	39.78
Screw men, main rolls, universal mills, 48-inch:														
4 plants	1910	8	69.5	.....	50.0	50.0	.....	.....	.470	.....	25.0	25.0	50.0	32.75
	1911	7	66.6	28.6	28.6	42.9	.....	.....	.421	14.3	14.3	57.1	14.3	28.23
	1912	7	66.6	28.6	28.6	42.9	.....	.....	.407	28.6	.....	57.1	14.3	27.38
Screw men, sheared-plate mills:														
9 plants	1910	28	68.6	.....	64.3	35.7	.....	.....	.421	14.3	35.7	21.4	28.6	28.75
	1911	28	68.6	3.6	46.4	50.0	.....	.....	.393	25.0	35.7	14.3	25.0	26.95
	1912	27	68.8	3.7	44.4	51.9	.....	.....	.446	18.5	33.3	11.1	37.0	73.06

To aid in making a comparison of the data over a period of several years which will give an accurate measure of the changes throughout the period, relative or index numbers have been computed from the averages of the preceding table for the full-time hours per week, rates of wages per hour, and full-time weekly earnings of each occupation from 1910 to 1912, inclusive. Such figures appear in the table following.

These relative or index numbers are simply percentages for which the data for 1912 are taken as the base, or 100 per cent. The relative for each year is the per cent which the average for that year is of the average for 1912. For example, the relative full-time weekly earnings of charging-crane and charging-machine operators in 1911 were 90.2 as compared with 100 in 1912; that is, the full-time weekly earnings of charging-crane and charging-machine operators in 1911 were

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

90.2 per cent of the full-time weekly earnings in this occupation in 1912.

The method of computing relative numbers is explained on page 21. This table also shows for each occupation the per cent of increase or decrease in full-time hours per week, rates of wages per hour, and full-time weekly earnings in 1912, as compared with each specified year preceding. Thus, the full-time weekly earnings of charging-crane and charging-machine operators in 1912 were 10.9 per cent higher than in 1911, and the same as in 1910.

In other columns of the table is shown the per cent of change in each year as compared with the year immediately preceding. Thus, the full-time weekly earnings of charging-crane and charging-machine operators in 1912 were 10.9 per cent higher than in 1911, and in 1911 were 9.8 per cent lower than in 1910. The other occupations and items of the table can be studied in like manner. The percentages of increase and decrease are computed from the relative numbers.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—PLATE MILLS.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.
Charging-crane and charging-machine operators:									
1910	103.6	−3.5	.....	96.2	+ 4.0	.....	100.0	(1)	.....
1911	100.4	− .4	−3.1	89.8	+11.4	− 6.7	90.2	+10.9	− 9.8
1912	100.0	.....	− .4	100.0	.....	+11.4	100.0	.....	+10.9
Heaters:									
1910	102.3	−2.2	.....	99.0	+ 1.0	.....	101.6	− 1.6	.....
1911	99.6	+ .4	−2.6	91.2	+ 9.6	− 7.9	90.7	+10.3	−10.7
1912	100.0	.....	+ .4	100.0	.....	+ 9.6	100.0	.....	+10.3
Heaters' helpers:									
1910	103.0	−2.9	.....	98.4	+ 1.6	.....	101.6	− 1.6	.....
1911	99.7	+ .3	−3.2	91.9	+ 8.8	− 6.6	91.6	+ 9.2	− 9.8
1912	100.0	.....	+ .3	100.0	.....	+ 8.8	100.0	.....	+ 9.2
Roll engineers:									
1910	100.0	(1)	.....	103.8	− 3.7	.....	103.2	− 3.1	.....
1911	99.0	+1.0	−1.0	100.3	− .3	− 3.4	98.9	+ 1.1	− 4.3
1912	100.0	.....	+1.0	100.0	.....	− .3	100.0	.....	+ 1.1
Sheared plate mills:									
Rollers—									
1910	99.9	+ .1	.....	97.7	+ 2.4	.....	96.3	+ 3.8	.....
1911	99.4	+ .6	− .5	83.3	+20.0	−14.7	82.9	+20.6	−13.9
1912	100.0	.....	+ .6	100.0	.....	+20.0	100.0	.....	+20.6
Screw men—									
1910	99.7	+ .3	.....	94.4	+ 5.9	.....	93.7	+ 6.7	.....
1911	99.7	+ .3	(1)	88.1	+13.5	− 6.7	87.9	+13.8	− 6.2
1912	100.0	.....	+ .3	100.0	.....	+13.5	100.0	.....	+13.8

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—PLATE MILLS—Concluded.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.
Sheared plate mills—Cond.									
Manipulators—									
1910	100.4	−0.4	.....	93.3	+ 7.2	.....	93.1	+ 7.4	.....
1911	100.0	(1)	−0.4	88.0	+13.6	− 5.7	88.0	+13.6	− 5.5
1912	100.0	.....	(1)	100.0	.....	+13.6	100.0	.....	+13.6
Table men—									
1910	100.0	(1)	.....	93.9	+ 6.5	.....	93.8	+ 6.6	.....
1911	99.7	+ .3	− .3	88.2	+13.4	− 6.1	88.1	+13.5	− 6.1
1912	100.0	.....	+ .3	100.0	.....	+13.4	100.0	.....	+13.5
Roll hands, other—									
1910	98.7	+1.3	.....	94.3	+ 6.0	.....	92.4	+ 8.2	.....
1911	100.0	(1)	+1.3	86.7	+15.3	− 8.1	86.8	+15.2	− 6.1
1912	100.0	.....	(1)	100.0	.....	+15.3	100.0	.....	+15.2
Universal mills, 48-inch:									
Rollers—									
1910	102.5	−2.4	.....	109.5	− 8.7	.....	111.2	−10.1	.....
1911	100.9	− .9	−1.6	100.5	− .5	− 8.2	101.3	− 1.3	− 8.9
1912	100.0	.....	− .9	100.0	.....	− .5	100.0	.....	− 1.3
Screw men, main rolls—									
1910	104.4	−4.2	.....	115.5	−13.4	.....	119.6	−16.4	.....
1911	100.0	(1)	−4.2	103.4	− 3.3	−10.5	103.1	− 3.0	−13.8
1912	100.0	.....	(1)	100.0	.....	− 3.3	100.0	.....	− 3.0
Screw men, side rolls—									
1910	104.4	−4.2	.....	115.9	−13.7	.....	120.1	−16.7	.....
1911	100.0	(1)	−4.2	109.2	− 8.4	− 5.8	109.3	− 8.5	− 9.0
1912	100.0	.....	(1)	100.0	.....	− 8.4	100.0	.....	− 8.5
Roll hands, other—									
1910	97.2	+2.9	.....	103.8	− 3.7	.....	100.9	− .9	.....
1911	100.0	(1)	+2.9	103.8	− 3.7	(1)	103.9	− 3.8	+ 3.0
1912	100.0	.....	(1)	100.0	.....	− 3.7	100.0	.....	− 3.8
Shearmen:									
1910	99.0	+1.0	.....	97.9	+ 2.1	.....	96.5	+ 3.6	.....
1911	99.7	+ .3	+ .7	92.2	+ 8.5	− 5.8	91.9	+ 8.8	− 4.8
1912	100.0	.....	+ .3	100.0	.....	+ 8.5	100.0	.....	+ 8.8
Shearmen's helpers:									
1910	99.7	+ .3	.....	96.4	+ 3.7	.....	95.4	+ 4.8	.....
1911	99.7	+ .3	(1)	92.4	+ 8.2	− 4.1	92.1	+ 8.6	− 3.5
1912	100.0	.....	+ .3	100.0	.....	+ 8.2	100.0	.....	+ 8.6
Laborers:									
1910	97.8	+2.2	.....	99.4	+ .6	.....	96.7	+ 3.4	.....
1911	96.9	+3.2	− .9	98.8	+ 1.2	− .6	95.2	+ 5.0	− 1.6
1912	100.0	.....	+3.2	100.0	.....	+ 1.2	100.0	.....	+ 5.0

[1] No change.

A like table of relative numbers and percentages is next shown for the plate-mills department as a whole, as determined by a combination of the data for the several principal productive occupations of the department which are covered by this report. The method of computing the figures of this table is explained on page 22.

From the table, under "weekly earnings," it is seen that the relative full-time weekly earnings of the department as a whole in 1910 were 96.2 as compared with 100 in 1912. In other words, the full-time weekly earnings in 1910 were 96.2 per cent of such earnings in

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

1912. The relative decrease to 92.7 in 1911; and in 1912, the base year, the relative was 100.

The next column shows that the full-time weekly earnings in 1912 were 4 per cent higher than in 1910 and 7.9 per cent higher than in 1911. The third column under "weekly earnings" shows the per cent of increase or decrease in full-time weekly earnings each year as compared with the year immediately preceding. Thus, the full-time weekly earnings in 1911 were 3.6 per cent lower than in 1910 and 7.9 per cent higher in 1912 than in 1911.

The relative numbers and percentages for full-time hours per week and rates of wages per hour can be read in like manner.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, ALL OCCUPATIONS—PLATE MILLS.

Year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.		1912 as compared with each specified year.	Each year compared with year preceding.
1910	99.7	+0.3	.....	96.9	+3.2	.....	96.2	+4.0	.....
1911	99.1	+ .9	−0.6	93.5	+7.0	−3.5	92.7	+7.9	−3.6
1912	100.0	.....	+ .9	100.0	.....	+7.0	100.0	.....	+7.9

In considering weekly earnings, it should be remembered that a reduction of hours tends to reduce weekly earnings, just as an increase in wages per hour, of course, tends to increase them. Still another influence on average weekly earnings for the department must be considered; that is the change in the relative number of employees in the several occupations from year to year. It is obvious that an increase in the relative number of employees in the lower-paid occupations or a decrease in the relative number of those in the higher-paid ones would tend to lower the average for all occupations, just as an increase in the relative number of employees in the higher-paid occupations or a decrease in the relative number in the lower-paid ones would tend to increase the average.

The number and per cent of employees in plate-mill plants whose customary working time per week was 5 days or turns, or 6 days, or 7 days, or variations thereof, are shown in the following table.

The heading "5 and 6 days, alternately" indicates that the plants were running 6 days and 5 nights each week, being shut down for one

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

day and a half each week, and that the employees reported under this heading work 6 days one week and 5 nights the next. The heading "6 and 7 days alternately" indicates that the plants were not in operation half a day in each week, the employees reported working 6 turns one week and 7 the next week. The figures are presented for each district and for the four districts combined.

NUMBER AND PER CENT OF EMPLOYEES IN EACH DISTRICT WORKING EACH SPECIFIED NUMBER OF DAYS PER WEEK, BY YEARS, 1910 TO 1912—PLATE MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

District, and number of plants.	Year.	Number of employees.	Number of employees whose customary working time per week was—					Per cent of employees whose customary working time per week was—				
			5 days.	5 days and 6 days alternately.	6 days.	6 days and 7 days alternately.	7 days.	5 days.	5 days and 6 days alternately.	6 days.	6 days and 7 days alternately.	7 days.
Eastern:												
2 plants	1910	343	.....	84	253	.....	6	.....	24.5	73.8	.....	1.7
	1911	343	.....	268	75	.....	.....	.....	78.1	21.9	.....	.....
	1912	330	.....	245	84	.....	1	.....	74.2	25.5	.....	.3
Pittsburgh:												
5 plants	1910	709	.....	.....	665	6	38	.....	.....	93.8	0.8	5.4
	1911	621	8	62	492	2	57	1.3	10.0	79.2	.3	9.2
	1912	631	.....	74	477	.....	80	.....	11.7	75.6	.....	12.7
Great Lakes and Middle West:												
4 plants	1910	278	.....	90	172	.....	16	.....	32.4	61.9	.....	5.8
	1911	239	22	91	121	.....	5	9.2	38.1	50.6	.....	2.1
	1912	242	21	87	125	8	1	8.7	36.0	51.7	3.3	.4
Total:												
11 plants	1910	1,330	.....	174	1,090	6	60	.....	13.1	82.0	.5	4.5
	1911	1,203	30	421	688	2	62	2.5	35.0	57.2	.2	5.2
	1912	1,203	21	406	686	8	82	1.7	33.7	57.0	.7	6.8

In addition to the text tables presented in the summary, six general tables are presented for the plate-mill department, as follows:

Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1910 to 1912.

Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1910 to 1912.

Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1910 to 1912.

Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1910 to 1912.

Table V.—Average and classified full-time hours of work per week in each year, by districts, 1910 to 1912.

Table VI.—Average and classified full-time hours of work per week in each district, by years, 1910 to 1912.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

In Tables I and IV, in addition to actual data, percentages computed therefrom are given. The data from these two tables are summarized in the text table on pages 246 and 247.

Tables III and VI repeat the data for the several districts given in Tables II and V, rearranged for the convenience of the reader.

A brief description of the function of the plate mills is presented on page 24.

DESCRIPTION OF OCCUPATIONS.

The following description of occupations refers only to those occupations which appear in the tables of this report—these being nearly all of the principal productive occupations in the plate-mill department.

The order in which the occupations are given follows that of the processes of manufacture.

CHARGING-CRANE AND CHARGING-MACHINE OPERATORS.

Duties.—Operate levers controlling the various types of charging cranes and machines used for placing slabs in the furnace and removing them when properly heated. The most common type consists of an overhead crane with a suspended revolving carriage on which is mounted a long arm with a special grip for holding the slab. The bar is hooked at the end so that it will fit over one end of a slab, the other end being held by a block controlled by the machine operator, which pushes the slab tightly into the hook. The whole arrangement is very much like hooking a bent forefinger over a slab and then holding it in place with the thumb. In charging, the arm is swung over the trucks on which the slabs are brought from the slab mill, the arm is lowered and the hook at the end caught over the end of a slab, the bar carrying the holding block is then shoved up against the other end of the slab, which is then lifted and swung around in front of the proper furnace door. The furnace door is opened and the whole suspended carriage moves forward until the arm is well inside the furnace, the holding block is released, and the slab left on the floor of the furnace. Other types of charging machines are much like those described for the open hearth.

Nature of work.—The character of the work and the amount of skill and experience required vary widely according to the type of charging machine as well as the kind of furnace used. In the majority of cases the work requires a good deal of skill as there are many levers to be controlled and the work must be done rapidly.

HEATERS.

Duties.—In charge of the furnaces for reheating slabs. Their duties are to maintain the proper temperature within the furnaces and to direct the charging and drawing of the slabs. As a rule the furnaces are not "continuous," the slabs being charged and drawn at the same end of the furnace.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

Nature of work.—A highly skilled occupation, requiring long experience and considerable practical knowledge of the heat treatment of metals.

HEATERS' HELPERS.

Duties.—Assist the heater in all his duties. The number employed and functions performed by them depend largely on the type of furnace and whether they perform any duties, such as charging slabs, usually performed by men in separate occupations. They repair bottoms in case cinder or sand bottomed furnaces are used, and also assist in making other repairs. Heaters' helpers frequently operate the conveyor which carries the slabs to the rolls.

Nature of work.—The work is very diversified, requiring in part highly skilled men and in part relatively unskilled men. Where a heater has a large number of furnaces under his direction, his first helpers are highly skilled men, capable of looking after all the details for the separate furnaces.

ROLL ENGINEERS.

Duties.—See same occupation named on page 219 (blooming mills). Very few of the plate mills in this country are reversing, the majority being "three high."

Nature of work.—Same general conditions as in blooming mills.

SHEARED-PLATE MILLS—ROLLING CREW.

ROLLERS.

Duties.—Supervise and direct the entire process of rolling and the changing of rolls. Are responsible for the condition of the plate as it leaves the rolls. In order to give the plate the proper width, the roller takes advantage of the fact that plate when rolled lengthens considerably in the direction of rolling, but does not widen to any appreciable extent at each pass. The slab is accordingly delivered on the roll table with the long side of the rectangle leading, and is given enough passes in this direction to extend the plate to almost the width desired. The roller gauges it after each pass with a long bar, which has mounted on it a slidable marker. When it reaches the proper dimension in the direction of rolling, the roller orders the "hookers" to give the slab a quarter turn, which brings the short side first, and the piece is then rolled back and forth until it is rolled down to the exact width and thickness required. During this period the roller gauges the thickness of the plate frequently with calipers. The roller, during the course of rolling, indicates to the screw man how much nearer the rolls should be brought together.

Nature of work.—This is a very responsible and highly skilled occupation, which requires a special knowledge of the working of

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

iron and steel that can be gained only by long experience. It is impossible to convey in a description the kind and degree of knowledge required to produce uniform plates of the proper width and thickness on which the loss shall be as little as possible. The roller must be able to direct the heater when the slabs are not heated properly.

SCREW MEN.

Duties.—Operate levers or wheel controlling hydraulic or electric mechanism actuating the screw by which the distance between the rolls is regulated. This mechanism is connected with a dial on which the distance between the rolls is indicated automatically.

Nature of work.—This is responsible work, requiring considerable experience. The screw man is signaled by the roller from time to time at what distance to keep the rolls, but the screw man is responsible for making the proper changes. His position is in a "pulpit" not far from the rolls.

MANIPULATORS.

See manipulators, page 220.

TABLE MEN.

Duties.—Their duties resemble very closely those of the table men in blooming mills (p. 220). They turn the slabs around when ordered by the roller and generally assist the manipulator. In many cases they perform the duties of the "scalers" shown below under "roll hands." They also frequently regulate the flow of water on the rolls.

Nature of work.—Their conditions of work are analogous to that of the table men in blooming mills.

ROLL HANDS, OTHER.

Duties.—Include miscellaneous men required by the local conditions as well as the rather definite occupation of "scalers," whose duty is to remove the scale formed on the slab by heating so as to give a polished, smooth surface to the finished plate. This is done by two methods, which may be performed by the same man or two separate occupations may be carried—(*a*) salter, who throws salt on the slab, and (*b*) sweeper-off, who uses a heavy wire brush and rubs the scale off.

Nature of work.—The nature of the work and the skill required vary considerably, according to the exact duties performed.

UNIVERSAL MILLS, 48-INCH—ROLLING CREW.

ROLLERS.

Duties.—Duties and responsibilities are the same as for sheared-plate mills, the only difference being that the plate instead of being

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

turned in order to give the proper width is rolled straight through with the same end first, the width being determined by the side rolls.

Nature of work.—Same as for rollers in sheared-plate mills.

SCREW MEN, MAIN ROLL.

Duties.—Same as for screw men, sheared-plate mills.

Nature of work.—Same as for screw men, sheared-plate mills.

SCREW MEN, SIDE ROLL.

Duties.—Operate the mechanism by which the distance between the two vertical rollers is regulated. The duties are otherwise the same as for the screw men, main roll.

Nature of work.—Same as for screw men, main roll, except that the work is easier.

ROLL HANDS, OTHER.

Same general class as roll hands, sheared-plate mills.

SHEARMEN.

Duties.—In the mills for sheared plates there are usually two sets of shears, one for "end shearing," in which the long piece of plate, as it comes from the rolls, is cut across at the proper point; the other, for "side shearing," takes the pieces as they come from the end shears and cuts them along the lines marked by the layer out. In either case the plate is run out from the roller conveyor on to large "casters," which may be turned in any direction, set on top of bars of equal length, fixed in the floor. The plate is moved along these casters, the shearman at one of the forward corners and the leader at the other, the plate being pushed by the shearman's helpers, who hold it with "dogs" (short iron bars with a slot in the end which fits over the edge of the plate). The shearman brings the line marked for shearing directly under the knife and the leader brings his corner to the proper point. Then at a signal from the shearman the shear lever man brings down the shear knife. The shearman is responsible for the condition of his shears and supervises the work of the entire shearing crew. Rotary shearmen operate rotary shears by which curved lines and other patterns for special shapes may be followed.

Nature of work.—The position requires considerable experience and a very accurate judgment. The responsibility is considerable, as the shearman by the slightest error may spoil a valuable plate. He has the supervision of a large crew of men, and it is his duty to oversee the work of the layers out in order that the greatest possible amount of salable plate may be got out of the material. The work of a shearman is comparatively heavy, and is usually done by men of good physique.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

SHEARMEN'S HELPERS.

Duties.—Include three grades of helpers: (*a*) "Leaders," who guide the plate on the casters and "line it up" at the mark where it is to be cut; (*b*) "shear lever men," who, at the direction of the shearman, pull the lever which operates the knife; (*c*) "shear laborers," who, as described above, pull the plate along on the casters and assist in handling the sheared plates; there are also "scrap men," who clean up the pieces of scrap made in shearing.

Nature of work.—The leaders are highly skilled men, who may be considered as being in training for shearmen. Except for the responsibility and supervisory duties, their work is of the same character as that of the shearmen. The work of the other helpers is not heavy and requires very little skill or experience.

LABORERS.

See page 221 (blooming mills).

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912.

PLATE MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over
Charging-crane and charging-machine operators:																
9 plants	1910	41	71.6	$0.303	$21.85	.....	.....	.....	.....	11	16	8	6	.....	.....	.....
	1911	39	69.4	.283	19.70	.....	.....	.....	5	10	7	15	1	1	.....	.....
	1912	38	69.1	.315	21.85	.....	.....	.....	4	7	7	14	4	1	1	.....
Heaters:																
11 plants	1910	56	71.0	.508	36.35	.....	.....	.....	.....	.....	4	8	12	20	8	4
	1911	55	69.1	.468	32.46	.....	.....	.....	.....	.....	3	15	11	21	4	1
	1912	53	69.4	.513	35.78	.....	.....	.....	.....	.....	3	9	6	24	9	2
Heaters' helpers:																
10 plants	1910	111	69.5	.243	16.98	.....	10	19	14	22	28	6	12	.....	.....	.....
	1911	108	67.3	.227	15.31	.....	11	17	16	33	19	5	7	.....	.....	.....
	1912	101	67.5	.247	16.71	.....	.....	14	16	38	19	7	7	.....	.....	.....
Roll engineers:																
11 plants	1910	36	71.5	.300	21.45	.....	.....	2	2	2	14	12	2	2	.....	.....
	1911	35	70.8	.290	20.55	.....	.....	3	.....	3	16	10	3	.....	.....	.....
	1912	35	71.5	.289	20.78	.....	.....	3	.....	3	16	10	3	.....	.....	.....
Rollers, sheared-plate mills:																
9 plants	1910	28	68.4	.712	48.18	.....	.....	.....	.....	6	.....	2	4	2	2	12
	1911	28	68.1	.607	41.46	.....	.....	.....	.....	.....	6	2	4	3	6	7
	1912	25	68.5	.729	50.03	.....	.....	.....	.....	.....	1	2	6	2	2	12
Screw men, sheared-plate mills:																
9 plants	1910	28	68.6	.421	28.75	.....	.....	.....	.....	.....	4	10	6	4	4	.....
	1911	28	68.6	.393	26.95	.....	.....	.....	.....	1	6	10	4	5	2	.....
	1912	27	68.8	.446	30.67	.....	.....	.....	.....	1	4	9	3	4	5	1
Manipulators, sheared-plate mills:																
9 plants	1910	26	68.4	.318	21.64	.....	.....	.....	.....	8	6	4	8	.....	.....	.....
	1911	28	68.1	.300	20.44	.....	.....	1	2	9	4	7	5	.....	.....	.....
	1912	28	68.1	.341	23.24	.....	.....	1	3	4	8	2	8	2	.....	.....
Table men, sheared-plate mills:																
9 plants	1910	73	68.3	.262	17.88	2	4	.....	18	19	8	20	2	.....	.....	.....
	1911	72	68.1	.246	16.81	.....	3	12	18	12	9	12	6	.....	.....	.....
	1912	69	68.3	.279	19.07	.....	.....	8	13	21	3	12	10	2	.....	.....
Roll hands, other, sheared-plate mills:																
6 plants	1910	14	68.0	.263	17.71	.....	.....	4	2	.....	2	6	.....	.....	.....	.....
	1911	14	68.9	.242	16.64	.....	2	2	.....	5	3	.....	2	.....	.....	.....
	1912	14	68.9	.279	19.16	.....	2	.....	2	2	3	3	2	.....	.....	.....
Rollers, universal mills, 48-inch:																
4 plants	1910	8	69.5	.636	44.22	.....	.....	.....	.....	.....	.....	2	.....	.....	2	4
	1911	7	68.4	.584	40.31	.....	.....	.....	.....	.....	.....	2	.....	.....	3	2
	1912	6	67.8	.581	39.78	.....	.....	.....	.....	.....	2	.....	.....	.....	1	3
Screw men, main rolls, universal mills, 48-inch:																
4 plants	1910	8	69.5	.470	32.75	.....	.....	.....	.....	.....	.....	2	2	2	2	.....
	1911	7	66.6	.421	28.23	.....	.....	.....	.....	.....	1	1	4	1	.....	.....
	1912	7	66.6	.407	27.38	.....	.....	.....	.....	2	.....	.....	4	1	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Screw men, side rolls, universal mills, 48-inch:																
4 plants	1910	10	69.2	$0.314	$21.77	.....	.....	.....	.....	4	.....	4	2	.....	.....	.....
	1911	9	66.3	.296	19.80	.....	.....	.....	.....	4	.....	4	1	.....	.....	.....
	1912	9	66.3	.271	18.12	.....	.....	.....	4	.....	.....	5	.....	.....	.....	.....
Roll hands, other, universal mills, 48-inch:																
2 plants	1910	6	70.0	.299	20.93	.....	.....	.....	.....	.....	2	4	.....	.....	.....	.....
	1911	4	72.0	.299	21.55	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....
	1912	4	72.0	.288	20.74	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....
Shearmen:																
11 plants	1910	70	67.5	.378	25.69	.....	.....	.....	1	9	14	23	7	8	4	4
	1911	66	68.0	.356	24.45	.....	.....	.....	1	9	16	21	7	9	3	.....
	1912	68	68.2	.336	26.61	.....	.....	.....	.....	8	17	19	8	9	7	.....
Shearmen's helpers:																
11 plants	1910	460	68.4	.215	14.71	14	31	145	73	76	55	64	2	.....	.....	.....
	1911	429	68.4	.206	14.20	14	45	48	178	55	62	26	1	.....	.....	.....
	1912	432	68.6	.223	15.42	14	4	98	145	69	18	78	6	.....	.....	.....
Laborers:																
11 plants	1910	355	66.8	.159	10.68	63	36	253	3	.....	.....	.....	.....	.....	.....	.....
	1911	274	66.2	.158	10.51	65	26	183	.....	.....	.....	.....	.....	.....	.....	.....
	1912	287	68.3	.160	11.04	75	21	187	4	.....	.....	.....	.....	.....	.....	.....

PER CENT.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Charging-crane and charging-machine operators:																
9 plants	1910	41	71.6	$0.303	$21.85	.....	.....	.....	.....	26.8	39.0	19.5	14.6	.....	.....	.....
	1911	39	69.4	.283	19.70	.....	.....	.....	12.8	25.6	17.9	38.5	2.6	2.6	.....	.....
	1912	38	69.1	.315	21.85	.....	.....	.....	10.5	18.4	18.4	36.8	10.5	2.6	2.6	.....
Heaters:																
11 plants	1910	56	71.0	.508	36.35	.....	.....	.....	.....	.....	7.1	14.3	21.4	35.7	14.3	7.1
	1911	55	69.1	.468	32.46	.....	.....	.....	.....	.....	5.5	27.3	20.0	38.2	7.3	1.8
	1912	53	69.4	.513	35.78	.....	.....	.....	.....	.....	5.7	17.0	11.3	45.3	17.0	3.8
Heaters' helpers:																
10 plants	1910	111	69.5	.243	16.98	.....	9.0	17.1	12.6	19.8	25.2	5.4	10.8	.....	.....	.....
	1911	108	67.3	.227	15.31	.....	10.2	15.7	14.8	30.6	17.6	4.6	6.5	.....	.....	.....
	1912	101	67.5	.247	16.71	.....	.....	13.9	15.8	37.6	18.8	6.9	6.9	.....	.....	.....
Roll engineers:																
11 plants	1910	36	71.5	.300	21.45	.....	.....	5.6	5.6	5.6	38.9	33.3	5.6	5.6	.....	.....
	1911	35	70.8	.290	20.55	.....	.....	8.6	.....	8.6	45.7	28.6	8.6	.....	.....	.....
	1912	35	71.5	.289	20.78	.....	.....	8.6	.....	8.6	45.7	28.6	8.6	.....	.....	.....
Rollers, sheared-plate mills:																
9 plants	1910	28	68.4	.712	48.18	.....	.....	.....	.....	21.4	.....	7.1	14.3	7.1	7.1	42.9
	1911	28	68.1	.607	41.46	.....	.....	.....	.....	.....	21.4	7.1	14.3	10.7	21.4	25.0
	1912	25	68.5	.729	50.03	.....	.....	.....	.....	.....	4.0	8.0	24.0	8.0	8.0	48.0
Screw men, sheared-plate mills:																
9 plants	1910	28	68.6	.421	28.75	.....	.....	.....	.....	.....	14.3	35.7	21.4	14.3	14.3	.....
	1911	28	68.6	.393	26.95	.....	.....	.....	.....	3.6	21.4	35.7	14.3	17.9	7.1	.....
	1912	27	68.8	.446	30.67	.....	.....	.....	.....	3.7	14.8	33.3	11.1	14.8	18.5	3.7

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Concluded.

PLATE MILLS—Continued.

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Manipulators, sheared-plate mills:																
9 plants	1910	26	68.4	$0.318	$21.64	.....	.....	.....	.....	30.8	23.1	15.4	30.8	.....	.....	.....
	1911	28	68.1	.300	20.44	.....	.....	3.6	7.1	32.1	14.3	25.0	17.9	.....	.....	.....
	1912	28	68.1	.341	23.24	.....	.....	3.6	10.7	14.3	28.6	7.1	28.6	7.1	.....	.....
Table men, sheared-plate mills:																
9 plants	1910	73	68.3	.262	17.88	2.7	5.5	.....	24.7	26.0	11.0	27.4	2.7	.....	.....	.....
	1911	72	68.1	.246	16.81	.....	4.2	16.7	25.0	16.7	12.5	16.7	8.3	.....	.....	.....
	1912	69	68.3	.279	19.07	.....	.....	11.6	18.8	30.4	4.3	17.4	14.5	2.9	.....	.....
Roll hands, other, sheared-plate mills:																
6 plants	1910	14	68.0	.263	17.71	.....	.....	28.6	14.3	.....	14.3	42.9	.....	.....	.....	.....
	1911	14	68.9	.242	16.64	.....	14.3	14.3	.....	35.7	21.4	.....	14.3	.....	.....	.....
	1912	14	68.9	.279	19.16	.....	14.3	.....	14.3	14.3	21.4	21.4	14.3	.....	.....	.....
Rollers, universal mills, 48-inch:																
4 plants	1910	8	69.5	.636	44.22	.....	.....	.....	.....	.....	.....	25.0	.....	.....	25.0	50.0
	1911	7	68.4	.584	40.31	.....	.....	.....	.....	.....	.....	28.6	.....	.....	42.9	28.6
	1912	6	67.8	.581	39.78	.....	.....	.....	.....	.....	33.3	.....	.....	.....	16.7	50.0
Screw men, main rolls, universal mills, 48-inch:																
4 plants	1910	8	69.5	.470	32.75	.....	.....	.....	.....	.....	.....	25.0	25.0	25.0	25.0	.....
	1911	7	66.6	.421	28.23	.....	.....	.....	.....	.....	14.3	14.3	57.1	14.3	.....	.....
	1912	7	66.6	.407	27.38	.....	.....	.....	.....	28.6	.....	.....	57.1	14 3	.....	.....
Screw men, side rolls, universal mills, 48-inch:																
4 plants	1910	10	69.2	.314	21.77	.....	.....	.....	.....	40.0	.....	40.0	20.0	.....	.....	.....
	1911	9	66.3	.296	19.80	.....	.....	.....	.....	44.4	.....	44.4	11.1	.....	.....	.....
	1912	9	66.3	.271	18.12	.....	.....	.....	44.4	.....	.....	55.6	.....	.....	.....	.....
Roll hands, other, universal mills, 48-inch:																
2 plants	1910	6	70.0	.299	20.93	.....	.....	.....	.....	.....	33.3	66.7	.....	.....	.....	.....
	1911	4	72.0	.299	21.55	.....	.....	.....	.....	.....	50.0	50.0	.....	.....	.....	.....
	1912	4	72.0	.288	20.74	.....	.....	.....	.....	.....	50.0	50.0	.....	.....	.....	.....
Shearmen:																
11 plants	1910	70	67.5	.378	25.69	.....	.....	.....	1.4	12.9	20.0	32.9	10.0	11.4	5.7	5.7
	1911	66	68.0	.356	24.45	.....	.....	.....	1.5	13.6	24.2	31.8	10.6	13.6	4.5	.....
	1912	68	68.2	.386	26.61	.....	.....	.....	.....	11.8	25.0	27.9	11.8	13.2	10.3	.....
Shearmen's helpers:																
11 plants	1910	460	68.4	.215	14.71	3.0	6.7	31.5	15.9	16.5	12.0	13.9	.4	.....	.....	.....
	1911	429	68.4	.206	14.20	3.3	10.5	11.2	41.5	12.8	14.5	6.1	.2	.....	.....	.....
	1912	432	68.6	.223	15.42	3.2	.9	22.7	33.6	16.0	4.2	18.1	1.4	.....	.....	.....
Laborers:																
11 plants	1910	355	66.8	.159	10.68	17.7	10.1	71.3	.8	.....	.....	.....	.....	.....	.....	.....
	1911	274	66.2	.158	10.51	23.7	9.5	66.8	.....	.....	.....	.....	.....	.....	.....	.....
	1912	287	68.3	.160	11.04	26.1	7.3	65.2	1.4	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912.

PLATE MILLS—Continued.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West."]

CHARGING-CRANE AND CHARGING-MACHINE OPERATORS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	2	8	67.9	$0.242	$16.41					6	2					
Pittsburgh	3	20	71.4	.302	21.58					4	8	8				
G. L. and M. W.	4	13	74.3	.343	25.61					1	6		6			
Total	9	41	71.6	.303	21.85					11	16	8	6			
1911.																
Eastern	2	8	66.2	.221	14.61				1	5	2					
Pittsburgh	3	20	70.8	.273	19.42				4	4	4	8				
G. L. and M. W.	4	11	69.3	.346	23.90					1	1	7	1	1		
Total	9	39	69.4	.283	19.70				5	10	7	15	1	1		
1912.																
Eastern	2	8	66.2	.240	15.85					6	2					
Pittsburgh	3	20	70.8	.314	22.39				4		4	8	4			
G. L. and M. W.	4	10	67.9	.378	25.55					1	1	6		1	1	
Total	9	38	69.1	.315	21.85				4	7	7	14	4	1	1	

HEATERS.

1910.																
Eastern	2	20	68.2	$0.368	$25.20						4	8	6	2		
Pittsburgh	5	24	71.5	.586	41.90								2	16	4	2
G. L. and M. W.	4	12	74.5	.587	43.85								4	2	4	2
Total	11	56	71.0	.508	36.35						4	8	12	20	8	4
1911.																
Eastern	2	20	66.8	.351	23.54						3	15	2			
Pittsburgh	5	24	71.0	.518	36.76								9	12	3	
G. L. and M. W.	4	11	69.3	569	39.31									9	1	1
Total	11	55	69.1	.468	32.46						3	15	11	21	4	1
1912.																
Eastern	2	18	67.0	.365	24.47						3	9	6			
Pittsburgh	5	24	71.0	.585	41.62									15	9	
G. L. and M. W.	4	11	69.9	.599	41.54									9		2
Total	11	53	69.4	.513	35.78						3	9	6	24	9	2

HEATERS' HELPERS.

1910.																
Eastern	2	62	67.7	$0.198	$13.44		10	17	10	16	9					
Pittsburgh	5	34	72.4	.264	19.09			2	4	4	18	6				
G. L. and M. W.	3	15	70.5	.383	26.86					2	1		12			
Total	10	111	69.5	.243	16.98		10	19	14	22	28	6	12			
1911.																
Eastern	2	60	65.5	.191	12.50		11	15	12	15	7					
Pittsburgh	5	34	71.3	.242	17.27			2	4	16	10	2				
G. L. and M. W.	3	14	65.1	.347	22.58					2	2	3	7			
Total	10	108	67.3	.227	15.31		11	17	16	33	19	5	7			

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

HEATERS' HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1912.																
Eastern	2	54	65.5	$0.208	$13.59	.....	.....	12	12	24	6	.....	.....	.....	.....	.....
Pittsburgh	5	34	71.3	.259	18.50	.....	.....	2	4	12	9	7	.....	.....	.....	.....
G. L. and M. W.	3	13	65.9	.382	24.98	.....	.....	.....	.....	2	4	.....	7	.....	.....	.....
Total	10	101	67.5	.247	16.71	.....	.....	14	16	38	19	7	7	.....	.....	.....

ROLL ENGINEERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	2	10	68.0	$0.236	$16.00	.....	.....	2	2	2	2	2	.....	.....	.....	.....
Pittsburgh	5	16	73.3	.327	23.93	.....	.....	.....	.....	.....	6	8	.....	2	.....	.....
G. L. and M. W.	4	10	72.0	.319	22.93	.....	.....	.....	.....	.....	6	2	2	.....	.....	.....
Total	11	36	71.5	.300	21.45	.....	.....	2	2	2	14	12	2	2	.....	.....
1911.																
Eastern	2	10	65.6	.234	15.37	.....	.....	3	.....	3	4	.....	.....	.....	.....	.....
Pittsburgh	5	16	74.9	.318	23.65	.....	.....	.....	.....	.....	6	8	2	.....	.....	.....
G. L. and M. W.	4	9	69.3	.301	20.79	.....	.....	.....	.....	.....	6	2	1	.....	.....	.....
Total	11	35	70.8	.290	20.55	.....	.....	3	.....	3	16	10	3	.....	.....	.....
1912.																
Eastern	2	10	65.6	.230	15.11	.....	.....	3	.....	3	4	.....	.....	.....	.....	.....
Pittsburgh	5	16	75.7	.316	23.81	.....	.....	.....	.....	.....	6	8	2	.....	.....	.....
G. L. and M. W.	4	9	70.7	.306	21.71	.....	.....	.....	.....	.....	6	2	1	.....	.....	.....
Total	11	35	71.5	.289	20.78	.....	.....	3	.....	3	16	10	3	.....	.....	.....

ROLLERS, SHEARED-PLATE MILLS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	2	12	67.7	$0.347	$23.46	.....	.....	.....	.....	6	.....	2	2	2	.....	.....
Pittsburgh	5	12	69.5	.800	55.56	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	10
G. L. and M. W.	2	4	67.6	1.540	100.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Total	9	28	68.4	.712	48.18	.....	.....	.....	.....	6	.....	2	4	2	2	12
1911.																
Eastern	2	12	65.4	.346	22.66	.....	.....	.....	.....	.....	6	2	4	.....	.....	.....
Pittsburgh	5	12	71.0	.687	48.82	.....	.....	.....	.....	.....	.....	.....	.....	3	6	3
G. L. and M. W.	2	4	67.6	1.149	75.79	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
Total	9	28	68.1	.607	41.46	.....	.....	.....	.....	.....	6	2	4	3	6	7
1912.																
Eastern	2	9	65.4	.421	27.55	.....	.....	.....	.....	.....	1	2	6	.....	.....	.....
Pittsburgh	5	12	71.0	.794	56.52	.....	.....	.....	.....	.....	.....	.....	.....	2	2	8
G. L. and M. W.	2	4	67.6	1.224	81.12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
Total	9	25	68.5	.729	50.03	.....	.....	.....	.....	.....	1	2	6	2	2	12

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

SCREW MEN, SHEARED-PLATE MILLS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	2	10	67.2	$0.313	$21.00						2	8				
Pittsburgh	5	14	69.9	.468	32.47						2	2	4	2	4	
G. L. and M. W.	2	4	67.6	.524	35.11								2	2		
Total	9	28	68.6	.421	28.75						4	10	6	4	4	
1911.																
Eastern	2	10	65.6	.317	20.77					1	3	6				
Pittsburgh	5	14	71.1	.395	28.08						3	4	4	3		
G. L. and M. W.	2	4	67.6	.574	38.45									2	2	
Total	9	28	68.6	.393	26.95					1	6	10	4	5	2	
1912.																
Eastern	2	9	65.6	.349	22.88						2	6	1			
Pittsburgh	5	14	71.1	.447	31.86					1	2	3	2	2	4	
G. L. and M. W.	2	4	67.6	.656	44.00									2	1	1
Total	9	27	68.8	.446	30.67					1	4	9	3	4	5	1

MANIPULATORS, SHEARED-PLATE MILLS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	2	8	67.0	$0.245	$16.44					4	4					
Pittsburgh	5	14	69.4	.339	23.44					4	2	2	6			
G. L. and M. W.	2	4	67.6	.386	25.75							2	2			
Total	9	26	68.4	.318	21.64					8	6	4	8			
1911.																
Eastern	2	8	65.6	.229	15.01			1		5	2					
Pittsburgh	5	14	70.3	.289	20.49				2	4	2	5	1			
G. L. and M. W.	2	6	66.2	.420	27.58							2	4			
Total	9	28	68.1	.300	20.44			1	2	9	4	7	5			
1912.																
Eastern	2	8	65.6	.256	16.77				2		6					
Pittsburgh	5	14	70.3	.330	23.39			1	1	4	2		6			
G. L. and M. W.	2	6	66.2	.480	31.52							2	2	2		
Total	9	28	68.1	.341	23.24			1	3	4	8	2	8	2		

TABLE MEN, SHEARED-PLATE MILLS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	2	30	66.9	$0.194	$13.02	2	4		14	10						
Pittsburgh	5	30	69.8	.301	20.92				4	4	8	14				
G. L. and M. W.	2	13	68.0	.330	22.08					5		6	2			
Total	9	73	68.3	.262	17.88	2	4		18	19	8	20	2			

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

TABLE MEN, SHEARED-PLATE MILLS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Eastern	2	30	65.7	$0.188	$12.36		3	12	8	4	3					
Pittsburgh	5	30	70.8	.250	17.75				10	8	6	6				
G. L. and M.W.	2	12	67.6	.382	25.55							6	6			
Total	9	72	68.1	.246	16.81		3	12	18	12	9	12	6			
1912.																
Eastern	2	27	65.7	.209	13.70			3	8	13	3					
Pittsburgh	5	30	70.8	.281	20.01			5	5	8		6	6			
G. L. and M.W.	2	12	67.6	.430	28.79							6	4	2		
Total	9	69	68.3	.279	19.07			8	13	21	3	12	10	2		

ROLL HANDS, OTHER, SHEARED-PLATE MILLS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	1	2	68.0	$0.176	$11.97			2								
Pittsburgh	4	10	69.0	.254	17.42			2	2		2	4				
G. L. and M.W.	1	2	63.3	.394	24.92							2				
Total	6	14	68.0	.263	17.71			4	2		2	6				
1911.																
Eastern	1	2	65.3	.162	10.57			2								
Pittsburgh	4	10	70.8	.223	15.87		2			5	3					
G. L. and M.W.	1	2	63.3	.420	26.57								2			
Total	6	14	68.9	.242	16.64		2	2		5	3		2			
1912.																
Eastern	1	2	65.3	.181	11.81				2							
Pittsburgh	4	10	70.8	.258	18.42		2			2	3	3				
G. L. and M.W.	1	2	63.3	.477	30.17								2			
Total	6	14	68.9	.279	19.16		2		2	2	3	3	2			

ROLLERS, UNIVERSAL MILLS, 48-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	1	2	68.0	$0.327	$22.24							2				
Pittsburgh	1	2	66.0	.819	54.05											2
G. L. and M.W.	2	4	72.0	.699	50.29										2	2
Total	4	8	69.5	.636	44.22							2			2	4
1911.																
Eastern	1	2	65.3	.314	20.49							2				
Pittsburgh	1	2	72.0	.739	53.17											2
G. L. and M.W.	2	3	68.0	.662	44.94										3	
Total	4	7	68.4	.584	40.31							2			3	2
1912.																
Eastern	1	2	65.3	.290	18.92						2					
Pittsburgh	1	2	72.0	.744	53.53											2
G. L. and M.W.	2	2	66.0	.708	46.90										1	1
Total	4	6	67.8	.581	39.78						2				1	3

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

SCREW MEN, MAIN ROLLS, UNIVERSAL MILLS, 48-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	1	2	68.0	$0.321	$21.79							2				
Pittsburgh	1	2	66.0	.532	35.11									2		
G. L. and M. W.	2	4	72.0	.515	37.04								2		2	
Total	4	8	69.5	.470	32.75							2	2	2	2	
1911.																
Eastern	1	2	65.3	.306	19.93						1	1				
Pittsburgh	1	2	72.0	.501	36.04								1	1		
G. L. and M. W.	2	3	64.0	.444	28.57								3			
Total	4	7	66.6	.421	28.23						1	1	4	1		
1912.																
Eastern	1	2	65.3	.242	15.79					2						
Pittsburgh	1	2	72.0	.488	35.14								2			
G. L. and M. W.	2	3	64.0	.463	29.94								2	1		
Total	4	7	66.6	.407	27.38					2			4	1		

SCREW MEN, SIDE ROLLS, UNIVERSAL MILLS, 48-INCH.

1910.																
Eastern	1	4	68.0	$0.244	$16.59					4						
Pittsburgh	1	2	66.0	.375	24.75							2				
G. L. and M. W.	2	4	72.0	.354	25.45							2	2			
Total	4	10	69.2	.314	21.77					4		4	2			
1911.																
Eastern	1	4	65.3	.236	15.39					4						
Pittsburgh	1	2	72.0	.355	25.56							2				
G. L. and M. W.	2	3	64.0	.337	21.82							2	1			
Total	4	9	66.3	.296	19.80					4		4	1			
1912.																
Eastern	1	4	65.3	.194	12.66				4							
Pittsburgh	1	2	72.0	.345	24.84							2				
G. L. and M. W.	2	3	64.0	.324	20.91							3				
Total	4	9	66.3	.271	18.12				4			5				

ROLL HANDS, OTHER, UNIVERSAL MILLS, 48-INCH.

1910.																
Pittsburgh	1	2	66.0	$0.288	$19.01						2					
G. L. and M. W.	1	4	72.0	.304	21.89							4				
Total	2	6	70.0	.299	20.93						2	4				

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

ROLL HANDS, OTHER, UNIVERSAL MILLS, 48-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Pittsburgh	1	2	72.0	$0.275	$19.76						2					
G. L. and M. W.	1	2	72.0	.324	23.33							2				
Total	2	4	72.0	.299	21.55						2	2				
1912.																
Pittsburgh	1	2	72.0	.264	19.01						2					
G. L. and M. W.	1	2	72.0	.312	22.46							2				
Total	2	4	72.0	.288	20.74						2	2				
SHEARMEN.																
1910.																
Eastern	2	18	66.4	$0.265	$17.64					7	5	6				
Pittsburgh	5	33	68.2	.471	32.12				1		3	10	5	6	4	4
G. L. and M. W.	4	19	67.5	.324	22.17					2	6	7	2	2		
Total	11	70	67.5	.378	25.69				1	9	14	23	7	8	4	4
1911.																
Eastern	2	17	65.8	.254	16.66					7	8	2				
Pittsburgh	5	32	70.1	.429	30.06				1		2	12	6	8	3	
G. L. and M. W.	4	17	66.2	.323	21.67					2	6	7	1	1		
Total	11	66	68.0	.356	24.45				1	9	16	21	7	9	3	
1912.																
Eastern	2	16	65.9	.273	17.94					4	10	2				
Pittsburgh	5	34	70.2	.465	32.69					2	1	9	6	9	7	
G. L. and M. W.	4	18	66.6	.337	22.83					2	6	8	2			
Total	11	68	68.2	.386	26.61					8	17	19	8	9	7	
SHEARMEN'S HELPERS.																
1910.																
Eastern	2	87	66.9	$0.175	$11.69	10	30	21	2	24						
Pittsburgh	5	238	69.4	.243	16.76	4	1	49	29	48	45	60	2			
G. L. and M. W.	4	135	67.5	.192	13.04			75	42	4	10	4				
Total	11	460	68.4	.215	14.71	14	31	145	73	76	55	64	2			
1911.																
Eastern	2	87	65.4	.166	10.83	10	45	4	25	3						
Pittsburgh	5	229	70.9	.223	15.82	4		38	61	48	58	19	1			
G. L. and M. W.	4	113	65.8	.204	13.52			6	92	4	4	7				
Total	11	429	68.4	.206	14.20	14	45	48	178	55	62	26	1			

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Concluded.

PLATE MILLS—Continued.

SHEARMEN'S HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1912.																
Eastern	2	81	65.4	$0.182	$11.94	10	4	19	20	28	.....	.....	.....	.....	.....	.....
Pittsburgh	5	231	70.8	.248	17.58	4	.....	21	80	37	17	66	6	.....	.....	.....
G. L. and M. W.	4	120	66.5	.203	13.60	.....	.....	58	45	4	1	12	.....	.....	.....	.....
Total	11	432	68.6	.223	15.42	14	4	98	145	69	18	78	6	.....	.....	.....

LABORERS.

1910.																
Eastern	2	68	62.6	$0.131	$8.19	63	5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	5	256	67.5	.167	11.24	.....	23	230	3	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	31	70.5	.164	11.52	.....	8	23	.....	.....	.....	.....	.....	.....	.....	.....
Total	11	355	66.8	.159	10.68	63	36	253	3	.....	.....	.....	.....	.....	.....	.....
1911.																
Eastern	2	71	61.4	.131	8.08	65	6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	5	178	67.7	.168	11.37	.....	14	164	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	25	69.1	.164	11.32	.....	6	19	.....	.....	.....	.....	.....	.....	.....	.....
Total	11	274	66.2	.158	10.51	65	26	183	.....	.....	.....	.....	.....	.....	.....	.....
1912.																
Eastern	2	80	61.3	.131	8.06	75	5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	5	184	71.0	.173	12.25	.....	14	166	4	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	23	71.0	.165	11.73	.....	2	21	.....	.....	.....	.....	.....	.....	.....	.....
Total	11	287	68.3	.160	11.04	75	21	187	4	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912.

PLATE MILLS—Continued.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West." The figures set opposite each bracketed group of years are for identical plants.]

CHARGING-CRANE AND CHARGING-MACHINE OPERATORS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
2 plants	1910	8	67.9	$0.242	$16.41	.....	.....	.....	.....	6	2	.....	.....	.....	.....	.....
	1911	8	66.2	.221	14.61	.....	.....	.....	1	5	2	.....	.....	.....	.....	.....
	1912	8	66.2	.240	15.85	.....	.....	.....	.....	6	2	.....	.....	.....	.....	.....
Pittsburgh:																
3 plants	1910	20	71.4	.302	21.58	.....	.....	.....	.....	4	8	8	.....	.....	.....	.....
	1911	20	70.8	.273	19.42	.....	.....	.....	4	4	4	8	.....	.....	.....	.....
	1912	20	70.8	.314	22.39	.....	.....	.....	4	.....	4	8	4	.....	.....	.....
G. L. and M. W.:																
4 plants	1910	13	74.3	.343	25.61	.....	.....	.....	.....	1	6	.....	6	.....	.....	.....
	1911	11	69.3	.346	23.90	.....	.....	.....	.....	1	1	7	1	1	.....	.....
	1912	10	67.9	.378	25.55	.....	.....	.....	.....	1	1	6	.....	1	1	.....

HEATERS.

Eastern:																
2 plants	1910	20	68.2	$0.368	$25.20	.....	.....	.....	.....	.....	4	8	6	2	.....	.....
	1911	20	66.8	.351	23.54	.....	.....	.....	.....	.....	3	15	2	.....	.....	.....
	1912	18	67.0	.365	24.47	.....	.....	.....	.....	.....	3	9	6	.....	.....	.....
Pittsburgh:																
5 plants	1910	24	71.5	.586	41.90	.....	.....	.....	.....	.....	.....	.....	2	16	4	2
	1911	24	71.0	.518	36.76	.....	.....	.....	.....	.....	.....	.....	9	12	3	.....
	1912	24	71.0	.585	41.62	.....	.....	.....	.....	.....	.....	.....	.....	15	9	.....
G. L. and M. W.:																
4 plants	1910	12	74.5	.587	43.85	.....	.....	.....	.....	.....	.....	.....	4	2	4	2
	1911	11	69.3	.569	39.31	.....	.....	.....	.....	.....	.....	.....	.....	9	1	1
	1912	11	69.9	.599	41.54	.....	.....	.....	.....	.....	.....	.....	.....	9	.....	2

HEATERS' HELPERS.

Eastern:																
2 plants	1910	62	67.7	$0.198	$13.44	.....	10	17	10	16	9	.....	.....	.....	.....	.....
	1911	60	65.5	.191	12.50	.....	11	15	12	15	7	.....	.....	.....	.....	.....
	1912	54	65.5	.208	13.59	.....	.....	12	12	24	6	.....	.....	.....	.....	.....
Pittsburgh:																
5 plants	1910	34	72.4	.264	19.09	.....	.....	2	4	4	18	6	.....	.....	.....	.....
	1911	34	71.3	.242	17.27	.....	.....	2	4	16	10	2	.....	.....	.....	.....
	1912	34	71.3	.259	18.50	.....	.....	2	4	12	9	7	.....	.....	.....	.....
G. L. and M. W.:																
3 plants	1910	15	70.5	.383	26.86	.....	.....	.....	.....	2	1	.....	12	.....	.....	.....
	1911	14	65.1	.347	22.58	.....	.....	.....	.....	2	2	3	7	.....	.....	.....
	1912	13	65.9	.382	24.98	.....	.....	.....	.....	2	4	.....	7	.....	.....	.....

ROLL ENGINEERS.

Eastern:																
2 plants	1910	10	68.0	$0.236	$16.00	.....	.....	2	2	2	2	2	.....	.....	.....	.....
	1911	10	65.6	.234	15.37	.....	.....	3	.....	3	4	.....	.....	.....	.....	.....
	1912	10	65.6	.230	15.11	.....	.....	3	.....	3	4	.....	.....	.....	.....	.....
Pittsburgh:																
5 plants	1910	16	73.3	.327	23.93	.....	.....	.....	.....	.....	6	8	.....	2	.....	.....
	1911	16	74.9	.318	23.65	.....	.....	.....	.....	.....	6	8	2	.....	.....	.....
	1912	16	75.7	.316	23.81	.....	.....	.....	.....	.....	6	8	2	.....	.....	.....
G. L. and M. W.:																
4 plants	1910	10	72.0	.319	22.93	.....	.....	.....	.....	.....	6	2	2	.....	.....	.....
	1911	9	69.3	.301	20.79	.....	.....	.....	.....	.....	6	2	1	.....	.....	.....
	1912	9	70.7	.306	21.71	.....	.....	.....	.....	.....	6	2	1	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

ROLLERS, SHEARED-PLATE MILLS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
2 plants	1910	12	67.7	$0.347	$23.46					6		2	2	2		
	1911	12	65.4	.346	22.66						6	2	4			
	1912	9	65.4	.421	27.55						1	2	6			
Pittsburgh:																
5 plants	1910	12	69.5	.800	55.56								2			10
	1911	12	71.0	.687	48.82									3	6	3
	1912	12	71.0	.794	56.52									2	2	8
G. L. and M. W.:																
4 plants	1910	4	67.6	1.540	100.20										2	2
	1911	4	67.6	1.149	75.79											4
	1912	4	67.6	1.224	81.12											4

SCREW MEN, SHEARED-PLATE MILLS.

Eastern:																
2 plants	1910	10	67.2	$0.313	$21.00						2	8				
	1911	10	65.6	.317	20.77					1	3	6				
	1912	9	65.6	.349	22.88						2	6	1			
Pittsburgh:																
5 plants	1910	14	69.9	.468	32.47						2	2	4	2	4	
	1911	14	71.1	.395	28.08						3	4	4	3		
	1912	14	71.1	.447	31.86					1	2	3	2	2	4	
G. L. & M. W.:																
2 plants	1910	4	67.6	.524	35.11								2	2		
	1911	4	67.6	.574	38.45									2	2	
	1912	4	67.6	.656	44.00									2	1	1

MANIPULATORS, SHEARED-PLATE MILLS.

Eastern:																
2 plants	1910	8	67.0	$0.245	$16.44					4	4					
	1911	8	65.6	.229	15.01			1		5	2					
	1912	8	65.6	.256	16.77				2		6					
Pittsburgh:																
5 plants	1910	14	69.4	.339	23.44					4	2	2	6			
	1911	14	70.3	.289	20.49				2	4	2	5	1			
	1912	14	70.3	.330	23.39			1	1	4	2		6			
G.L. and M.W.:																
2 plants	1910	4	67.6	.386	25.75							2	2			
	1911	6	66.2	.420	27.58							2	4			
	1912	6	66.2	.480	31.52							2	2	2		

TABLE MEN, SHEARED-PLATE MILLS.

Eastern:																
2 plants	1910	30	66.9	$0.194	$13.02	2	4		14	10						
	1911	30	65.7	.188	12.36		3	12	8	4	3					
	1912	27	65.7	.209	13.70			3	8	13	3					
Pittsburgh:																
5 plants	1910	30	69.8	.301	20.92				4	4	8	14				
	1911	30	70.8	.250	17.75				10	8	6	6				
	1912	30	70.8	.281	20.01			5	5	8		6	6			
G.L. and M.W.:																
2 plants	1910	13	68.0	.330	22.08					5		6	2			
	1911	12	67.6	.382	25.55							6	6			
	1912	12	67.6	.430	28.79							6	4	2		

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

ROLL HANDS, OTHER, SHEARED-PLATE MILLS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1910	2	68.0	$0.176	$11.97			2								
	1911	2	65.3	.162	10.57			2								
	1912	2	65.3	.181	11.81				2							
Pittsburgh:																
4 plants	1910	10	69.0	.254	17.42			2	2		2	4				
	1911	10	70.8	.223	15.87		2			5	3					
	1912	10	70.8	.258	18.42		2			2	3	3				
G.L. and M.W.:																
1 plant	1910	2	63.3	.394	24.92							2				
	1911	2	63.3	.420	26.57								2			
	1912	2	63.3	.477	30.17								2			

ROLLERS, UNIVERSAL MILLS, 48-INCH.

Eastern:																
1 plant	1910	2	68.0	$0.327	$22.24							2				
	1911	2	65.3	.314	20.49							2				
	1912	2	65.3	.290	18.92						2					
Pittsburgh:																
1 plant	1910	2	66.0	.819	54.05											2
	1911	2	72.0	.739	53.17											2
	1912	2	72.0	.744	53.53											2
G.L. and M.W.:																
2 plants	1910	4	72.0	.699	50.29										2	2
	1911	3	68.0	.662	44.94										3	
	1912	2	66.0	.708	46.90										1	1

SCREW MEN, MAIN ROLLS, UNIVERSAL MILLS, 48-INCH.

Eastern:																
1 plant	1910	2	68.0	$0.321	$21.79							2				
	1911	2	65.3	.306	19.93						1	1				
	1912	2	65.3	.242	15.79					2						
Pittsburgh:																
1 plant	1910	2	66.0	.532	35.11									2		
	1911	2	72.0	.501	36.04								1	1		
	1912	2	72.0	.488	35.14								2			
G.L.and M.W.:																
2 plants	1910	4	72.0	.515	37.04								2		2	
	1911	3	64.0	.444	28.57								3			
	1912	3	64.0	.463	29.94								2	1		

SCREW MEN, SIDE ROLLS, UNIVERSAL MILLS, 48-INCH.

Eastern:																
1 plant	1910	4	68.0	$0.244	$16.59					4						
	1911	4	65.3	.236	15.39					4						
	1912	4	65.3	.194	12.66				4							
Pittsburgh:																
1 plant	1910	2	66.0	.375	24.75							2				
	1911	2	72.0	.355	25.56							2				
	1912	2	72.0	.345	24.84							2				
G.L.and M. W.:																
2 plants	1910	4	72.0	.354	25.45							2	2			
	1911	3	64.0	.337	21.82							2	1			
	1912	3	64.0	.324	20.91							3				

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Concluded.

PLATE MILLS—Continued.

ROLL HANDS, OTHER, UNIVERSAL MILLS, 48-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
1 plant	1910	2	66.0	$0.288	$19.01	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1911	2	72.0	.275	19.76	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1912	2	72.0	.264	19.01	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
G.L.and M.W.:																
1 plant	1910	4	72.0	.304	21.89	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
	1911	2	72.0	.324	23.33	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1912	2	72.0	.312	22.46	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....

SHEARMEN.

Eastern:																
2 plants	1910	18	66.4	$0.265	$17.64	.....	.....	.....	.....	7	5	6	.....	.....	.....	.....
	1911	17	65.8	.254	16.66	.....	.....	.....	.....	7	8	2	.....	.....	.....	.....
	1912	16	65.9	.273	17.94	.....	.....	.....	.....	4	10	2	.....	.....	.....	.....
Pittsburgh:																
5 plants	1910	33	68.2	.471	32.12	.....	.....	.....	1	.....	3	10	5	6	4	4
	1911	32	70.1	.429	30.06	.....	.....	.....	1	.....	2	12	6	8	3	.....
	1912	34	70.2	.465	32.69	.....	.....	.....	.....	2	1	9	6	9	7	.....
G.L.and M.W.:																
4 plants	1910	19	67.5	.324	22.17	.....	.....	.....	.....	2	6	7	2	2	.....	.....
	1911	17	66.2	.323	21.67	.....	.....	.....	.....	2	6	7	1	1	.....	.....
	1912	18	66.6	.337	22.83	.....	.....	.....	.....	2	6	8	2	.....	.....	.....

SHEARMEN'S HELPERS.

Eastern:																
2 plants	1910	87	66.9	$0.175	$11.69	10	3	21	2	24	.....	.....	.....	.....	.....	.....
	1911	87	65.4	.166	10.83	10	45	4	25	3	.....	.....	.....	.....	.....	.....
	1912	81	65.4	.182	11.94	10	4	19	20	28	.....	.....	.....	.....	.....	.....
Pittsburgh:																
5 plants	1910	238	69.4	.243	16.76	4	1	49	29	48	45	60	2	.....	.....	.....
	1911	229	70.9	.223	15.82	4	.....	38	61	48	58	19	1	.....	.....	.....
	1912	231	70.8	.248	17.58	4	.....	21	80	37	17	66	6	.....	.....	.....
G.L.and M.W.:																
4 plants	1910	135	67.5	.192	13.04	.....	.....	75	42	4	10	4	.....	.....	.....	.....
	1911	113	65.8	.204	13.52	.....	.....	6	92	4	4	7	.....	.....	.....	.....
	1912	120	66.5	.203	13.60	.....	.....	58	45	4	1	12	.....	.....	.....	.....

LABORERS.

Eastern:																
2 plants	1910	68	62.6	$0.131	$8.19	63	5	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1911	71	61.4	.131	8.08	65	6	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1912	80	61.3	.131	8.06	75	5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh:																
5 plants	1910	256	67.5	.167	11.24	.....	23	230	3	.....	.....	.....	.....	.....	.....	.....
	1911	178	67.7	.168	11.37	.....	14	164	.....	.....	.....	.....	.....	.....	.....	.....
	1912	184	71.0	.173	12.25	.....	14	166	4	.....	.....	.....	.....	.....	.....	.....
G.L.and M.W.:																
4 plants	1910	31	70.5	.164	11.52	.....	8	23	.....	.....	.....	.....	.....	.....	.....	.....
	1911	25	69.1	.164	11.32	.....	6	19	.....	.....	.....	.....	.....	.....	.....	.....
	1912	23	71.0	.165	11.73	.....	2	21	.....	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912.

PLATE MILLS—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Charging-crane and charging-machine operators:											
9 plants	1910	41	71.6	.....	.....	.....	.....	14	23	.....	4
	1911	39	69.4	.....	.....	1	2	13	22	.....	1
	1912	38	69.1	.....	.....	1	2	13	22	.....	.....
Heaters:											
11 plants	1910	56	71.0	.....	.....	.....	.....	22	30	.....	4
	1911	55	69.1	.....	.....	1	2	21	30	.....	1
	1912	53	69.4	.....	.....	1	2	19	28	3	.....
Heaters' helpers:											
10 plants	1910	111	69.5	.....	.....	.....	.....	74	31	.....	6
	1911	108	67.3	.....	.....	.....	4	71	32	.....	1
	1912	101	67.5	.....	.....	.....	3	65	30	3	.....
Roll engineers:											
11 plants	1910	36	71.5	.....	.....	.....	.....	10	22	4	.....
	1911	35	70.8	.....	.....	.....	2	12	13	6	2
	1912	35	71.5	.....	.....	.....	2	12	12	6	3
Rollers, sheared-plate mills:											
9 plants	1910	28	68.4	.....	.....	.....	.....	20	8	.....	.....
	1911	28	68.1	.....	.....	1	.....	15	12	.....	.....
	1912	25	68.5	.....	.....	1	.....	12	12	.....	.....
Screw men, sheared-plate mills:											
9 plants	1910	28	68.6	.....	.....	.....	.....	18	10	.....	.....
	1911	28	68.6	.....	.....	1	.....	13	14	.....	.....
	1912	27	68.8	.....	.....	1	.....	12	14	.....	.....
Manipulators, sheared-plate mills:											
9 plants	1910	26	68.4	.....	.....	.....	.....	18	8	.....	.....
	1911	28	68.1	.....	.....	.....	.....	16	12	.....	.....
	1912	28	68.1	.....	.....	.....	.....	16	12	.....	.....
Table men, sheared-plate mills:											
9 plants	1910	73	68.3	.....	.....	.....	.....	50	23	.....	.....
	1911	72	68.1	.....	.....	.....	.....	42	30	.....	.....
	1912	69	68.3	.....	.....	.....	.....	39	30	.....	.....
Roll hands, other, sheared-plate mills:											
6 plants	1910	14	68.0	.....	.....	.....	.....	10	4	.....	.....
	1911	14	68.9	.....	.....	.....	.....	6	8	.....	.....
	1912	14	68.9	.....	.....	.....	.....	6	8	.....	.....
Rollers, universal mills, 48-inch:											
4 plants	1910	8	69.5	.....	.....	.....	.....	4	4	.....	.....
	1911	7	68.4	.....	.....	.....	1	2	4	.....	.....
	1912	6	67.8	.....	.....	.....	1	2	3	.....	.....
Screw men, main rolls, universal mills, 48-inch:											
4 plants	1910	8	69.5	.....	.....	.....	.....	4	4	.....	.....
	1911	7	66.6	.....	.....	.....	2	2	3	.....	.....
	1912	7	66.6	.....	.....	.....	2	2	3	.....	.....
Screw men, side rolls, universal mills, 48-inch:											
4 plants	1910	10	69.2	.....	.....	.....	.....	6	4	.....	.....
	1911	9	66.3	.....	.....	.....	2	4	3	.....	.....
	1912	9	66.3	.....	.....	.....	2	4	3	.....	.....
Roll hands, other, universal mills, 48-inch:											
2 plants	1910	6	70.0	.....	.....	.....	.....	2	4	.....	.....
	1911	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1912	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Shearmen:											
11 plants	1910	70	67.5	.....	.....	.....	2	45	23	.....	.....
	1911	66	68.0	.....	.....	.....	4	28	34	.....	.....
	1912	68	68.2	.....	.....	.....	4	27	37	.....	.....
Shearmen's helpers:											
11 plants	1910	460	68.4	.....	.....	.....	7	261	192	.....	.....
	1911	429	68.4	.....	.....	.....	16	174	239	.....	.....
	1912	432	68.6	.....	.....	.....	11	170	251	.....	.....
Laborers:											
11 plants	1910	355	66.8	.....	.....	.....	89	206	35	2	23
	1911	274	66.2	.....	.....	.....	70	142	50	9	3
	1912	287	68.3	.....	.....	.....	73	129	48	20	[1]17

[1] Including 15 employees whose full-time hours per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Concluded.

PLATE MILLS—Continued.

PER CENT.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were— 48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Charging-crane and charging-machine operators:											
9 plants	1910	41	71.6	.....	.....	.....	.....	34.1	56.1	.....	9.8
	1911	39	69.4	.....	.....	2.6	5.1	33.3	56.4	.....	2.6
	1912	38	69.1	.....	.....	2.6	5.3	34.2	57.9	.....	.....
Heaters:											
11 plants	1910	56	71.0	.....	.....	.....	.....	39.3	53.6	.....	7.1
	1911	55	69.1	.....	.....	1.8	3.6	38.2	54.5	.....	1.8
	1912	53	69.4	.....	.....	1.9	3.8	35.8	52.8	5.7	.....
Heaters' helpers:											
10 plants	1910	111	69.5	.....	.....	.....	.....	66.7	27.9	.....	5.4
	1911	108	67.3	.....	.....	.....	3.7	65.7	29.6	.....	.9
	1912	101	67.5	.....	.....	.....	3.0	64.4	29.7	3.0	.....
Roll engineers:											
11 plants	1910	36	71.5	.....	.....	.....	.....	27.8	61.1	11.1	.....
	1911	35	70.8	.....	.....	.....	5.7	34.3	37.1	17.1	5.7
	1912	35	71.5	.....	.....	.....	5.7	34.3	34.3	17.1	8.6
Rollers, sheared-plate mills:											
9 plants	1910	28	68.4	.....	.....	.....	.....	71.4	28.6	.....	.....
	1911	28	68.1	.....	.....	3.6	.....	53.6	42.9	.....	.....
	1912	25	68.5	.....	.....	4.0	.....	48.0	48.0	.....	.....
Screw men, sheared-plate mills:											
9 plants	1910	28	68.6	.....	.....	.....	.....	64.3	35.7	.....	.....
	1911	28	68.6	.....	.....	3.6	.....	46.4	50.0	.....	.....
	1912	27	68.8	.....	.....	3.7	.....	44.4	51.9	.....	.....
Manipulators, sheared-plate mills:											
9 plants	1910	26	68.4	.....	.....	.....	.....	69.2	30.8	.....	.....
	1911	28	68.1	.....	.....	.....	.....	57.1	42.9	.....	.....
	1912	28	68.1	.....	.....	.....	.....	57.1	42.9	.....	.....
Table men, sheared-plate mills:											
9 plants	1910	73	68.3	.....	.....	.....	.....	68.5	31.5	.....	.....
	1911	72	68.1	.....	.....	.....	.....	58.3	41.7	.....	.....
	1912	69	68.3	.....	.....	.....	.....	56.5	43.5	.....	.....
Roll hands, other, sheared-plate mills:											
6 plants	1910	14	68.0	.....	.....	.....	.....	71.4	28.6	.....	.....
	1911	14	68.9	.....	.....	.....	.....	42.9	57.1	.....	.....
	1912	14	68.9	.....	.....	.....	.....	42.9	57.1	.....	.....
Rollers, universal mills, 48-inch:											
4 plants	1910	8	69.5	.....	.....	.....	.....	50.0	50.0	.....	.....
	1911	7	68.4	.....	.....	.....	14.3	28.6	57.1	.....	.....
	1912	6	67.8	.....	.....	.....	16.7	33.3	50.0	.....	.....
Screw men, main rolls, universal mills, 48-inch:											
4 plants	1910	8	69.5	.....	.....	.....	.....	50.0	50.0	.....	.....
	1911	7	66.6	.....	.....	.....	28.6	28.6	42.9	.....	.....
	1912	7	66.6	.....	.....	.....	28.6	28.6	42.9	.....	.....
Screw men, side rolls, universal mills, 48-inch:											
4 plants	1910	10	69.2	.....	.....	.....	.....	60.0	40.0	.....	.....
	1911	9	66.3	.....	.....	.....	22.2	44.4	33.3	.....	.....
	1912	9	66.3	.....	.....	.....	22.2	44.4	33.3	.....	.....
Roll hands, other, universal mills, 48-inch:											
2 plants	1910	6	70.0	.....	.....	.....	.....	33.3	66.7	.....	.....
	1911	4	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1912	4	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
Shearmen:											
11 plants	1910	70	67.5	.....	.....	.....	2.9	64.3	32.9	.....	.....
	1911	66	68.0	.....	.....	.....	6.1	42.4	51.5	.....	.....
	1912	68	68.2	.....	.....	.....	5.9	39.7	54.4	.....	.....
Shearmen's helpers:											
11 plants	1910	460	68.4	.....	.....	.....	1.5	56.7	41.7	.....	.....
	1911	429	68.4	.....	.....	.....	3.7	40.6	55.7	.....	.....
	1912	432	68.6	.....	.....	.....	2.5	39.4	58.1	.....	.....
Laborers:											
11 plants	1910	355	66.8	.....	.....	.....	25.1	58.0	9.9	.6	6.5
	1911	274	66.2	.....	.....	.....	25.5	51.8	18.2	3.3	1.1
	1912	287	68.3	.....	.....	.....	25.4	44.9	16.7	7.0	[1]5.9

[1] Includes 5.2 per cent whose full-time hours per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912.

PLATE MILLS—Continued.

CHARGING-CRANE AND CHARGING-MACHINE OPERATORS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	2	8	67.9	.....	.....	.....	.....	8	.....	.....	.....
Pittsburgh	3	20	71.4	.....	.....	.....	.....	4	16	.....	.....
Great Lakes and Middle West	4	13	74.3	.....	.....	.....	.....	2	7	.....	4
Total	9	41	71.6	.....	.....	.....	.....	14	23	.....	4
1911.											
Eastern	2	8	66.2	.....	.....	.....	.....	8	.....	.....	.....
Pittsburgh	3	20	70.8	.....	.....	.....	.....	4	16	.....	.....
Great Lakes and Middle West	4	11	69.3	.....	.....	1	2	1	6	.....	1
Total	9	39	69.4	.....	.....	1	2	13	22	.....	1
1912.											
Eastern	2	8	66.2	.....	.....	.....	.....	8	.....	.....	.....
Pittsburgh	3	20	70.8	.....	.....	.....	.....	4	16	.....	.....
Great Lakes and Middle West	4	10	67.9	.....	.....	1	2	1	6	.....	.....
Total	9	38	69.1	.....	.....	1	2	13	22	.....	.....

HEATERS.

1910.											
Eastern	2	20	68.2	.....	.....	.....	.....	16	4	.....	.....
Pittsburgh	5	24	71.5	.....	.....	.....	.....	4	20	.....	.....
Great Lakes and Middle West	4	12	74.5	.....	.....	.....	.....	2	6	.....	4
Total	11	56	71.0	.....	.....	.....	.....	22	30	.....	4
1911.											
Eastern	2	20	66.8	.....	.....	.....	.....	16	4	.....	.....
Pittsburgh	5	24	71.0	.....	.....	.....	.....	4	20	.....	.....
Great Lakes and Middle West	4	11	69.3	.....	.....	1	2	1	6	.....	1
Total	11	55	69.1	.....	.....	1	2	21	30	.....	1
1912.											
Eastern	2	18	67.0	.....	.....	.....	.....	14	4	.....	.....
Pittsburgh	5	24	71.0	.....	.....	.....	.....	4	20	.....	.....
Great Lakes and Middle West	4	11	69.9	.....	.....	1	2	1	4	3	.....
Total	11	53	69.4	.....	.....	1	2	19	28	3	.....

HEATERS' HELPERS.

1910.											
Eastern	2	62	67.7	.....	.....	.....	.....	62	.....	.....	.....
Pittsburgh	5	34	72.4	.....	.....	.....	.....	4	28	.....	2
Great Lakes and Middle West	3	15	70.5	.....	.....	.....	.....	8	3	.....	4
Total	10	111	69.5	.....	.....	.....	.....	74	31	.....	6
1911.											
Eastern	2	60	65.5	.....	.....	.....	.....	60	.....	.....	.....
Pittsburgh	5	34	71.3	.....	.....	.....	.....	4	30	.....	.....
Great Lakes and Middle West	3	14	65.1	.....	.....	.....	4	7	2	.....	1
Total	10	108	67.3	.....	.....	.....	4	71	32	.....	1

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

HEATERS' HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1912.											
Eastern	2	54	65.5					54			
Pittsburgh	5	34	71.3					4	30		
Great Lakes and Middle West	3	13	65.9				3	7		3	
Total	10	101	67.5				3	65	30	3	

ROLL ENGINEERS.

1910.											
Eastern	2	10	68.0					8	2		
Pittsburgh	5	16	73.3					2	10	4	
Great Lakes and Middle West	4	10	72.0						10		
Total	11	36	71.5					10	22	4	
1911.											
Eastern	2	10	65.6					10			
Pittsburgh	5	16	74.9					2	6	6	2
Great Lakes and Middle West	4	9	69.3				2		7		
Total	11	35	70.8				2	12	13	6	2
1912.											
Eastern	2	10	65.6					10			
Pittsburgh	5	16	75.7					2	6	6	2
Great Lakes and Middle West	4	9	70.7				2		6		1
Total	11	35	71.5				2	12	12	6	3

ROLLERS, SHEARED-PLATE MILLS.

1910.											
Eastern	2	12	67.7					12			
Pittsburgh	5	12	69.5					6	6		
Great Lakes and Middle West	2	4	67.6					2	2		
Total	9	28	68.4					20	8		
1911.											
Eastern	2	12	65.4					12			
Pittsburgh	5	12	71.0					2	10		
Great Lakes and Middle West	2	4	67.6			1		1	2		
Total	9	28	68.1			1		15	12		
1912.											
Eastern	2	9	65.4					9			
Pittsburgh	5	12	71.0					2	10		
Great Lakes and Middle West	2	4	67.6			1		1	2		
Total	9	25	68.5			1		12	12		

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

SCREW MEN, SHEARED-PLATE MILLS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	2	10	67.2	.....	.....	.....	.....	10	.....	.....	.....
Pittsburgh	5	14	69.9	.....	.....	.....	.....	6	8	.....	.....
Great Lakes and Middle West	2	4	67.6	.....	.....	.....	.....	2	2	.....	.....
Total	9	28	68.6	.....	.....	.....	.....	18	10	.....	.....
1911.											
Eastern	2	10	65.6	.....	.....	.....	.....	10	.....	.....	.....
Pittsburgh	5	14	71.1	.....	.....	.....	.....	2	12	.....	.....
Great Lakes and Middle West	2	4	67.6	.....	.....	1	.....	1	2	.....	.....
Total	9	28	68.6	.....	.....	1	.....	13	14	.....	.....
1912.											
Eastern	2	9	65.6	.....	.....	.....	.....	9	.....	.....	.....
Pittsburgh	5	14	71.1	.....	.....	.....	.....	2	12	.....	.....
Great Lakes and Middle West	2	4	67.6	.....	.....	1	.....	1	2	.....	.....
Total	9	27	68.8	.....	.....	1	.....	12	14	.....	.....

MANIPULATORS, SHEARED-PLATE MILLS.

1910.											
Eastern	2	8	67.0	.....	.....	.....	.....	8	.....	.....	.....
Pittsburgh	5	14	69.4	.....	.....	.....	.....	8	6	.....	.....
Great Lakes and Middle West	2	4	67.6	.....	.....	.....	.....	2	2	.....	.....
Total	9	26	68.4	.....	.....	.....	.....	18	8	.....	.....
1911.											
Eastern	2	8	65.6	.....	.....	.....	.....	8	.....	.....	.....
Pittsburgh	5	14	70.3	.....	.....	.....	.....	4	10	.....	.....
Great Lakes and Middle West	2	6	66.2	.....	.....	.....	.....	4	2	.....	.....
Total	9	28	68.1	.....	.....	.....	.....	16	12	.....	.....
1912.											
Eastern	2	8	65.6	.....	.....	.....	.....	8	.....	.....	.....
Pittsburgh	5	14	70.3	.....	.....	.....	.....	4	10	.....	.....
Great Lakes and Middle West	2	6	66.2	.....	.....	.....	.....	4	2	.....	.....
Total	9	28	68.1	.....	.....	.....	.....	16	12	.....	.....

TABLE MEN, SHEARED-PLATE MILLS.

1910.											
Eastern	2	30	66.9	.....	.....	.....	.....	30	.....	.....	.....
Pittsburgh	5	30	69.8	.....	.....	.....	.....	14	16	.....	.....
Great Lakes and Middle West	2	13	68.0	.....	.....	.....	.....	6	7	.....	.....
Total	9	73	68.3	.....	.....	.....	.....	50	23	.....	.....
1911.											
Eastern	2	30	65.7	.....	.....	.....	.....	30	.....	.....	.....
Pittsburgh	5	30	70.8	.....	.....	.....	.....	6	24	.....	.....
Great Lakes and Middle West	2	12	67.6	.....	.....	.....	.....	6	6	.....	.....
Total	9	72	68.1	.....	.....	.....	.....	42	30	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

TABLE MEN, SHEARED-PLATE MILLS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1912.											
Eastern	2	27	65.7	.....	.....	.....	.....	27	.....	.....	.....
Pittsburgh	5	30	70.8	.....	.....	.....	.....	6	24	.....	.....
Great Lakes and Middle West	2	12	67.6	.....	.....	.....	.....	6	6	.....	.....
Total	9	69	68.3	.....	.....	.....	.....	39	30	.....	.....

ROLL HANDS, OTHER, SHEARED-PLATE MILLS.

1910.											
Eastern	1	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	4	10	69.0	.....	.....	.....	.....	6	4	.....	.....
Great Lakes and Middle West	1	2	63.3	.....	.....	.....	.....	2	.....	.....	.....
Total	6	14	68.0	.....	.....	.....	.....	10	4	.....	.....
1911.											
Eastern	1	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	4	10	70.8	.....	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West	1	2	63.3	.....	.....	.....	.....	2	.....	.....	.....
Total	6	14	68.9	.....	.....	.....	.....	6	8	.....	.....
1912.											
Eastern	1	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	4	10	70.8	.....	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West	1	2	63.3	.....	.....	.....	.....	2	.....	.....	.....
Total	6	14	68.9	.....	.....	.....	.....	6	8	.....	.....

ROLLERS, UNIVERSAL MILLS, 48-INCH.

1910.											
Eastern	1	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	2	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Total	4	8	69.5	.....	.....	.....	.....	4	4	.....	.....
1911.											
Eastern	1	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	2	3	68.0	.....	.....	.....	1	.....	2	.....	.....
Total	4	7	68.4	.....	.....	.....	1	2	4	.....	.....
1912.											
Eastern	1	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	2	2	66.0	.....	.....	.....	1	.....	1	.....	.....
Total	4	6	67.8	.....	.....	.....	1	2	3	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

SCREW MEN, MAIN ROLLS, UNIVERSAL MILLS, 48-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	1	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	2	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Total	4	8	69.5	.....	.....	.....	.....	4	4	.....	.....
1911.											
Eastern	1	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	2	3	64.0	.....	.....	.....	2	.....	1	.....	.....
Total	4	7	66.6	.....	.....	.....	2	2	3	.....	.....
1912.											
Eastern	1	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	2	3	64.0	.....	.....	.....	2	.....	1	.....	.....
Total	4	7	66.6	.....	.....	.....	2	2	3	.....	.....

SCREW MEN, SIDE ROLLS, UNIVERSAL MILLS, 48-INCH.

1910.											
Eastern	1	4	68.0	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	1	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	2	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Total	4	10	69.2	.....	.....	.....	.....	6	4	.....	.....
1911.											
Eastern	1	4	65.3	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	2	3	64.0	.....	.....	.....	2	.....	1	.....	.....
Total	4	9	66.3	.....	.....	.....	2	4	3	.....	.....
1912.											
Eastern	1	4	65.3	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	2	3	64.0	.....	.....	.....	2	.....	1	.....	.....
Total	4	9	66.3	.....	.....	.....	2	4	3	.....	.....

ROLL HANDS, OTHER, UNIVERSAL MILLS, 48-INCH.

1910.											
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	1	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	1	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Total	2	6	70.0	.....	.....	.....	.....	2	4	.....	.....
1911.											
Eastern	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Total	2	4	72.0	.....	.....	.....	.....	.....	4	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

ROLL HANDS, OTHER, UNIVERSAL MILLS, 48-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 73 and under 84	84
1912.											
Eastern											
Pittsburgh	1	2	72.0						2		
Great Lakes and Middle West	1	2	72.0						2		
Total	2	4	72.0						4		

SHEARMEN.

1910.											
Eastern	2	18	66.4					18			
Pittsburgh	5	33	68.2				2	19	12		
Great Lakes and Middle West	4	19	67.5					8	11		
Total	11	70	67.5				2	45	23		
1911.											
Eastern	2	17	65.8					16	1		
Pittsburgh	5	32	70.1				3	4	25		
Great Lakes and Middle West	4	17	66.2				1	8	8		
Total	11	66	68.0				4	28	34		
1912.											
Eastern	2	16	65.9					15	1		
Pittsburgh	5	34	70.2				3	4	27		
Great Lakes and Middle West	4	18	66.6				1	8	9		
Total	11	68	68.2				4	27	37		

SHEARMEN'S HELPERS.

1910.											
Eastern	2	87	66.9				4	83			
Pittsburgh	5	238	69.4				2	122	114		
Great Lakes and Middle West	4	135	67.5				1	56	78		
Total	11	460	68.4				7	261	192		
1911.											
Eastern	2	87	65.4				4	82	1		
Pittsburgh	5	229	70.9				9	30	190		
Great Lakes and Middle West	4	113	65.8				3	62	48		
Total	11	429	68.4				16	174	239		
1912.											
Eastern	2	81	65.4				4	76	1		
Pittsburgh	5	231	70.8				4	36	191		
Great Lakes and Middle West	4	120	66.5				3	58	59		
Total	11	432	68.6				11	170	251		

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Concluded.

PLATE MILLS—Continued

LABORERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	2	68	62.6	.....	.....	.....	59	1	2	.....	6
Pittsburgh	5	256	67.5	.....	.....	.....	22	205	14	2	13
Great Lakes and Middle West	4	31	70.5	.....	.....	.....	8	.....	19	.....	4
Total	11	355	66.8	.....	.....	.....	89	206	35	2	23
1911.											
Eastern	2	71	61.4	.....	.....	.....	60	6	5	.....	.....
Pittsburgh	5	178	67.7	.....	.....	.....	3	134	31	9	1
Great Lakes and Middle West	4	25	69.1	.....	.....	.....	7	2	14	.....	2
Total	11	274	66.2	.....	.....	.....	70	142	50	9	3
1912.											
Eastern	2	80	61.3	.....	.....	.....	70	5	4	.....	1
Pittsburgh	5	184	71.0	.....	.....	.....	1	122	27	18	[1] 16
Great Lakes and Middle West	4	23	71.0	.....	.....	.....	2	2	17	2	.....
Total	11	287	68.3	.....	.....	.....	73	129	48	20	[1] 17

[1] Including 15 employees whose full-time hours per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912.

PLATE MILLS—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

CHARGING-CRANE AND CHARGING-MACHINE OPERATORS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
2 plants	1910	8	67.9	.....	.....	.....	.....	8	.....	.....	.....
	1911	8	66.2	.....	.....	.....	.....	8	.....	.....	.....
	1912	8	66.2	.....	.....	.....	.....	8	.....	.....	.....
Pittsburgh:											
9 plants	1910	20	71.4	.....	.....	.....	.....	4	16	.....	.....
	1911	20	70.8	.....	.....	.....	.....	4	16	.....	.....
	1912	20	70.8	.....	.....	.....	.....	4	16	.....	.....
Great Lakes and Middle West:											
4 plants	1910	13	74.3	.....	.....	.....	.....	2	7	.....	4
	1911	11	69.3	.....	.....	1	2	1	6	.....	1
	1912	10	67.9	.....	.....	1	2	1	6	.....	.....

HEATERS.

Eastern:											
2 plants	1910	20	68.2	.....	.....	.....	.....	16	4	.....	.....
	1911	20	66.8	.....	.....	.....	.....	16	4	.....	.....
	1912	18	67.0	.....	.....	.....	.....	14	4	.....	.....
Pittsburgh:											
5 plants	1910	24	71.5	.....	.....	.....	.....	4	20	.....	.....
	1911	24	71.0	.....	.....	.....	.....	4	20	.....	.....
	1912	24	71.0	.....	.....	.....	.....	4	20	.....	.....
Great Lakes and Middle West:											
4 plants	1910	12	74.5	.....	.....	.....	.....	2	6	.....	4
	1911	11	69.3	.....	.....	1	2	1	6	.....	1
	1912	11	69.9	.....	.....	1	2	1	4	3	.....

HEATERS' HELPERS.

Eastern:											
2 plants	1910	62	67.7	.....	.....	.....	.....	62	.....	.....	.....
	1911	60	65.5	.....	.....	.....	.....	60	.....	.....	.....
	1912	54	65.5	.....	.....	.....	.....	54	.....	.....	.....
Pittsburgh:											
5 plants	1910	34	72.4	.....	.....	.....	.....	4	28	.....	2
	1911	34	71.3	.....	.....	.....	.....	4	30	.....	.....
	1912	34	71.3	.....	.....	.....	.....	4	30	.....	.....
Great Lakes and Middle West:											
3 plants	1910	15	70.5	.....	.....	.....	.....	8	3	.....	4
	1911	14	65.1	.....	.....	.....	4	7	2	.....	1
	1912	13	65.9	.....	.....	.....	3	7	.....	3	.....

ROLL ENGINEERS.

Eastern:											
2 plants	1910	10	68.0	.....	.....	.....	.....	8	2	.....	.....
	1911	10	65.6	.....	.....	.....	.....	10	.....	.....	.....
	1912	10	65.6	.....	.....	.....	.....	10	.....	.....	.....
Pittsburgh:											
5 plants	1910	16	73.3	.....	.....	.....	.....	2	10	4	.....
	1911	16	74.9	.....	.....	.....	.....	2	6	6	2
	1912	16	75.7	.....	.....	.....	.....	2	6	6	2
Great Lakes and Middle West:											
4 plants	1910	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
	1911	9	69.3	.....	.....	.....	2	.....	7	.....	.....
	1912	9	70.7	.....	.....	.....	2	.....	6	.....	1

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

ROLLERS, SHEARED-PLATE MILLS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
2 plants	1910	12	67.7	.....	.....	.....	.....	12	.....	.....	.....
	1911	12	65.4	.....	.....	.....	.....	12	.....	.....	.....
	1912	9	65.4	.....	.....	.....	.....	9	.....	.....	.....
Pittsburgh:											
5 plants	1910	12	69.5	.....	.....	.....	.....	6	6	.....	.....
	1911	12	71.0	.....	.....	.....	.....	2	10	.....	.....
	1912	12	71.0	.....	.....	.....	.....	2	10	.....	.....
Great Lakes and Middle West:											
2 plants	1910	4	67.6	.....	.....	.....	.....	2	2	.....	.....
	1911	4	67.6	.....	.....	1	.....	1	2	.....	.....
	1912	4	67.6	.....	.....	1	.....	1	2	.....	.....

SCREW MEN, SHEARED-PLATE MILLS.

Eastern:											
2 plants	1910	10	67.2	.....	.....	.....	.....	10	.....	.....	.....
	1911	10	65.6	.....	.....	.....	.....	10	.....	.....	.....
	1912	9	65.6	.....	.....	.....	.....	9	.....	.....	.....
Pittsburgh:											
5 plants	1910	14	69.9	.....	.....	.....	.....	6	8	.....	.....
	1911	14	71.1	.....	.....	.....	.....	2	12	.....	.....
	1912	14	71.1	.....	.....	.....	.....	2	12	.....	.....
Great Lakes and Middle West:											
2 plants	1910	4	67.6	.....	.....	.....	.....	2	2	.....	.....
	1911	4	67.6	.....	.....	1	.....	1	2	.....	.....
	1912	4	67.6	.....	.....	1	.....	1	2	.....	.....

MANIPULATORS, SHEARED-PLATE MILLS.

Eastern:											
2 plants	1910	8	67.0	.....	.....	.....	.....	8	.....	.....	.....
	1911	8	65.6	.....	.....	.....	.....	8	.....	.....	.....
	1912	8	65.6	.....	.....	.....	.....	8	.....	.....	.....
Pittsburgh:											
5 plants	1910	14	69.4	.....	.....	.....	.....	8	6	.....	.....
	1911	14	70.3	.....	.....	.....	.....	4	10	.....	.....
	1912	14	70.3	.....	.....	.....	.....	4	10	.....	.....
Great Lakes and Middle West:											
2 plants	1910	4	67.6	.....	.....	.....	.....	2	2	.....	.....
	1911	6	66.2	.....	.....	.....	.....	4	2	.....	.....
	1912	6	66.2	.....	.....	.....	.....	4	2	.....	.....

TABLE MEN, SHEARED-PLATE MILLS.

Eastern:											
2 plants	1910	30	66.9	.....	.....	.....	.....	30	.....	.....	.....
	1911	30	65.7	.....	.....	.....	.....	30	.....	.....	.....
	1912	27	65.7	.....	.....	.....	.....	27	.....	.....	.....
Pittsburgh:											
5 plants	1910	30	69.8	.....	.....	.....	.....	14	16	.....	.....
	1911	30	70.8	.....	.....	.....	.....	6	24	.....	.....
	1912	30	70.8	.....	.....	.....	.....	6	24	.....	.....
Great Lakes and Middle West:											
2 plants	1910	13	68.0	.....	.....	.....	.....	6	7	.....	.....
	1911	12	67.6	.....	.....	.....	.....	6	6	.....	.....
	1912	12	67.6	.....	.....	.....	.....	6	6	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

PLATE MILLS—Continued.

ROLL HANDS, OTHER, SHEARED-PLATE MILLS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
1 plant	1910	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh:											
4 plants	1910	10	69.0	.....	.....	.....	.....	6	4	.....	.....
	1911	10	70.8	.....	.....	.....	.....	2	8	.....	.....
	1912	10	70.8	.....	.....	.....	.....	2	8	.....	.....
Great Lakes and Middle West:											
1 plant	1910	2	63.3	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	63.3	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	63.3	.....	.....	.....	.....	2	.....	.....	.....

ROLLERS, UNIVERSAL MILLS, 48-INCH.

Eastern:											
1 plant	1910	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh:											
1 plant	1910	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
	1912	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West:											
2 plants	1910	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1911	3	68.0	.....	.....	.....	1	.....	2	.....	.....
	1912	2	66.0	.....	.....	.....	1	.....	1	.....	.....

SCREW MEN, MAIN ROLLS, UNIVERSAL MILLS, 48-INCH.

Eastern:											
1 plant	1910	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	65.3	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh:											
1 plant	1910	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
	1912	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West:											
2 plants	1910	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1911	3	64.0	.....	.....	.....	2	.....	1	.....	.....
	1912	3	64.0	.....	.....	.....	2	.....	1	.....	.....

SCREW MEN, SIDE ROLLS, UNIVERSAL MILLS, 48-INCH.

Eastern:											
1 plant	1910	4	68.0	.....	.....	.....	.....	4	.....	.....	.....
	1911	4	65.3	.....	.....	.....	.....	4	.....	.....	.....
	1912	4	65.3	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh:											
1 plant	1910	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
	1912	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West:											
2 plants	1910	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1911	3	64.0	.....	.....	.....	2	.....	1	.....	.....
	1912	3	64.0	.....	.....	.....	2	.....	1	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Concluded.

PLATE MILLS—Concluded.

ROLL HANDS, OTHER, UNIVERSAL MILLS, 48-INCH.

District, and number of plants.	Year.	Number of employees	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
1 plant	1910	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
	1912	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West:											
1 plant	1910	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1911	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
	1912	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
SHEARMEN.											
Eastern:											
2 plants	1910	18	66.4	.....	.....	.....	.....	18	.....	.....	.....
	1911	17	65.8	.....	.....	.....	.....	16	1	.....	.....
	1912	16	65.9	.....	.....	.....	.....	15	1	.....	.....
Pittsburgh:											
5 plants	1910	33	68.2	.....	.....	.....	2	19	12	.....	.....
	1911	32	70.1	.....	.....	.....	3	4	25	.....	.....
	1912	34	70.2	.....	.....	.....	3	4	27	.....	.....
Great Lakes and Middle West:											
4 plants	1910	19	67.5	.....	.....	.....	.....	8	11	.....	.....
	1911	17	66.2	.....	.....	.....	1	8	8	.....	.....
	1912	18	66.6	.....	.....	.....	1	8	9	.....	.....
SHEARMEN'S HELPERS.											
Eastern:											
2 plants	1910	87	66.9	.....	.....	.....	4	83	.....	.....	.....
	1911	87	65.4	.....	.....	.....	4	82	1	.....	.....
	1912	81	65.4	.....	.....	.....	4	76	1	.....	.....
Pittsburgh:											
5 plants	1910	238	69.4	.....	.....	.....	2	122	114	.....	.....
	1911	229	70.9	.....	.....	.....	9	30	190	.....	.....
	1912	231	70.8	.....	.....	.....	4	36	191	.....	.....
Great Lakes and Middle West:											
4 plants	1910	135	67.5	.....	.....	.....	1	56	78	.....	.....
	1911	113	65.8	.....	.....	.....	3	62	48	.....	.....
	1912	120	66.5	.....	.....	.....	3	58	59	.....	.....
LABORERS.											
Eastern:											
2 plants	1910	68	62.6	.....	.....	.....	59	1	2	.....	6
	1911	71	61.4	.....	.....	.....	60	6	5	.....	.....
	1912	80	61.3	.....	.....	.....	70	5	4	.....	1
Pittsburgh:											
5 plants	1910	256	67.5	.....	.....	.....	22	205	14	2	13
	1911	178	67.7	.....	.....	.....	3	134	31	9	1
	1912	184	71.0	.....	.....	.....	1	122	27	18	[1]16
Great Lakes and Middle West:											
4 plants	1910	31	70.5	.....	.....	.....	8	.....	19	.....	4
	1911	25	69.1	.....	.....	.....	7	2	14	.....	2
	1912	23	71.0	.....	.....	.....	2	2	17	2	.....

[1] Including 15 employees whose full-time hours per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

STANDARD RAIL MILLS.

SUMMARY.

Summary figures relating to the standard-rail-mill department of the iron and steel industry are given, with figures for other departments, in the introductory summary on pages 7 to 15. An explanation of the scope of the investigation and of the methods employed is given on pages 16 to 22.

Briefly summarized the average full-time weekly earnings of employees in the standard-rail-mill department in 1912 were 2.2 per cent lower than in 1910, and 0.8 per cent higher than in 1911. The full-time hours of labor per week in 1912 were 4.2 per cent lower than in 1910, and 0.1 per cent higher than in 1911. The average rate of wages or earnings per hour in 1912 was 0.8 per cent higher than in 1910 and 0.4 per cent higher than in 1911.

The most significant facts concerning the several occupations of the standard-rail-mill department are summarized in the table below. The data presented are for 6 identical plants for the years 1910 and 1911 and for 7 identical plants for the years 1911 and 1912. Referring to the first occupation, cold-saw men's helpers, direct comparison can be made for 3 identical plants in 1910 and 1911 and for 4 identical plants in 1911 and 1912. The first line of the table is read as follows: In 1910 the 3 standard rail mills from which reports were obtained for this occupation employed 30 cold-saw men's helpers, whose average full-time hours of work were 76 per week. For 66.7 per cent of these 30 cold-saw men's helpers the full-time hours per week were 72, and for the remaining one-third the working hours were 84 per week. The average rate of wages or earnings per hour of cold-saw men's helpers in the year considered (1910) was $0.171. All of these 30 employees received 16 or under 18 cents per hour. The average full-time weekly earnings were $12.98. The other lines of the table may be read in the same manner.

Referring to the last column of the table, it is seen that in 3 plants the average full-time weekly earnings of cold-saw men's helpers were $12.98 in 1910 and in 1911 in the same 3 plants the average dropped to $12.40. In 4 plants in 1911, the average full-time weekly earnings were $12.38, while in 1912 there was an increase to $12.45. Comparing the average full-time weekly earnings for 1912 in the several occupations it is seen that the lowest average was that of laborers, which was $12.07. Several other occupations received but little more. The highest earnings in any occupation of this department are found in the occupation of rollers, the average full-time weekly earnings in this occupation in 1912 being $46.80.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—STANDARD RAIL MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				Under 60	60 and under 72	72	Over 72 and under 84	84		Under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 cts. and over.	
Cold-saw men's helpers:														
3 plants	1910	30	76.0	.....	.....	66.7	.....	33.3	$0.171	.....	100.0	.....	.....	$12.98
	1911	31	72.0	.....	.....	100.0	.....	.....	.172	.....	100.0	.....	.....	12.40
4 plants	1911	36	72.0	.....	.....	100.0	.....	.....	.172	.....	100.0	.....	.....	12.38
	1912	29	72.0	.....	.....	100.0	.....	.....	.173	.....	100.0	.....	.....	12.45
Hotbed lever men:														
6 plants	1910	34	74.1	.....	.....	82.4	.....	17.6	.209	.....	11.8	41.2	47.0	15.64
	1911	27	72.1	.....	.....	70.4	29.6	.....	.197	.....	22.2	33.3	44.4	14.21
7 plants	1911	31	72.1	.....	.....	74.2	25.8	.....	.195	.....	25.8	35.5	38.7	14.06
	1912	35	72.1	.....	.....	77.1	22.9	.....	.201	.....	25.7	34.3	40.0	14.51
Hotbed men:														
6 plants	1910	44	73.6	.....	.....	86.4	.....	13.6	.176	13.6	36.4	18.2	31.8	12.95
	1911	43	72.0	.....	.....	100.0	.....	.....	.175	23.3	41.9	4.7	30.2	12.60
7 plants	1911	47	72.0	.....	.....	100.0	.....	.....	.176	21.3	42.6	8.5	27.7	12.65
	1912	48	72.2	.....	.....	95.8	4.2	.....	.180	16.7	52.1	6.3	25.0	12.98
Hot-saw men's helpers:														
6 plants	1910	64	72.4	.....	.....	96.9	.....	3.1	.165	28.1	62.5	9.4	.....	11.92
	1911	59	72.1	.....	.....	86.4	13.6	.....	.168	15.3	74.6	10.2	.....	12.14
7 plants	1911	66	72.1	.....	.....	87.9	12.1	.....	.168	19.7	71.2	9.1	.....	12.10
	1912	73	72.1	.....	.....	89.0	11.0	.....	.169	4.1	82.2	13.7	.....	12.20
Laborers:														
6 plants	1910	501	76.0	.....	13.4	41.7	.....	44.9	.163	23.4	76.6	.....	.....	12.31
	1911	370	71.9	.....	20.5	58.9	11.9	8.6	.169	10.0	90.0	.....	.....	12.12
7 plants	1911	382	71.9	.....	19.9	60.2	11.5	8.4	.169	9.7	90.3	.....	.....	12.12
	1912	417	71.9	.....	20.1	57.1	16.3	6.5	.168	5.0	95.0	.....	.....	12.07

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				Under 60	60 and under 72	72	Over 72 and under 84	84		14 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 cts. and over.	
Charging-machine operators:														
3 plants	1910	22	72.0	.....	.....	100.0	.....	.....	.234	36.4	27.3	.....	36.4	16.87
	1911	22	72.0	.....	.....	100.0	.....	.....	.232	36.4	27.3	36.4	.....	16.72
	1912	22	72.0	.....	.....	100.0	.....	.....	.244	36.4	.....	45.5	18.2	17.58
Chippers:														
5 plants	1910	114	72.1	.....	24.5	53.5	.....	21.9	.231	28.9	21.1	50.0	.....	16.78
	1911	82	70.0	.....	21.9	78.0	.....	.....	.240	40.2	12.2	32.9	14.6	16.88
6 plants	1911	91	70.2	.....	19.8	80.2	.....	.....	.233	46.2	11.0	29.7	13.2	16.44
	1912	99	70.3	.....	18.2	81.8	.....	.....	.221	39.4	48.5	.....	12.1	15.60
Cold-saw men:														
5 plants	1910	18	74.7	.....	33.3	11.1	.....	55.6	.191	88.9	11.1	.....	.....	14.21
	1911	18	69.1	.....	44.4	33.3	22.2	.....	.194	94.5	.....	5.6	.....	13.43
6 plants	1911	19	69.3	.....	42.1	36.8	21.1	.....	.194	94.8	.....	5.3	.....	13.43
	1912	19	69.3	.....	42.1	36.8	21.1	.....	.196	94.7	.....	.....	5.3	13.60
Drillers and punchers:														
5 plants	1910	152	76.7	.....	13.2	34.2	.....	52.6	.220	18.4	47.4	34.2	.....	16.78
	1911	123	70.5	.....	17.1	82.9	.....	.....	.221	48.8	26.8	24.4	.....	15.59
6 plants	1911	133	70.6	.....	15.8	84.2	.....	.....	.218	52.6	24.8	22.6	.....	15.35
	1912	145	70.5	.....	16.6	83.4	.....	.....	.206	61.4	37.2	.....	1.4	14.51

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—STANDARD RAIL MILLS—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				Under 60	60 and under 72	72	Over 72 and under 84	84		14 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 cts. and over.	
Reheaters' helpers:														
3 plants	1910	24	71.3	.....	50.0	50.0	.....	.....	$0.280	4.2	45.8	.....	50.0	$19.95
	1911	24	72.0	.....	.....	100.0	.....	.....	.264	4.2	25.0	70.8	.....	18.98
	1912	24	72.0	.....	.....	100.0	.....	.....	.304	4.2	4.2	45.8	45.8	21.87
Hot-saw men:														
6 plants	1910	19	72.0	.....	.....	100.0	.....	.....	.289	.....	36.8	10.5	52.6	20.79
	1911	14	72.0	.....	.....	100.0	.....	.....	.258	.....	50.0	35.7	14.3	18.56
7 plants	1911	16	72.0	.....	.....	100.0	.....	.....	.251	.....	56.3	31.3	12.5	18.10
	1912	18	72.0	.....	.....	100.0	.....	.....	.257	16.7	27.8	44.4	11.1	18.52
Inspectors:														
5 plants	1910	68	75.5	.....	13.2	44.1	.....	42.6	.225	44.1	44.1	2.9	8.9	16.77
	1911	48	70.4	.....	18.8	81.3	.....	.....	.233	29.1	56.3	4.2	10.4	16.29
7 plants	1911	68	70.9	.....	13.2	86.8	.....	.....	.230	20.6	60.3	11.8	7.4	16.25
	1912	76	71.0	.....	11.8	88.2	.....	.....	.228	27.6	56.6	9.2	6.5	16.12
Roll engineers:														
6 plants	1910	42	77.4	.....	.....	47.6	14.3	38.1	.310	.....	38.1	23.8	38.1	24.30
	1911	37	76.2	.....	.....	48.6	32.4	18.9	.282	.....	43.2	27.0	29.7	21.67
7 plants	1911	43	75.8	.....	.....	41.9	41.9	16.3	.277	.....	46.5	27.9	25.6	21.14
	1912	48	74.1	.....	.....	58.3	37.5	4.2	.304	.....	27.1	39.6	33.3	22.44
Straighteners' helpers:														
5 plants	1910	139	72.1	.....	16.5	66.2	.....	17.3	.205	52.5	30.2	.7	16.5	14.55
	1911	116	69.8	.....	18.1	81.9	.....	.....	.205	69.8	12.1	.....	18.1	14.04
6 plants	1911	120	69.9	.....	17.5	82.5	.....	.....	.205	67.5	15.0	.....	17.5	14.05
	1912	134	70.0	.....	16.4	83.6	.....	.....	.212	67.2	13.4	3.0	16.4	14.51
Table men:														
4 plants	1910	26	72.0	.....	.....	100.0	.....	.....	.279	23.1	.....	38.5	38.5	20.06
	1911	26	72.0	.....	.....	100.0	.....	.....	.264	23.1	7.7	46.2	23.1	19.00
5 plants	1911	27	72.4	.....	.....	96.3	3.7	.....	.262	22.2	11.1	44.4	22.2	18.97
	1912	25	72.5	.....	.....	96.0	.....	4.0	.287	16.0	12.0	20.0	52.0	20.77

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				Under 60	60 and under 72	72	Over 72 and under 84	84		Under 30 cts.	30 and under 50 cts.	50 and under 70 cts.	70 cts. and over.	
Guide setters:														
5 plants	1910	20	66.8	15.0	15.0	70.0	.....	.....	.440	10.0	45.0	45.0	.....	29.26
	1911	17	65.8	17.6	17.6	64.7	.....	.....	.373	17.7	76.5	5.9	.....	24.31
7 plants	1911	27	66.8	11.1	25.9	40.7	22.2	.....	.336	37.0	59.2	3.7	.....	22.20
	1912	30	67.3	10.0	23.3	46.7	20.0	.....	.346	40.0	56.7	3.3	.....	23.14
Reheaters:														
4 plants	1910	23	72.2	.....	.....	91.3	8.7	.....	.429	4.3	95.7	.....	.....	31.00
	1911	23	72.0	.....	.....	100.0	.....	.....	.421	4.3	95.7	.....	.....	30.28
	1912	23	72.0	.....	.....	100.0	.....	.....	.410	47.8	8.6	43.5	.....	29.50
Rollers:														
5 plants	1910	12	72.3	.....	.....	83.3	16.7	.....	.624	.....	.....	100.0	.....	45.09
	1911	12	72.3	.....	.....	83.3	16.7	.....	.614	.....	8.3	83.3	8.3	44.40
6 plants	1911	14	72.2	.....	.....	85.7	14.3	.....	.591	.....	1.4	71.4	7.1	42.67
	1912	14	72.2	.....	.....	85.7	14.3	.....	.646	.....	7.1	71.4	21.4	46.65
Rollers' helpers:														
1 plant	1910	3	72.0	.....	.....	100.0	.....	.....	.561	.....	.....	100.0	.....	40.39
	1911	1	72.0	.....	.....	100.0	.....	.....	.458	.....	100.0	.....	.....	32.98
2 plants	1911	3	72.7	.....	.....	33.3	66.7	.....	.284	66.7	33.3	.....	.....	20.56
	1912	6	72.6	.....	.....	33.3	66.7	.....	.304	66.7	33.3	.....	.....	21.98

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—STANDARD RAIL MILLS—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				Under 60	60 and under 72	72	Over 72 and under 84	84		Under 30 cts.	30 and under 50 cts.	50 and under 70 cts.	70 cts. and over.	
Straighteners, gag press:														
5 plants	1910	106	59.0	62.3	5.7	11.3	.....	20.8	$0.564	.....	49.1	45.3	5.7	$32.41
	1911	90	56.3	62.2	6.7	31.1	.....	.....	.534	.....	45.6	54.4	.....	30.12
6 plants	1911	94	56.9	59.6	6.4	34.0	.....	.....	.526	.....	47.8	52.1	.....	29.91
	1912	98	57.6	57.1	6.1	36.7	.....	.....	.530	.....	42.9	51.0	6.1	30.79
Table lever men:														
6 plants	1910	74	65.5	32.4	.....	59.5	.....	8.1	.454	5.4	70.2	16.2	8.1	28.25
	1911	69	64.0	34.8	.....	65.2	.....	.....	.422	21.7	49.2	29.0	.....	26.08
	1912	74	64.5	32.4	.....	67.6	.....	.....	.427	25.7	33.8	40.5	.....	26.82

Owing to the change in the number of plants from 1910 to 1912 and the consequent difference in the averages in the two groups of plants for 1911, it is difficult to make a comparison of the actual data for the three years which will give an accurate measure of the changes throughout the period. To aid in making such a comparison relative or index numbers have been computed from the averages of the preceding table for full-time hours per week, rates of wages per hour, and full-time weekly earnings for each occupation from 1910 to 1912, inclusive. Such figures appear in the table below. These relative or index numbers are simply percentages for which the data for 1912 are taken as the base, or 100 per cent.

The relative for each year is the per cent which the average for that year is of the average for 1912. For example, the relative full-time weekly earnings of charging-machine operators in 1910 were 96 as compared with 100 in 1912; that is, the full-time weekly earnings of charging-machine operators in 1910 were 96.0 per cent of the full-time weekly earnings in this occupation in 1912. The method of computing relative numbers is explained on page 21.

The table also shows for each occupation the per cent of increase or decrease in full-time hours per week, rates of wages per hour, and full-time weekly earnings in 1912 as compared with each specified year preceding. Thus the full-time weekly earnings of charging-machine operators in 1912 were 4.2 per cent higher than in 1910 and 5.2 per cent higher than in 1911.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

In other columns of this table is shown the per cent of change in each year as compared with the year immediately preceding. Thus the full-time weekly earnings of charging-machine operators in 1911 were 0.9 per cent lower than in 1910, and 5.2 per cent higher in 1912 than in 1911. The other occupations and items of the table may be studied in like manner. The percentages of increase and decrease are computed from the relative numbers.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—STANDARD RAIL MILLS.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
Charging-machine operators:									
1910	100.0	(1)	.....	95.9	+ 4.3	.....	96.0	+ 4.2	.....
1911	100.0	(1)	(1)	95.1	+ 5.2	− 0.8	95.1	+ 5.2	− 0.9
1912	100.0	.....	(1)	100.0	.....	+ 5.2	100.0	.....	+ 5.2
Reheaters:									
1910	100.3	−0.3	.....	104.6	− 4.4	.....	105.1	− 4.9	.....
1911	100.0	(1)	−0.3	102.7	− 2.6	− 1.8	102.6	− 2.5	− 2.4
1912	100.0	.....	(1)	100.0	.....	− 2.6	100.0	.....	− 2.5
Reheaters' helpers:									
1910	99.0	+1.0	.....	92.1	+ 8.6	.....	91.2	+ 9.6	.....
1911	100.0	(1)	+1.0	86.8	+15.2	− 5.8	86.8	+15.2	− 4.8
1912	100.0	.....	(1)	100.0	.....	+15.2	100.0	.....	+15.2
Roll engineers:									
1910	103.9	−3.8	.....	100.2	− .2	.....	105.6	− 5.3	.....
1911	102.3	−2.2	−1.5	91.1	+ 9.8	− 9.1	94.2	+ 6.2	−10.8
1912	100.0	.....	−2.2	100.0	.....	+ 9.8	100.0	.....	+ 6.2
Rollers:									
1910	100.0	(1)	.....	93.0	+ 7.5	.....	92.9	+ 7.6	.....
1911	100.0	(1)	(1)	91.5	+ 9.3	− 1.6	91.5	+ 9.3	− 1.5
1912	100.0	.....	(1)	100.0	.....	+ 9.3	100.0	.....	+ 9.3
Rollers' helpers:									
1910	100.1	− .1	.....	114.4	−12.6	.....	114.6	−12.7	.....
1911	100.1	− .1	(1)	93.4	+ 7.1	−18.4	93.5	+ 7.0	−18.4
1912	100.0	.....	− .1	100.0	.....	+ 7.1	100.0	.....	+ 7.0
Table lever men:									
1910	101.6	−1.6	.....	106.3	− 5.9	.....	105.3	− 5.0	.....
1911	99.2	+ .8	−2.4	98.8	+ 1.2	− 7.1	97.2	+ 2.9	− 7.7
1912	100.0	.....	+ .8	100.0	.....	+ 1.2	100.0	.....	+ 2.9
Table men:									
1910	99.9	+ .1	.....	96.5	+ 3.6	.....	96.4	+ 3.7	.....
1911	99.9	+ .1	(1)	91.3	+ 9.5	− 5.4	91.3	+ 9.5	− 5.3
1912	100.0	.....	+ .1	100.0	.....	+ 9.5	100.0	.....	+ 9.5
Guide setters:									
1910	100.8	− .8	.....	114.6	−12.7	.....	115.5	−13.4	.....
1911	99.3	+ .7	−1.5	97.1	+ 3.0	−15.3	95.9	+ 4.3	−17.0
1912	100.0	.....	+ .7	100.0	.....	+ 3.0	100.0	.....	+ 4.3
Hot-saw men:									
1910	100.0	(1)	.....	109.4	− 8.6	.....	109.5	− 8.7	.....
1911	100.0	(1)	(1)	97.7	+ 2.4	−10.7	97.7	+ 2.4	−10.8
1912	100.0	.....	(1)	100.0	.....	+ 2.4	100.0	.....	+ 2.4
Hot-saw men's helpers:									
1910	100.4	− .4	.....	97.6	+ 2.5	.....	97.4	+ 2.7	.....
1911	100.0	(1)	− .4	99.4	+ .6	+ 1.8	99.2	+ .8	+ 1.8
1912	100.0	.....	(1)	100.0	.....	+ .6	100.0	.....	+ .8

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—STANDARD RAIL MILLS—Concluded.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
Hotbed lever men:									
1910	102.8	−2.7	.....	102.9	− 2.8	.....	106.7	− 6.3	.....
1911	100.0	(1)	−2.7	97.0	+ 3.1	− 5.7	96.9	+ 3.2	− 9.2
1912	100.0	.....	(1)	100.0	.....	+ 3.1	100.0	.....	+ 3.2
Hotbed men:									
1910	101.9	−1.9	.....	98.3	+ 1.7	.....	100.2	− .2	.....
1911	99.7	+ .3	−2.2	97.8	+ 2.2	− .5	97.5	+ 2.6	− 2.7
1912	100.0	.....	+ .3	100.0	.....	+ 2.2	100.0	.....	+ 2.6
Straighteners, gag press:									
1910	103.5	−3.4	.....	104.8	− 4.6	.....	104.5	− 4.3	.....
1911	98.8	+1.2	−4.5	99.2	+ .8	− 5.3	97.1	+ 3.0	− 7.1
1912	100.0	.....	+1.2	100.0	.....	+ .8	100.0	.....	+ 3.0
Straighteners' helpers:									
1910	103.2	−3.1	.....	96.7	+ 3.4	.....	100.3	− .3	.....
1911	99.9	+ .1	−3.2	96.7	+ 3.4	(1)	96.8	+ 3.3	− 3.5
1912	100.0	.....	+ .1	100.0	.....	+ 3.4	100.0	.....	+ 3.3
Chippers:									
1910	102.9	−2.8	.....	101.5	− 1.5	.....	104.8	− 4.6	.....
1911	99.9	+ .1	−2.9	105.4	− 5.1	+ 3.8	105.4	− 5.1	+ .6
1912	100.0	.....	+ .1	100.0	.....	− 5.1	100.0	.....	− 5.1
Drillers and punchers:									
1910	108.9	−8.2	.....	105.4	− 5.1	.....	113.9	−12.2	.....
1911	100.1	− .1	−8.1	105.8	− 5.5	+ .4	105.8	− 5.5	− 7.1
1912	100.0	.....	− .1	100.0	.....	− 5.5	100.0	.....	− 5.5
Cold-saw men:									
1910	108.1	−7.5	.....	97.4	+ 2.7	.....	104.5	− 4.3	.....
1911	100.0	(1)	−7.5	99.0	+ 1.0	+ 1.6	98.8	+ 1.2	− 5.5
1912	100.0	.....	(1)	100.0	.....	+ 1.0	100.0	.....	+ 1.2
Cold-saw men's helpers:									
1910	105.6	−5.3	.....	98.8	+ 1.2	.....	104.1	− 3.9	.....
1911	100.0	(1)	−5.3	99.4	+ .6	+ .6	99.4	+ .6	− 4.5
1912	100.0	.....	(1)	100.0	.....	+ .6	100.0	.....	+ .6
Inspectors:									
1910	107.1	−6.6	.....	97.4	+ 2.7	.....	103.8	− 3.7	.....
1911	99.9	+ .1	−6.7	100.9	− .9	+ 3.6	100.8	− .8	− 2.9
1912	100.0	.....	+ .1	100.0	.....	− .9	100.0	.....	− .8
Laborers:									
1910	105.7	−5.4	.....	97.0	+ 3.1	.....	102.0	− 2.0	.....
1911	100.0	(1)	−5.4	100.6	− .6	+ 3.7	100.4	− .4	− 1.6
1912	100.0	.....	(1)	100.0	.....	− 6	100.0	.....	− .4

[1] No change.

A like table of relative numbers and percentages is next shown for the standard-rail-mill department as a whole, as determined by a combination of the data for the several principal productive occupations of the department which are covered by this report. The method of computing the figures is explained on page 22.

From the table, under the heading "weekly earnings," it is seen that the relative full-time weekly earnings of the department as a whole were 102.2 as compared with 100 in 1912. In other words,

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

the full-time weekly earnings in 1910 were 102.2 per cent of such earnings in 1912. The relative decreases to 99.2 in 1911, and in 1912 the base year, the relative was 100.

The next column shows that the full-time weekly earnings in 1910 were 2.2 per cent lower than in 1912 and 0.8 per cent higher than in 1911. The third column under "weekly earnings" shows the per cent of increase or decrease in full-time weekly earnings each year as compared with the year immediately preceding. Thus, the full-time weekly earnings in 1911 were 2.9 per cent lower in 1910 and 0.8 per cent higher in 1912 than in 1911.

The relative numbers and percentages for full-time hours per week and rates of wages per hour can be read in like manner.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, ALL OCCUPATIONS—STANDARD RAIL MILLS.

Year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.
1910	104.4	−4.2	.....	99.2	+0.8	.....	102.2	−2.2	.....
1911	99.9	+ .1	−4.3	99.6	+ .4	+0.4	99.2	+ .8	−2.9
1912	100.0	.....	+ .1	100.0	.....	+ .4	100.0	.....	+ .8

In considering weekly earnings it should be remembered that a reduction of hours tends to reduce weekly earnings, just as an increase in wages per hour, of course, tends to increase them. Between 1910 and 1912 it will be observed that hours per week were reduced 4.2 per cent and wages per hour were increased 0.8 per cent, each tending to offset the other in weekly earnings.

Still another influence on average weekly earnings for the department must be considered—that is the change in the relative number of employees in the several occupations from year to year. It is obvious that an increase in the relative number of employees in the lower-paid occupations or a decrease in the relative number of those in the higher-paid ones would tend to lower the average for all occupations, just as an increase in the relative number of employees in the higher-paid occupations or a decrease in the relative number in the lower-paid ones would tend to increase the average.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

The number and per cent of employees in standard-rail-mill plants whose customary working time per week was 6 days or turns, or 7 days, or variations thereof, are shown in the following table. The heading "6 days and 7 days alternately" indicates that the plants were not in operation half a day in each week; the employees reported working 6 turns one week and 7 turns the next week. The figures are presented for each district and for the four districts combined.

NUMBER AND PER CENT OF EMPLOYEES IN EACH DISTRICT WORKING EACH SPECIFIED NUMBER OF DAYS PER WEEK, BY YEARS, 1910 TO 1912—STANDARD RAIL MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

District and number of plants.	Year.	Number of employees.	Number of employees whose customary working time per week was—				Per cent of employees whose customary working time per week was—			
			6 days.	6 days and 7 days alternately.	6 days, 6 days and 7 days in rotation.	7 days.	6 days.	6 days and 7 days alternately.	6 days, 6 days and 7 days in rotation.	7 days.
Pittsburgh:										
2 plants	1910	374	312	.....	.....	62	83.4	.....	.....	16.6
	1911	348	332	10	.....	6	95.4	2.9	.....	1.7
3 plants	1911	447	430	10	.....	7	96.2	2.2	.....	1.6
	1912	431	412	12	.....	7	95.6	2.8	.....	1.6
Great Lakes and Middle West:										
4 plants [1]	1910	1,161	727	8	27	399	62.6	.7	2.3	34.4
	1911	904	792	52	27	33	87.6	5.8	3.0	3.7
	1911	908	796	52	27	33	87.7	5.7	3.0	3.6
	1912	1,026	900	76	27	23	87.7	7.4	2.6	2.2
Total:										
6 plants	1910	1,535	1,039	8	27	461	67.7	.5	1.8	30.0
	1911	1,252	1,124	62	27	39	89.8	5.0	2.2	3.1
7 plants	1911	1,355	1,226	62	27	40	90.5	4.6	2.0	3.0
	1912	1,457	1,312	88	27	30	90.0	6.0	1.9	2.1

[1] For one plant it was impossible to secure data for one occupation for 1910, hence the two reports for 1911.

In addition to the text tables presented in the summary, six general tables are presented for the standard-rail-mill department, as follows:

Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1910 to 1912.

Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1910 to 1912.

Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1910 to 1912.

Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1910 to 1912.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

Table V.—Average and classified full-time hours of work per week in each year, by districts, 1910 to 1912.

Table VI.—Average and classified full-time hours of work per week in each district, by years, 1910 to 1912.

In Tables I and IV, in addition to actual data, percentages computed therefrom are given. The data from these two tables are summarized in the text table on pages 285 to 287.

Tables III and VI repeat the data for the several districts given in Tables II and V, rearranged for the convenience of the reader.

A brief description of the function of the standard rail mills is presented on page 24.

DESCRIPTION OF OCCUPATIONS.

The following description of occupations refers only to those occupations which appear in the tables of this report—these being nearly all of the principal productive occupations in the standard-rail-mill department.

The order in which the occupations are given follows that of the processes of manufacture.

CHARGING-MACHINE OPERATORS.

Duties.—Charge blooms into reheating furnace, using various types of charging machines. One of the commoner machines used grips the bloom at one end, swings it around from the conveyor, and pushes it into the furnace. The same machine draws the heated bloom and places it on the conveyor leading to the rolls.

Nature of work.—See charging-machine operators, plate mills, page 252.

REHEATERS.

Duties.—In charge of reheating furnaces, necessary when the blooms are not rolled directly from the blooming mill. Their duties are to adjust air and gas so as to maintain the proper temperature within the furnaces, to keep furnace bottoms in good condition, and to direct the charging and drawing of the blooms.

Nature of work.—Requires considerable knowledge of the heat treatment of metals, but not so much skill and experience as for soaking pit heaters. See blooming mills, page 217.

REHEATERS' HELPERS.

Duties.—Assist the reheater in all his duties. The number employed and functions performed by them depend largely on the type of furnace.

Nature of work.—Where a reheater has a large number of furnaces under his direction, his first helpers are capable of looking after all the details for the separate furnaces.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

ROLL ENGINEERS.

Include both engineers on "reversing" and "nonreversing" engines, but very few of the former, as most mills are "three high." See roll engineers, blooming mills, page 219.

ROLLERS.

Duties.—The roller's duties are almost entirely supervisory; that is, he does not control the operation of a set of rolls as in blooming mills. He is in general charge of the rolling and of all roll changes and makes frequent inspections to see that everything is going right; has the product gauged frequently to see that the section is rolled true to size, and if it is off he sees that the necessary changes are made to line the mill up properly.

Nature of work.—The roller is valued chiefly for his practical knowledge of the mechanical working of steel and for his ability to set up and maintain his mill in proper running order. The position demands a very high degree of skill and knowledge.

ROLLERS' HELPERS.

Duties.—The rollers' duties are so varied, and the area covered by the modern rail mill is so large, that they are, in the majority of plants, given one or more assistants, who watch various parts of the particular processes and assist the rollers generally in all the work. The rollers' helpers often spell others of the rolling crew.

Nature of work.—The nature of the helpers' work depends entirely on the duties assigned by the roller and on what occupation they are set to spell.

TABLE LEVER MEN.

Duties.—Operate the tables, raising and lowering the ingots and blooms for the rolls, and the various forms of manipulators used in turning the pieces so that they will enter the passes properly. See manipulators, blooming mills, page 220.

Nature of work.—The rails must enter the rolls much more exactly than in the case of blooming mills, and this position, therefore, requires more highly skilled men. See manipulators, page 220.

TABLE MEN.

See table men, blooming mills, page 220.

GUIDE SETTERS.

Duties.—Set in place on the various stands of rolls the iron guides, by which the partly finished rail is made to enter the "pass" between the rolls at the proper angle, and inspect them to see that they are kept in proper position. Assist the rollers in roll changes.

Nature of work.—The work requires a high degree of mechanical skill and a great deal of practical experience. The guide frequently needs adjusting while the rolls are still very hot.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

HOT-SAW MEN.

Duties.—Operate levers controlling the circular saw by which the rails are sawed after they leave the finishing pass. The saw men see that the gauges are properly set, and if a "gang saw" (i. e., one in which two or more saws set apart the length of a rail are made to cut simultaneously) is used, the saw men must see that they are properly set.

Nature of work.—The work does not require a very great deal of experience.

HOT-SAW MEN'S HELPERS.

Duties.—Include chiefly "butt pullers," who drag away the short ends sawed off the rail, but also includes the "gauger," who operates levers dropping the stop which puts the rail in the proper position for sawing.

Nature of work.—Unskilled work for the most part, and does not require much heavy manual labor.

HOTBED LEVER MEN.

Duties.—Operate levers controlling various forms of transfers by which rails are carried along on hotbeds.

Nature of work.—Unskilled work, requiring comparatively little experience.

HOTBED MEN.

Duties.—Grease the tops of the rails which make up the hotbed, and turn the rails over from time to time so that they will cool evenly and thus be as straight as possible when cool. In turning the rails they use a tool called a "dog," which is very much like a large wrench.

Nature of work.—Unskilled, but very heavy manual labor.

STRAIGHTENERS, GAG PRESS.

Duties.—The "gag press" is a machine having a bed into which rollers are set so that the rail can be easily pushed along over it. Above this bed is the press proper, which is so arranged that it can be brought down by the operator (called gagger) to any required distance by the pressure of his foot on a pedal, or otherwise. In straightening rails the straightener, assisted by one of his helpers, swings the rail onto the bed. The straightener then sights along the head of the rail from one end toward a light (very much like an engine headlight) at the other end of the rail. Any bend in the rail is readily detected, and the straightener moves the rail along over the bed until the center of the curve is directly under the press. He then signals the gagger, who puts a gag under the upper block and brings down the press. If the rail is not entirely straight the gag, which is slightly tapered, is slipped further under, and this is repeated until all curves are straightened.

Nature of work.—This work, in addition to being very heavy manual labor, requires a great deal of skill and experience.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

STRAIGHTENERS' HELPERS.

Duties.—There are two classes of helpers: First, the gaggers (see above); and second those who assist straighteners in handling the rails.

Nature of work.—A gagger requires experience, but chiefly an alert mind that will carry out the straightener's directions and signals quickly and easily. It is not heavy work, but demands constant attention. The rail handler's work is relatively unskilled, but very heavy.

CHIPPERS.

Duties.—With a cold chisel and hammer remove the burr left on the end of the rail when it is sawed. In some cases a pneumatic chipping tool is used. Also remove any small flaws left in rolling that do not go below the surface.

Nature of work.—The position requires some skill and experience.

DRILLERS AND PUNCHERS.

Duties.—The larger number included under this head are drillers and operate an automatic multiple drill press which drills the bolt holes in the web of the rail.

Nature of work.—The work is comparatively simple as the drills are ordinarily set by a foreman or a drill gauger. The driller brings the lever down or turns the wheel that sets his drill in motion. Much of the handling of the rails is heavy work.

COLD-SAW MEN.

Duties.—Operate levers controlling saws which cut defective rails to shorter and salable lengths.

Nature of work.—This work is not done nearly so rapidly as hot sawing, nor does it require as careful a man. The work consists largely in supervising the helpers who handle the rails and in operating the saw levers.

COLD-SAW MEN'S HELPERS.

Duties.—Handle the rails for the cold saw and clean up scrap.

Nature of work.—Comparatively unskilled, but heavy manual labor.

INSPECTORS.

Duties.—Inspect the finished rail in accordance with the specifications for the particular order and the customs of the individual mill. A preliminary inspection is given before straightening, but the chief inspection follows when the finished rails are ready for shipping.

Nature of work.—Varies entirely with the class of product of the particular mill and the care with which the mill inspects its own product.

LABORERS.

See laborers, blooming mills, page 221.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912.

STANDARD RAIL MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Charging-machine operators:																
3 plants	1910	22	72.0	$0.234	$16.87	.....	.....	8	.....	6	.....	8	.....	.....	.....	.....
	1911	22	72.0	.232	16.72	.....	.....	8	.....	6	8	.....	.....	.....	.....	.....
	1912	22	72.0	.244	17.58	.....	.....	8	.....	.....	10	4	.....	.....	.....	.....
Reheaters:																
4 plants	1910	23	72.2	.429	31.00	.....	.....	.....	.....	.....	1	.....	22	.....	.....	.....
	1911	23	72.0	.421	30.28	.....	.....	.....	.....	.....	1	10	12	.....	.....	.....
	1912	23	72.0	.410	29.50	.....	.....	.....	.....	.....	11	1	1	10	.....	.....
Reheaters' helpers:																
3 plants	1910	24	71.3	.280	19.95	.....	.....	.....	1	11	.....	12	.....	.....	.....	.....
	1911	24	72.0	.264	18.98	.....	.....	.....	1	6	17	.....	.....	.....	.....	.....
	1912	24	72.0	.304	21.87	.....	.....	.....	1	1	11	11	.....	.....	.....	.....
Roll engineers:																
6 plants	1910	42	77.4	.310	24.30	.....	.....	.....	.....	16	10	6	10	.....	.....	.....
	1911	37	76.2	.282	21.67	.....	.....	.....	.....	16	10	9	2	.....	.....	.....
7 plants	1911	43	75.8	.277	21.14	.....	.....	.....	.....	20	12	9	2	.....	.....	.....
	1912	48	74.1	.304	22.44	.....	.....	.....	.....	13	19	12	4	.....	.....	.....
Rollers:																
5 plants	1910	12	72.3	.624	45.09	.....	.....	.....	.....	.....	.....	.....	.....	4	8	.....
	1911	12	72.3	.614	44.40	.....	.....	.....	.....	.....	.....	.....	1	3	7	1
6 plants	1911	14	72.2	.591	42.67	.....	.....	.....	.....	.....	.....	.....	3	3	7	1
	1912	14	72.2	.646	46.65	.....	.....	.....	.....	.....	.....	.....	1	1	9	3
Rollers' helpers:																
1 plant	1910	3	72.0	.561	40.39	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....
	1911	1	72.0	.458	32.98	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
2 plants	1911	3	72.7	.284	20.56	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....
	1912	6	72.6	.304	21.98	.....	.....	.....	.....	4	.....	.....	2	.....	.....	.....
Table lever men:																
6 plants	1910	74	65.5	.454	28.25	.....	.....	.....	.....	2	2	32	20	.....	12	6
	1911	69	64.0	.422	26.08	.....	.....	.....	.....	5	10	21	13	16	4	.....
	1912	74	64.5	.427	26.82	.....	.....	.....	.....	6	13	13	12	28	2	.....
Table men:																
4 plants	1910	26	72.0	.279	20.06	.....	.....	.....	6	.....	10	10	.....	.....	.....	.....
	1911	26	72.0	.264	19.00	.....	.....	.....	6	2	12	6	.....	.....	.....	.....
5 plants	1911	27	72.4	.262	18.97	.....	.....	.....	6	3	12	6	.....	.....	.....	.....
	1912	25	72.5	.287	20.77	.....	.....	.....	4	3	5	13	.....	.....	.....	.....
Guide setters:																
5 plants	1910	20	66.8	.440	29.26	.....	.....	.....	1	1	.....	5	4	9	.....	.....
	1911	17	65.8	.373	24.31	.....	.....	.....	1	1	1	7	6	1	.....	.....
7 plants	1911	27	66.8	.336	22.20	.....	.....	.....	1	5	4	10	6	1	.....	.....
	1912	30	67.3	.346	23.14	.....	.....	.....	1	5	6	9	8	1	.....	.....
Hot-saw men:																
6 plants	1910	19	72.0	.289	20.79	.....	.....	.....	.....	7	2	10	.....	.....	.....	.....
	1911	14	72.0	.258	18.56	.....	.....	.....	.....	7	5	2	.....	.....	.....	.....
7 plants	1911	16	72.0	.251	18.10	.....	.....	.....	.....	9	5	2	.....	.....	.....	.....
	1912	18	72.0	.257	18.52	.....	.....	2	1	5	8	2	.....	.....	.....	.....
Hot-saw men's helpers:																
6 plants	1910	64	72.4	.165	11.92	.....	18	40	6	.....	.....	.....	.....	.....	.....	.....
	1911	59	72.1	.168	12.14	.....	9	44	6	.....	.....	.....	.....	.....	.....	.....
7 plants	1911	66	72.1	.168	12.10	.....	13	47	6	.....	.....	.....	.....	.....	.....	.....
	1912	73	72.1	.169	12.20	3	.....	60	10	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Hotbed lever men:																
6 plants	1910	34	74.1	$0.209	$15.64	.....	.....	4	14	10	6	.....	.....	.....	.....	.....
	1911	27	72.1	.197	14.21	.....	.....	6	9	12	.....	.....	.....	.....	.....	.....
7 plants	1911	31	72.1	.195	14.06	.....	.....	8	11	12	.....	.....	.....	.....	.....	.....
	1912	35	72.1	.201	14.51	.....	.....	9	12	12	2	.....	.....	.....	.....	.....
Hotbed men:																
6 plants	1910	44	73.6	.176	12.95	[1]6	....	16	8	14	.....	.....	.....	.....	.....	.....
	1911	43	72.0	.175	12.60	[1]6	4	18	2	13	.....	.....	.....	.....	.....	.....
7 plants	1911	47	72.0	.176	12.65	[1]6	4	20	4	13	.....	.....	.....	.....	.....	.....
	1912	48	72.2	.180	12.98	[1]6	2	25	3	8	4	.....	.....	.....	.....	.....
Straighteners, gag press:																
5 plants	1910	106	59.0	.564	32.41	.....	.....	.....	.....	.....	.....	.....	52	12	36	6
	1911	90	56.3	.534	30.12	.....	.....	.....	.....	.....	.....	14	27	.....	49	.....
6 plants	1911	94	56.9	.526	29.91	.....	.....	.....	.....	.....	.....	18	27	.....	49	.....
	1912	98	57.6	.530	30.79	.....	.....	.....	.....	.....	.....	24	18	.....	50	6
Straighteners' helpers:																
5 plants	1910	139	72.1	.205	14.55	.....	1	72	....	42	1	23	.....	.....	.....	.....
	1911	116	69.8	.205	14.04	.....	.....	63	18	14	.....	21	.....	.....	.....	.....
6 plants	1911	120	69.9	.205	14.05	.....	.....	..63	18	18	.....	21	.....	.....	.....	.....
	1912	134	70.0	.212	14.51	.....	.....	90	....	18	4	16	6	.....	.....	.....
Chippers:																
5 plants	1910	114	72.1	.231	16.78	.....	.....	21	12	24	57	.....	.....	.....	.....	.....
	1911	82	70.0	.240	16.88	.....	.....	1	32	10	27	12	.....	.....	.....	.....
6 plants	1911	91	70.2	.233	16.44	.....	.....	10	32	10	27	12	.....	.....	.....	.....
	1912	99	70.3	.221	15.60	.....	.....	3	36	48	.....	12	.....	.....	.....	.....
Drillers and punchers:																
5 plants	1910	152	76.7	.220	16.78	.....	.....	28	....	72	52	.....	.....	.....	.....	.....
	1911	123	70.5	.221	15.59	.....	.....	4	56	33	30	.....	.....	.....	.....	.....
6 plants	1911	133	70.6	.218	15.35	.....	.....	14	56	33	30	.....	.....	.....	.....	.....
	1912	145	70.5	.206	14.51	.....	.....	2	87	54	.....	2	.....	.....	.....	.....
Cold-saw men:																
5 plants	1910	18	74.7	.191	14.21	.....	.....	1	15	2	.....	.....	.....	.....	.....	.....
	1911	18	69.1	.194	13.43	.....	1	.....	16	.....	1	.....	.....	.....	.....	.....
6 plants	1911	19	69.3	.194	13.43	.....	1	.....	17	.....	1	.....	.....	.....	.....	.....
	1912	19	69.3	.196	13.60	.....	.....	.....	18	.....	.....	1	.....	.....	.....	.....
Cold-saw men's helpers:																
3 plants	1910	30	76.0	.171	12.98	.....	.....	30	.....	.....	.....	.....	.....	.....	.....	.....
	1911	31	72.0	.172	12.40	.....	.....	31	.....	.....	.....	.....	.....	.....	.....	.....
4 plants	1911	36	72.0	.172	12.38	.....	.....	36	.....	.....	.....	.....	.....	.....	.....	.....
	1912	29	72.0	.173	12.45	.....	.....	29	.....	.....	.....	.....	.....	.....	.....	.....
Inspectors:																
5 plants	1910	68	75.5	.225	16.77	.....	.....	4	26	30	2	5	1	.....	.....	.....
	1911	48	70.4	.233	16.29	.....	.....	4	10	27	2	4	1	.....	.....	.....
7 plants	1911	68	70.9	.230	16.25	.....	.....	4	10	41	8	4	1	.....	.....	.....
	1912	76	71.0	.228	16.12	.....	2	.....	19	43	7	2	3	.....	.....	.....
Laborers:																
6 plants	1910	501	76.0	.163	12.31	.....	17	384	.....	.....	.....	.....	.....	.....	.....	.....
	1911	370	71.9	.169	12.12	.....	37	333	.....	.....	.....	.....	.....	.....	.....	.....
7 plants	1911	382	71.9	.169	12.12	.....	37	345	.....	.....	.....	.....	.....	.....	.....	.....
	1912	417	71.9	.168	12.07	.....	21	396	.....	.....	.....	.....	.....	.....	.....	.....

[1] Earning 10 and under 12 cents.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

PER CENT.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Charging-machine operators:																
3 plants	1910	22	72.0	$0.234	$16.87	.....	.....	36.4	.....	27.3	.....	36.4	.....	.....	.....	.....
	1911	22	72.0	.232	16.72	.....	.....	36.4	.....	27.3	36.4	.....	.....	.....	.....	.....
	1912	22	72.0	.244	17.58	.....	.....	36.4	.....	.....	45.5	18.2	.....	.....	.....	.....
Reheaters:																
4 plants	1910	23	72.2	.429	31.00	.....	.....	.....	.....	.....	4.3	.....	95.7	.....	.....	.....
	1911	23	72.0	.421	30.28	.....	.....	.....	.....	.....	4.3	43.5	52.2	.....	.....	.....
	1912	23	72.0	.410	29.50	.....	.....	.....	.....	.....	47.8	4.3	4.3	43.5	.....	.....
Reheaters' helpers:																
3 plants	1910	24	71.3	.280	19.95	.....	.....	.....	4.2	45.8	.....	50.0	.....	.....	.....	.....
	1911	24	72.0	.264	18.98	.....	.....	.....	4.2	25.0	70.8	.....	.....	.....	.....	.....
	1912	24	72.0	.304	21.87	.....	.....	.....	4.2	4.2	45.8	45.8	.....	.....	.....	.....
Roll engineers:																
6 plants	1910	42	77.4	.310	24.30	.....	.....	.....	.....	38.1	23.8	14.3	23.8	.....	.....	.....
	1911	37	76.2	.282	21.67	.....	.....	.....	.....	43.2	27.0	24.3	5.4	.....	.....	.....
7 plants	1911	43	75.8	.277	21.14	.....	.....	.....	.....	46.5	27.9	20.9	4.7	.....	.....	.....
	1912	48	74.1	.304	22.44	.....	.....	.....	.....	27.1	39.6	25.0	8.3	.....	.....	.....
Rollers:																
5 plants	1910	12	72.3	.624	45.09	.....	.....	.....	.....	.....	.....	.....	.....	33.3	66.7	.....
	1911	12	72.3	.614	44.40	.....	.....	.....	.....	.....	.....	.....	8.3	25.0	58.3	8.3
6 plants	1911	14	72.3	.591	42.67	.....	.....	.....	.....	.....	.....	.....	21.4	21.4	50.0	7.1
	1912	14	72.3	.646	46.65	.....	.....	.....	.....	.....	.....	.....	7.1	7.1	64.3	21.4
Rollers' helpers:																
1 plant	1910	3	72.0	.561	40.39	.....	.....	.....	.....	.....	.....	.....	.....	100.0	.....	.....
	1911	1	72.0	.458	32.98	.....	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....
2 plants	1911	3	72.7	.284	20.56	.....	.....	.....	66.7	.....	.....	.....	33.3	.....	.....	.....
	1912	6	72.6	.304	21.98	.....	.....	.....	.....	66.7	.....	.....	33.3	.....	.....	.....
Table levermen:																
6 plants	1910	74	65.5	.454	28.25	.....	.....	.....	.....	2.7	2.7	43.2	27.0	.....	16.2	8.1
	1911	69	64.0	.422	26.08	.....	.....	.....	.....	7.2	14.5	30.4	18.8	23.2	5.8	.....
	1912	74	64.5	.427	26.82	.....	.....	.....	.....	8.1	17.6	17.6	16.2	37.8	2.7	.....
Table men:																
4 plants	1910	26	72.0	.279	20.06	.....	.....	.....	23.1	.....	38.5	38.5	.....	.....	.....	.....
	1911	26	72.0	.264	19.00	.....	.....	.....	23.1	7.7	46.2	23.1	.....	.....	.....	.....
5 plants	1911	27	72.4	.262	18.97	.....	.....	.....	22.2	11.1	44.4	22.2	.....	.....	.....	.....
	1912	25	72.5	.287	20.77	.....	.....	.....	16.0	12.0	20.0	52.0	.....	.....	.....	.....
Guide setters:																
5 plants	1910	20	66.8	.440	29.26	.....	.....	.....	5.0	5.0	.....	25.0	20.0	45.0	.....	.....
	1911	17	65.8	.373	24.31	.....	.....	.....	5.9	5.9	5.9	41.2	35.3	5.9	.....	.....
7 plants	1911	27	66.8	.336	22.20	.....	.....	.....	3.7	18.5	14.8	37.0	22.2	3.7	.....	.....
	1912	30	67.3	.346	23.14	.....	.....	.....	3.3	16.7	20.0	30.0	26.7	3.3	.....	.....
Hot-saw men:																
6 plants	1910	19	72.0	.289	20.79	.....	.....	.....	.....	36.8	10.5	52.6	.....	.....	.....	.....
	1911	14	72.0	.258	18.56	.....	.....	.....	.....	50.0	35.7	14.3	.....	.....	.....	.....
7 plants	1911	16	72.0	.251	18.10	.....	.....	.....	.....	56.3	31.3	12.5	.....	.....	.....	.....
	1912	18	72.0	.257	18.52	.....	.....	11.1	5.6	27.8	44.4	11.1	.....	.....	.....	.....
Hot-saw men's helpers:																
6 plants	1910	64	72.4	.165	11.92	.....	28.1	62.5	9.4	.....	.....	.....	.....	.....	.....	.....
	1911	59	72.1	.168	12.14	.....	15.3	74.6	10.2	.....	.....	.....	.....	.....	.....	.....
7 plants	1911	66	72.1	.168	12.10	.....	19.7	71.2	9.1	.....	.....	.....	.....	.....	.....	.....
	1912	73	72.1	.169	12.20	4.1	.....	82.2	13.7	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Concluded.

STANDARD RAIL MILLS—Continued.

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Hotbed lever men:																
6 plants	1910	34	74.1	$0.209	$15.64	.....	.....	11.8	41.2	29.4	17.6	.....	.....	.....	.....	.....
	1911	27	72.1	.197	14.21	.....	.....	22.2	33.3	44.4	.....	.....	.....	.....	.....	.....
7 plants	1911	31	72.1	.195	14.06	.....	.....	25.8	35.5	38.7	.....	.....	.....	.....	.....	.....
	1912	35	72.1	.201	14.51	.....	.....	25.7	34.3	34.3	5.7	.....	.....	.....	.....	.....
Hotbed men:																
6 plants	1910	44	73.6	.176	12.95	[1] 13.6	....	36.4	18.2	31.8	.....	.....	.....	.....	.....	.....
	1911	43	72.0	.175	12.60	[1] 14.0	9.3	41.9	4.7	30.2	.....	.....	.....	.....	.....	.....
7 plants	1911	47	72.0	.176	12.65	[1] 12.8	8.5	42.6	8.5	27.7	.....	.....	.....	.....	.....	.....
	1912	48	72.2	.180	12.98	[1] 12.5	4.2	52.1	6.3	16.7	8.3	.....	.....	.....	.....	.....
Straighteners, gag press:																
5 plants	1910	106	59.0	.564	32.41	.....	.....	.....	.....	.....	.....	.....	49.1	11.3	34.0	5.7
	1911	90	56.3	.534	30.12	.....	.....	.....	.....	.....	.....	15.6	30.0	.....	54.4	.....
6 plants	1911	94	56.9	.526	29.91	.....	.....	.....	.....	.....	.....	19.1	28.7	.....	52.1	.....
	1912	98	57.6	.530	30.79	.....	.....	.....	.....	.....	.....	24.5	18.4	.....	51.0	6.1
Straighteners' helpers:																
5 plants	1910	139	72.1	.205	14.55	.....	.7	51.8	....	30.2	.7	16.5	.....	.....	.....	.....
	1911	116	69.8	.205	14.04	.....	.....	54.3	15.5	12.1	.....	18.1	.....	.....	.....	.....
6 plants	1911	120	69.9	.205	14.05	.....	.....	52.5	15.0	15.0	.....	17.5	.....	.....	.....	.....
	1912	134	70.0	.212	14.51	.....	.....	67.2	....	13.4	3.0	11.9	4.5	.....	.....	.....
Chippers:																
5 plants	1910	114	72.1	.231	16.78	.....	.....	18.4	10.5	21.1	50.0	.....	.....	.....	.....	.....
	1911	82	70.0	.240	16.88	.....	.....	1.2	39.0	12.2	32.9	14.6	.....	.....	.....	.....
6 plants	1911	91	70.2	.233	16.44	.....	.....	11.0	35.2	11.0	29.7	13.2	.....	.....	.....	.....
	1912	99	70.3	.221	15.60	.....	.....	3.0	36.4	48.5	.....	12.1	.....	.....	.....	.....
Drillers and punchers:																
5 plants	1910	152	76.7	.220	16.78	.....	.....	18.4	....	47.4	34.2	.....	.....	.....	.....	.....
	1911	123	70.5	.221	15.59	.....	.....	3.3	45.5	26.8	24.4	.....	.....	.....	.....	.....
6 plants	1911	133	70.6	.218	15.35	.....	.....	10.5	42.1	24.8	22.6	.....	.....	.....	.....	.....
	1912	145	70.5	.206	14.51	.....	.....	1.4	60.0	37.2	.....	1.4	.....	.....	.....	.....
Cold-saw men:																
5 plants	1910	18	74.7	.191	14.21	.....	.....	5.6	33.3	11.1	.....	.....	.....	.....	.....	.....
	1911	18	69.1	.194	13.43	.....	5.6	.....	88.9	....	5.6	.....	.....	.....	.....	.....
6 plants	1911	19	69.3	.194	13.43	.....	5.3	.....	89.5	....	5.3	.....	.....	.....	.....	.....
	1912	19	69.3	.196	13.60	.....	.....	.....	94.7	.....	.....	5.3	.....	.....	.....	.....
Cold-saw men's helpers:																
3 plants	1910	30	76.0	.171	12.98	.....	.....	100.0	....	.....	.....	.....	.....	.....	.....	.....
	1911	31	72.0	.172	12.40	.....	.....	100.0	....	.....	.....	.....	.....	.....	.....	.....
4 plants	1911	36	72.0	.172	12.38	.....	.....	100.0	....	.....	.....	.....	.....	.....	.....	.....
	1912	29	72.0	.173	12.45	.....	.....	100.0	....	.....	.....	.....	.....	.....	.....	.....
Inspectors:																
5 plants	1910	68	75.5	.225	16.77	.....	.....	5.9	38.2	44.1	2.9	7.4	1.5	.....	.....	.....
	1911	48	70.4	.233	16.29	.....	.....	8.3	20.8	56.3	4.2	8.3	2.1	.....	.....	.....
7 plants	1911	68	70.9	.230	16.25	.....	.....	5.9	14.7	60.3	11.8	5.9	1.5	.....	.....	.....
	1912	76	71.0	.228	16.12	.....	2.6	.....	25.0	56.6	9.2	2.6	3.9	.....	.....	.....
Laborers:																
6 plants	1910	501	76.0	.163	12.31	.....	23.4	76.6	....	.....	.....	.....	.....	.....	.....	.....
	1911	370	71.9	.169	12.12	.....	10.0	90.0	....	.....	.....	.....	.....	.....	.....	.....
7 plants	1911	382	71.9	.169	12.12	.....	9.7	90.3	....	.....	.....	.....	.....	.....	.....	.....
	1912	417	71.9	.168	12.07	.....	5.0	95.0	....	.....	.....	.....	.....	.....	.....	.....

[1] Earning 10 and under 12 cents.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912.

STANDARD RAIL MILLS—Continued.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West."]

CHARGING-MACHINE OPERATORS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Pittsburgh	2	16	72.0	$0.238	$17.10	.....	.....	8	.....	.....	.....	8	.....	.....	.....	.....
G. L. and M.W.	1	6	72.0	.226	16.27	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	.....
Total	3	22	72.0	.234	16.87	.....	.....	8	.....	6	.....	8	.....	.....	.....	.....
1911.																
Pittsburgh	2	16	72.0	.233	16.76	.....	.....	8	.....	.....	8	.....	.....	.....	.....	.....
G. L. and M.W.	1	6	72.0	.231	16.63	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	.....
Total	3	22	72.0	.232	16.72	.....	.....	8	.....	6	8	.....	.....	.....	.....	.....
1912.																
Pittsburgh	2	16	72.0	.233	16.74	.....	.....	8	.....	.....	4	4	.....	.....	.....	.....
G. L. and M.W.	1	6	72.0	.276	19.84	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
Total	3	22	72.0	.244	17.58	.....	.....	8	.....	.....	10	4	.....	.....	.....	.....

REHEATERS.

1910.																
Pittsburgh	2	12	72.4	$0.417	$30.22	.....	.....	.....	.....	.....	.....	.....	12	.....	.....	.....
G. L. and M.W.	2	11	72.0	.442	31.84	.....	.....	.....	.....	.....	1	.....	10	.....	.....	.....
Total	4	23	72.2	.429	31.00	.....	.....	.....	.....	.....	1	.....	22	.....	.....	.....
1911.																
Pittsburgh	2	12	72.0	.372	26.81	.....	.....	.....	.....	.....	.....	10	2	.....	.....	.....
G. L. and M.W.	2	11	72.0	.473	34.07	.....	.....	.....	.....	.....	1	.....	10	.....	.....	.....
Total	4	23	72.0	.421	30.28	.....	.....	.....	.....	.....	1	10	12	.....	.....	.....
1912.																
Pittsburgh	2	12	72.0	.277	19.91	.....	.....	.....	.....	.....	10	1	1	.....	.....	.....
G. L. and M.W.	2	11	72.0	.555	39 96	.....	.....	.....	.....	.....	1	.....	.....	10	.....	.....
Total	4	23	72.0	.410	29.50	.....	.....	.....	.....	.....	11	1	1	10	.....	.....

REHEATERS' HELPERS.

1910.																
Pittsburgh	1	12	70.5	$0.325	$22.91	.....	.....	.....	.....	.....	.....	12	.....	.....	.....	.....
G. L. and M.W.	2	12	72.0	.236	16.98	.....	.....	.....	1	11	.....	.....	.....	.....	.....	.....
Total	3	24	71.3	.280	19.95	.....	.....	.....	1	11	.....	12	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

REHEATERS' HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over
1911.																
Pittsburgh	1	12	72.0	$0.283	$20.34	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....
G. L. and M.W.	2	12	72.0	.245	17.61	.....	.....	.....	1	6	5	.....	.....	.....	.....	.....
Total	3	24	72.0	.264	18.98	.....	.....	.....	1	6	17	.....	.....	.....	.....	.....
1912.																
Pittsburgh	1	12	72.0	.328	23.62	.....	.....	.....	.....	.....	6	6	.....	.....	.....	.....
G. L. and M.W.	2	12	72.0	.280	20.13	.....	.....	.....	1	1	5	5	.....	.....	.....	.....
Total	3	24	72.0	.304	21.87	.....	.....	.....	1	1	11	11	.....	.....	.....	.....

ROLL ENGINEERS.

1910.																
Pittsburgh	2	8	75.0	$0.263	$19.78	.....	.....	.....	.....	2	6	.....	.....	.....	.....	.....
G. L. and M.W.	4	34	78.0	.321	25.37	.....	.....	.....	.....	14	4	6	10	.....	.....	.....
Total	6	42	77.4	.310	24.30	.....	.....	.....	.....	16	10	6	10	.....	.....	.....
1911.																
Pittsburgh	3	14	76.7	.255	19.64	.....	.....	.....	.....	6	8	.....	.....	.....	.....	.....
G. L. and M.W.	4	29	75.3	.288	21.87	.....	.....	.....	.....	14	4	9	2	.....	.....	.....
Total	7	43	75.8	.277	21.14	.....	.....	.....	.....	20	12	9	2	.....	.....	.....
1912.																
Pittsburgh	3	14	76.7	.255	19.64	.....	.....	.....	.....	6	8	.....	.....	.....	.....	.....
G. L. and M.W.	4	34	73.1	.323	23.60	.....	.....	.....	.....	7	11	12	4	.....	.....	.....
Total	7	48	74.1	.304	22.44	.....	.....	.....	.....	13	19	12	4	.....	.....	.....

ROLLERS.

1910.																
Pittsburgh	2	6	72.0	$0.580	$41.78	.....	.....	.....	.....	.....	.....	.....	.....	4	2	.....
G. L. and M.W.	3	6	72.5	.668	48.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....
Total	5	12	72.3	.624	45.09	.....	.....	.....	.....	.....	.....	.....	.....	4	8	.....
1911.																
Pittsburgh	3	8	72.0	.529	38.08	.....	.....	.....	.....	.....	.....	.....	3	3	2	.....
G. L. and M.W.	3	6	72.5	.673	48.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	1
Total	6	14	72.2	.591	42.67	.....	.....	.....	.....	.....	.....	.....	3	3	7	1
1912.																
Pittsburgh	3	8	72.0	.609	43.86	.....	.....	.....	.....	.....	.....	.....	1	1	5	1
G. L. and M.W.	3	6	72.5	.695	50.37	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	2
Total	6	14	72.2	.646	46.65	.....	.....	.....	.....	.....	.....	.....	1	1	9	3

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

ROLLERS' HELPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
G. L. and M. W.	1	3	72.0	$0.561	$40.39	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....
1911.																
Pittsburgh	1	2	73.0	.197	14.34	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	1	72.0	.458	32.98	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Total	2	3	72.7	.284	20.56	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....
1912.																
Pittsburgh	1	4	72.9	.224	16.34	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	2	72.0	.462	33.26	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Total	2	6	72.6	.304	21.98	.....	.....	.....	.....	4	.....	.....	2	.....	.....	.....

TABLE LEVER MEN.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Pittsburgh	2	14	72.0	$0.351	$25.29	.....	.....	.....	.....	.....	2	10	2	.....	.....	.....
G. L. and M. W.	4	60	64.0	.478	28.94	.....	.....	.....	.....	2	.....	22	18	.....	12	6
Total	6	74	65.5	.454	28.25	.....	.....	.....	.....	2	2	32	20	.....	12	6
1911.																
Pittsburgh	2	14	72.0	.307	22.12	.....	.....	.....	.....	2	7	4	1	.....	.....	.....
G. L. and M. W.	4	55	62.0	.452	27.09	.....	.....	.....	.....	3	3	17	12	16	4	.....
Total	6	69	64.0	.422	26.08	.....	...	.....	.....	5	10	21	13	16	4	.....
1912.																
Pittsburgh	2	14	72.0	.285	20.51	.....	.....	.....	.....	2	7	5	.....	.....	.....	.....
G. L. and M. W.	4	60	62.8	.460	28.30	.....	.....	.....	.....	4	6	8	12	28	2	.....
Total	6	74	64.5	.427	26.82	.....	.....	.....	.....	6	13	13	12	28	2	.....

TABLE MEN.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Pittsburgh	2	12	72.0	$0.329	$23.69	.....	.....	.....	.....	.....	2	10	.. ..	.....	.....	.....
G. L. and M. W.	2	14	72.0	.235	16.95	.....	.....	.....	6	.....	8	.....	.....	.....	.....	.....
Total	4	26	72.0	.279	20.06	.....	.....	.....	6	.....	10	10	.....	.....	.....	.....
1911.																
Pittsburgh	3	13	72.8	.286	20.73	.....	.....	.....	.....	3	4	6	.....	.....	.....	.....
G. L. and M. W.	2	14	72.0	.241	17.34	.....	.....	.....	6	.....	8	.....	.....	.....	.....	.....
Total	5	27	72.4	.262	18.97	.....	.....	.....	6	3	12	6	.....	.....	.....	.....
1912.																
Pittsburgh	3	13	72.9	.285	20.71	.....	.....	.....	.....	3	5	5	.....	.....	.....	.....
G. L. and M. W.	2	12	72.0	.289	20.83	.....	.....	.....	4	.....	.....	8	.....	.....	.....	.....
Total	5	25	72.5	.287	20.77	.....	.....	.....	4	3	5	13	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

GUIDE SETTERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Pittsburgh	2	9	63.0	$0.346	$23.94	.....	.....	.....	1	1	.....	3	4	.....	.....	.....
G. L. and M. W.	3	11	65.7	.517	33.61	.....	.....	.....	.....	.....	.....	2	.....	9	.....	.....
Total	5	20	66.8	.440	29.26	.....	.....	.....	1	1	.....	5	4	9	.....	.....
1911.																
Pittsburgh	3	15	70.0	.295	20.78	.....	.....	.....	1	3	3	7	1	.....	.....	.....
G. L. and M. W.	4	12	62.8	.386	23.98	.....	.....	.....	.....	2	1	3	5	1	.....	.....
Total	7	27	66.8	.336	22.20	.....	.....	.....	1	5	4	10	6	1	.....	.....
1912.																
Pittsburgh	3	15	70.0	.290	20.41	.....	.....	.....	1	3	5	6	.....	.....	.....	.....
G. L. and M. W.	4	15	64.6	.402	25.87	.....	.....	.....	.....	2	1	3	8	1	.....	.....
Total	7	30	67.3	.346	23.14	.....	.....	.....	1	5	6	9	8	1	.....	.....

HOT-SAW MEN.

1910.																
Pittsburgh	2	4	72.0	$0.262	$18.83	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....
G. L. and M. W.	4	15	72.0	.296	21.31	.....	.....	.....	.....	5	.....	10	.....	.....	.....	.....
Total	6	19	72.0	.289	20.79	.....	.....	.....	.....	7	2	10	.....	.....	.....	.....
1911.																
Pittsburgh	3	6	72.0	.223	16.04	.....	.....	.....	.....	5	1	.....	.....	.....	.....	.....
G. L. and M. W.	4	10	72.0	.269	19.34	.....	.....	.....	.....	4	4	2	.....	.....	.....	.....
Total	7	16	72.0	.251	18.10	.....	.....	.....	.....	9	5	2	.....	.....	.....	.....
1912.																
Pittsburgh	3	6	72.0	.211	15.16	.....	.....	2	1	3	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	12	72.0	.281	20.20	.....	.....	.....	.....	2	8	2	.....	.....	.....	.....
Total	7	18	72.0	.257	18.52	.....	.....	2	1	5	8	2	.....	.....	.....	.....

HOT-SAW MEN'S HELPERS.

1910.																
Pittsburgh	2	8	72.0	$0.177	$12.76	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	56	72.4	.163	11.80	.....	18	32	6	.....	.....	.....	.....	.....	.....	.....
Total	6	64	72.4	.165	11.92	.....	18	40	6	.....	.....	.....	.....	.....	.....	.....
1911.																
Pittsburgh	3	21	72.2	.164	11.85	.....	10	11	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	45	72.0	.170	12.22	.....	3	36	6	.....	.....	.....	.....	.....	.....	.....
Total	7	66	72.1	.168	12.10	.....	13	47	6	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

HOT-SAW MEN'S HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1912.																
Pittsburgh	3	21	72.2	$0.169	$12.23	3	....	14	4	....	....	....	....	....	....	....
G. L. and M. W.	4	52	72.0	.169	12.18	....	....	46	6	....	....	....	....	....	....	....
Total	7	73	72.1	.169	12.20	3	....	60	10	....	....	....	....	....	....	....

HOTBED LEVER MEN.

1910.																
Pittsburgh	2	12	72.0	$0.201	$14.45	....	....	4	....	8	....	....	....	....	....	....
G. L. and M. W.	4	22	75.3	.214	16.29	....	....	....	14	2	6	....	....	....	....	....
Total	6	34	74.1	.209	15.64	....	....	4	14	10	6	....	....	....	....	....
1911.																
Pittsburgh	3	16	72.3	.193	13.93	....	....	6	2	8	....	....	....	....	....	....
G. L. and M. W.	4	15	72.0	.197	14.20	....	....	2	9	4	....	....	....	....	....	....
Total	7	31	72.1	.195	14.06	....	....	8	11	12	....	....	....	....	....	....
1912.																
Pittsburgh	3	16	72.3	.191	13.82	....	....	7	3	6	....	....	....	....	....	....
G. L. and M. W.	4	19	72.0	.210	15.09	....	....	2	9	6	2	....	....	....	....	....
Total	7	35	72.1	.201	14.51	....	....	9	12	12	2	....	....	....	....	....

HOTBED MEN.

1910.																
Pittsburgh	2	16	72.0	$0.193	$13.89	....	....	4	6	6	....	....	....	....	....	....
G. L. and M. W.	4	28	74.6	.166	12.42	[1] 6	....	12	2	8	....	....	....	....	....	....
Total	6	44	73.6	.176	12.95	[1] 6	....	16	8	14	....	....	....	....	....	....
1911.																
Pittsburgh	3	18	72.0	.178	12.83	....	4	8	2	4	....	....	....	....	....	....
G. L. and M. W.	4	29	72.0	.174	12.54	[1] 6	....	12	2	9	....	....	....	....	....	....
Total	7	47	72.0	.176	12.65	[1] 6	4	20	4	13	....	....	....	....	....	....
1912.																
Pittsburgh	3	18	72.6	.182	13.19	....	2	11	1	4	....	....	....	....	....	....
G. L. and M. W.	4	30	72.0	.178	12.85	[1] 6	....	14	2	4	4	....	....	....	....	....
Total	7	48	72.2	.180	12.98	[1] 6	2	25	3	8	4	....	....	....	....	....

[1] Earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

STRAIGHTENERS, GAG PRESS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Pittsburgh	1	30	48.0	$0.471	$22.61	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	.....
G. L. and M. W.	4	76	63.4	.600	36.28	.....	.....	.....	.....	.....	.....	.....	22	12	36	6
Total	5	106	59.0	.564	32.41	.....	.....	.....	.....	.....	.....	.....	52	12	36	6
1911.																
Pittsburgh	2	31	51.1	.415	21.00	.....	.....	.....	.....	.....	.....	4	27	.....	.....	.....
G. L. and M. W.	4	63	59.8	.581	34.30	.....	.....	.....	.....	.....	.....	14	.....	.....	49	.....
Total	6	94	56.9	.526	29.91	.....	.....	.....	.....	.....	.....	18	27	.....	49	.....
1912.																
Pittsburgh	2	28	51.4	.390	20.81	.....	.....	.....	.....	.....	.....	24	.....	.....	4	.....
G. L. and M. W.	4	70	60.0	.586	34.79	.....	.....	.....	.....	.....	.....	.....	18	.....	46	6
Total	6	98	57.6	.530	30.79	.....	.....	.....	.....	.....	.....	24	18	.....	50	6

STRAIGHTENERS' HELPERS.

1910.																
Pittsburgh	1	20	72.0	$0.211	$15.19	.....	.....	.....	.....	20	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	119	72.1	.204	14.44	.....	1	72	.....	22	1	23	.....	.....	.....	.....
Total	5	139	72.1	.205	14.55	.....	1	72	.....	42	1	23	.....	.....	.....	.....
1911.																
Pittsburgh	2	23	72.0	.192	13.81	.....	.....	1	18	4	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	97	69.4	.208	14.10	.....	.....	62	.....	14	.....	21	.....	.....	.....	.....
Total	6	120	69.9	.205	14.05	.....	.....	63	18	18	.....	21	.....	.....	.....	.....
1912.																
Pittsburgh	2	29	72.0	.190	13.69	.....	.....	25	.....	.....	4	.....	.....	.....	.....	.....
G. L. and M. W.	4	105	69.5	.218	14.73	.....	.....	65	.....	18	.....	16	6	.....	.....	.....
Total	6	134	70.0	.212	14.51	.....	.....	90	.....	18	4	16	6	.....	.....	.....

CHIPPERS.

1910.																
Pittsburgh	1	22	72.0	$0.252	$18.14	.....	.....	.....	.....	.....	22	.....	.....	.....	.....	.....
G. L. and M. W.	4	92	72.1	.226	16.45	.....	.....	21	12	24	35	.....	.....	.....	.....	.....
Total	5	114	72.1	.231	16.78	.....	.....	21	12	24	57	.....	.....	.....	.....	.....
1911.																
Pittsburgh	2	27	72.0	.223	16.05	.....	.....	9	.....	9	9	.....	.....	.....	.....	.....
G. L. and M. W.	4	64	69.4	.238	16.61	.....	.....	1	32	1	18	12	.....	.....	.....	.....
Total	6	91	70.2	.233	16.44	.....	.....	10	32	10	27	12	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

CHIPPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1912.																
Pittsburgh	2	27	72.0	$0.194	$13.98			1	18	8						
G. L. and M. W.	4	72	69.7	.231	16.20			2	18	40		12				
Total	6	99	70.3	.221	15.60			3	36	48		12				
DRILLERS AND PUNCHERS.																
1910.																
Pittsburgh	1	24	72.0	$0.250	$18.00						24					
G. L. and M. W.	4	128	77.6	.215	16.55			28		72	28					
Total	5	152	76.7	.220	16.78			28		72	52					
1911.																
Pittsburgh	2	30	72.0	.224	16.11			10		10	10					
G. L. and M. W.	4	103	70.2	.216	15.13			4	56	23	20					
Total	6	133	70.6	.218	15.35			14	56	33	30					
1912.																
Pittsburgh	2	30	72.0	.195	14.06				20	10						
G. L. and M. W.	4	115	70.1	.209	14.63			2	67	44		2				
Total	6	145	70.5	.206	14.51			2	87	54		2				
COLD-SAW MEN.																
1910.																
Pittsburgh	1	5	84.0	$0.187	$15.71				5							
G. L. and M. W.	4	13	71.1	.192	13.63			1	10	2						
Total	5	18	74.7	.191	14.21			1	15	2						
1911.																
Pittsburgh	2	5	76.0	.190	14.41				5							
G. L. and M. W.	4	14	66.9	.195	13.08		1		12		1					
Total	6	19	69.3	.194	13.43		1		17		1					
1912.																
Pittsburgh	2	5	76.0	.190	14.41				5							
G. L. and M. W.	4	14	66.9	.198	13.30				13			1				
Total	6	19	69.3	.196	13.60				18			1				
COLD-SAW MEN'S HELPERS.																
1910.																
Pittsburgh	1	18	76.0	$0.175	$13.30			18								
G. L. and M. W.	2	12	76.0	.165	12.50			12								
Total	3	30	76.0	.171	12.98			30								

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Concluded.

STANDARD RAIL MILLS—Continued.

COLD-SAW MEN'S HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Pittsburgh	2	24	72.0	$0.174	$12.53	.....	.....	24	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	2	12	72.0	.168	12.10	.....	.....	12	.....	.....	.....	.....	.....	.....	.....	.....
Total	4	36	72.0	.172	12.38	.....	.....	36	.....	.....	.....	.....	.....	.....	.....	.....
1912.																
Pittsburgh	2	21	72.0	.175	12.57	.....	.....	21	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	2	8	72.0	.169	12.13	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	.....
Total	4	29	72.0	.173	12.45	.....	.....	29	.....	.....	.....	.....	.....	.....	.....	.....
INSPECTORS.																
1910.																
Pittsburgh	1	4	72.0	$0.176	$12.67	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	64	75.8	.228	17.03	.....	.....	.....	26	30	2	5	1	.....	.....	.....
Total	5	68	75.5	.225	16.77	.....	.....	4	26	30	2	5	1	.....	.....	.....
1911.																
Pittsburgh	3	24	72.0	.215	15.51	.....	.....	4	.....	14	6	.....	.....	.....	.....	.....
G. L. and M. W.	4	44	70.2	.239	16.65	.....	.....	.....	10	27	2	4	1	.....	.....	.....
Total	7	68	70.9	.230	16.25	.....	.....	4	10	41	8	4	1	.....	.....	.....
1912.																
Pittsburgh	3	22	72.0	.214	15.39	.....	2	.....	2	13	5	.....	.....	.....	.....	.....
G. L. and M. W.	4	54	70.6	.234	16.42	.....	.....	.....	17	30	2	2	3	.....	.....	.....
Total	7	76	71.0	.228	16.12	.....	2	.....	19	43	7	2	3	.....	.....	.....
LABORERS.																
1910.																
Pittsburgh	2	122	76.4	$0.161	$12.18	.....	50	72	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	379	75.9	.163	12.35	.....	67	312	.....	.....	.....	.....	.....	.....	.....	.....
Total	6	501	76.0	.163	12.31	.....	117	384	.....	.....	.....	.....	.....	.....	.....	.....
1911.																
Pittsburgh	3	116	71.9	.169	12.17	.....	17	99	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	266	71.9	.169	12.10	.....	20	246	.....	.....	.....	.....	.....	.....	.....	.....
Total	7	382	71.9	.169	12.12	.....	37	345	.....	.....	.....	.....	.....	.....	.....	.....
1912.																
Pittsburgh	3	100	71.2	.167	11.88	.....	21	79	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	4	317	72.1	.169	12.13	.....	.....	317	.....	.....	.....	.....	.....	.....	.....	.....
Total	7	417	71.9	.168	12.07	.....	21	396	.....	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912.

STANDARD RAIL MILLS—Continued.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West." The figures set opposite each bracketed group of years are for identical plants.]

CHARGING-MACHINE OPERATORS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
2 plants	1910	16	72.0	$0.238	$17.10			8				8				
	1911	16	72.0	.233	16.76			8			8					
	1912	16	72.0	.233	16.74			8			4	4				
G.L.and M.W.:																
1 plant	1910	6	72.0	.226	16.27					6						
	1911	6	72.0	.231	16.63					6						
	1912	6	72.0	.276	19.84						6					

REHEATERS.

Pittsburgh:																
2 plants	1910	12	72.4	$0.417	$30.22								12			
	1911	12	72.0	.372	26.81							10	2			
	1912	12	72.0	.277	19.91						10	1	1			
G.L. and M.W.:																
2 plants	1910	11	72.0	.442	31.84						1		10			
	1911	11	72.0	.473	34.07						1		10			
	1912	11	72.0	.555	39.96						1			10		

REHEATERS' HELPERS.

Pittsburgh:																
1 plant	1910	12	70.5	$0.325	$22.91							12				
	1911	12	72.0	.283	20.34						12					
	1912	12	72.0	.328	23.62						6	6				
G.L.and M.W.:																
2 plants	1910	12	72.0	.236	16.98				1	11						
	1911	12	72.0	.245	17.61				1	6	5					
	1912	12	72.0	.280	20.13				1	1	5	5				

ROLL ENGINEERS.

Pittsburgh:																
2 plants	1910	8	75.0	$0.263	$19.78					2	6					
	1911	8	79.5	.263	20.93					2	6					
3 plants	1911	14	76.7	.255	19.64					6	8					
	1912	14	76.7	.255	19.64					6	8					
G.L.and M.W.:																
4 plants	1910	34	78.0	.321	25.37					14	4	6	10			
	1911	29	75.3	.288	21.87					14	4	9	2			
	1912	34	73.1	.323	23.60					7	11	12	4			

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

ROLLERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
2 plants....	1910	6	72.0	$0.580	$41.78	.....	.....	.....	.....	.....	.....	.....	.....	4	2	.....
	1911	6	72.0	.556	40.00	.....	.....	.....	.....	.....	.....	.....	1	3	2	.....
3 plants....	1911	8	72.0	.529	38.08	.....	.....	.....	.....	.....	.....	.....	3	3	2	.....
	1912	8	72.0	.609	43.86	.....	.....	.....	.....	.....	.....	.....	1	1	5	1
G.L.and M.W.:																
3 plants....	1910	6	72.5	.668	48.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....
	1911	6	72.5	.673	48.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	1
	1912	6	72.5	.695	50.37	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	2

ROLLERS' HELPERS.

Pittsburgh:																
1 plant.....	1911	2	73.0	$0.197	$14.34	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
	1912	4	72.9	.224	16.34	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
G.L. and M.W.:																
1 plant.....	1910	3	72.0	.561	40.39	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....
	1911	1	72.0	.458	32.98	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
	1912	2	72.0	.462	33.26	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....

TABLE LEVER MEN.

Pittsburgh:																
2 plants....	1910	14	72.0	$0.351	$25.29	.....	.....	.....	.....	.....	2	10	2	.....	.....	.....
	1911	14	72.0	.307	22.12	.....	.....	.....	.....	2	7	4	1	.....	.....	.....
	1912	14	72.0	.285	20.51	.....	.....	.....	.....	2	7	5	.....	.....	.....	.....
G. L. and M.W.:																
4 plants....	1910	60	64.0	.478	28.94	.....	.....	.....	.....	2	.....	22	18	.....	12	6
	1911	55	62.0	.452	27.09	.....	.....	.....	.....	3	3	17	12	16	4	.....
	1912	60	62.8	.460	28.30	.....	.....	.....	.....	4	6	8	12	28	2	.....

TABLE MEN.

Pittsburgh:																
2 plants....	1910	12	72.0	$0.329	$23.69	.....	.....	.....	.....	.....	2	10	.....	.....	.....	.....
	1911	12	72.0	.291	20.94	.....	.....	.....	.....	2	4	6	.....	.....	.....	.....
3 plants....	1911	13	72.8	.286	20.73	.....	.....	.....	.....	3	4	6	.....	.....	.....	.....
	1912	13	72.9	.285	20.71	.....	.....	.....	.....	3	5	5	.....	.....	.....	.....
G.L.and M.W.:																
2 plants....	1910	14	72.0	.235	16.95	.....	.....	.....	6	.....	8	.....	.....	.....	.....	.....
	1911	14	72.0	.241	17.34	.....	.....	.....	6	.....	8	.....	.....	.....	.....	.....
	1912	12	72.0	.289	20.83	.....	.....	.....	4	.....	.....	8	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

GUIDE SETTERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
2 plants	1910	9	68.0	$0.346	$23.94	.....	.....	.....	1	1	.....	3	4	.....	.....	.....
	1911	9	68.0	.310	21.38	.....	.....	.....	1	1	1	5	1	.....	.....	.....
3 plants	1911	15	70.0	.295	20.78	.....	.....	.....	1	3	3	7	1	.....	.....	.....
	1912	15	70.0	.290	20.41	.....	.....	.....	1	3	5	6	.....	.....	.....	.....
G.L. and M.W.:																
3 plants	1910	11	65.7	.517	33.61	.....	.....	.....	.....	.....	.....	2	.....	9	.....	.....
	1911	8	63.4	.443	27.62	.....	.....	.....	.....	.....	.....	2	5	1	.....	.....
4 plants	1911	12	62.8	.386	23.98	.....	.....	.....	.....	2	1	3	5	1	.....	.....
	1912	15	64.6	.402	25.87	.....	.....	.....	.....	2	1	3	8	1	.....	.....

HOT-SAW MEN.

Pittsburgh:																
2 plants	1910	4	72.0	$0.262	$18.83	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....
	1911	4	72.0	.231	16.60	.....	.....	.....	.....	3	1	.....	.....	.....	.....	.....
3 plants	1911	6	72.0	.223	16.04	.....	.....	.....	.....	5	1	.....	.....	.....	.....	.....
	1912	6	72.0	.211	15.16	.....	.....	2	1	3	.....	.....	.....	.....	.....	.....
G.L. and M.W.:																
4 plants	1910	15	72.0	.296	21.31	.....	.....	.....	.....	5	.....	10	.....	.....	.....	.....
	1911	10	72.0	.269	19.34	.....	.....	.....	.....	4	4	2	.....	.....	.....	.....
	1912	12	72.0	.281	20.20	.....	.....	.....	.....	2	8	2	.....	.....	.....	.....

HOT-SAW MEN'S HELPERS.

Pittsburgh:																
2 plants	1910	8	72.0	$0.177	$12.76	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	.....
	1911	14	72.3	.165	11.90	.....	6	8	.....	.....	.....	.....	.....	.....	.....	.....
3 plants	1911	21	72.2	.164	11.85	.....	10	11	.....	.....	.....	.....	.....	.....	.....	.....
	1912	21	72.2	.169	12.23	3	.....	14	4	.....	.....	.....	.....	.....	.....	.....
G.L. and M.W.:																
4 plants	1910	56	72.4	.163	11.80	.....	18	32	6	.....	.....	.....	.....	.....	.....	.....
	1911	45	72.0	.170	12.22	.....	3	36	6	.....	.....	.....	.....	.....	.....	.....
	1912	52	72.0	.169	12.18	.....	.....	46	6	.....	.....	.....	.....	.....	.....	.....

HOTBED LEVER MEN.

Pittsburgh:																
2 plants	1910	12	72.0	$0.201	$14.45	.....	.....	4	.....	8	.....	.....	.....	.....	.....	.....
	1911	12	72.3	.197	14.24	.....	.....	4	.....	8	.....	.....	.....	.....	.....	.....
3 plants	1911	16	72.3	.193	13.93	.....	.....	6	2	8	.....	.....	.....	.....	.....	.....
	1912	16	72.3	.191	13.82	.....	.....	7	3	6	.....	.....	.....	.....	.....	.....
G.L. and M.W.:																
4 plants	1910	22	75.3	.214	16.29	.....	.....	.....	14	2	6	.....	.....	.....	.....	.....
	1911	15	72.0	.197	14.20	.....	.....	2	9	4	.....	.....	.....	.....	.....	.....
	1912	19	72.0	.210	15.09	.....	.....	2	9	6	2	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

HOTBED MEN.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
2 plants	1910	16	72.0	$0.193	$13.89	.....	....	4	6	6	.....	.....	.....	.....	.....	.....
	1911	14	72.0	.177	12.73	.....	4	6	....	4	.....	.....	.....	.....	.....	.....
3 plants	1911	18	72.0	.178	12.33	.....	4	8	2	4	.....	.....	.....	.....	.....	.....
	1912	18	72.6	.182	13.19	.....	2	11	1	4	.....	.....	.....	.....	.....	.....
G.L.and M.W.:																
4 plants	1910	28	74.6	.166	12.42	[1] 6	....	12	2	8	.....	.....	.....	.....	.....	.....
	1911	29	72.0	.174	12.54	[1] 6	....	12	2	9	.....	.....	.....	.....	.....	.....
	1912	30	72.0	.178	12.85	[1] 6	....	14	2	4	4	.....	.....	.....	.....	.....

STRAIGHTENERS, GAG PRESS.

Pittsburgh:																
1 plant	1910	30	48.0	$0.471	$22.61	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	.....
	1911	27	48.0	.424	20.35	.....	.....	.....	.....	.....	.....	.....	27	.....	.....	.....
2 plants	1911	31	51.1	.415	21.00	.....	.....	.....	.....	.....	.....	4	27	.....	.....	.....
	1912	28	51.4	.390	20.81	.....	.....	.....	.....	.....	.....	24	.....	.....	4	.....
G.L.and M.W.:																
4 plants	1910	76	63.4	.600	36.28	.....	.....	.....	.....	.....	.....	.....	22	12	36	6
	1911	63	59.8	.581	34.30	.....	.....	.....	.....	.....	.....	14	.....	.....	49	.....
	1912	70	60.0	.586	34.79	.....	.....	.....	.....	.....	.....	.....	18	.....	46	6

STRAIGHTENERS' HELPERS.

Pittsburgh:																
1 plant	1910	20	72.0	$0.211	$15.19	.....	.....	.....	.....	20	.....	.....	.....	.....	.....	.....
	1911	19	72.0	.190	13.69	.....	.....	1	18	.....	.....	.....	.....	.....	.....	.....
2 plants	1911	23	72.0	.192	13.81	.....	.....	1	18	4	.....	.....	.....	.....	.....	.....
	1912	29	72.0	.190	13.69	.....	.....	25	.....	.....	4	.....	.....	.....	.....	.....
G.L.and M.W.:																
4 plants	1910	119	72.1	.204	14.44	.....	1	72	....	22	1	23	.....	.....	.....	.....
	1911	97	69.4	.208	14.10	.....	.....	62	....	14	.....	21	.....	.....	.....	.....
	1912	105	69.5	.218	14.73	.....	.....	65	....	18	.....	16	6	.....	.....	.....

CHIPPERS.

Pittsburgh:																
1 plant	1910	22	72.0	$0.252	$18.14	.....	.....	.....	.....	.....	22	.....	.....	.....	.....	.....
	1911	18	72.0	.248	17.82	.....	.....	.....	.....	9	9	.....	.....	.....	.....	.....
2 plants	1911	27	72.0	.223	16.05	.....	.....	9	....	9	9	.....	.....	.....	.....	.....
	1912	27	72.0	.194	13.98	.....	.....	1	18	8	.....	.....	.....	.....	.....	.....
G.L. and M.W.:																
4 plants	1910	92	72.1	.226	16.45	.....	.....	21	12	24	35	.....	.....	.....	.....	.....
	1911	64	69.4	.238	16.61	.....	.....	1	32	1	18	12	.....	.....	.....	.....
	1912	72	69.7	.231	16.20	.....	.....	2	18	40	.....	12	.....	.....	.....	.....

[1] Earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Concluded.

STANDARD RAIL MILLS—Continued.

DRILLERS AND PUNCHERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
1 plant	1910	24	72.0	$0.250	$18.00	.....	.....	.....	.....	.....	24	.....	.....	.....	.....	.....
	1911	20	72.0	.249	17.93	.....	.....	.....	.....	10	10	.....	.....	.....	.....	.....
2 plants	1911	30	72.0	.224	16.11	.....	.....	10	.....	10	10	.....	.....	.....	.....	.....
	1912	30	72.0	.195	14.06	.....	.....	.....	20	10	.....	.....	.....	.....	.....	.....
G.L. and M.W.:																
4 plants	1910	128	77.6	.215	16.55	.....	.....	28	.....	72	28	.....	.....	.....	.....	.....
	1911	103	70.2	.216	15.13	.....	.....	4	56	23	20	.....	.....	.....	.....	.....
	1912	115	70.1	.209	14.63	.....	.....	2	67	44	.....	2	.....	.....	.....	.....

COLD-SAW MEN.

Pittsburgh:																
1 plant	1910	5	84.0	$0.187	$15.71	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....
	1911	4	77.0	.190	14.63	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
2 plants	1911	5	76.0	.190	14.41	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....
	1912	5	76.0	.190	14.41	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....
G.L. and M.W.:																
4 plants	1910	13	71.1	.192	13.63	.....	.....	1	10	2	.....	.....	.....	.....	.....	.....
	1911	14	66.9	.195	13.08	.....	1	.....	12	.....	1	.....	.....	.....	.....	.....
	1912	14	66.9	.198	13.30	.....	.....	.....	13	.....	.....	1	.....	.....	.....	.....

COLD-SAW MEN'S HELPERS.

Pittsburgh:																
1 plant	1910	18	76.0	$0.175	$13.30	.....	.....	18	.....	.....	.....	.....	.....	.....	.....	.....
	1911	19	72.0	.175	12.60	.....	.....	19	.....	.....	.....	.....	.....	.....	.....	.....
2 plants	1911	24	72.0	.174	12.53	.....	.....	24	.....	.....	.....	.....	.....	.....	.....	.....
	1912	21	72.0	.175	12.57	.....	.....	21	.....	.....	.....	.....	.....	.....	.....	.....
G.L. and M.W.:																
2 plants	1910	12	76.0	.165	12.50	.....	.....	12	.....	.....	.....	.....	.....	.....	.....	.....
	1911	12	72.0	.168	12.10	.....	.....	12	.....	.....	.....	.....	.....	.....	.....	.....
	1912	8	72.0	.169	12.13	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	.....

INSPECTORS.

Pittsburgh:																
1 plant	1910	4	72.0	$0.176	$12.67	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
	1911	4	72.0	.171	12.31	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
3 plants	1911	24	72.0	.215	15.51	.....	.....	4	.....	14	6	.....	.....	.....	.....	.....
	1912	22	72.0	.214	15.39	.....	2	.....	2	13	5	.....	.....	.....	.....	.....
G.L. and M.W.:																
4 plants	1910	64	75.8	.228	17.03	.....	.....	.....	26	30	2	5	1	.....	.....	.....
	1911	44	70.2	.239	16.65	.....	.....	.....	10	27	2	4	1	.....	.....	.....
	1912	54	70.6	.234	16.42	.....	.....	.....	17	30	2	2	3	.....	.....	.....

LABORERS.

Pittsburgh:																
2 plants	1910	122	76.4	$0.161	$12.18	.....	50	72	.....	.....	.....	.....	.....	.....	.....	.....
	1911	104	71.9	.169	12.16	.....	17	87	.....	.....	.....	.....	.....	.....	.....	.....
3 plants	1911	116	71.9	.169	12.17	.....	17	99	.....	.....	.....	.....	.....	.....	.....	.....
	1912	100	71.2	.167	11.88	.....	21	79	.....	.....	.....	.....	.....	.....	.....	.....
G.L. and M.W.:																
4 plants	1910	379	75.9	.163	12.35	.....	67	312	.....	.....	.....	.....	.....	.....	.....	.....
	1911	266	71.9	.169	12.10	.....	20	246	.....	.....	.....	.....	.....	.....	.....	.....
	1912	317	72.1	.169	12.13	.....	.....	317	.....	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912.

STANDARD RAIL MILLS—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Charging-machine operators:											
3 plants	1910	22	72.0	.....	.....	.....	.....	.....	22	.....	.....
	1911	22	72.0	.....	.....	.....	.....	.....	22	.....	.....
	1912	22	72.0	.....	.....	.....	.....	.....	22	.....	.....
Reheaters:											
4 plants	1910	23	72.2	.....	.....	.....	.....	.....	21	2	.....
	1911	23	72.0	.....	.....	.....	.....	.....	23	.....	.....
	1912	23	72.0	.....	.....	.....	.....	.....	23	.....	.....
Reheaters' helpers:											
3 plants	1910	24	71.3	.....	.....	.....	.....	12	12	.....	.....
	1911	24	72.0	.....	.....	.....	.....	.....	24	.....	.....
	1912	24	72.0	.....	.....	.....	.....	.....	24	.....	.....
Roll engineers:											
6 plants	1910	42	77.4	.....	.....	.....	.....	.....	20	6	16
	1911	37	76.2	.....	.....	.....	.....	.....	18	12	7
7 plants	1911	43	75.8	.....	.....	.....	.....	.....	18	18	7
	1912	48	74.1	.....	.....	.....	.....	.....	28	18	2
Rollers:											
5 plants	1910	12	72.3	.....	.....	.....	.....	.....	10	2	.....
	1911	12	72.3	.....	.....	.....	.....	.....	10	2	.....
6 plants	1911	14	72.2	.....	.....	.....	.....	.....	12	2	.....
	1912	14	72.2	.....	.....	.....	.....	.....	12	2	.....
Rollers' helpers:											
1 plant	1910	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
	1911	1	72.0	.....	.....	.....	.....	.....	1	.....	.....
2 plants	1911	3	72.7	.....	.....	.....	.....	.....	1	2	.....
	1912	6	72.6	.....	.....	.....	.....	.....	2	4	.....
Table lever men:											
6 plants	1910	74	65.5	.....	24	.....	.....	.....	44	.....	6
	1911	69	64.0	.....	24	.....	.....	.....	45	.....	.....
	1912	74	64.5	.....	24	.....	.....	.....	50	.....	.....
Table men:											
4 plants	1910	26	72.0	.....	.....	.....	.....	.....	26	.....	.....
	1911	26	72.0	.....	.....	.....	.....	.....	26	.....	.....
5 plants	1911	27	72.4	.....	.....	.....	.....	.....	26	1	.....
	1912	25	72.5	.....	.....	.....	.....	.....	24	.....	1
Guide setters:											
5 plants	1910	20	66.8	.....	3	.....	3	.....	14	.....	.....
	1911	17	65.8	.....	3	.....	3	.....	11	.....	.....
7 plants	1911	27	66.8	.....	3	.....	6	1	11	6	.....
	1912	30	67.3	.....	3	.....	6	1	14	6	.....
Hot-saw men:											
6 plants	1910	19	72.0	.....	.....	.....	.....	.....	19	.....	.....
	1911	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
7 plants	1911	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
	1912	18	72.0	.....	.....	.....	.....	.....	18	.....	.....
Hot-saw men's helpers:											
6 plants	1910	64	72.4	.....	.....	.....	.....	.....	62	.....	2
	1911	59	72.1	.....	.....	.....	.....	.....	51	8	.....
7 plants	1911	66	72.1	.....	.....	.....	.....	.....	58	8	.....
	1912	73	72.1	.....	.....	.....	.....	.....	65	8	.....
Hotbed lever men:											
6 plants	1910	34	74.1	.....	.....	.....	.....	.....	28	.....	6
	1911	27	72.1	.....	.....	.....	.....	.....	19	8	.....
7 plants	1911	31	72.1	.....	.....	.....	.....	.....	23	8	.....
	1912	35	72.1	.....	.....	.....	.....	.....	27	8	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Con.

STANDARD RAIL MILLS—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Hotbed men:											
6 plants	1910	44	73.6	.....	.....	.....	.....	.....	38	.....	6
	1911	43	72.0	.....	.....	.....	.....	.....	43	.....	.....
7 plants	1911	47	72.0	.....	.....	.....	.....	.....	47	.....	.....
	1912	48	72.2	.....	.....	.....	.....	.....	46	2	.....
Straighteners, gag press:											
5 plants	1910	106	59.0	66	.....	.....	.....	6	12	.....	22
	1911	90	56.3	56	.....	.....	6	.....	28	.....	.....
6 plants	1911	94	56.9	56	.....	.....	6	.....	32	.....	.....
	1912	98	57.6	56	.....	.....	6	.....	36	.....	.....
Straighteners' helpers:											
5 plants	1910	139	72.1	.....	.....	.....	23	.....	92	.....	24
	1911	116	69.8	.....	.....	.....	21	.....	95	.....	.....
6 plants	1911	120	69.9	.....	.....	.....	21	.....	99	.....	.....
	1912	134	70.0	.....	.....	.....	22	.....	112	.....	.....
Chippers:											
5 plants	1910	114	72.1	.....	.....	.....	12	16	61	.....	25
	1911	82	70.0	.....	.....	.....	2	16	64	.....	.....
6 plants	1911	91	70.2	.....	.....	.....	2	16	73	.....	.....
	1912	99	70.3	.....	.....	.....	2	16	81	.....	.....
Drillers and punchers:											
5 plants	1910	152	76.7	.....	.....	.....	20	.....	52	.....	80
	1911	123	70.5	.....	.....	.....	.....	21	102	.....	.....
6 plants	1911	133	70.6	.....	.....	.....	.....	21	112	.....	.....
	1912	145	70.5	.....	.....	.....	.....	24	121	.....	.....
Cold-saw men:											
5 plants	1910	18	74.7	.....	.....	.....	6	.....	2	.....	10
	1911	18	69.1	.....	.....	.....	.....	8	6	4	.....
6 plants	1911	19	69.3	.....	.....	.....	.....	8	7	4	.....
	1912	19	69.3	.....	.....	.....	.....	8	7	4	.....
Cold-saw men's helpers:											
3 plants	1910	30	76.0	.....	.....	.....	.....	.....	20	.....	10
	1911	31	72.0	.....	.....	.....	.....	.....	31	.....	.....
4 plants	1911	36	72.0	.....	.....	.....	.....	.....	36	.....	.....
	1912	29	72.0	.....	.....	.....	.....	.....	29	.....	.....
Inspectors:											
5 plants	1910	68	75.5	.....	.....	.....	9	.....	30	.....	29
	1911	48	70.4	.....	.....	.....	3	6	39	.....	.....
7 plants	1911	68	70.9	.....	.....	.....	3	6	59	.....	.....
	1912	76	71.0	.....	.....	.....	3	6	67	.....	.....
Laborers:											
6 plants	1910	501	76.0	.....	.....	.....	45	22	209	.....	225
	1911	370	71.9	.....	.....	.....	20	56	218	44	32
7 plants	1911	382	71.9	.....	.....	.....	20	56	230	44	32
	1912	417	71.9	.....	.....	.....	30	54	238	68	27

PER CENT.

Charging-machine operators:											
3 plants	1910	22	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1911	22	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1912	22	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
Reheaters:											
4 plants	1910	23	72.2	.....	.....	.....	.....	.....	91.3	8.7	.....
	1911	23	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1912	23	72.0	.....	.....	.....	.....	.....	100.0	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Con.

STANDARD RAIL MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Reheaters' helpers:											
3 plants	1910	24	71.3	.....	.....	.....	.....	50.0	50.0	.....	.....
	1911	24	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1912	24	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
Roll engineers:											
6 plants	1910	42	77.4	.....	.....	.....	.....	.....	47.6	14.3	38.1
	1911	37	76.2	.....	.....	.....	.....	.....	48.6	32.4	18.9
7 plants	1911	43	75.8	.....	.....	.....	.....	.....	41.9	41.9	16.3
	1912	48	74.1	.....	.....	.....	.....	.....	58.3	37.5	4.2
Rollers:											
5 plants	1910	12	72.3	.....	.....	.....	.....	.....	83.3	16.7	.....
	1911	12	72.3	.....	.....	.....	.....	.....	83.3	16.7	.....
6 plants	1911	14	72.2	.....	.....	.....	.....	.....	85.7	14.3	.....
	1912	14	72.2	.....	.....	.....	.....	.....	85.7	14.3	.....
Rollers' helpers:											
1 plant	1910	3	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1911	1	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
2 plants	1911	3	72.7	.....	.....	.....	.....	.....	33.3	66.7	.....
	1912	6	72.6	.....	.....	.....	.....	.....	33.3	66.7	.....
Table lever men:											
6 plants	1910	74	65.5	.....	32.4	.....	.....	.....	59.5	.....	8.1
	1911	69	64.0	.....	34.8	.....	.....	.....	65.2	.....	.....
	1912	74	64.5	.....	32.4	.....	.....	.....	67.6	.....	.....
Table men:											
4 plants	1910	26	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1911	26	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
5 plants	1911	27	72.4	.....	.....	.....	.....	.....	96.3	3.7	.....
	1912	25	72.5	.....	.....	.....	.....	.....	96.0	.....	4.0
Guide setters:											
5 plants	1910	20	66.8	.....	15.0	.....	15.0	.....	70.0	.....	.....
	1911	17	65.8	.....	17.6	.....	17.6	.....	64.7	.....	.....
7 plants	1911	27	66.8	.....	11.1	.....	22.2	3.7	40.7	22.2	.....
	1912	30	67.3	.....	10.0	.....	20.0	3.3	46.7	20.0	.....
Hot-saw men:											
6 plants	1910	19	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1911	14	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
7 plants	1911	16	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1912	18	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
Hot-saw men's helpers:											
6 plants	1910	64	72.4	.....	.....	.....	.....	.....	96.9	.....	3.1
	1911	59	72.1	.....	.....	.....	.....	.....	86.4	13.6	.....
7 plants	1911	66	72.1	.....	.....	.....	.....	.....	87.9	12.1	.....
	1912	73	72.1	.....	.....	.....	.....	.....	89.0	11.0	.....
Hotbed lever men:											
6 plants	1910	34	74.1	.....	.....	.....	.....	.....	82.4	.....	17.6
	1911	27	72.1	.....	.....	.....	.....	.....	70.4	29.6	.....
7 plants	1911	31	72.1	.....	.....	.....	.....	.....	74.2	25.8	.....
	1912	35	72.1	.....	.....	.....	.....	.....	77.1	22.9	.....
Hotbed men:											
6 plants	1910	44	73.6	.....	.....	.....	.....	.....	86.4	.....	13.6
	1911	43	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
7 plants	1911	47	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1912	48	72.2	.....	.....	.....	.....	.....	95.8	4.2	.....
Straighteners, gag press:											
5 plants	1910	106	59.0	62.3	.....	.....	.....	5.7	11.3	.....	20.8
	1911	90	56.3	62.2	.....	.....	6.7	.....	31.1	.....	.....
6 plants	1911	94	56.9	59.6	.....	.....	6.4	.....	34.0	.....	.....
	1912	98	57.6	57.1	.....	.....	6.1	.....	36.7	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Con.

STANDARD RAIL MILLS—Continued.

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Straighteners' helpers:											
5 plants	1910	139	72.1	.....	.....	.....	16.5	.....	66.2	.....	17.3
	1911	116	69.8	.....	.....	.....	18.1	.....	81.9	.....	.....
6 plants	1911	120	69.9	.....	.....	.....	17.5	.....	82.5	.....	.....
	1912	134	70.0	.....	.....	.....	16.4	.....	83.6	.....	.....
Chippers:											
5 plants	1910	114	72.1	.....	.....	.....	10.5	14.0	53.5	.....	21.9
	1911	82	70.0	.....	.....	.....	2.4	19.5	78.0	.....	.....
6 plants	1911	91	70.2	.....	.....	.....	2.2	17.6	80.2	.....	.....
	1912	99	70.3	.....	.....	.....	2.0	16.2	81.8	.....	.....
Drillers and punchers:											
5 plants	1910	152	76.7	.....	.....	.....	13.2	.....	34.2	.....	52.6
	1911	123	70.5	.....	.....	.....	.....	17.1	82.9	.....	.....
6 plants	1911	133	70.6	.....	.....	.....	.....	15.8	84.2	.....	.....
	1912	145	70.5	.....	.....	.....	.....	16.6	83.4	.....	.....
Cold-saw men:											
5 plants	1910	18	74.7	.....	.....	.....	33.3	.....	11.1	.....	55.6
	1911	18	69.1	.....	.....	.....	.....	44.4	33.3	22.2	.....
6 plants	1911	19	69.3	.....	.....	.....	.....	42.1	36.8	21.1	.....
	1912	19	69.3	.....	.....	.....	.....	42.1	36.8	21.1	.....
Cold-saw men's helpers:											
3 plants	1910	30	76.0	.....	.....	.....	.....	.....	66.7	.....	33.3
	1911	31	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
4 plants	1911	36	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1912	29	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
Inspectors:											
5 plants	1910	68	75.5	.....	.....	.....	13.2	.....	44.1	.....	42.6
	1911	48	70.4	.....	.....	.....	6.3	12.5	81.3	.....	.....
7 plants	1911	68	70.9	.....	.....	.....	4.4	8.8	86.8	.....	.....
	1912	76	71.0	.....	.....	.....	3.9	7.9	88.2	.....	.....
Laborers:											
6 plants	1910	501	76.0	.....	.....	.....	9.0	4.4	41.7	.....	44.9
	1911	370	71.9	.....	.....	.....	5.4	15.1	58.9	11.9	8.6
7 plants	1911	382	71.9	.....	.....	.....	5.2	14.7	60.2	11.5	8.4
	1912	417	71.9	.....	.....	.....	7.2	12.9	57.1	16.3	6.5

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912.

STANDARD RAIL MILLS—Continued.

CHARGING-MACHINE OPERATORS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Pittsburgh	2	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
Great Lakes and Middle West	1	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
Total	3	22	72.0	.....	.....	.....	.....	.....	22	.....	.....
1911.											
Pittsburgh	2	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
Great Lakes and Middle West	1	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
Total	3	22	72.0	.....	.....	.....	.....	.....	22	.....	.....
1912.											
Pittsburgh	2	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
Great Lakes and Middle West	1	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
Total	3	22	72.0	.....	.....	.....	.....	.....	22	.....	.....

REHEATERS.

1910.											
Pittsburgh	2	12	72.4	.....	.....	.....	.....	.....	10	2	.....
Great Lakes and Middle West	2	11	72.0	.....	.....	.....	.....	.....	11	.....	.....
Total	4	23	72.2	.....	.....	.....	.....	.....	21	2	.....
1911.											
Pittsburgh	2	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Great Lakes and Middle West	2	11	72.0	.....	.....	.....	.....	.....	11	.....	.....
Total	4	23	72.0	.....	.....	.....	.....	.....	23	.....	.....
1912.											
Pittsburgh	2	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Great Lakes and Middle West	2	11	72.0	.....	.....	.....	.....	.....	11	.....	.....
Total	4	23	72.0	.....	.....	.....	.....	.....	23	.....	.....

REHEATERS' HELPERS.

1910.											
Pittsburgh	1	12	70.5	.....	.....	.....	.....	12	.....	.....	.....
Great Lakes and Middle West	2	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Total	3	24	71.3	.....	.....	.....	.....	12	12	.....	.....
1911.											
Pittsburgh	1	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Great Lakes and Middle West	2	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Total	3	24	72.0	.....	.....	.....	.....	.....	24	.....	.....
1912.											
Pittsburgh	1	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Great Lakes and Middle West	2	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Total	3	24	72.0	.....	.....	.....	.....	.....	24	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

ROLL ENGINEERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Pittsburgh	2	8	75.0	.....	.....	.....	.....	.....	6	.....	2
Great Lakes and Middle West	4	34	78.0	.....	.....	.....	.....	.....	14	6	14
Total	6	42	77.4	.....	.....	.....	.....	.....	20	6	16
1911.											
Pittsburgh	3	14	76.7	.....	.....	.....	.....	.....	.....	12	2
Great Lakes and Middle West	4	29	75.3	.....	.....	.....	.....	.....	18	6	5
Total	7	43	75.8	.....	.....	.....	.....	.....	18	18	7
1912.											
Pittsburgh	3	14	76.7	.....	.....	.....	.....	.....	.....	12	2
Great Lakes and Middle West	4	34	73.1	.....	.....	.....	.....	.....	28	6	.....
Total	7	48	74.1	.....	.....	.....	.....	.....	28	18	2

ROLLERS.

1910.											
Pittsburgh	2	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
Great Lakes and Middle West	3	6	72.5	.....	.....	.....	.....	.....	4	2	.....
Total	5	12	72.3	.....	.....	.....	.....	.....	10	2	.....
1911.											
Pittsburgh	3	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
Great Lakes and Middle West	3	6	72.5	.....	.....	.....	.....	.....	4	2	.....
Total	6	14	72.2	.....	.....	.....	.....	.....	12	2	.....
1912.											
Pittsburgh	3	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
Great Lakes and Middle West	3	6	72.5	.....	.....	.....	.....	.....	4	2	.....
Total	6	14	72.2	.....	.....	.....	.....	.....	12	2	.....

ROLLERS' HELPERS.

1910.											
Great Lakes and Middle West	1	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
1911.											
Pittsburgh	1	2	73.0	.....	.....	.....	.....	.....	.....	2	.....
Great Lakes and Middle West	1	1	72.0	.....	.....	.....	.....	.....	1	.....	.....
Total	2	3	72.7	.....	.....	.....	.....	.....	1	2	.....
1912.											
Pittsburgh	1	4	72.9	.....	.....	.....	.....	.....	.....	4	.....
Great Lakes and Middle West	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Total	2	6	72.6	.....	.....	.....	.....	.....	2	4	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

TABLE LEVER MEN.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Pittsburgh	2	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
Great Lakes and Middle West	4	60	64.0	.....	24	.....	.....	.....	30	.....	6
Total	6	74	65.5	.....	24	.....	.....	.....	44	.....	6
1911.											
Pittsburgh	2	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
Great Lakes and Middle West	4	55	62.0	.....	24	.....	.....	.....	31	.....	.....
Total	6	69	64.0	.....	24	.....	.....	.....	45	.....	.....
1912.											
Pittsburgh	2	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
Great Lakes and Middle West	4	60	62.8	.....	24	.....	.....	.....	36	.....	.....
Total	6	74	64.5	.....	24	.....	.....	.....	50	.....	.....

TABLE MEN.

1910.											
Pittsburgh	2	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Great Lakes and Middle West	2	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
Total	4	26	72.0	.....	.....	.....	.....	.....	26	.....	.....
1911.											
Pittsburgh	3	13	72.8	.....	.....	.....	.....	.....	12	1	.....
Great Lakes and Middle West	2	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
Total	5	27	72.4	.....	.....	.....	.....	.....	26	1	.....
1912.											
Pittsburgh	3	13	72.9	.....	.....	.....	.....	.....	12	.....	1
Great Lakes and Middle West	2	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Total	5	25	72.5	.....	.....	.....	.....	.....	24	.....	1

GUIDE SETTERS.

1910.											
Pittsburgh	2	9	68.0	.....	.....	.....	3	.....	6	.....	.....
Great Lakes and Middle West	3	11	65.7	.....	3	.....	.....	.....	8	.....	.....
Total	5	20	66.8	.....	3	.....	3	.....	14	.....	.....
1911.											
Pittsburgh	3	15	70.0	.....	.....	.....	3	.....	6	6	.....
Great Lakes and Middle West	4	12	62.8	.....	3	.....	3	1	5	.....	.....
Total	7	27	66.8	.....	3	.....	6	1	11	6	.....
1912.											
Pittsburgh	3	15	70.0	.....	.....	.....	3	.....	6	6	.....
Great Lakes and Middle West	4	15	64.6	.....	3	.....	3	1	8	.....	.....
Total	7	30	67.3	.....	3	.....	6	1	14	6	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

HOT-SAW MEN.

Year and district	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Pittsburgh	2	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	4	15	72.0	.....	.....	.....	.....	.....	15	.....	.....
Total	6	19	72.0	.....	.....	.....	.....	.....	19	.....	.....
1911.											
Pittsburgh	3	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
Great Lakes and Middle West	4	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
Total	7	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
1912.											
Pittsburgh	3	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
Great Lakes and Middle West	4	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Total	7	18	72.0	.....	.....	.....	.....	.....	18	.....	.....

HOT-SAW MEN'S HELPERS.

1910.											
Pittsburgh	2	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
Great Lakes and Middle West	4	56	72.4	.....	.....	.....	.....	.....	54	.....	2
Total	6	64	72.4	.....	.....	.....	.....	.....	62	.....	2
1911.											
Pittsburgh	3	21	72.2	.....	.....	.....	.....	.....	13	8	.....
Great Lakes and Middle West	4	45	72.0	.....	.....	.....	.....	.....	45	.....	.....
Total	7	66	72.1	.....	.....	.....	.....	.....	58	8	.....
1912.											
Pittsburgh	3	21	72.2	.....	.....	.....	.....	.....	13	8	.....
Great Lakes and Middle West	4	52	72.0	.....	.....	.....	.....	.....	52	.....	.....
Total	7	73	72.1	.....	.....	.....	.....	.....	65	8	.....

HOTBED LEVER MEN.

1910.											
Pittsburgh	2	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Great Lakes and Middle West	4	22	75.3	.....	.....	.....	.....	.....	16	.....	6
Total	6	34	74.1	.....	.....	.....	.....	.....	28	.....	6
1911.											
Pittsburgh	3	16	72.3	.....	.....	.....	.....	.....	8	8	.....
Great Lakes and Middle West	4	15	72.0	.....	.....	.....	.....	.....	15	.....	.....
Total	7	31	72.1	.....	.....	.....	.....	.....	23	8	.....
1912.											
Pittsburgh	3	16	72.3	.....	.....	.....	.....	.....	8	8	.....
Great Lakes and Middle West	4	19	72.0	.....	.....	.....	.....	.....	19	.....	.....
Total	7	35	72.1	.....	.....	.....	.....	.....	27	8	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

HOTBED MEN.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Pittsburgh	2	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
Great Lakes and Middle West	4	28	74.6	.....	.....	.....	.....	.....	22	.....	6
Total	6	44	73.6	.....	.....	.....	.....	.....	38	.....	6
1911.											
Pittsburgh	3	18	72.0	.....	.....	.....	.....	.....	18	.....	.....
Great Lakes and Middle West	4	29	72.0	.....	.....	.....	.....	.....	29	.....	.....
Total	7	47	72.0	.....	.....	.....	.....	.....	47	.....	.....
1912.											
Pittsburgh	3	18	72.6	.....	.....	.....	.....	.....	16	2	.....
Great Lakes and Middle West	4	30	72.0	.....	.....	.....	.....	.....	30	.....	.....
Total	7	48	72.2	.....	.....	.....	.....	.....	46	2	.....

STRAIGHTENERS, GAG PRESS.

1910.											
Pittsburgh	1	30	48.0	30	.....	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	4	76	63.4	36	.....	.....	.....	6	12	.....	22
Total	5	106	59.0	66	.....	.....	.....	6	12	.....	22
1911.											
Pittsburgh	2	31	51.1	27	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	4	63	59.8	29	.....	.....	6	.....	28	.....	.....
Total	6	94	56.9	56	.....	.....	6	.....	32	.....	.....
1912.											
Pittsburgh	2	28	51.4	24	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	4	70	60.0	32	.....	.....	6	.....	32	.....	.....
Total	6	98	57.6	56	.....	.....	6	.....	36	.....	.....

STRAIGHTENERS' HELPERS.

1910.											
Pittsburgh	1	20	72.0	.....	.....	.....	.....	.....	20	.....	.....
Great Lakes and Middle West	4	119	72.1	.....	.....	.....	23	.....	72	.....	24
Total	5	139	72.1	.....	.....	.....	23	.....	92	.....	24
1911.											
Pittsburgh	2	23	72.0	.....	.....	.....	.....	.....	23	.....	.....
Great Lakes and Middle West	4	97	69.4	.....	.....	.....	21	.....	76	.....	.....
Total	6	120	69.9	.....	.....	.....	21	.....	99	.....	.....
1912.											
Pittsburgh	2	29	72.0	.....	.....	.....	.....	.....	29	.....	.....
Great Lakes and Middle West	4	105	69.5	.....	.....	.....	22	.....	83	.....	.....
Total	6	134	70.0	.....	.....	.....	22	.....	112	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

CHIPPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Pittsburgh	1	22	72.0	.....	.....	.....	.....	.....	22	.....	.....
Great Lakes and Middle West	4	92	72.1	.....	.....	.....	12	16	39	.....	25
Total	5	114	72.1	.....	.....	.....	12	16	61	.....	25
1911.											
Pittsburgh	2	27	72.0	.....	.....	.....	.....	.....	27	.....	.....
Great Lakes and Middle West	4	64	69.4	.....	.....	.....	2	16	46	.....	.....
Total	6	91	70.2	.....	.....	.....	2	16	73	.....	.....
1912.											
Pittsburgh	2	27	72.0	.....	.....	.....	.....	.....	27	.....	.....
Great Lakes and Middle West	4	72	69.7	.....	.....	.....	2	16	54	.....	.....
Total	6	99	70.3	.....	.....	.....	2	16	81	.....	.....

DRILLERS AND PUNCHERS.

1910.											
Pittsburgh	1	24	72.0	.....	.....	.....	.....	.....	24	.....	.....
Great Lakes and Middle West	4	128	77.6	.....	.....	.....	20	.....	28	.....	80
Total	5	152	76.7	.....	.....	.....	20	.....	52	.....	80
1911.											
Pittsburgh	2	30	72.0	.....	.....	.....	.....	.....	30	.....	.....
Great Lakes and Middle West	4	103	70.2	.....	.....	.....	.....	21	82	.....	.....
Total	6	133	70.6	.....	.....	.....	.....	21	112	.....	.....
1912.											
Pittsburgh	2	30	72.0	.....	.....	.....	.....	.....	30	.....	.....
Great Lakes and Middle West	4	115	70.1	.....	.....	.....	.....	24	91	.....	.....
Total	6	145	70.5	.....	.....	.....	.....	24	121	.....	.....

COLD-SAW MEN.

1910.											
Pittsburgh	1	5	84.0	.....	.....	.....	.....	.....	.....	.....	5
Great Lakes and Middle West	4	13	71.1	.....	.....	.....	6	.....	2	.....	5
Total	5	18	74.7	.....	.....	.....	6	.....	2	.....	10
1911.											
Pittsburgh	2	5	76.0	.....	.....	.....	.....	.....	1	4	.....
Great Lakes and Middle West	4	14	66.9	.....	.....	.....	.....	8	6	.....	.....
Total	6	19	69.3	.....	.....	.....	.....	8	7	4	.....
1912.											
Pittsburgh	2	5	76.0	.....	.....	.....	.....	.....	1	4	.....
Great Lakes and Middle West	4	14	66.9	.....	.....	.....	.....	8	6	.....	.....
Total	6	19	69.3	.....	.....	.....	.....	8	7	4	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1910 TO 1912—Concluded.

STANDARD RAIL MILLS—Continued.

COLD-SAW MEN'S HELPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Pittsburgh	1	18	76.0	.....	.....	.....	.....	.....	12	.....	6
Great Lakes and Middle West	2	12	76.0	.....	.....	.....	.....	.....	8	.....	4
Total	3	30	76.0	.....	.....	.....	.....	.....	20	.....	10
1911.											
Pittsburgh	2	24	72.0	.....	.....	.....	.....	.....	24	.....	.....
Great Lakes and Middle West	2	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Total	4	36	72.0	.....	.....	.....	.....	.....	36	.....	.....
1912.											
Pittsburgh	2	21	72.0	.....	.....	.....	.....	.....	21	.....	.....
Great Lakes and Middle West	2	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
Total	4	29	72.0	.....	.....	.....	.....	.....	29	.....	.....

INSPECTORS.

1910.											
Pittsburgh	1	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	4	64	75.8	.....	.....	.....	9	.....	26	.....	29
Total	5	68	75.5	.....	.....	.....	9	.....	30	.....	29
1911.											
Pittsburgh	3	24	72.0	.....	.....	.....	.....	.....	24	.....	.....
Great Lakes and Middle West	4	44	70.2	.....	.....	.....	3	6	35	.....	.....
Total	7	68	70.9	.....	.....	.....	3	6	59	.....	.....
1912.											
Pittsburgh	3	22	72.0	.....	.....	.....	.....	.....	22	.....	.....
Great Lakes and Middle West	4	54	70.6	.....	.....	.....	3	6	45	.....	.....
Total	7	76	71.0	.....	.....	.....	3	6	67	.....	.....

LABORERS.

1910.											
Pittsburgh	2	122	76.4	.....	.....	.....	4	1	68	.....	49
Great Lakes and Middle West	4	379	75.9	.....	.....	.....	41	21	141	.....	176
Total	6	501	76.0	.....	.....	.....	45	22	209	.....	225
1911.											
Pittsburgh	3	116	71.9	.....	.....	.....	5	.....	107	.....	4
Great Lakes and Middle West	4	266	71.9	.....	.....	.....	15	56	123	44	28
Total	7	382	71.9	.....	.....	.....	20	56	230	44	32
1912.											
Pittsburgh	3	100	71.2	.....	.....	.....	11	.....	85	.....	4
Great Lakes and Middle West	4	317	72.1	.....	.....	.....	19	54	153	68	23
Total	7	417	71.9	.....	.....	.....	30	54	238	68	27

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912.

STANDARD RAIL MILLS—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

CHARGING-MACHINE OPERATORS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
2 plants	1910	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
	1911	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
	1912	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
Great Lakes and Middle West:											
1 plant	1910	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
	1911	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
	1912	6	72.0	.....	.....	.....	.....	.....	6	.....	.....

REHEATERS.

Pittsburgh:											
2 plants	1910	12	72.4	.....	.....	.....	.....	.....	10	2	.....
	1911	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
	1912	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Great Lakes and Middle West:											
2 plants	1910	11	72.0	.....	.....	.....	.....	.....	11	.....	.....
	1911	11	72.0	.....	.....	.....	.....	.....	11	.....	.....
	1912	11	72.0	.....	.....	.....	.....	.....	11	.....	.....

REHEATERS' HELPERS.

Pittsburgh:											
1 plant	1910	12	70.5	.....	.....	.....	.....	12	.....	.....	.....
	1911	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
	1912	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Great Lakes and Middle West:											
2 plants	1910	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
	1911	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
	1912	12	72.0	.....	.....	.....	.....	.....	12	.....	.....

ROLL ENGINEERS.

Pittsburgh:											
2 plants	1910	8	75.0	.....	.....	.....	.....	.....	6	.....	2
	1911	8	79.5	.....	.....	.....	.....	.....	.....	6	2
3 plants	1911	14	76.7	.....	.....	.....	.....	.....	.....	12	2
	1912	14	76.7	.....	.....	.....	.....	.....	.....	12	2
Great Lakes and Middle West:											
4 plants	1910	34	78.0	.....	.....	.....	.....	.....	14	6	14
	1911	29	75.3	.....	.....	.....	.....	.....	18	6	5
	1912	34	73.1	.....	.....	.....	.....	.....	28	6	.....

ROLLERS.

Pittsburgh:											
2 plants	1910	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
	1911	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
3 plants	1911	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
	1912	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
Great Lakes and Middle West:											
3 plants	1910	6	72.5	.....	.....	.....	.....	.....	4	2	.....
	1911	6	72.5	.....	.....	.....	.....	.....	4	2	.....
	1912	6	72.5	.....	.....	.....	.....	.....	4	2	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

ROLLERS' HELPERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
1 plant	1911	2	73.0	.....	.....	.....	.....	.....	.....	2	.....
	1912	4	72.9	.....	.....	.....	.....	.....	.....	4	.....
Great Lakes and Middle West:											
1 plant	1910	3	72.0	.....	.....	.....	.....	.....	3	.....	.....
	1911	1	72.0	.....	.....	.....	.....	.....	1	.....	.....
	1912	2	72.0	.....	.....	.....	.....	.....	2	.....	.....

TABLE LEVER MEN.

Pittsburgh:											
2 plants	1910	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
	1911	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
	1912	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
Great Lakes and Middle West:											
4 plants	1910	60	64.0	.....	24	.....	.....	.....	30	.....	6
	1911	55	62.0	.....	24	.....	.....	.....	31	.....	.....
	1912	60	62.8	.....	24	.....	.....	.....	36	.....	.....

TABLE MEN.

Pittsburgh:											
2 plants	1910	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
	1911	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
3 plants	1911	13	72.8	.....	.....	.....	.....	.....	12	1	.....
	1912	13	72.9	.....	.....	.....	.....	.....	12	.....	1
Great Lakes and Middle West:											
2 plants	1910	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
	1911	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
	1912	12	72.0	.....	.....	.....	.....	.....	12	.....	.....

GUIDE SETTERS.

Pittsburgh:											
2 plants	1910	9	68.0	.....	.....	.....	3	.....	6	.....	.....
	1911	9	68.0	.....	.....	.....	3	.....	6	.....	.....
3 plants	1911	15	70.0	.....	.....	.....	3	.....	6	6	.....
	1912	15	70.0	.....	.....	.....	3	.....	6	6	.....
Great Lakes and Middle West:											
3 plants	1910	11	65.7	.....	3	.....	.....	.....	8	.....	.....
	1911	8	63.4	.....	3	.....	.....	.....	5	.....	.....
4 plants	1911	12	62.8	.....	3	.....	3	1	5	.....	.....
	1912	15	64.6	.....	3	.....	3	1	8	.....	.....

HOT-SAW MEN.

Pittsburgh:											
2 plants	1910	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1911	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
3 plants	1911	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
	1912	6	72.0	.....	.....	.....	.....	.....	6	.....	.....
Great Lakes and Middle West:											
4 plants	1910	15	72.0	.....	.....	.....	.....	.....	15	.....	.....
	1911	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
	1912	12	72.0	.....	.....	.....	.....	.....	12	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

HOT-SAW MEN'S HELPERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
2 plants	1910	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
	1911	14	72.3	.....	.....	.....	.....	.....	6	8	.....
3 plants	1911	21	72.2	.....	.....	.....	.....	.....	13	8	.....
	1912	21	72.2	.....	.....	.....	.....	.....	13	8	.....
Great Lakes and Middle West:											
4 plants	1910	56	72.4	.....	.....	.....	.....	.....	54	.....	2
	1911	45	72.0	.....	.....	.....	.....	.....	45	.....	.....
	1912	52	72.0	.....	.....	.....	.....	.....	52	.....	.....

HOTBED LEVER MEN.

Pittsburgh:											
2 plants	1910	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
	1911	12	72.3	.....	.....	.....	.....	.....	4	8	.....
3 plants	1911	16	72.3	.....	.....	.....	.....	.....	8	8	.....
	1912	16	72.3	.....	.....	.....	.....	.....	8	8	.....
Great Lakes and Middle West:											
4 plants	1910	22	75.3	.....	.....	.....	.....	.....	16	.....	6
	1911	15	72.0	.....	.....	.....	.....	.....	15	.....	.....
	1912	19	72.0	.....	.....	.....	.....	.....	19	.....	.....

HOTBED MEN.

Pittsburgh:											
2 plants	1910	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
	1911	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
3 plants	1911	18	72.0	.....	.....	.....	.....	.....	18	.....	.....
	1912	18	72.6	.....	.....	.....	.....	.....	16	2	.....
Great Lakes and Middle West:											
4 plants	1910	28	74.6	.....	.....	.....	.....	.....	22	.....	6
	1911	29	72.0	.....	.....	.....	.....	.....	29	.....	.....
	1912	30	72.0	.....	.....	.....	.....	.....	30	.....	.....

STRAIGHTENERS, GAG PRESS.

Pittsburgh:											
1 plant	1910	30	48.0	30	.....	.....	.....	.....	.....	.....	.....
	1911	27	48.0	27	.....	.....	.....	.....	.....	.....	.....
2 plants	1911	31	51.1	27	.....	.....	.....	.....	4	.....	.....
	1912	28	51.4	24	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West:											
4 plants	1910	76	63.4	36	.....	.....	.....	6	12	.....	22
	1911	63	59.8	29	.....	.....	6	.....	28	.....	.....
	1912	70	60.0	32	.....	.....	6	.....	32	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Continued.

STANDARD RAIL MILLS—Continued.

STRAIGHTENERS' HELPERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
1 plant	1910	20	72.0	.....	.....	.....	.....	.....	20	.....	.....
	1911	19	72.0	.....	.....	.....	.....	.....	19	.....	.....
2 plants	1911	23	72.0	.....	.....	.....	.....	.....	23	.....	.....
	1912	29	72.0	.....	.....	.....	.....	.....	29	.....	.....
Great Lakes and Middle West:											
4 plants	1910	119	72.1	.....	.....	.....	23	.....	72	.....	24
	1911	97	69.4	.....	.....	.....	21	.....	76	.....	.....
	1912	105	69.5	.....	.....	.....	22	.....	83	.....	.....

CHIPPERS.

Pittsburgh:											
1 plant	1910	22	72.0	.....	.....	.....	.....	.....	22	.....	.....
	1911	18	72.0	.....	.....	.....	.....	.....	18	.....	.....
2 plants	1911	27	72.0	.....	.....	.....	.....	.....	27	.....	.....
	1912	27	72.0	.....	.....	.....	.....	.....	27	.....	.....
Great Lakes and Middle West:											
4 plants	1910	92	72.1	.....	.....	.....	12	16	39	.....	25
	1911	64	69.4	.....	.....	.....	2	16	46	.....	.....
	1912	72	69.7	.....	.....	.....	2	16	54	.....	.....

DRILLERS AND PUNCHERS.

Pittsburgh:											
1 plant	1910	24	72.0	.....	.....	.....	.....	.....	24	.....	.....
	1911	20	72.0	.....	.....	.....	.....	.....	20	.....	.....
2 plants	1911	30	72.0	.....	.....	.....	.....	.....	30	.....	.....
	1912	30	72.0	.....	.....	.....	.....	.....	30	.....	.....
Great Lakes and Middle West:											
4 plants	1910	128	77.6	.....	.....	.....	20	.....	28	.....	80
	1911	103	70.2	.....	.....	.....	.....	21	82	.....	.....
	1912	115	70.1	.....	.....	.....	.....	24	91	.....	.....

COLD-SAW MEN.

Pittsburgh:											
1 plant	1910	5	84.0	.....	.....	.....	.....	.....	.....	.....	5
	1911	4	77.0	.....	.....	.....	.....	.....	.....	4	.....
2 plants	1911	5	76.0	.....	.....	.....	.....	.....	1	4	.....
	1912	5	76.0	.....	.....	.....	.....	.....	1	4	.....
Great Lakes and Middle West:											
4 plants	1910	13	71.1	.....	.....	.....	6	.....	2	.....	5
	1911	14	66.9	.....	.....	.....	.....	8	6	.....	.....
	1912	14	66.9	.....	.....	.....	.....	8	6	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1910 TO 1912—Concluded.

STANDARD RAIL MILLS—Concluded.

COLD-SAW MEN'S HELPERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
1 plant	1910	18	76.0	.....	.....	.....	.....	.....	12	.....	6
	1911	19	72.0	.....	.....	.....	.....	.....	19	.....	.....
2 plants	1911	24	72.0	.....	.....	.....	.....	.....	24	.....	.....
	1912	21	72.0	.....	.....	.....	.....	.....	21	.....	.....
Great Lakes and Middle West:											
2 plants	1910	12	76.0	.....	.....	.....	.....	.....	8	.....	4
	1911	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
	1912	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
INSPECTORS.											
Pittsburgh:											
1 plant	1910	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1911	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
3 plants	1911	24	72.0	.....	.....	.....	.....	.....	24	.....	.....
	1912	22	72.0	.....	.....	.....	.....	.....	22	.....	.....
Great Lakes and Middle West:											
4 plants	1910	64	75.8	.....	.....	.....	9	.....	26	.....	29
	1911	44	70.2	.....	.....	.....	3	6	35	.....	.....
	1912	54	70.6	.....	.....	.....	3	6	45	.....	.....
LABORERS.											
Pittsburgh:											
2 plants	1910	122	76.4	.....	.....	.....	4	1	68	.....	49
	1911	104	71.9	.....	.....	.....	5	.....	95	.....	4
3 plants	1911	116	71.9	.....	.....	.....	5	.....	107	.....	4
	1912	100	71.2	.....	.....	.....	11	.....	85	.....	4
Great Lakes and Middle West:											
4 plants	1910	379	75.9	.....	.....	.....	41	21	141	.....	176
	1911	266	71.9	.....	.....	.....	15	56	123	44	28
	1912	317	72.1	.....	.....	.....	19	54	153	68	23

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

BAR MILLS.

SUMMARY.

Summary figures relating to the bar-mill department are given with figures for other departments of the iron and steel industry in the introductory summary on pages 7 to 15. An explanation of the scope of the investigation and of the methods employed is given on pages 16 to 22.

Briefly summarized the average full-time weekly earnings of employees in the bar-mill department in 1912 were 2.3 per cent lower than in 1907, 8.7 per cent higher than in 1908, 6.3 per cent higher than in 1909, 3.8 per cent lower than in 1910, and 1.0 per cent higher than in 1911. The average full-time hours of labor per week were lower in 1912 than in any of the five preceding years, being 1.3 per cent lower than in 1907, 0.8 per cent lower than in 1908, 1.8 per cent lower than in 1909, 1.4 per cent lower than in 1910, and 0.2 per cent lower than in 1911. The average rate of wages or earnings per hour in 1912 was 1.8 per cent lower than in 1907, 9.4 per cent higher than in 1908, 7.3 per cent higher than in 1909, 3.1 per cent lower than in 1910, and 1.1 per cent higher than in 1911.

The most significant facts concerning the several occupations of the bar-mill department are summarized in the table below. Data are presented for each year from 1907 to 1912, inclusive, the figures for identical plants being bracketed together.

Referring to the first occupation, laborers, direct comparison can be made of data for 10 identical plants from 1907 to 1910, for 15 for 1910 and 1911, and for 17 for 1911 and 1912. The first line of the table shows that in 1907 the 10 bar mills for which reports were obtained employed 296 laborers whose average full-time hours of work were 68.3 per week. For 17.5 per cent of the 296 laborers the full-time hours per week were over 48 and not more than 60; for 47.3 per cent, over 60 and under 72; for 25 per cent, 72 hours; and for 10.1 per cent, over 72 hours.

The average rate of wages or earnings per hour of laborers in the year considered (1907) was $0.153. Of the total number 9.1 per cent received under 14 cents per hour; 58.4 per cent, 14 and under 16 cents; and 32.4 per cent, 16 and under 18 cents per hour. The average full-time weekly earnings were $10.44. The other lines of the table may be read in the same manner.

Referring to the last column of the table, it is seen that in 10 identical plants the average full-time weekly earnings of laborers

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

were $10.44 in 1907, $9.93 in 1908, $10.17 in 1909, and $10.81 in 1910. While the average full-time weekly earnings in 1910 in 10 plants were $10.81, in 15 plants in the same year the average was $10.86. In the 15 plants there was a decrease from $10.86 in 1910 to $10.59 in 1911. The difference between $10.86 and $10.59 measures the change from 1910 to 1911. It would not be a proper comparison, however, to state that earnings decreased from $10.81 in 1910 to $10.59 in 1911 because of a change in the number of plants and the difference known to exist in the averages for 1910 in the two groups of plants. In 17 plants there was an increase from $10.40 in 1911 to $10.52 in 1912. The other items of the table should be studied with like care.

Comparing the average full-time weekly earnings for 1912 of the several occupations, it is seen that the lowest average was that of laborers, which was $10.52. The averages for 4 other occupations were only slightly higher, but the averages for the remaining 13 occupations were from 30 per cent to over 400 per cent higher, the highest being that of rollers, which was $53.63.

AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BAR MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and including 60	Over 60 and under 72	72	Over 72		Under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 cts. and over.	
Laborers:														
10 plants	1907	296	68.3	....	17.5	47.3	25.0	10.1	$0.153	9.1	58.4	32.4	.....	$10.44
	1908	227	64.8	....	42.3	47.6	7.9	2.2	.153	17.2	39.6	43.2	.....	9.93
	1909	324	67.8	....	24.1	42.3	27.2	6.5	.150	15.4	56.2	28.4	.....	10.17
	1910	424	67.2	....	30.2	26.7	41.5	1.7	.161	9.4	7.3	83.3	.....	10.81
15 plants	1910	511	67.8	...	31.0	25.0	35.8	8.2	.160	10.0	13.7	76.3	.....	10.86
	1911	355	66.0	....	29.2	49.3	19.7	1.7	.160	12.4	7.3	80.3	.....	10.59
17 plants	1911	390	65.5	....	35.4	44.9	18.2	1.5	.159	11.3	15.6	73.1	.....	10.40
	1912	424	65.9	....	30.2	48.1	19.8	1.9	.159	10.4	12.7	76.9	.....	10.52
										Under 16 cts.	16 and under 20 cts.	20 and under 25 cts.	25 cts. and over.	
Bundlers:														
5 plants	1907	41	66.9	....	.....	75.6	24.4	.....	.202	.....	56.1	39.0	4.8	13.53
	1908	41	66.9	....	.....	75.6	24.4	.....	.174	34.2	56.1	7.3	2.4	11.68
	1909	41	66.8	....	.....	100.0	.....	.....	.186	9.8	75.6	14.6	.....	12.42
	1910	41	67.1	....	.....	100.0	.....	.....	.213	4.9	26.9	63.4	4.9	14.23
6 plants	1910	77	66.1	....	.....	100.0	.....	.....	.207	2.6	42.9	51.9	2.6	13.69
	1911	81	63.5	....	44.4	55.6	.....	.....	.193	1.2	59.3	37.0	2.5	12.28
7 plants	1911	131	62.0	....	65.6	34.4	.....	.....	.197	.8	36.6	61.1	1.5	12.20
	1912	132	62.0	....	65.2	34.8	.....	.....	.193	.....	80.3	18.2	1.5	11.94

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BAR MILLS—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and including 60	Over 60 and under 72	72	Over 72		Under 16 cts.	16 and under 20 cts.	20 and under 25 cts.	25 cts. and over.	
Chargers and helpers:														
12 plants	1907	104	65.5	.....	14.4	68.3	15.4	1.9	$0.173	48.1	36.5	9.6	5.8	$11.34
	1908	102	65.6	.....	14.7	65.7	19.6	.....	.161	59.8	35.3	4.9	.....	10.56
	1909	107	65.9	.....	13.0	74.8	7.5	4.7	.161	62.7	29.9	7.5	.....	10.60
	1910	110	66.3	.....	12.7	78.2	9.1	.....	.181	21.8	61.9	9.1	7.3	11.87
18 plants	1910	179	65.3	6.7	14.5	59.2	19.6	.....	.192	13.4	59.2	14.0	13.4	12.40
	1911	177	65.1	6.8	14.6	59.9	18.6	.....	.185	21.5	52.6	21.5	4.5	12.02
19 plants	1911	185	64.8	6.5	16.2	59.5	17.8	.....	.184	22.7	52.5	20.5	4.3	11.90
	1912	182	65.0	4.9	15.9	61.0	18.1	.....	.192	12.6	57.7	15.4	14.3	12.45
Hotbed men:														
15 plants	1907	302	63.3	4.0	34.4	43.0	18.5	.....	.189	41.8	26.2	19.9	12.2	11.98
	1908	299	63.2	4.0	40.5	34.8	20.7	.....	.174	47.8	33.8	11.7	6.6	10.93
	1909	286	63.3	4.2	37.1	53.8	4.9	.....	.180	42.7	30.0	18.9	8.3	11.00
	1910	302	63.3	5.0	34.5	54.0	6.6	.....	.208	19.9	40.7	19.2	20.2	13.02
25 plants	1910	500	62.9	11.4	30.2	43.2	11.8	3.4	.200	26.0	39.6	16.6	17.8	12.46
	1911	434	62.0	12.4	30.2	47.7	9.7	.....	.189	29.5	42.4	15.0	13.1	11.69
26 plants	1911	450	61.9	12.0	30.4	48.2	9.3	.....	.188	31.1	41.8	14.4	12.6	11.61
	1912	461	61.7	11.7	31.6	45.3	11.3	.....	.192	21.5	43.2	21.9	13.4	11.80
Roll engineers:														
13 plants	1907	58	72.3	.....	.....	53.4	8.6	37.9	.226	.....	15.5	56.9	27.6	16.29
	1908	56	71.4	.....	.....	50.0	17.9	32.2	.221	.....	17.8	62.5	19.6	15.76
	1909	56	71.5	.....	.....	53.6	10.7	35.7	.217	7.1	21.4	53.6	17.9	15.52
	1910	58	71.7	.....	.....	55.2	6.9	38.0	.230	.....	13.8	62.1	24.1	16.52
22 plants	1910	99	72.0	.....	3.0	40.4	26.3	30.3	.229	.....	14.1	59.6	26.3	16.46
	1911	95	70.4	.....	3.2	56.8	13.7	26.3	.228	.....	14.7	62.1	23.3	16.07
	1912	97	70.0	.....	5.1	52.6	12.4	29.9	.229	.....	13.4	64.9	21.6	16.05
Shearmen's helpers:														
15 plants	1907	201	65.9	.....	16.4	62.2	20.4	1.0	.174	48.7	30.4	13.9	7.0	11.46
	1908	172	66.2	.....	19.8	58.7	16.9	4.7	.168	54.0	30.8	12.2	2.9	11.07
	1909	185	67.3	.....	20.6	59.5	4.3	15.7	.169	55.2	26.5	14.6	3.8	11.32
	1910	215	65.3	.....	23.2	65.1	11.6	.....	.184	31.2	38.1	22.3	8.3	12.00
23 plants	1910	355	64.7	12.7	15.2	44.5	21.7	5.9	.187	27.0	38.9	24.5	9.5	12.02
	1911	359	63.8	13.4	18.1	50.4	18.1	.....	.178	28.4	49.6	15.9	6.2	11.28
	1912	358	63.9	13.4	18.8	46.4	18.2	3.4	.184	17.9	47.5	26.3	8.4	11.74
Stockers:														
8 plants	1907	93	64.4	.....	17.2	69.9	8.6	4.3	.178	8.7	67.7	23.7	.....	11.43
	1908	90	64.1	.....	20.0	65.6	14.4	.....	.167	28.9	62.2	8.9	.....	10.72
	1909	88	64.2	.....	18.2	78.4	3.4	.....	.168	39.8	46.6	11.4	2.3	10.79
	1910	87	64.3	.....	17.2	79.3	3.4	.....	.190	8.0	59.8	32.2	.....	12.17
13 plants	1910	170	59.0	15.9	28.8	50.6	4.7	.....	.250	4.1	30.6	30.0	35.3	14.24
	1911	164	59.6	16.5	37.2	42.7	3.7	.....	.230	3.6	36.6	26.8	32.9	13.41
15 plants	1911	211	60.9	12.8	40.4	34.1	12.8	.....	.217	2.8	48.8	22.7	25.6	12.94
	1912	217	60.9	12.4	43.7	30.9	12.9	.....	.231	3.2	36.4	26.3	34.2	13.79
										Under 20 cts.	20 and under 30 cts.	30 and under 40 cts.	40 cts. and over.	
Drag downs:														
11 plants	1907	86	64.4	.....	18.6	60.5	18.6	2.3	.271	26.8	38.4	23.3	11.7	17.31
	1908	82	63.9	.....	24.4	52.4	23.2	.....	.246	40.3	34.2	18.3	7.3	15.58
	1909	83	64.0	.....	24.1	69.9	3.6	2.4	.250	32.5	41.0	21.7	4.8	15.93
	1910	89	64.0	.....	22.5	69.7	3.4	4.5	.286	29.1	34.8	27.0	9.0	18.19
19 plants	1910	132	65.1	.....	21.2	56.8	18.9	3.0	.269	25.8	46.3	22.0	6.0	17.44
	1911	123	64.9	.....	22.8	55.3	20.3	1.6	.262	18.8	62.6	12.2	6.6	16.88

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BAR MILLS—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and including 60	Over 60 and under 72	72	Over 72		Under 20 cts.	20 and under 30 cts.	30 and under 40 cts.	40 cts. and over.	
Drag downs—Concld.														
20 plants	1911	127	64.7	.....	23.6	55.1	19.7	1.6	$0.262	18.0	63.7	11.8	6.2	$16.78
	1912	130	64.3	.....	25.4	53.8	19.2	1.5	.253	27.7	44.6	21.5	6.2	16.12
Finishers:														
10 plants	1907	65	65.9	.....	26.1	47.7	26.2	.....	.309	9.2	47.7	18.5	24.6	20.45
	1908	63	66.4	.....	23.8	49.2	27.0	.....	.279	11.2	60.3	19.0	9.5	18.53
	1909	63	66.2	.....	22.2	68.3	9.5	.....	.300	8.0	49.2	27.0	15.9	19.85
	1910	64	66.1	.....	20.3	75.0	4.7	.....	.329	4.7	34.4	39.1	21.9	21.80
17 plants	1910	111	64.0	13.5	16.2	55.0	15.3	.....	.323	4.5	42.3	32.4	20.7	20.48
	1911	110	63.4	13.6	22.8	45.5	18.2	.....	.309	6.3	41.8	36.4	15.4	19.50
19 plants	1911	121	62.8	12.4	26.4	44.6	16.5	.....	.313	7.4	38.8	34.7	19.0	19.60
	1912	126	62.5	11.9	28.6	43.7	15.9	.....	.319	7.2	46.8	27.0	19.1	19.92
Heaters' helpers:														
14 plants	1907	167	65.3	1.8	14.4	64.7	15.6	3.6	.246	44.4	34.8	13.8	7.2	15.77
	1908	153	65.1	2.0	18.3	56.2	20.9	2.6	.227	54.3	28.8	12.4	4.6	14.50
	1909	151	65.0	2.0	18.5	74.2	1.3	4.0	.234	46.4	39.1	10.6	3.9	14.87
	1910	166	65.2	1.8	16.8	74.7	1.8	4.8	.262	24.7	51.8	10.8	12.6	16.70
24 plants	1910	295	62.6	16.3	18.3	52.2	10.5	2.8	.273	20.0	46.8	25.1	8.1	16.77
	1911	281	62.5	17.1	16.1	53.4	10.7	2.8	.262	22.0	50.5	20.3	7.2	16.05
25 plants	1911	293	62.7	16.4	15.4	55.3	10.2	2.7	.259	23.2	50.1	19.8	6.8	15.94
	1912	319	62.2	14.1	24.8	50.5	9.4	1.3	.260	23.2	49.9	20.1	6.9	16.01
Hook ups:														
12 plants	1907	92	63.9	9.8	12.0	52.2	26.1	.....	.268	18.4	59.8	19.6	2.2	17.30
	1908	84	65.3	3.6	21.5	41.7	33.3	.....	.225	39.4	41.6	19.0	.....	14.70
	1909	82	65.7	3.7	14.6	57.3	24.4	.....	.241	21.9	61.0	17.1	.....	15.82
	1910	93	65.6	.....	17.3	63.4	19.4	.....	.303	14.0	28.0	38.7	19.4	20.06
20 plants	1910	174	63.2	15.5	17.2	42.5	24.7	.....	.272	26.4	37.4	25.9	10.3	17.13
	1911	144	63.4	14.6	16.8	43.8	25.0	.....	.251	37.5	28.5	31.2	2.8	15.81
21 plants	1911	154	63.0	13.6	19.4	43.5	23.4	.....	.250	37.0	31.1	29.2	2.6	15.66
	1912	167	62.2	12.6	25.8	40.7	21.0	.....	.249	34.2	44.3	16.8	4.8	15.56
Roll hands, other:														
9 plants	1907	97	66.8	6.2	8.3	40.2	45.4	.....	.278	37.1	20.6	33.0	9.3	18.53
	1908	94	67.0	6.4	8.5	40.4	44.7	.....	.255	36.2	39.3	11.7	12.8	16.97
	1909	94	66.8	6.4	8.5	70.2	14.9	.....	.266	37.2	37.2	14.9	10.7	17.65
	1910	95	66.7	6.3	8.5	70.5	14.7	.....	.315	21.0	25.2	35.8	17.9	21.06
18 plants	1910	180	62.8	21.7	13.9	44.4	20.0	.....	.295	28.3	25.5	28.3	17.7	18.35
	1911	177	62.5	22.0	15.2	42.4	20.3	.....	.273	28.7	41.2	18.6	11.3	16.97
	1912	176	62.7	20.5	15.4	43.8	20.5	.....	.287	23.9	41.4	23.3	11.3	17.97
Shearmen:														
15 plants	1907	94	64.8	.....	30.9	51.1	18.1	.....	.249	40.5	34.1	21.3	4.2	16.20
	1908	92	65.1	.....	33.7	45.7	20.7	.....	.216	52.2	40.2	6.5	1.1	14.10
	1909	93	65.3	.....	33.4	59.1	3.2	4.3	.225	49.5	38.7	9.7	2.2	14.72
	1910	97	65.0	.....	32.0	61.9	6.2	.....	.247	42.2	33.0	20.6	4.1	16.11
25 plants	1910	156	63.3	9.6	30.1	46.2	10.3	3.8	.264	35.9	35.9	19.9	8.3	16.40
	1911	151	62.5	9.9	34.4	45.0	10.6	.....	.254	45.1	31.8	13.2	9.9	15.55
	1912	154	62.4	9.7	36.3	40.9	11.7	1.3	.254	40.2	36.3	16.2	7.1	15.59
Stranders:														
13 plants	1907	175	59.5	22.3	28.5	34.3	14.9	.....	.334	6.8	37.1	34.3	21.7	19.45
	1908	174	59.7	22.4	28.7	31.6	17.2	.....	.277	12.0	48.3	39.7	.....	16.25
	1909	174	59.7	22.4	28.7	42.0	6.9	.....	.297	5.2	51.7	36.2	6.9	17.34
	1910	180	59.7	21.7	29.9	41.7	6.7	.....	.344	7.7	36.1	35.6	20.6	20.06
21 plants	1910	272	60.6	17.6	30.2	39.7	12.5	.....	.301	13.6	46.7	26.1	13.6	17.85
	1911	254	59.9	18.9	32.3	35.4	13.4	.....	.268	25.6	43.7	20.1	10.6	15.83
22 plants	1911	262	59.8	18.3	34.3	34.4	13.0	.....	.272	24.8	42.4	19.5	13.4	16.03
	1912	266	59.6	18.0	36.5	32.7	12.8	.....	.283	22.7	44.7	18.0	14.7	16.62

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1907 TO 1912—BAR MILLS—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and including 60	Over 60 and under 72	72	Over 72		Under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 cts. and over.	
Catchers:														
11 plants	1907	69	62.5	.....	43.4	36.2	20.3	.....	$0.442	8.7	40.6	18.8	31.9	$27.68
	1908	70	62.0	.....	45.7	34.3	20.0	.....	.381	21.5	44.3	15.7	18.6	23.57
	1909	70	61.9	.....	45.7	54.3	.....	.....	.409	12.8	52.9	14.3	20.0	24.93
	1910	73	62.0	.....	42.4	57.5	.....	.....	.452	6.9	27.4	38.4	27.4	28.17
20 plants	1910	115	60.2	13.0	40.0	40.0	7.0	.....	.419	17.4	27.8	33.0	21.8	25.45
	1911	111	59.9	13.5	38.7	40.5	7.2	.....	.392	18.0	49.5	18.0	14.4	23.70
	1912	110	59.7	13.6	39.1	40.0	7.3	.....	.399	22.8	33.6	29.1	14.6	23.92
Roughers:														
15 plants	1907	252	61.5	13.5	25.0	44.0	17.5	.....	.434	17.4	36.5	22.2	23.8	26.28
	1908	242	62.5	9.9	27.7	40.1	22.3	.....	.343	34.3	31.4	31.0	3.3	21.35
	1909	243	62.4	9.9	27.6	56.8	5.8	.....	.368	23.1	45.7	21.8	9.5	22.72
	1910	257	62.3	9.7	27.7	56.4	6.2	.....	.407	21.7	28.0	27.6	22.5	25.21
25 plants	1910	425	61.0	17.2	27.1	46.4	9.4	.....	.402	21.4	29.9	30.1	18.6	24.51
	1911	395	60.6	18.2	26.5	45.6	9.6	.....	.376	22.2	44.1	20.5	13.2	22.65
26 plants	1911	403	60.5	17.9	27.1	45.7	9.4	.....	.377	21.9	43.7	21.6	12.9	22.68
	1912	408	60.2	17.6	28.4	44.9	9.1	.....	.389	23.5	29.9	28.9	17.6	23.36
										Under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.	
Heaters:														
15 plants	1907	121	63.9	2.5	15.8	70.2	9.9	1.7	.508	43.9	35.5	10.7	9.9	32.35
	1908	112	63.9	2.7	19.7	60.7	15.2	1.8	.467	61.7	22.3	9.8	6.3	29.66
	1909	112	64.0	2.7	19.7	69.6	4.5	3.6	.488	49.2	35.7	9.8	5.4	31.06
	1910	142	64.2	2.1	14.1	72.5	7.0	4.2	.502	50.0	31.0	8.5	10.6	31.87
25 plants	1910	217	62.9	8.3	20.7	58.1	10.1	2.7	.507	50.7	26.3	14.3	8.8	31.73
	1911	180	62.6	10.0	18.8	59.4	9.4	2.2	.512	45.0	30.6	14.4	10.0	31.97
26 plants	1911	184	62.7	9.8	18.5	60.3	9.2	2.2	.510	46.3	29.9	14.1	9.8	31.87
	1912	199	62.4	9.0	22.6	57.3	9.0	2.0	.482	54.3	20.6	18.6	6.5	29.84
Rollers:														
13 plants	1907	65	65.5	.....	33.8	43.1	18.5	4.6	1.013	.....	7.7	20.0	72.3	66.88
	1908	63	65.7	.....	31.7	44.4	19.0	4.8	.878	6.4	7.9	22.2	63.5	57.88
	1909	63	65.5	.....	31.7	52.4	15.9	.....	.917	9.5	7.9	11.1	71.4	60.40
	1910	67	65.2	.....	28.4	61.2	10.4	.....	1.010	7.5	3.0	19.4	70.1	66.23
22 plants	1910	124	62.4	12.1	29.0	46.8	12.1	.....	.928	8.9	6.5	17.7	66.9	58.21
	1911	116	62.0	12.9	29.3	42.2	15.5	.....	.882	8.7	10.3	18.1	62.9	55.26
23 plants	1911	120	62.0	12.5	30.0	42.5	15.0	.....	.873	10.0	10.0	17.5	62.5	54.65
	1912	124	61.7	12.1	33.0	40.3	14.5	.....	.860	5.6	12.9	16.9	64.5	53.63

In order to compare the earnings of the various members of the rolling crews in the mills of different sizes, the following table, showing simply the average earnings per hour in 1912, has been prepared.

Although the exertion increases with the size of the mill, skill and experience are such large factors that the increase in wages in any

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

one of the occupations is by no means proportionate to the increase in the size of the mill and the weight of the product. In the case of rollers, it will be noticed that there is no connection between the size of the mill and the average earnings per hour. Whatever difference does exist is due entirely to the skill and experience of the particular roller and to the custom of the individual establishment in which he is employed.

AVERAGE EARNINGS PER HOUR OF MEMBERS OF ROLLING CREWS, 1912—BAR MILLS.

Occupation.	Size of mills.							Total, all sizes.
	8-inch.	9-inch.	10-inch.	12-inch.	13, 14, and 15 inch.	16-inch.	18-inch.	
Rollers	$0.887	$0.808	$1.066	$0.831	$0.709	$0.814	$0.751	$0.860
Roughers	.336	.429	.399	.391	.364	.381	.465	.389
Catchers	.340	.508	.419	.348	.407	.511	.391	.399
Stranders	.244	.235	.370	.309	.217	.405	.....	.283
Finishers	.295	.282	.358	.311	.319	.377	.336	.319
Hook ups	.....	.....	.....	.269	.229	.269	.217	.249
Roll hands, other	.248	.257	.351	.298	.268	.394	.235	.287

Owing to the change in the number of plants from year to year and the consequent difference in the averages for the overlapping year in the two groups, it is difficult to make a comparison of the actual data over a period of several years which will give an accurate measure of the changes throughout the period. To aid in making such a comparison relative or index numbers have been computed from the averages of the table on pages 330 to 333 for full-time hours per week, rates of wages per hour, and full-time weekly earnings for each occupation from 1907 to 1912, inclusive, and are presented in the following table.

These relative or index numbers are simply percentages in which the data for 1912 are taken as the base, or 100 per cent. The relative for each year is the per cent that the average for that year is of the average for 1912. For example, the relative full-time weekly earnings of stockers in 1907 was 93.6 as compared with 100 in 1912; that is, the full-time weekly earnings of stockers in 1907 were 93.6 per cent of the full-time weekly earnings of this occupation in 1912. The method of computing the relative numbers is explained on page 21.

The table also shows for each occupation the per cent of increase or decrease in full-time hours per week, rates of wages per hour, and full-time weekly earnings in 1912 as compared with each specified year preceding. Thus, the full-time weekly earnings of stockers in 1912 were 6.8 per cent higher than in 1907, 13.9 per cent higher than in 1908, 13.1 per cent higher than in 1909, 0.4 per cent higher than in 1910, and 6.6 per cent higher than in 1911.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

In other columns of the table is shown the per cent of change in each year as compared with the year immediately preceding. Thus, the full-time weekly earnings of stockers were 6.2 per cent lower in 1908 than in 1907; 0.7 per cent higher in 1909 than in 1908; 12.7 per cent higher in 1910 than in 1909; 5.8 per cent lower in 1911 than in 1910, and 6.6 per cent higher in 1912 than in 1911. The other occupations and items of the table can be studied in like manner. The percentages of increase and decrease are computed from the relative numbers.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE, IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—BAR MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
Stockers:									
1907	99.1	+0.9	.....	95.7	+ 4.5	.....	93.6	+ 6.8	.....
1908	98.7	+1.3	−0.4	89.7	+11.5	− 6.3	87.8	+13.9	− 6.2
1909	98.8	+1.2	+ .1	90.3	+10.7	+ .7	88.4	+13.1	+ .7
1910	99.0	+1.0	+ .2	102.1	− 2.1	+13.1	99.6	+ .4	+12.7
1911	100.0	(1)	+1.0	93.9	+ 6.5	− 8.0	93.8	+ 6.6	− 5.8
1912	100.0	.....	(1)	100.0	.....	+ 6.5	100.0	.....	+ 6.6
Heaters:									
1907	100.5	− .5	.....	106.0	− 5.7	.....	107.6	− 7.1	.....
1908	100.5	− .5	(1)	97.5	+ 2.6	− 8.0	98.6	+ 1.4	− 8.4
1909	100.7	− .7	+ .2	101.9	− 1.9	+ 4.5	103.3	− 3.2	+ 4.8
1910	101.0	−1.0	+ .3	104.8	− 4.6	+ 2.8	106.0	− 5.7	+ 2.6
1911	100.5	− .5	− .5	105.8	− 5.5	+ 1.0	106.8	− 6.4	+ .8
1912	100.0	.....	− .5	100.0	.....	− 5.5	100.0	.....	− 6.4
Heaters' helpers:									
1907	101.1	−1.1	.....	97.5	+ 2.6	.....	98.2	+ 1.8	.....
1908	100.8	− .8	− .3	89.9	+11.2	− 7.8	90.3	+10.7	− 8.0
1909	100.7	− .7	− .1	92.7	+ 7.9	+ 3.1	92.6	+ 8.0	+ 2.5
1910	101.0	−1.0	+ .3	103.8	− 3.7	+12.0	104.0	− 3.8	+12.3
1911	100.8	− .8	− .2	99.6	+ .4	− 4.0	99.6	+ .4	− 4.2
1912	100.0	.....	− .8	100.0	.....	+ .4	100.0	.....	+ .4
Chargers and helpers:									
1907	98.8	+1.2	.....	95.1	+ 5.2	.....	94.2	+ 6.2	.....
1908	98.9	+1.1	+ .1	88.5	+13.0	− 6.9	87.7	+14.0	− 6.9
1909	99.4	+ .6	+ .5	88.5	+13.0	(1)	88.1	+13.5	+ .5
1910	100.0	(1)	+ .6	99.5	+ .5	+12.4	98.6	+ 1.4	+11.9
1911	99.7	+ .3	− .3	95.8	+ 4.4	− 3.7	95.6	+ 4.6	− 3.0
1912	100.0	.....	+ .3	100.0	.....	+ 4.4	100.0	.....	+ 4.6
Drag downs:									
1907	101.6	−1.6	.....	100.8	− .8	.....	102.3	− 2.2	.....
1908	100.8	− .8	− .8	91.5	+ 9.3	− 9.2	92.1	+ 8.6	−10.0
1909	100.9	− .9	+ .1	92.9	+ 7.6	+ 1.5	94.2	+ 6.2	+ 2.3
1910	100.9	− .9	(1)	106.3	− 5.9	+14.4	107.5	− 7.0	+14.1
1911	100.6	− .6	− .3	103.6	− 3.5	− 2.5	104.1	− 3.9	− 3.2
1912	100.0	.....	− .6	100.0	.....	− 3.5	100.0	.....	− 3.9
Roll engineers:									
1907	103.7	−3.6	.....	98.3	+ 1.7	.....	100.1	− .1	.....
1908	102.4	−2.3	−1.3	96.1	+ 4.1	− 2.2	97.8	+ 2.2	− 2.3
1909	102.6	−2.5	+ .2	94.3	+ 6.0	− 1.9	96.3	+ 3.8	− 1.5
1910	102.9	−2.8	+ .3	100.0	(1)	+ 6.0	102.6	− 2.5	+ 6.5
1911	100.6	− .6	−2.2	99.6	+ .4	− .4	100.1	− .1	− 2.4
1912	100.0	.....	− .6	100.0	.....	+ .4	100.0	.....	− .1

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE, IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—BAR MILLS—Continued.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
Rollers:									
1907	101.6	−1.6	.....	107.1	− 6.6	.....	108.4	− 7.7	.....
1908	101.9	−1.9	+0.3	92.8	+ 7.8	−13.4	93.8	+ 6.6	−13.5
1909	101.6	−1.6	− .3	97.0	+ 3.1	+ 4.5	97.9	+ 2.1	+ 4.4
1910	101.1	−1.1	− .5	106.8	− 6.4	+10.1	107.3	− 6.8	+ 9.6
1911	100.5	− .5	− .6	101.5	− 1.5	− 5.0	101.9	− 1.9	− 5.0
1912	100.0	.....	− .5	100.0	.....	− 1.5	100.0	.....	− 1.9
Roughers:									
1907	99.9	+ .1	.....	110.4	− 9.4	.....	109.5	− 8.7	.....
1908	101.5	−1.5	+1.6	87.3	+14.5	−20.9	89.0	+12.4	−18.7
1909	101.3	−1.3	− .2	93.7	+ 6.7	+ 7.3	94.7	+ 5.6	+ 6.4
1910	101.2	−1.2	− .1	103.6	− 3.5	+10.6	105.1	− 4.9	+11.0
1911	100.5	− .5	− .7	96.9	+ 3.2	− 6.5	97.1	+ 3.0	− 7.6
1912	100.0	.....	− .5	100.0	.....	+ 3.2	100.0	.....	+ 3.0
Catchers:									
1907	101.7	−1.7	.....	102.7	− 2.6	.....	104.5	− 4.3	.....
1908	100.8	− .8	− .9	88.5	+13.0	−13.8	89.0	+12.4	−14.8
1909	100.7	− .7	− .1	92.9	+ 7.6	+ 5.0	94.2	+ 6.2	+ 5.8
1910	100.8	− .8	+ .1	105.0	− 4.8	+13.0	106.4	− 6.0	+13.0
1911	100.3	− .3	− .5	98.2	+ 1.8	− 6.5	99.1	+ .9	− 6.9
1912	100.0	.....	− .3	100.0	.....	+ 1.8	100.0	.....	+ .9
Stranders:									
1907	101.2	−1.2	.....	104.8	− 4.6	.....	105.5	− 5.2	.....
1908	101.5	−1.5	+ .3	86.9	+15.1	−17.1	88.1	+13.5	−16.5
1909	101.5	−1.5	[1]	93.2	+ 7.3	+ 7.2	94.0	+ 6.4	+ 6.7
1910	101.5	−1.5	[1]	107.9	− 7.3	+15.8	108.8	− 8.1	+15.7
1911	100.3	− .3	−1.2	96.1	+ 4.1	−10.9	96.5	+ 3.6	−11.3
1912	100.0	.....	− .3	100.0	.....	+ 4.1	100.0	.....	+ 3.6
Finishers:									
1907	101.1	−1.1	.....	96.3	+ 3.8	.....	96.9	+ 3.2	.....
1908	101.9	−1.9	+ .8	87.0	+14.9	− 9.7	87.8	+13.9	− 9.4
1909	101.6	−1.6	− .3	93.5	+ 7.0	+ 7.5	94.1	+ 6.3	+ 7.2
1910	101.4	−1.4	− .2	102.6	− 2.5	+ 9.7	103.3	− 3.2	+ 9.8
1911	101.5	−1.5	+ .1	98.1	+ 1.9	− 4.4	98.4	+ 1.6	− 4.7
1912	100.0	.....	−1.5	100.0	.....	+ 1.9	100.0	.....	+ 1.6
Hook ups:									
1907	98.3	+1.7	.....	96.2	+ 4.0	.....	94.0	+ 6.4	.....
1908	100.5	− .5	+2.2	80.8	+23.8	−16.0	79.9	+25.2	−15.0
1909	101.1	−1.1	+ .6	86.5	+15.6	+ 7.1	86.0	+16.3	+ 7.6
1910	101.0	−1.0	− .1	108.8	− 8.1	+25.8	109.0	− 8.3	+26.7
1911	101.3	−1.3	+ .3	100.4	− .4	− 7.7	100.6	− .6	− 7.7
1912	100.0	.....	−1.3	100.0	.....	− .4	100.0	.....	− .6
Roll hands, other:									
1907	100.3	− .3	.....	90.7	+10.3	.....	89.8	+11.4	.....
1908	100.6	− .6	+ .3	83.2	+20.2	− 8.3	82.3	+21.5	− 8.4
1909	100.3	− .3	− .3	86.8	+15.2	+ 4.3	85.6	+16.8	+ 4.0
1910	100.2	− .2	− .1	102.8	− 2.7	+18.4	102.1	− 2.1	+19.3
1911	99.7	+ .3	− .5	95.1	+ 5.2	− 7.5	94.4	+ 5.9	− 7.5
1912	100.0	.....	+ .3	100.0	.....	+ 5.2	100.0	.....	+ 5.9
Hotbed men:									
1907	101.8	−1.8	.....	94.2	+ 6.2	.....	96.5	+ 3.6	.....
1908	101.6	−1.6	− .2	86.7	+15.3	− 8.0	88.0	+13.6	− 8.8
1909	101.8	−1.8	+ .2	89.7	+11.5	+ 3.5	88.6	+12.9	+ .7
1910	101.8	−1.8	[1]	103.6	− 3.5	+15.5	104.9	− 4.7	+18.4
1911	100.3	− .3	−1.5	97.9	+ 2.1	− 5.5	98.4	+ 1.6	− 6.2
1912	100.0	.....	− .3	100.0	.....	+ 2.1	100.0	.....	+ 1.6

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—BAR MILLS—Concluded.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
Shearmen:									
1907	101.1	−1.1	.....	104.8	− 4.6	.....	105.8	− 5.5	.....
1908	101.6	−1.6	+0.5	90.9	+10.0	−13.3	92.1	+ 8.6	−12.9
1909	101.9	−1.9	+ .3	94.7	+ 5.6	+ 4.2	96.1	+ 4.1	+ 4.3
1910	101.4	−1.4	− .5	103.9	− 3.8	+ 9.7	105.2	− 4.9	+ 9.5
1911	100.2	− .2	−1.2	100.0	(1)	− 3.8	99.7	+ .3	− 5.2
1912	100.0	.....	− .2	100.0	.....	(1)	100.0	.....	+ .3
Shearmen's helpers:									
1907	102.2	−2.2	.....	96.1	+ 4.1	.....	97.8	+ 2.2	.....
1908	102.6	−2.5	+ .4	92.8	+ 7.8	− 3.4	94.4	+ 5.9	− 3.5
1909	104.4	−4.2	+1.8	93.3	+ 7.2	+ .5	96.6	+ 3.5	+ 2.3
1910	101.2	−1.2	−3.1	101.6	− 1.6	+ 8.9	102.4	− 2.3	+ 6.0
1911	99.8	+ .2	−1.4	96.7	+ 3.4	− 4.8	96.1	+ 4.1	− 6.2
1912	100.0	.....	+ .2	100.0	.....	+ 3.4	100.0	.....	+ 4.1
Bundlers:									
1907	103.8	−3.7	.....	103.8	− 3.7	.....	108.3	− 7.7	.....
1908	103.8	−3.7	(1)	89.4	+11.9	−13.9	93.5	+ 7.0	−13.7
1909	103.6	−3.5	− .2	95.6	+ 4.6	+ 6.9	99.4	+ .6	+ 6.3
1910	104.1	−3.9	+ .5	109.5	− 8.7	+14.5	114.0	−12.3	+14.7
1911	100.0	(1)	−3.9	102.1	− 2.1	− 6.8	102.2	− 2.2	−10.4
1912	100.0	.....	(1)	100.0	.....	− 2.1	100.0	.....	− 2.2
Laborers:									
1907	103.8	−3.7	.....	95.0	+ 5.3	.....	98.0	+ 2.0	.....
1908	98.5	+1.5	−5.1	95.0	+ 5.3	(1)	93.1	+ 7.4	− 5.0
1909	103.0	−2.9	+4.6	93.2	+ 7.3	− 1.9	95.4	+ 4.8	+ 2.5
1910	102.1	−2.1	− .9	100.0	(1)	+ 7.3	101.4	− 1.4	+ 6.3
1911	99.4	+ .6	−2.6	100.0	(1)	(1)	98.9	+ 1.1	− 2.5
1912	100.0	.....	+ .6	100.0	.....	(1)	100.0	.....	+ 1.1

[1] No change.

A like table of relative numbers and percentages is next shown for the bar-mill department as a whole, as determined by a combination of the data for the several principal productive occupations of the department which are covered by this report. The method of computing the figures of this table is explained on page 22.

From the table below, under "weekly earnings," it is seen that the relative full-time weekly earnings of the industry as a whole in 1907 were 102.4, as compared with 100 in 1912. In other words, the full-time weekly earnings in 1907 were 102.4 per cent of those in 1912. The relative dropped to 92.0 in 1908, advanced to 94.1 in 1909, and to 104.0 in 1910, dropping in 1911 to 99.0. In 1912, the base year, the relative was 100.

The next column shows that full-time weekly earnings in 1912 were 2.3 per cent lower than in 1907, 8.7 per cent higher than in 1908,

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

6.3 per cent higher than in 1909, 3.8 per cent lower than in 1910, and 1.0 per cent higher than in 1911.

The third column under "weekly earnings" shows the per cent of increase or decrease in full-time weekly earnings each year as compared with the year immediately preceding. Thus, the full-time weekly earnings were 10.2 per cent lower in 1908 than in 1907, 2.3 per cent higher in 1909 than in 1908, 10.5 per cent higher in 1910 than in 1909, 4.8 per cent lower in 1911 than in 1910, and 1.0 per cent higher in 1912 than in 1911. The relative numbers and percentages for full-time hours per week and rates of wages per hour may be read in like manner.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1907 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, ALL OCCUPATIONS—BAR MILLS.

Year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
1907	101.3	−1.3	.....	101.8	−1.8	.....	102.4	−2.3	.....
1908	100.8	− .8	−0.5	91.4	+9.4	−10.2	92.0	+8.7	−10.2
1909	101.8	−1.8	+1.0	93.2	+7.3	+ 2.0	94.1	+6.3	+ 2.3
1910	101.4	−1.4	− .4	103.2	−3.1	+10.7	104.0	−3.8	+10.5
1911	100.2	− .2	−1.2	98.9	+1.1	− 4.2	99.0	+1.0	− 4.8
1912	100.0	.....	− 2	100.0	.....	+ 1.1	100.0	.....	+ 1.0

In considering weekly earnings, it should be remembered that a reduction of hours tends to reduce weekly earnings, just as an increase in wages per hour, of course, tends to increase them. Between 1907 and 1912 it will be observed that hours were reduced 1.3 per cent, and between 1908 and 1912 that wages per hour were increased 9.4 per cent, each tending to offset the other in weekly earnings. Still another influence on average weekly earnings for the department must be considered; that is, the change in the relative number of employees in the several occupations from year to year. It is obvious that an increase in the relative number of employees in the lower-paid occupations or a decrease in the relative number of those in the higher-paid ones would tend to lower the average for all occupations, just as an increase in the relative number of employees in the higher-paid occupations or a decrease in the relative number in the lower-paid ones would tend to increase the average.

The number and per cent of employees in bar-mill plants whose customary working time per week was 5 days or turns, or 6 days, or

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

7 days, or variations thereof, are shown in the following table. The figures are presented for each of the 3 districts for which bar mills are reported and for the 3 combined. The employees given under the heading "5 days, 5 days, and 6 days in rotation" and "5 days, 6 days, and 6 days in rotation" are engaged in occupations for which the plant employs three shifts instead of the customary two to complete the 24 hours of the day. For example, every week one-third of the employees reported, or one shift, worked 6 turns instead of the customary 5 per week.

NUMBER AND PER CENT OF EMPLOYEES IN EACH DISTRICT WORKING EACH SPECIFIED NUMBER OF DAYS PER WEEK, BY YEARS, 1907 TO 1912—BAR MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

District, and number of plants.	Year.	Number of employees.	Employees whose customary working time per week was—							
			5 days.	5 days and 6 days alternately.	5 days, 5 days, and 6 days in rotation.	5 days, 6 days, and 6 days in rotation.	6 days.	5 days and 7 days alternately.	6 days and 7 days alternately.	7 days.
Eastern:										
3 plants	1907	313	1	242	.....	.....	70	.....	.....	.....
	1908	355	1	290	.....	.....	64	.....	.....	.....
	1909	357	1	290	.....	.....	66	.....	.....	.....
	1910	380	11	266	.....	.....	103	.....	.....	.....
8 plants [1]	1910	890	[2] 157	323	.....	.....	406	.....	.....	4
	1911	794	1	453	.....	.....	340	.....	.....	.....
	1911	831	1	455	.....	.....	375	.....	.....	.....
	1912	887	14	551	.....	.....	322	.....	.....	.....
Pittsburgh:										
6 plants	1907	1,215	32	561	42	.....	521	8	34	17
	1908	1,060	58	455	42	.....	479	4	16	6
	1909	1,163	26	465	42	.....	579	4	18	29
	1910	1,311	17	675	45	.....	552	4	14	4
10 plants [1]	1910	2,185	18	676	45	.....	1,403	4	14	25
	1911	1,999	33	730	42	.....	1,167	4	23	.....
	1911	2,096	33	806	42	.....	1,188	4	16	7
	1912	2,157	37	886	42	.....	1,167	4	12	9
Great Lakes and Middle West:										
6 plants	1907	850	10	421	.....	64	336	6	4	9
	1908	801	12	335	.....	48	385	6	6	9
	1909	795	4	346	.....	48	356	6	24	11
	1910	869	.....	223	.....	49	571	6	8	12
7 plants	1910	1,017	.....	227	.....	49	651	6	8	76
	1911	914	4	347	.....	45	[3] 496	6	10	6
8 plants	1911	997	4	429	.....	45	[3] 497	6	10	6
	1912	1,006	4	421	.....	45	[3] 502	6	22	6
Total:										
15 plants	1907	2,378	43	1,224	42	64	927	14	38	26
	1908	2,216	71	1,080	42	48	928	10	22	15
	1909	2,315	31	1,101	42	48	1,001	10	42	40
	1910	2,560	28	1,164	45	49	1,226	10	22	16
25 plants	1910	4,092	[2] 175	1,226	45	49	2,460	10	22	105
	1911	3,707	38	1,530	42	45	[3] 2,003	10	33	6
26 plants	1911	3,924	38	1,690	42	45	[3] 2,060	10	26	13
	1912	4,050	55	1,858	42	45	[3] 1,991	10	34	15

[1] For 3 plants it was impossible to secure data for one occupation for 1910, hence the two reports for 1911. One plant, data for which was secured for 1910, 1911, and 1912, reported its customary working days per week as 5 in 1910 and as 6 days and 5 nights alternately in 1911 and 1912.

[2] Including 10 employees who worked 7 days every fifth week.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

NUMBER AND PER CENT OF EMPLOYEES IN EACH DISTRICT WORKING EACH SPECIFIED NUMBER OF DAYS PER WEEK, BY YEARS, 1907 TO 1912—BAR MILLS—Concluded.

PER CENT.

District, and number of plants.	Year.	Number of employees.	Employees whose customary working time per week was—							
			5 days.	5 days and 6 days alternately.	5 days, 5 days, and 6 days in rotation.	5 days, 6 days, and 6 days in rotation.	6 days.	5 days and 7 days alternately.	6 days and 7 days alternately.	7 days.
Eastern:										
3 plants	1907	313	0.3	77.3	.....	.....	22.4	.....	.....	.....
	1908	355	.3	81.7	.....	.....	18.0	.....	.....	.....
	1909	357	.3	81.2	.....	.....	18.5	.....	.....	.....
	1910	380	2.9	70.0	.....	.....	27.1	.....	.....	.....
8 plants [1]	1910	890	17.6	36.3	.....	.....	45.6	.....	.....	0.4
	1911	794	.1	57.1	.....	.....	42.8	.....	.....	.....
	1911	831	.1	54.8	.....	.....	45.1	.....	.....	.....
	1912	887	1.6	62.1	.....	.....	36.3	.....	.....	.....
Pittsburgh:										
6 plants	1907	1,215	2.6	46.2	3.5	.....	42.9	0.7	2.8	1.4
	1908	1,060	5.5	42.9	4.0	.....	45.2	.4	1.5	.6
	1909	1,163	2.2	40.0	3.6	.....	49.8	.3	1.5	2.5
	1910	1,311	1.3	51.5	3.4	.....	42.1	.3	1.1	.3
10 plants [1]	1910	2,185	.8	30.9	2.1	.....	64.2	.2	.6	1.1
	1911	1,999	1.7	36.5	2.1	.....	58.4	.2	1.2	.....
	1911	2,096	1.6	38.5	2.0	.....	56.7	.2	.8	.3
	1912	2,157	1.7	41.1	1.9	.....	54.1	.2	.6	.4
Great Lakes and Middle West:										
6 plants	1907	850	1.2	49.5	.....	7.5	39.5	.7	.5	1.1
	1908	801	1.5	41.8	.....	6.0	48.1	.7	.7	1.1
	1909	795	.5	43.5	.....	6.0	44.8	.8	3.0	1.4
	1910	869	.....	25.7	.....	5.6	65.7	.7	.9	1.4
7 plants	1910	1,017	.....	22.3	.....	4.8	64.0	.6	.8	7.5
	1911	914	.4	38.0	.....	4.9	54.3	.7	1.1	.7
8 plants	1911	997	.4	43.0	.....	4.5	49.8	.6	1.0	.6
	1912	1,006	.4	41.8	.....	4.5	49.9	.6	2.2	.6
Total:										
15 plants	1907	2,378	1.8	51.5	1.8	2.7	39.0	.6	1.6	1.1
	1908	2,216	3.2	48.7	1.9	2.2	41.9	.5	1.0	.7
	1909	2,315	1.3	47.6	1.8	2.1	43.2	.4	1.8	1.7
	1910	2,560	1.1	45.5	1.8	1.9	47.9	.4	.9	.6
25 plants	1910	4,092	4.3	30.0	1.1	1.2	60.1	.2	.5	2.6
	1911	3,707	1.0	41.3	1.1	1.2	54.0	.3	.9	.2
26 plants	1911	3,924	1.0	43.1	1.1	1.1	52.5	.3	.7	.3
	1912	4,050	1.4	45.9	1.0	1.1	49.2	.2	.8	.4

[1] For 3 plants it was impossible to secure data for one occupation for 1910, hence the two reports for 1911.

In addition to the text tables presented in the summary, six general tables are presented for the bar-mill department as follows:

Table I.—Average full-time weekly earnings and average and classified rates of wages per hour in the United States, by years, 1907 to 1912.

Table II.—Average full-time weekly earnings and average and classified rates of wages per hour in each year, by districts, 1907 to 1912.

Table III.—Average full-time weekly earnings and average and classified rates of wages per hour in each district, by years, 1907 to 1912.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

Table IV.—Average and classified full-time hours of work per week in the United States, by years, 1907 to 1912.

Table V.—Average and classified full-time hours of work per week in each year, by districts, 1907 to 1912.

Table VI.—Average and classified full-time hours of work per week in each district, by years, 1907 to 1912.

In Tables I and IV, in addition to actual data, percentages computed therefrom are given. The data from these two tables are summarized in the text table on pages 330 to 333.

Tables III and VI repeat the data for the several districts given in Tables II and V, rearranged for the convenience of the reader.

A brief description of the function of the bar mill is presented on pages 24 and 25.

DESCRIPTION OF OCCUPATIONS.

The following description of occupations refers to those occupations only which appear in the tables of this report—these being nearly all of the principal productive occupations in the bar-mill department.

The order in which the occupations are given follows that of the processes of manufacture.

STOCKERS.

Duties.—Unload and handle the pieces of steel (billets) for the heating furnaces. The billets are usually stacked in piles in the yard, each pile representing a separate size and character of steel, which is indicated by marks on each billet. The billets are taken from these piles or from the cars in which they are received and loaded on barrows or trucks, which are pushed to the furnaces. In the most modern plants this occupation is largely eliminated by the use of magnet cranes and low trucks operated electrically or by narrow-gauge locomotives or by the use of roller conveyors. The stockers also handle the coal for the furnaces if solid fuel is used.

Nature of work.—Heavy, varying considerably both in character and in severity and performed by unskilled workmen.

HEATERS.

Duties.—In charge of one or more heating furnaces; see that specified stock is charged; that the proper temperature is maintained; and are otherwise generally responsible for the proper working of a furnace and for minor repairs to the lining.

Nature of work.—A very important and responsible position, requiring considerable practical knowledge of the heat treatment of metals, which can be gained only by long experience. The heater probably has more to do with the successful operation of a mill than any other employee. The work is largely supervisory.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

HEATERS' HELPERS.

Duties.—The duties of the heaters' helpers vary entirely with the character of the furnace or mill and with the division of work in the various plants. In some plants the heaters' helpers perform all the duties connected with heating the steel and delivering it to the rolls. That is, they fire the furnace, clean the grates, and tap the cinder, repair the furnace bottoms, charge and draw the steel, and carry it with tongs down to the rolls. The firing of the furnace and the cleaning of the grates frequently is eliminated from the list of duties by the use of a gas-fired furnace, the charging of the steel by the employment of chargers, or by the use of continuous furnaces, while the drawing and delivery of the steel to the rolls is almost always eliminated by the employment of drag downs or the use of some form of mechanical conveyor in connection with a charging machine.

Nature of work.—The character and skill required by the work vary widely, ranging from that of a first helper, who takes charge of the operation of a furnace, to that of an unskilled laborer, who wheels out cinder.

CHARGERS AND HELPERS.

Duties.—Put the iron or steel billets into the heating furnace as directed by the heater. A large part of the charging is done by hand, the billet being laid on the flat end of a long iron tool known as a "peel," which is pushed into the furnace and the billet laid at the proper point. In many of the newer plants, however, the billets are pushed into the furnace by mechanical pushers, which are controlled by levers. In a number of establishments the heaters' helpers charge the furnaces.

Nature of work.—Where the charging is done by hand, the work is heavy, demanding very little skill and comparatively little experience. The work is intermittent in character.

DRAG DOWNS.

Duties.—Draw and carry the steel from the furnace to the rolls, except where mechanical conveyors are used. The steel is drawn by grasping it with a pair of tongs and pulling it out of the furnace, and is then carried to the rolls either by simply dragging or sliding it along the steel floor; or, if the piece is heavy, the tongs may be supported by a chain from an overhead trolley (telegraph) and the steel be carried down without touching the floor, or the steel is put on a small iron buggy and wheeled down to the rolls.

Nature of work.—No great skill is required, but considerable dexterity, acquired only through experience, is necessary in order to handle the material with facility.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

ROLL ENGINEERS.

Duties.—Operate the engines which drive the rolls and see that they are kept in proper condition. All engines used in these mills are nonreversing.

Nature of work.—Work is similar to that of an ordinary stationary engineer.

ROLLERS.

Duties.—Are in charge of and responsible for the operation of the rolls. The duties consist chiefly in seeing that the proper rolls are installed, that they are properly set and kept in good condition, and that the rolling crew performs every part of its work properly. The roller also directs and takes part in the changing of the rolls, and when there is a "cobble" or any other difficulty he works with the crew. In case the steel is not properly heated he notifies the heater.

Nature of work.—Very responsible position in which a thorough practical knowledge of the properties of steel is indispensable.

ROUGHERS.

Duties.—Pass the steel back and forth through the first stand of rolls. The rougher down takes the billet from the drag down, grasping it near the end with a pair of specially shaped tongs. The other end is thrust between the lower set of rolls, where it is gripped and drawn through by the revolving rolls. As it comes from the rolls on the other side it is grasped with a similar set of tongs by the rougher up, frequently known as the catcher, who, in a "three-high" mill, puts it between the center and upper rolls, which carry it back under pressure to the rougher down. In "two-high" mills, of which few remain, the piece is put on top of the upper roll and is thus carried back without being worked to the rougher down. This process is repeated until the piece has been considerably elongated and reduced in cross section.

Nature of work.—Heavy work, requiring considerable experience. A rather long period of training in other positions is necessary before a man is able to work at the roughing rolls. The difficulty and severity of the work increase generally with the size of the piece handled and the speed of the mill.

CATCHERS.

Duties.—This term is used to cover both the position of the rougher up and also the work on any of the intermediate sets of rolls.

Nature of work.—Same as that of roughers or of stranders.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

STRANDERS.

Duties.—When the piece comes from the roughing rolls it is grasped with tongs by the strander and the end put into the proper pass.

Nature of work.—The work of the strander is lighter than that of the rougher, as the piece is by this time greatly reduced in section; but it requires a great deal of dexterity to handle the rapidly lengthening piece of steel and to enter it in the proper passes.

FINISHERS.

Duties.—Handle the steel at the last or finishing pass. In rolling bars the piece is usually run out to the floor and lies there for a moment in order to allow the scale to form, so that the finishing rolls will remove it.

Nature of work.—The work is lighter, but the amount of skill and dexterity required depends entirely on the size of the product and the speed of the rolls.

HOOK UPS.

Duties.—The rougher on mills with rolls 12 inches or more in diameter and on the larger mills the catchers and finishers are almost always assisted by hook ups. The hook up derives his name from the long bar which is used in his work. It has a hook on one end and a handle on the other, and is suspended by a chain at a point nearer the hook than the handle. The hook is placed underneath the billet to raise it, the bar acting as a lever, with the chain as a fulcrum.

Nature of work.—A considerable amount of skill is required in handling heavy pieces.

ROLL HANDS, OTHER.

Duties.—Include a miscellaneous collection of occupations around the rolls, which have been placed under this designation in order that the rolling crew as a whole may be assembled. Some of the workers in these positions are highly skilled, due to the nature of the work required either by the type of mill used or by the special character of the product, while others are engaged in comparatively unimportant work.

HOTBED MEN.

Duties.—In the greater number of bar mills the piece as it comes from the finishing rolls is grasped by the drag out with a pair of tongs and dragged off down the steel floor to the hotbed. The piece is straightened either by being laid out at full length or, if a more perfect straightening is needed, by putting the two ends in grips which pull away from each other, thus effectually stretching the piece out perfectly straight; or, if the bar is large, wooden mallets are used to maul out any bends. In the most modern mills the piece is carried

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

out by roller or cone conveyors to an inclined automatic hotbed, the piece rolling down the incline as the fingers which hold it in place are lowered. In this case men are required only to operate levers and to straighten out any piece that is bent.

Nature of work.—The work of the drag outs and the hot straighteners on the older mills, which, however, are by far the greater in number, varies in difficulty and severity with the size of the product rolled. In the most modern mills the hotbed man is simply a lever man and needs little skill or experience to perform his work.

SHEARMEN.

Duties.—Operate the shears by which the finished material is cut to proper lengths.

Nature of work.—The work varies in character according to how nearly the material has to be sheared to a given size. Scrap shearing requires no skill or experience.

SHEARMEN'S HELPERS.

Duties.—Assist in handling the material at the shears and clean up accumulated scrap.

Nature of work.—Chiefly light work, demanding only unskilled workmen.

BUNDLERS.

Duties.—Assemble the sheared bars into bundles and bind them with wire for shipment. The work is usually done in direct connection with the shearing and is very frequently a part of the duties of the shearman's helpers.

Nature of work.—Light work, demanding only unskilled workmen.

LABORERS.

Duties.—Clean up and do the many light jobs around the mill.

Nature of work.—Chiefly light, and requiring only unskilled workmen.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912.

BAR MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Stockers:																
8 plants	1907	93	64.4	$0.178	$11.43	2	6	51	12	22	.....	.....	.....	.....	.....	.....
	1908	90	64.1	.167	10.72	[1] 14	12	34	22	8	.....	.....	.....	.....	.....	.....
	1909	88	64.2	.168	10.79	[2] 3	32	23	18	10	2	.....	.....	.....	.....	.....
	1910	87	64.3	.190	12.17	2	5	28	24	28	.....	.....	.....	.....	.....	.....
13 plants	1910	170	59.0	.250	14.24	2	5	28	24	51	23	16	21	.....	.....	.....
	1911	164	59.6	.230	13.41	2	4	32	28	44	19	35	.....	.....	.....	.....
15 plants	1911	211	60.9	.217	12.94	2	4	65	38	48	19	35	.....	.....	.....	.....
	1912	217	60.9	.231	13.79	2	5	64	15	57	37	37	.....	.....	.....	.....
Heaters:																
15 plants	1907	121	63.9	.508	32.35	.....	.....	.....	.....	.....	10	25	18	43	13	12
	1908	112	63.9	.467	29.66	.....	.....	.....	.....	1	19	14	35	25	11	7
	1909	112	64.0	.488	31.06	.....	.....	.....	.....	4	4	13	34	40	11	6
	1910	142	64.2	.502	31.87	.....	.....	.....	.....	.....	11	24	36	44	12	15
25 plants	1910	217	62.9	.507	31.73	.....	.....	.....	.....	.....	16	39	55	57	31	19
	1911	180	62.6	.512	31.97	.....	.....	.....	.....	.....	13	37	31	55	26	18
26 plants	1911	184	62.7	.510	31.87	.....	.....	.....	.....	.....	13	38	34	55	26	18
	1912	199	62.4	.482	29.84	.....	.....	.....	4	.....	23	45	36	41	37	13
Heaters' helpers:																
14 plants	1907	167	65.3	.246	15.77	.....	10	28	36	28	30	23	8	2	2	.....
	1908	153	65.1	.227	14.50	.....	14	33	36	29	15	19	5	2	.....	.....
	1909	151	65.0	.234	14.87	14	6	19	31	32	27	16	4	.....	2	.....
	1910	166	65.2	.262	16.70	.....	10	21	10	60	26	18	11	8	2	.....
24 plants	1910	295	62.6	.273	16.77	2	15	21	21	89	49	74	11	11	2	.....
	1911	281	62.5	.262	16.05	.....	13	25	24	97	45	57	10	10	.....	.....
25 plants	1911	293	62.7	.259	15.94	.....	17	27	24	100	47	58	10	10	.....	.....
	1912	319	62.2	.260	16.01	.....	21	18	35	95	64	64	16	2	4	.....
Chargers and helpers:																
12 plants	1907	104	65.5	.173	11.34	2	48	30	8	10	5	1	.....	.....	.....	.....
	1908	102	65.6	.161	10.56	[3] 3	58	25	11	5	.....	.....	.....	.....	.....	.....
	1909	107	65.9	.161	10.60	16	51	20	12	8	.....	.....	.....	.....	.....	.....
	1910	110	66.3	.181	11.87	.....	24	50	18	10	8	.....	.....	.....	.....	.....
18 plants	1910	179	65.3	.192	12.40	.....	24	62	44	25	24	.....	.....	.....	.....	.....
	1911	177	65.1	.185	12.02	.....	38	69	24	38	6	2	.....	.....	.....	.....
19 plants	1911	185	64.8	.184	11.90	.....	42	73	24	38	6	2	.....	.....	.....	.....
	1912	182	65.0	.192	12.45	.....	23	87	18	28	24	2	.....	.....	.....	.....
Drag downs:																
11 plants	1907	86	64.4	.271	17.31	.....	9	4	10	19	14	20	6	4	.....	.....
	1908	82	63.9	.246	15.58	[2] 10	10	8	5	15	13	15	.....	6	.....	.....
	1909	83	64.0	.250	15.93	.....	16	6	5	14	20	18	4	.....	.....	.....
	1910	89	64.0	.286	18.19	.....	6	6	14	10	21	24	4	.....	.....	4
19 plants	1910	132	65.1	.269	17.44	.....	6	8	20	34	27	29	4	.....	.....	4
	1911	123	64.9	.262	16.88	4	6	8	5	42	35	15	4	.....	.....	4
20 plants	1911	127	64.7	.262	16.78	4	6	8	5	44	37	15	4	.....	.....	4
	1912	130	64.3	.253	16.12	2	20	4	10	31	27	28	8	.....	.....	.....
Roll engineers:																
13 plants	1907	58	72.3	.226	16.29	.....	.....	4	5	33	16	.....	.....	.....	.....	.....
	1908	56	71.4	.221	15.76	.....	.....	4	6	35	11	.....	.....	.....	.....	.....
	1909	56	71.5	.217	15.52	.....	4	.....	12	30	10	.....	.....	.....	.....	.....
	1910	58	71.7	.230	16.52	.....	.....	4	4	36	14	.....	.....	.....	.....	.....

[1] Including 6 employees earning 10 and under 12 cents per hour.
[2] Including 2 employees earning 10 and under 12 cents per hour.
[3] Including 1 employee earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Roll engineers—Concluded.																
22 plants...	1910	99	72.0	$0.229	$16.46	.....	.....	4	10	59	26	.....	.....	.....	.....	.....
	1911	95	70.4	.228	16.07	.....	.....	6	8	59	22	.....	.....	.....	.....	.....
	1912	97	70.0	.229	16.05	.....	.....	5	8	63	21	.....	.....	.....	.....	.....
Rollers, 8-inch:																
7 plants....	1907	16	62.5	1.089	68.27	.....	.....	.....	.....	.....	.....	.....	.....	1	3	12
	1908	16	62.6	.970	60.88	.....	.....	.....	.....	.....	.....	1	.....	1	4	10
	1909	16	62.5	.956	60.31	.....	.....	.....	.....	.....	.....	1	2	.....	2	11
	1910	15	62.7	1.028	64.69	.....	.....	.....	.....	.....	.....	.....	3	1	2	9
11 plants...	1910	28	59.0	.961	57.71	.....	.....	.....	.....	.....	.....	.....	5	3	5	15
	1911	29	58.0	.929	55.00	.....	.....	.....	.....	.....	.....	.....	2	5	7	15
	1912	29	58.0	.887	52.81	.....	.....	.....	.....	1	.....	.....	4	4	3	17
Rollers, 9-inch:																
6 plants....	1907	12	66.7	1.038	69.72	.....	.....	.....	.....	.....	.....	.....	.....	2	2	8
	1908	11	67.7	.809	55.06	.....	.....	.....	.....	.....	.....	.....	1	2	2	6
	1909	11	67.1	.832	56.25	.....	.....	.....	.....	.....	.....	.....	2	.....	3	6
	1910	12	67.0	.969	65.03	.....	.....	.....	.....	.....	.....	.....	1	.....	5	6
11 plants...	1910	24	63.2	.943	60.20	.....	.....	.....	.....	.....	.....	.....	1	1	8	14
	1911	22	63.5	.825	53.07	.....	.....	.....	.....	.....	.....	1	2	2	4	13
	1912	23	63.1	.808	51.36	.....	.....	.....	.....	.....	.....	.....	.....	4	4	15
Rollers, 10-inch:																
5 plants....	1907	12	67.3	1.114	76.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	10
	1908	12	67.3	.974	66.06	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	9
	1909	12	67.0	1.095	73.38	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	11
	1910	12	67.0	1.183	79.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	11
7 plants....	1910	18	65.0	1.069	70.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	17
	1911	18	63.6	.967	56.28	.....	.....	.....	.....	.....	.....	.....	1	1	1	15
	1912	18	63.6	1.066	68.13	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	17
Rollers, 12-inch:																
7 plants....	1907	15	68.1	.900	61.69	.....	.....	.....	.....	.....	.....	.....	.....	2	2	11
	1908	13	69.9	.801	55.63	.....	.....	.....	.....	.....	.....	1	.....	2	2	8
	1909	13	69.8	.864	60.16	.....	.....	.....	.....	.....	.....	.....	.....	2	2	9
	1910	15	68.5	.888	61.05	.....	.....	.....	.....	.....	.....	1	.....	.....	3	11
13 plants...	1910	27	64.4	.864	56.26	.....	.....	.....	.....	.....	.....	1	.....	1	6	19
	1911	24	64.9	.844	54.85	.....	.....	.....	.....	.....	.....	.....	.....	4	3	17
	1912	26	64.3	.831	53.75	.....	.....	.....	.....	.....	1	.....	.....	5	2	18
Rollers, 13-inch, 14-inch, and 15-inch:																
3 plants....	1910	7	60.6	.835	48.77	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	5
	1911	7	60.6	.676	39.73	.....	.....	.....	.....	.....	.....	.....	2	.....	4	1
	1912	7	60.6	.709	42.11	.....	.....	.....	.....	.....	.....	.....	.....	2	3	2
Rollers, 16-inch:																
4 plants....	1907	7	63.3	.897	58.11	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	4
	1908	7	63.3	.868	56.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	4
	1909	7	63.3	.850	54.77	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	5
	1910	9	62.3	1.074	68.32	.....	.....	.....	.....	.....	.....	.....	.....	1	2	6
5 plants....	1910	11	62.6	1.007	64.13	.....	.....	.....	.....	.....	.....	.....	.....	1	2	8
	1911	8	63.9	1.081	70.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	6
6 plants....	1911	12	62.8	.929	59.52	.....	.....	.....	.....	.....	.....	.....	2	.....	2	8
	1912	12	62.4	.814	51.35	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	6
Rollers, 18-inch:																
2 plants....	1907	3	61.0	.942	58.06	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2
	1908	4	58.3	.684	39.66	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	3
	1909	4	58.3	.753	43.79	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	3
	1910	4	58.3	.860	49.92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
5 plants....	1910	9	60.8	.669	40.08	.....	.....	.....	.....	.....	.....	2	.....	2	.....	5
	1911	8	60.3	.771	46.69	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	6
	1912	9	59.1	.751	44.76	.....	.....	.....	.....	.....	.....	.....	1	.....	3	5

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Rollers, all sizes:																
13 plants...	1907	65	65.5	$1.013	$66.88	.....	.....	.....	.....	.....	.....	.....	.....	5	13	47
	1908	63	65.7	.878	57.88	.....	.....	.....	.....	.....	.....	3	1	5	14	40
	1909	63	65.5	.917	60.40	.....	.....	.....	.....	.....	.....	1	5	5	7	45
	1910	67	65.2	1.010	66.23	.....	.....	.....	.....	.....	.....	1	4	2	13	47
22 plants...	1910	124	62.4	.928	58.21	.....	.....	.....	.....	.....	.....	3	8	8	22	83
	1911	116	62.0	.882	55.26	.....	.....	.....	.....	.....	.....	1	9	12	21	73
23 plants...	1911	120	62.0	.873	54.65	.....	.....	.....	.....	.....	.....	1	11	12	21	75
	1912	124	61.7	.860	53.63	.....	.....	.....	.....	1	1	.....	5	16	21	80
Roughers, 8-inch:																
7 plants....	1907	44	61.2	.397	24.40	.....	.....	.....	.....	.....	7	22	8	7	.....	.....
	1908	44	61.2	.373	22.76	.....	.....	.....	.....	.....	14	3	27	.....	.....	.....
	1909	44	61.0	.363	22.28	.....	.....	.....	.....	.....	6	28	9	1	.....	.....
	1910	41	61.2	.393	24.14	.....	.....	.....	.....	.....	9	16	7	9	.....	.....
11 plants...	1910	84	57.5	.368	21.49	.....	.....	.....	.....	6	27	26	10	15	.....	.....
	1911	81	56.0	.347	19.68	.....	.....	.....	.....	6	15	43	13	4	.....	.....
	1912	79	56.0	.336	19.03	.....	.....	.....	.....	6	28	23	21	1	.....	.....
Roughers, 9-inch:																
7 plants....	1907	58	56.3	.564	29.94	.....	.....	.....	.....	.....	3	13	12	8	.....	22
	1908	54	60.4	.392	23.30	.....	.....	.....	.....	6	.....	20	20	8	.....	.....
	1909	54	56.5	.422	23.20	.....	.....	.....	.....	.....	9	12	16	17	.....	.....
	1910	58	56.9	.454	25.14	.....	.....	.....	.....	.....	12	4	20	16	6	.....
12 plants...	1910	88	58.2	.449	25.69	.....	.....	.....	.....	.....	16	6	38	22	6	.....
	1911	83	57.4	.414	23.87	.....	.....	.....	.....	.....	14	29	24	12	4	.....
	1912	84	57.2	.429	24.17	.....	.....	.....	.....	.....	17	14	22	23	8	.....
Roughers, 10-inch:																
5 plants....	1907	33	64.4	.441	29.11	.....	.....	.....	.....	8	.....	3	4	18	.....	.....
	1908	37	65.2	.323	21.09	.....	.....	.....	.....	8	6	15	8	.....	.....	.....
	1909	37	65.0	.370	23.73	.....	.....	.....	.....	.....	12	14	7	4	.....	.....
	1910	38	64.8	.395	25.40	.....	.....	.....	.....	.....	9	12	6	11	.....	.....
7 plants....	1910	51	64.8	.412	26.45	.....	.....	.....	.....	.....	.....	28	12	11	.....	.....
	1911	51	63.3	.366	22.72	.....	.....	.....	.....	.....	3	29	17	2	.....	.....
	1912	51	63.3	.399	24.69	.....	.....	.....	.....	.....	6	20	18	7	.....	.....
Roughers, 12-inch:																
8 plants....	1907	62	64.5	.416	27.10	.....	.....	.....	.....	.....	6	24	28	4	.....	.....
	1908	55	64.1	.301	19.45	.....	.....	.....	.....	11	18	22	4	.....	.....	.....
	1909	54	67.7	.351	23.77	.....	.....	.....	.....	.....	9	39	6	.....	.....	.....
	1910	58	67.5	.400	27.06	.....	.....	.....	.....	.....	.....	34	24	.....	.....	.....
14 plants...	1910	89	64.6	.397	25.80	.....	.....	.....	.....	.....	10	39	37	3	.....	.....
	1911	81	65.3	.361	23.35	.....	.....	.....	.....	.....	22	42	10	7	.....	.....
	1912	85	64.4	.391	25.24	.....	.....	.....	.....	4	7	46	6	22	.....	.....
Roughers, 13-inch, 14-inch, and 15-inch:																
1 plant.....	1907	12	60.0	.289	17.34	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....
	1908	12	60.0	.250	15.00	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....
	1909	12	60.0	.262	15.72	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....
	1910	12	60.0	.289	17.34	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....
5 plants....	1910	48	61.5	.379	22.89	.....	.....	.....	.....	.....	12	22	11	3	.....	.....
	1911	46	61.2	.338	20.51	.....	.....	.....	.....	.....	14	25	7	.....	.....	.....
	1912	47	61.4	.364	22.23	.....	.....	.....	.....	.....	12	11	24	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Roughers, 16-inch:																
5 plants	1907	36	63.0	$0.349	$22.20					8		24	4			
	1908	32	63.1	.349	22.23					8		10	14			
	1909	34	63.4	.347	22.22					8		12	14			
	1910	42	62.2	.390	24.65					14		6	14	8		
	1911	34	63.4	.415	26.55					8	4		10	12		
6 plants	1911	42	62.3	.415	26.05					8	4	2	16	12		
	1912	40	61.8	.381	23.63					14		8	12	2	4	
Roughers, 18-inch:																
2 plants	1907	7	62.0	.384	23.68							6		1		
	1908	8	60.5	.348	20.83							6	2			
	1909	8	60.5	.380	22.73							6	1	1		
	1910	8	60.5	.523	31.55									8		
5 plants	1910	23	59.4	.414	24.92					6			6	11		
	1911	19	60.3	.444	26.73						2	6		11		
	1912	22	58.9	.465	27.34						2		15	5		
Roughers, all sizes:																
15 plants	1907	252	61.5	.434	26.28					16	28	92	56	38		22
	1908	242	62.5	.343	21.35					33	50	76	75	8		
	1909	243	62.4	.368	22.72					8	48	111	53	23		
	1910	257	62.3	.407	25.21					14	42	72	71	52	6	
25 plants	1910	425	61.0	.402	24.51					26	65	127	128	73	6	
	1911	395	60.6	.376	22.65					14	74	174	81	48	4	
26 plants	1911	403	60.5	.377	22.68					14	74	176	87	48	4	
	1912	408	60.2	.389	23.36					24	72	122	118	60	12	
Catchers, 8-inch:																
3 plants	1907	18	56.6	.362	20.48					2		12	4			
	1908	18	56.6	.350	19.66					2	2	6	8			
	1909	18	56.6	.335	18.90						2	16				
	1910	17	56.4	.371	20.97					1		14	2			
6 plants	1910	26	54.3	.351	19.14					3	3	17	3			
	1911	27	54.1	.319	17.32				2	2		23				
	1912	25	54.1	.340	18.48			1		1	4	12	7			
Catchers, 9-inch:																
2 plants	1907	12	58.0	.474	27.30								4	8		
	1908	12	58.0	.455	25.94							4		8		
	1909	12	58.0	.495	28.68								4	8		
	1910	12	58.0	.526	30.37								4	8		
4 plants	1910	17	56.5	.499	28.19								9	8		
	1911	17	56.8	.440	24.76						2	7		8		
	1912	15	55.7	.508	27.86						4	3			8	
Catchers, 10-inch:																
1 plant	1907	10	72.0	.352	25.35							9	1			
	1908	10	72.0	.377	27.14							7	3			
	1909	10	71.5	.379	27.06							7	3			
	1910	10	71.5	.456	32.63								10			
3 plants	1910	16	66.8	.383	26.24					4	2		10			
	1911	16	65.9	.365	24.46				1	1	3	3	8			
	1912	16	65.9	.419	28.23						4	2	8	2		

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Catchers, 12-inch:																
5 plants	1907	16	65.6	$0.446	$29.52					4		2	1	9		
	1908	17	64.1	.317	20.42						7	9			1	
	1909	17	63.9	.349	22.61					4	2	8	2			1
	1910	18	63.7	.411	26.37						4	4	8	2		
10 plants	1910	28	62.5	.403	25.40						6	9	9	4		
	1911	27	62.1	.368	22.90					2	4	15	5			1
	1912	29	61.7	.348	21.52					4	6	12	5	2		
Catchers, 13-inch, 14-inch, and 15-inch:																
3 plants	1910	7	61.7	.458	27.63							2	2	3		
	1911	7	61.7	.392	23.92							5	2			
	1912	7	61.7	.407	24.70							4	3			
Catchers, 16-inch:																
4 plants	1907	10	64.5	.636	41.02							4	2			4
	1908	9	65.0	.499	32.46						2	3		2		2
	1909	9	65.0	.552	36.02							4		2		3
	1910	12	64.6	.547	35.32								4	4	4	
	1911	9	65.0	.664	43.23								4	2	1	2
	1912	9	64.5	.511	33.00								7			2
Catchers, 18-inch:																
2 plants	1907	3	61.0	.423	25.96							1	1	1		
	1908	4	58.3	.314	18.51						2	2				
	1909	4	58.3	.346	20.40						1	2	1			
	1910	4	58.3	.466	27.72							2		2		
5 plants	1910	9	58.6	.375	22.36				2			4	1	2		
	1911	8	59.0	.369	21.99					1	2	2	1	2		
	1912	9	58.0	.391	22.87					1		4	2	2		
Catchers, all sizes:																
11 plants	1907	69	62.5	.442	27.68					6		28	13	18		4
	1908	70	62.0	.381	23.57					2	13	31	11	10	1	2
	1909	70	61.9	.400	24.93					4	5	37	10	10		4
	1910	73	62.0	.452	28.17					1	4	20	28	16	4	
20 plants	1910	115	60.2	.419	25.45				2	7	11	32	38	21	4	
	1911	111	59.9	.392	23.70				3	6	11	55	20	12	1	3
	1912	110	59.7	.399	23.92			1		6	18	37	32	6	8	2
Stranders, 8-inch:																
7 plants	1907	56	62.6	.305	19.11				2	20	11	11	6	6		
	1908	56	62.8	.267	16.77	1	1			18	20	16				
	1909	56	62.7	.274	17.22		1	1		18	22	14				
	1910	54	62.8	.305	19.11		2			6	24	18	4			
11 plants	1910	75	61.6	.275	17.00	[1] 4	2	5		15	26	19	4			
	1911	73	60.4	.249	15.12	[1] 4		4	11	20	14	20				
	1912	73	60.4	.244	14.88	[1] 5	2	4	7	14	26	15				
Stranders, 9-inch:																
6 plants	1907	41	56.2	.395	20.75			2		9	6	6		9	9	
	1908	39	56.4	.276	15.10	2			9	2	6	20				
	1909	39	56.3	.287	15.75	1	1	1		8	10	18				
	1910	39	56.3	.332	18.28		2			2	9	26				
10 plants	1910	64	59.1	.289	16.64		2		6	19	9	28				
	1911	62	58.6	.247	14.39		3	3	11	17	18	7	3			
	1912	61	58.0	.235	13.44	2	4	6	9	14	9	17				

[1] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Stranders, 10-inch:																
5 plants	1907	43	55.1	$0.354	$19.47	.....	.....	.....	4	.....	.....	39	.....	.....	.....	.....
	1908	43	55.1	.320	17.08	.....	.....	.....	4	8	2	29	.....	.....	.....	.....
	1909	43	55.0	.378	19.95	.....	.....	.....	.....	.....	[1] 10	21	12	.....	.....	.....
	1910	43	55.0	.444	23.09	.....	.....	.....	.....	4	.....	18	.....	21	.....	.....
7 plants	1910	57	57.7	.390	21.13	.....	.....	4	.....	8	6	18	.....	21	.....	.....
	1911	57	56.7	.322	17.35	.....	3	1	5	9	9	9	21	.....	.....	.....
	1912	57	56.7	.370	19.71	.....	.....	.....	1	11	15	9	9	12	.....	.....
Stranders, 12-inch:																
3 plants	1907	13	69.0	.352	24.53	.....	.....	.....	.....	.....	3	2	8	.....	.....	.....
	1908	14	70.4	.284	19.99	.....	.....	.....	.....	.....	12	2	.....	.....	.....	.....
	1909	14	70.4	.293	20.62	.....	.....	.....	.....	.....	4	10	.....	.....	.....	.....
	1910	16	69.1	.411	28.82	.....	.....	.....	.....	.....	4	2	10	.....	.....	.....
9 plants	1910	48	64.4	.286	18.71	.....	.....	.....	4	24	4	6	10	.....	.....	.....
	1911	40	65.3	.271	17.71	.....	.....	.....	16	6	2	15	1	.....	.....	.....
	1912	43	64.7	.309	20.38	.....	.....	.....	14	6	8	5	.....	10	.....	.....
Stranders, 13-inch, 14-inch, and 15-inch:																
1 plant	1907	20	60.0	.233	14.00	.....	2	2	.....	8	8	.....	.....	.....	.....	.....
	1908	20	60.0	.201	12.06	.....	2	2	.....	16	.....	.....	.....	.....	.....	.....
	1909	20	60.0	.211	12.65	.....	2	2	.....	16	.....	.....	.....	.....	.....	.....
	1910	26	60.0	.224	13.46	.....	.....	2	8	8	8	.....	.....	.....	.....	.....
	1911	20	60.0	.221	13.25	.....	.....	4	.....	16	.....	.....	.....	.....	.....	.....
	1912	22	60.0	.217	13.01	.....	.....	6	.....	16	.....	.....	.....	.....	.....	.....
Stranders, 16-inch:																
1 plant	1907	2	65.0	.361	23.47	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1908	2	65.0	.344	22.36	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1909	2	65.0	.299	19.44	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1910	2	65.0	.484	31.46	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	65.0	.480	31.20	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
2 plants	1911	10	57.0	.424	24.28	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	.....
	1912	10	57.0	.405	22.86	.....	.....	.....	.....	.....	.....	2	8	.....	.....	.....
Stranders, all sizes:																
13 plants	1907	175	59.5	.334	19.45	.....	2	4	6	37	28	60	14	15	9	.....
	1908	174	59.7	.277	16.25	3	3	2	13	44	40	69	.....	.....	.....	.....
	1909	174	59.7	.297	17.34	1	4	4	.....	42	48	63	12	.....	.....	.....
	1910	180	59.7	.344	20.06	.....	4	2	8	20	45	64	16	21	.....	.....
21 plants	1910	272	60.6	.301	17.85	[1] 4	4	11	18	74	53	71	16	21	.....	.....
	1911	254	59.9	.268	15.83	[1] 4	6	12	43	68	43	51	27	.....	.....	.....
22 plants	1911	262	59.8	.272	16.03	[1] 4	6	12	43	68	43	51	35	.....	.....	.....
	1912	266	59.6	.283	16.62	[1] 7	6	16	31	61	58	48	17	22	.....	.....
Finishers, 8-inch:																
6 plants	1907	14	64.5	.298	19.43	.....	.....	.....	2	4	2	4	1	1	.....	.....
	1908	14	64.8	.277	18.03	.....	.....	.....	2	4	3	3	2	.....	.....	.....
	1909	14	64.7	.290	18.77	.....	.....	.....	2	2	2	6	2	.....	.....	.....
	1910	13	65.1	.309	20.19	.....	.....	.....	.....	2	4	5	2	.....	.....	.....
9 plants	1910	24	60.6	.303	18.24	.....	.....	2	.....	2	7	11	2	.....	.....	.....
	1911	25	59.6	.302	18.01	.....	.....	2	.....	2	9	10	1	1	.....	.....
	1912	25	59.6	.295	17.60	.....	.....	2	.....	3	9	9	1	1	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Finishers, 9-inch:																
5 plants	1907	15	66.8	$0.244	$16.24	[1] 2	....	....	2	4	5	....	2	....	....	....
	1908	14	67.9	.245	16.53	1	2	....	....	4	5	2	....	....	....	....
	1909	14	67.8	.254	17.10	1	....	1	1	4	5	2	....	....	....	....
	1910	14	67.8	.261	17.58	1	....	2	....	4	5	....	2	....	....	....
9 plants	1910	24	64.3	.287	17.98	1	....	2	....	6	9	1	5	....	....	....
	1911	23	63.8	.272	17.18	1	....	1	1	6	7	5	2	....	....	....
	1912	24	63.4	.282	17.61	1	....	1	1	4	9	6	2	....	....	....
Finishers, 10-inch:																
4 plants	1907	10	68.0	.396	27.29	....	....	....	....	....	2	2	4	2	....	....
	1908	10	68.0	.342	23.48	....	....	....	....	....	4	4	2	....	....	....
	1909	10	67.7	.387	26.16	....	....	....	....	....	....	5	5	....	....	....
	1910	10	67.7	.412	28.19	....	....	....	....	....	....	6	2	2	....	....
5 plants	1910	12	69.3	.376	26.20	....	....	....	....	2	2	4	2	2	....	....
	1911	12	68.4	.329	22.72	....	....	1	1	2	2	2	3	1	....	....
	1912	12	68.4	.358	24.73	....	....	....	....	....	5	4	1	2	....	....
Finishers, 12-inch:																
4 plants	1907	12	69.3	.336	23.28	....	....	....	....	....	6	2	4	....	....	....
	1908	11	70.5	.271	19.04	....	....	2	....	2	4	2	1	....	....	....
	1909	11	70.4	.297	20.85	....	....	....	....	2	4	4	1	....	....	....
	1910	12	69.5	.359	24.97	....	....	....	....	....	4	4	2	2	....	....
8 plants	1910	20	65.8	.349	22.74	....	....	....	....	....	7	6	5	2	....	....
	1911	19	65.2	.324	20.78	....	....	....	....	6	5	2	5	1	....	....
10 plants	1911	22	63.7	.309	19.51	....	....	....	2	6	6	2	5	1	....	....
	1912	24	63.0	.311	19.81	....	....	....	2	5	10	3	2	....	2	....
Finishers, 13-inch, 14-inch, and 15-inch:																
1 plant	1907	4	60.0	.315	18.90	....	....	....	....	....	....	4	....	....	....	....
	1908	4	60.0	.275	16.50	....	....	....	....	....	4	....	....	....	....	....
	1909	4	60.0	.289	17.34	....	....	....	....	....	4	....	....	....	....	....
	1910	4	60.0	.316	18.96	....	....	....	....	....	....	4	....	....	....	....
4 plants	1910	15	64.0	.339	21.01	....	....	....	....	....	6	6	....	3	....	....
	1911	15	64.0	.316	19.83	....	....	....	....	....	4	10	1	....	....	....
	1912	15	64.0	.319	19.97	....	....	....	....	....	4	8	3	....	....	....
Finishers, 16-inch:																
2 plants	1907	8	62.8	.262	16.39	....	....	....	....	4	4	....	....	....	....	....
	1908	8	62.8	.242	15.11	....	....	....	....	5	3	....	....	....	....	....
	1909	8	62.8	.265	16.68	....	....	....	....	2	6	....	....	....	....	....
	1910	9	62.2	.310	19.37	....	....	....	....	....	3	6	....	....	....	....
3 plants	1910	11	62.5	.324	20.34	....	....	....	....	....	3	8	....	....	....	....
	1911	11	63.5	.325	20.73	....	....	....	....	....	2	9	....	....	....	....
4 plants	1911	19	61.1	.363	22.08	....	....	....	....	....	2	11	6	....	....	....
	1912	20	61.1	.377	22.77	....	....	2	....	....	8	2	4	....	4	....
Finishers, 18-inch:																
1 plant	1907	2	62.8	.435	27.30	....	....	....	....	....	....	....	2	....	....	....
	1908	2	62.8	.417	26.25	....	....	....	....	....	....	1	1	....	....	....
	1909	2	62.8	.438	27.48	....	....	....	....	....	....	....	2	....	....	....
	1910	2	62.8	.438	27.48	....	....	....	....	....	....	....	2	....	....	....
3 plants	1910	5	61.9	.308	19.15	....	....	....	....	3	....	....	2	....	....	....
	1911	5	60.7	.350	21.38	....	....	....	....	....	1	2	2	....	....	....
	1912	6	58.9	.336	20.02	....	....	....	....	....	2	2	2	....	....	....

[1] Including 1 employee earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Finishers, all sizes:																
10 plants	1907	65	65.9	$0.309	$20.45	[1] 2	....	.....	4	12	19	12	13	3	....	.....
	1908	63	66.4	.279	18.53	1	2	2	2	15	23	12	6	....	....	.....
	1909	63	66.2	.300	19.85	1	....	1	3	10	21	17	10	....	....	.....
	1910	64	66.1	.329	21.80	1	....	2	....	6	16	25	10	4	....	.....
17 plants	1910	111	64.0	.323	20.48	1	....	4	....	13	34	36	16	7	....	.....
	1911	110	63.4	.309	19.50	1	....	4	2	16	30	40	14	3	....	.....
19 plants	1911	121	62.8	.313	19.60	1	....	4	4	16	31	42	20	3	....	.....
	1912	126	62.5	.319	19.92	1	....	5	3	12	47	34	15	3	6	.....
Hook ups, 12-inch:																
6 plants	1907	49	64.8	.289	18.98	.....	.....	.....	.....	12	21	16	.....	.....	.....	.....
	1908	37	69.1	.230	15.75	.....	2	6	2	18	5	4	.....	.....	.....	.....
	1909	37	68.9	.241	16.46	.....	.....	.....	4	20	10	3	.....	.....	.....	.....
	1910	37	69.9	.318	22.33	.....	.....	.....	.....	8	12	3	14	.....	.....	.....
13 plants	1910	69	62.8	.282	17.93	.....	1	2	4	14	31	3	14	.....	.....	.....
	1911	53	63.4	.244	15.38	.....	3	6	10	7	15	12	.....	.....	.....	.....
	1912	56	62.5	.269	17.15	.....	2	2	12	10	15	7	8	.....	.....	.....
Hook ups, 13-inch, 14-inch, and 15-inch:																
1 plant	1907	8	60.0	.184	11.04	.....	.....	4	4	.....	.....	.....	.....	.....	.....	.....
	1908	14	60.0	.163	9.77	.....	.....	14	.....	.....	.....	.....	.....	.....	.....	.....
	1909	8	60.0	.173	10.40	.....	.....	6	2	.....	.....	.....	.....	.....	.....	.....
	1910	12	60.0	.197	11.84	.....	.....	.....	8	4	.....	.....	.....	.....	.....	.....
5 plants	1910	50	64.2	.237	14.66	.....	.....	7	18	8	8	9	.....	.....	.....	.....
	1911	45	64.2	.225	14.06	.....	.....	3	18	15	.....	9	.....	.....	.....	.....
	1912	51	63.8	.229	14.29	.....	.....	10	16	8	8	9	.....	.....	.....	.....
Hook ups, 16-inch:																
5 plants	1907	26	63.9	.263	16.91	4	.....	2	.....	.....	16	2	2	.....	.....	.....
	1908	23	64.4	.269	17.35	.....	.....	3	2	5	1	12	.....	.....	.....	.....
	1909	27	64.7	.274	17.80	.....	2	.....	.....	4	10	11	.....	.....	.....	.....
	1910	35	64.1	.326	20.97	.....	.....	.....	2	.....	2	27	2	2	.....	.....
	1911	25	64.4	.337	21.83	.....	.....	.....	2	.....	1	18	2	2	.....	.....
6 plants	1911	35	62.4	.308	19.43	.....	.....	.....	5	.....	8	18	2	2	.....	.....
	1912	36	61.5	.269	16.61	.....	.....	.....	4	4	22	6	.....	.....	.....	.....
Hook ups, 18-inch:																
2 plants	1907	9	62.2	.238	14.83	.....	.....	3	.....	3	3	.....	.....	.....	.....	.....
	1908	10	61.0	.190	11.64	1	3	.....	.....	6	.....	.....	.....	.....	.....	.....
	1909	10	61.0	.202	12.39	.....	3	1	.....	6	.....	.....	.....	.....	.....	.....
	1910	9	60.8	.294	18.13	.....	.....	2	1	.....	.....	6	.....	.....	.....	.....
5 plants	1910	20	60.4	.227	13.85	2	3	4	3	3	.....	6	.....	.....	.....	.....
	1911	21	60.5	.221	13.48	[2] 4	4	1	3	3	.....	6	.....	.....	.....	.....
	1912	24	59.2	.217	12.93	2	2	4	3	7	.....	6	.....	.....	.....	.....
Hook ups, all sizes:																
12 plants	1907	92	63.9	.268	17.30	4	....	9	4	15	40	18	2	.....	.....	.....
	1908	84	65.3	.225	14.70	1	5	23	4	29	6	16	.....	.....	.....	.....
	1909	82	65.7	.241	15.82	.....	5	7	6	30	20	14	.....	.....	.....	.....
	1910	93	65.6	.303	20.06	.....	.....	2	11	12	14	36	16	2	.....	.....
20 plants	1910	174	63.2	.272	17.13	2	4	13	27	24	41	45	16	2	.....	.....
	1911	144	63.4	.251	15.81	[2] 4	7	10	33	25	16	45	2	2	.....	.....
21 plants	1911	154	63.0	.250	15.66	[2] 4	7	10	36	25	23	45	2	2	.....	.....
	1912	167	62.2	.249	15.56	2	4	16	35	29	45	28	8	.....	.....	.....

[1] Including 1 employee earning 10 and under 12 cents per hour.
[2] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Roll hands, other, 8-inch:																
5 plants	1907	20	65.1	$0.250	$16.20	[1] 3	2	4	2	2	3	7				
	1908	20	65.3	.237	15.29		5			4	3	3	2			
	1909	20	65.1	.235	15.15	2	5	1		6	1	3	2			
	1910	20	65.1	.257	16.51	2	2	4		2	4	3	2	1		
9 plants	1910	33	60.6	.251	15.01	[2] 4	4	4		2	10	6	2	1		
	1911	33	60.0	.253	15.04	[3] 2	2	7	1	3	8	8	2			
	1912	33	60.0	.248	14.75	[4] 5	1	5	1	4	9	6	1	1		
Roll hands, other, 9-inch:																
3 plants	1907	18	59.7	.224	12.91			8	2		6	2				
	1908	18	60.4	.223	12.95		2	8			6	2				
	1909	18	60.3	.222	12.90			10			6	2				
	1910	18	60.3	.234	13.64			2	8		6	2				
6 plants	1910	35	56.5	.267	14.49		2	2	8	2	7	11	3			
	1911	35	56.1	.242	13.24	2	1	10		9	6	5	2			
	1912	36	56.3	.257	14.05	2	1	11		2	13	5		2		
Roll hands, other, 10-inch:																
4 plants	1907	29	70.4	.388	27.24					1		22	1	5		
	1908	29	70.4	.327	22.89					12	5	5	3	4		
	1909	29	70.0	.346	24.04					1	15	6	3	3	1	
	1910	29	70.0	.409	28.38						2	17	4	2	2	2
7 plants	1910	39	67.8	.359	24.58		4		2		6	17	4	2	2	2
	1911	39	66.8	.327	22.11		1	1	6		16	5	6	1	3	
	1912	39	66.8	.351	23.69			1	1	5	16	4	8		2	2
Roll hands, other, 12-inch:																
4 plants	1907	24	70.1	.201	14.04			14	4	4			2			
	1908	21	70.4	.194	13.60		12		2	5			2			
	1909	21	70.3	.210	14.75				16	3		2				
	1910	22	69.9	.302	21.27				2	6		12		2		
9 plants	1910	33	67.0	.285	19.06				7	8	1	15		2		
	1911	32	67.7	.254	16.95			2	4	20	1	1	4			
	1912	33	67.5	.298	20.25			2	2	9	1	17			2	
Roll hands, other, 13-inch, 14-inch, and 15-inch:																
3 plants	1910	29	62.1	.307	17.94				10		5	2	12			
	1911	28	61.7	.268	15.81			10		1	5	12				
	1912	25	63.4	.268	16.17			10			6	9				
Roll hands, other, 16-inch:																
2 plants	1907	4	64.5	.331	21.26						2	1	1			
	1908	4	64.5	.331	21.21						2	1	1			
	1909	4	64.5	.359	22.97						2	1		1		
	1910	4	64.5	.374	24.13						2		1	1		
	1911	4	64.5	.398	25.63						2		1	1		
	1912	3	64.5	.394	25.51						1		2			

[1] Including 1 employee earning 10 and under 12 cents per hour.
[2] Including 2 employees earning 10 and under 12 cents per hour.
[3] Earning 10 and under 12 cents per hour.
[4] Including 3 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Roll hands, other, 18-inch:																
1 plant	1907	2	62.8	$0.237	$14.84	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
	1908	2	62.8	.181	11.33	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
	1909	2	62.8	.200	12.55	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....
	1910	2	62.8	.296	18.57	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
4 plants	1910	7	59.9	.226	13.67	.....	.....	.....	4	1	2	.....	.....	.....	.....	.....
	1911	6	60.8	.256	15.55	.....	1	1	.....	1	1	2	.....	.....	.....	.....
	1912	7	59.2	.235	13.91	.....	.....	.....	.....	4	3	.....	.....	.....	.....	.....
Roll hands, other, all sizes:																
9 plants	1907	97	66.8	.278	18.53	.....	2	26	8	8	12	32	4	5	.....	.....
	1908	94	67.0	.255	16.97	[1] 3	19	9	3	21	16	11	8	4	.....	.....
	1909	94	66.8	.266	17.65	2	5	11	17	11	24	14	5	4	1	.....
	1910	95	66.7	.315	21.06	2	2	6	10	8	16	34	7	6	2	2
18 plants	1910	180	62.8	.295	18.35	[2] 4	10	6	31	13	33	51	22	6	2	2
	1911	177	62.5	.273	16.97	[2] 4	5	31	11	34	39	33	15	2	3	.....
	1912	176	62.7	.287	17.97	[3] 7	2	29	4	24	49	41	11	3	4	2
Hotbed men:																
15 plants	1907	302	63.3	.189	11.98	[4] 18	108	47	32	60	17	20	.....	.....	.....	.....
	1908	299	63.2	.174	10.93	[5] 27	116	64	37	35	13	7	.....	.....	.....	.....
	1909	286	63.3	.180	11.00	[6] 52	70	53	33	54	9	15	.....	.....	.....	.....
	1910	302	63.3	.208	13.02	[7] 22	38	87	36	58	36	4	19	2	.....	.....
25 plants	1910	500	62.9	.200	12.46	[8] 52	78	127	71	83	57	11	19	2	.....	.....
	1911	434	62.0	.189	11.69	[9] 50	78	125	59	65	27	24	4	2	.....	.....
26 plants	1911	450	61.9	.188	11.61	[9] 50	90	125	63	65	27	24	4	2	.....	.....
	1912	461	61.7	.192	11.80	[10] 57	42	130	69	101	38	24	.....	.....	.....	.....
Shearmen:																
15 plants	1907	94	64.8	.249	16.20	.....	1	17	20	20	12	20	.....	2	2	.....
	1908	92	65.1	.216	14.10	2	1	24	21	22	15	6	.....	.....	1	.....
	1909	93	65.3	.225	14.72	.....	6	13	27	20	16	9	1	.....	1	.....
	1910	97	65.0	.247	16.11	.....	9	8	24	14	18	20	3	1	.....	.....
25 plants	1910	156	63.3	.264	16.40	2	13	11	30	27	29	31	9	1	.....	3
	1911	151	62.5	.254	15.55	2	8	17	41	23	25	20	10	5	.....	.....
	1912	154	62.4	.254	15.59	2	5	17	38	31	25	25	6	5	.....	.....
Shearmen's helpers:																
15 plants	1907	201	65.9	.174	11.46	[11] 22	76	49	12	28	12	2	.....	.....	.....	.....
	1908	172	66.2	.163	11.07	[11] 19	74	33	20	21	3	2	.....	.....	.....	.....
	1909	185	67.3	.169	11.32	[4] 39	63	32	17	27	5	2	.....	.....	.....	.....
	1910	215	65.3	.184	12.00	[2] 12	55	69	13	48	16	2	.....	.....	.....	.....
23 plants	1910	355	64.7	.187	12.02	[12] 38	58	109	29	87	20	14	.....	.....	.....	.....
	1911	359	63.8	.178	11.28	[13] 45	57	156	22	57	18	2	2	.....	.....	.....
	1912	358	63.9	.184	11.74	[14] 34	30	142	28	94	26	4	.....	.....	.....	.....

[1] Including 1 employee earning 10 and under 12 cents per hour.
[2] Including 2 employees earning 10 and under 12 cents per hour.
[3] Including 3 employees earning 10 and under 12 cents per hour.
[4] Including 14 employees earning 10 and under 12 cents per hour.
[5] Including 6 employees earning 8 and under 9 cents, 4 employees earning 9 and under 10 cents, and 2 employees earning 10 and under 12 cents per hour.
[6] Including 6 employees earning 9 and under 10 cents and 8 employees earning 10 and under 12 cents per hour.
[7] Including 6 employees earning 9 and under 10 cents and 6 employees earning 10 and under 12 cents per hour.
[8] Including 6 employees earning 9 and under 10 cents and 18 employees earning 10 and under 12 cents per hour.
[9] Including 23 employees earning 10 and under 12 cents per hour.
[10] Including 3 employees earning 8 and under 9 cents, 5 employees earning 9 and under 10 cents, and 19 employees earning 10 and under 12 cents per hour.
[11] Including 7 employees earning 10 and under 12 cents per hour.
[12] Including 6 employees earning 8 and under 9 cents, and 8 earning 10 and under 12 cents per hour.
[13] Including 11 employees earning 10 and under 12 cents per hour.
[14] Including 2 employees earning 9 and under 10 cents, and 11 earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Bundlers:																
5 plants	1907	41	66.9	$0.202	$13.53	.....	.....	10	13	16	1	1	.....	.....	.....	.....
	1908	41	66.9	.174	11.68	2	12	15	8	3	1	.....	.....	.....	.....	.....
	1909	41	66.8	.186	12.42	.....	4	13	18	6	.....	.....	.....	.....	.....	.....
	1910	41	67.1	.213	14.23	.....	2	9	2	26	2	.....	.....	.....	.....	.....
6 plants	1910	77	66.1	.207	13.69	.....	2	9	24	40	2	.....	.....	.....	.....	.....
	1911	81	63.5	.193	12.28	.....	1	16	32	30	2	.....	.....	.....	.....	.....
7 plants	1911	131	62.0	.197	12.20	.....	1	16	32	80	2	.....	.....	.....	.....	.....
	1912	132	62.0	.193	11.94	.....	.....	16	90	24	2	.....	.....	.....	.....	.....
Laborers:																
10 plants	1907	296	68.3	.153	10.44	27	173	96	.....	.....	.....	.....	.....	.....	.....	.....
	1908	227	64.8	.153	9.93	39	90	98	.....	.....	.....	.....	.....	.....	.....	.....
	1909	324	67.8	.150	10.17	50	182	92	.....	.....	.....	.....	.....	.....	.....	.....
	1910	424	67.2	.161	10.81	40	31	353	.....	.....	.....	.....	.....	.....	.....	.....
15 plants	1910	511	67.8	.160	10.86	51	70	390	.....	.....	.....	.....	.....	.....	.....	.....
	1911	355	66.0	.160	10.59	44	26	285	.....	.....	.....	.....	.....	.....	.....	.....
17 plants	1911	390	65.5	.159	10.40	44	61	285	.....	.....	.....	.....	.....	.....	.....	.....
	1912	424	65.9	.159	10.52	44	54	326	.....	.....	.....	.....	.....	.....	.....	.....

PER CENT.

Stockers:																
8 plants	1907	93	64.4	$0.178	$11.43	2.2	6.5	54.8	12.9	23.7	.....	.....	.....	.....	.....	.....
	1908	90	64.1	.167	10.72	[1]15.6	13.3	37.8	24.4	8.9	.....	.....	.....	.....	.....	.....
	1909	88	64.2	.168	10.79	[2]3.4	36.4	26.1	20.5	11.4	2.3	.....	.....	.....	.....	.....
	1910	87	64.3	.190	12.17	2.3	5.7	32.2	27.6	32.2	.....	.....	.....	.....	.....	.....
13 plants	1910	170	59.0	.250	14.24	1.2	2.9	16.5	14.1	30.0	13.5	9.4	12.4	.....	.....	.....
	1911	164	59.6	.230	13.41	1.2	2.4	19.5	17.1	26.8	11.6	21.3	.....	.....	.....	.....
15 plants	1911	211	60.9	.217	12.94	.9	1.9	30.8	18.0	22.7	9.0	16.6	.....	.....	.....	.....
	1912	217	60.9	.231	13.79	.9	2.3	29.5	6.9	26.3	17.1	17.1	.....	.....	.....	.....
Heaters:																
15 plants	1907	121	63.9	.508	32.35	.....	.....	.....	.....	.....	8.3	20.7	14.9	35.5	10.7	9.9
	1908	112	63.9	.467	29.66	.....	.....	.....	.....	.9	17.0	12.5	31.3	22.3	9.8	6.3
	1909	112	64.0	.488	31.06	.....	.....	.....	.....	3.6	3.6	11.6	30.4	35.7	9.8	5.4
	1910	142	64.2	.502	31.87	.....	.....	.....	.....	.....	7.7	16.9	25.4	31.0	8.5	10.6
25 plants	1910	217	62.9	.507	31.73	.....	.....	.....	.....	.....	7.4	18.0	25.3	26.3	14.3	8.8
	1911	180	62.6	.512	31.97	.....	.....	.....	.....	.....	7.2	20.6	17.2	30.6	14.4	10.0
26 plants	1911	184	62.7	.510	31.87	.....	.....	.....	.....	.....	7.1	20.7	18.5	29.9	14.1	9.8
	1912	199	62.4	.482	29.84	.....	.....	.....	2.0	.....	11.6	22.6	18.1	20.6	18.6	6.5
Heaters' helpers:																
14 plants	1907	167	65.3	.246	15.77	.....	6.0	16.8	21.6	16.8	18.0	13.8	4.8	1.2	1.2	.....
	1908	153	65.1	.227	14.50	.....	9.2	21.6	23.5	19.0	9.8	12.4	3.3	1.3	.....	.....
	1909	151	65.0	.234	14.87	9.3	4.0	12.6	20.5	21.2	17.9	10.6	2.6	.....	1.3	.....
	1910	166	65.2	.262	16.70	.....	6.0	12.7	6.0	36.1	15.7	10.8	6.6	4.8	1.2	.....
24 plants	1910	295	62.6	.273	16.77	.7	5.1	7.1	7.1	30.2	16.6	25.1	3.7	3.7	.7	.....
	1911	281	62.5	.262	16.05	.....	4.6	8.9	8.5	34.5	16.0	20.3	3.6	3.6	.....	.....
25 plants	1911	293	62.7	.259	15.94	.....	5.8	9.2	8.2	34.1	16.0	19.8	3.4	3.4	.....	.....
	1912	319	62.2	.260	16.01	.....	6.6	5.6	11.0	29.8	20.1	20.1	5.0	.6	1.3	.....

[1] Including 6.7 per cent earning 10 and under 12 cents per hour.
[2] Including 2.3 per cent earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Chargers and helpers:																
12 plants	1907	104	65.5	$0.173	$11.34	1.9	46.2	28.8	7.7	9.6	4.8	1.0	.....	.....	.....	.....
	1908	102	65.6	.161	10.56	[1] 2.9	56.9	24.5	10.8	4.9	.....	.....	.....	.....	.....	.....
	1909	107	65.9	.161	10.60	15.0	47.7	18.7	11.2	7.5	.....	.....	.....	.....	.....	.....
	1910	110	66.3	.181	11.87	.....	21.8	45.5	16.4	9.1	7.3	.....	.....	.....	.....	.....
18 plants	1910	179	65.3	.192	12.40	.....	13.4	34.6	24.6	14.0	13.4	.....	.....	.....	.....	.....
	1911	177	65.1	.185	12.02	.....	21.5	39.0	13.6	21.5	3.4	1.1	.....	.....	.....	.....
19 plants	1911	185	64.8	.184	11.90	.....	22.7	39.5	13.0	20.5	3.2	1.1	.....	.....	.....	.....
	1912	182	65.0	.192	12.45	.....	12.6	47.8	9.9	15.4	13.2	1.1	.....	.....	.....	.....
Drag downs:																
11 plants	1907	86	64.4	.271	17.31	.....	10.5	4.7	11.6	22.1	16.3	23.3	7.0	4.7	.....	.....
	1908	82	63.9	.246	15.58	[2] 12.2	12.2	9.8	6.1	18.3	15.9	18.3	.....	7.3	.....	.....
	1909	83	64.0	.250	15.93	.....	19.3	7.2	6.0	16.9	24.1	21.7	4.8	.....	.....	.....
	1910	89	64.0	.286	18.19	.....	6.7	6.7	15.7	11.2	23.6	27.0	4.5	.....	.....	4.5
19 plants	1910	132	65.1	.269	17.44	.....	4.5	6.1	15.2	25.8	20.5	22.0	3.0	.....	.....	3.0
	1911	123	64.9	.262	16.88	3.3	4.9	6.5	4.1	34.1	28.5	12.2	3.3	.....	.....	3.3
20 plants	1911	127	64.7	.262	16.78	3.1	4.7	6.3	3.9	34.6	29.1	11.8	3.1	.....	.....	3.1
	1912	130	64.3	.253	16.12	1.5	15.4	3.1	7.7	23.8	20.8	21.5	6.2	.....	.....	.....
Roll engineers:																
13 plants	1907	58	72.3	.226	16.29	.....	.....	6.9	8.6	56.9	27.6	.....	.....	.....	.....	.....
	1908	56	71.4	.221	15.76	.....	.....	7.1	10.7	62.5	19.6	.....	.....	.....	.....	.....
	1909	56	71.5	.217	15.52	.....	7.1	.....	21.4	53.6	17.9	.....	.....	.....	.....	.....
	1910	58	71.7	.230	16.52	.....	.....	6.9	6.9	62.1	24.1	.....	.....	.....	.....	.....
22 plants	1910	99	72.0	.229	16.46	.....	.....	4.0	10.1	59.6	26.3	.....	.....	.....	.....	.....
	1911	95	70.4	.228	16.07	.....	.....	6.3	8.4	62.1	23.2	.....	.....	.....	.....	.....
	1912	97	70.0	.229	16.05	.....	.....	5.2	8.2	64.9	21.6	.....	.....	.....	.....	.....
Rollers, 8-inch:																
7 plants	1907	16	62.5	1.089	68.27	.....	.....	.....	.....	.....	.....	.....	.....	6.3	18.8	75.0
	1908	16	62.6	.970	60.88	.....	.....	.....	.....	.....	.....	6.3	.....	6.3	25.0	62.5
	1909	16	62.5	.956	60.31	.....	.....	.....	.....	.....	.....	6.3	12.5	.....	12.5	68.8
	1910	15	62.7	1.028	64.69	.....	.....	.....	.....	.....	.....	.....	20.0	6.7	13.3	60.0
11 plants	1910	28	59.0	.961	57.71	.....	.....	.....	.....	.....	.....	.....	17.9	10.7	17.9	53.6
	1911	29	58.0	.929	55.00	.....	.....	.....	.....	.....	.....	.....	6.9	17.2	24.1	51.7
	1912	29	58.0	.887	52.81	.....	.....	.....	.....	3.4	.....	.....	13.8	13.8	10.3	58.6
Rollers, 9-inch:																
6 plants	1907	12	66.7	1.038	69.72	.....	.....	.....	.....	.....	.....	.....	.....	16.7	16.7	66.7
	1908	11	67.7	.809	55.06	.....	.....	.....	.....	.....	.....	.....	9.1	18.2	18.2	54.5
	1909	11	67.1	.832	56.25	.....	.....	.....	.....	.....	.....	.....	18.2	.....	27.3	54.5
	1910	12	67.0	.969	65.03	.....	.....	.....	.....	.....	.....	.....	8.3	.....	41.7	50.0
11 plants	1910	24	63.2	.943	60.20	.....	.....	.....	.....	.....	.....	.....	4.2	4.2	33.3	58.3
	1911	22	63.5	.825	53.07	.....	.....	.....	.....	.....	.....	4.5	9.1	9.1	18.2	59.1
	1912	23	63.1	.808	51.36	.....	.....	.....	.....	.....	.....	.....	.....	17.4	17.4	65.2
Rollers, 10-inch:																
5 plants	1907	12	67.3	1.114	76.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.7	83.3
	1908	12	67.3	.974	66.06	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.0	75.0
	1909	12	67.0	1.095	73.38	.....	.....	.....	.....	.....	.....	.....	.....	8.3	.....	91.7
	1910	12	67.0	1.183	79.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	8.3	91.7
7 plants	1910	18	65.0	1.069	70.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.6	94.4
	1911	18	63.6	.967	56.28	.....	.....	.....	.....	.....	.....	.....	5.6	5.6	5.6	83.3
	1912	18	63.6	1.066	68.13	.....	.....	.....	.....	.....	.....	.....	.....	5.6	.....	94.4

[1] Including 1 per cent earning 10 and under 12 cents per hour.
[2] Including 2.4 per cent earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Rollers, 12-inch:																
7 plants	1907	15	68.1	$0.900	$61.69	.....	.....	.....	.....	.....	.....	.....	.....	13.3	13.3	73.3
	1908	13	69.9	.801	55.63	.....	.....	.....	.....	.....	.....	7.7	.....	15.4	15.4	61.5
	1909	13	69.8	.864	60.16	.....	.....	.....	.....	.....	.....	.....	.....	15.4	15.4	69.2
	1910	15	68.5	.888	61.05	.....	.....	.....	.....	.....	.....	6.7	.....	.....	20.0	73.3
13 plants	1910	27	64.4	.864	56.26	.....	.....	.....	.....	.....	.....	3.7	.....	3.7	22.2	70.4
	1911	24	64.9	.844	54.85	.....	.....	.....	.....	.....	.....	.....	.....	16.7	12.5	70.8
	1912	26	64.3	.831	53.75	.....	.....	.....	.....	.....	3.8	.....	.....	19.2	7.7	69.2
Rollers, 13-inch, 14-inch, and 15-inch:																
3 plants	1910	7	60.6	.835	48.77	.....	.....	.....	.....	.....	.....	.....	28.6	.....	.....	71.4
	1911	7	60.6	.676	39.73	.....	.....	.....	.....	.....	.....	.....	28.6	.....	57.1	14.3
	1912	7	60.6	.709	42.11	.....	.....	.....	.....	.....	.....	.....	.....	28.6	42.9	28.6
Rollers, 16-inch:																
4 plants	1907	7	63.3	.897	58.11	.....	.....	.....	.....	.....	.....	.....	.....	.....	42.9	57.1
	1908	7	63.3	.868	56.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	42.9	57.1
	1909	7	63.3	.850	54.77	.....	.....	.....	.....	.....	.....	.....	.....	28.6	.....	71.4
	1910	9	62.3	1.074	68.32	.....	.....	.....	.....	.....	.....	.....	.....	11.1	22.2	66.7
5 plants	1910	11	62.6	1.007	64.13	.....	.....	.....	.....	.....	.....	.....	.....	9.1	18.2	72.7
	1911	8	63.9	1.081	70.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.0	75.0
6 plants	1911	12	62.8	.929	59.52	.....	.....	.....	.....	.....	.....	.....	16.7	.....	16.7	66.7
	1912	12	62.4	.814	51.35	.....	.....	.....	.....	.....	.....	.....	.....	.....	50.0	50.0
Rollers, 18-inch:																
2 plants	1907	3	61.0	.942	58.06	.....	.....	.....	.....	.....	.....	.....	.....	.....	33.3	66.7
	1908	4	58.3	.684	39.66	.....	.....	.....	.....	.....	.....	25.0	.....	.....	.....	75.0
	1909	4	58.3	.753	43.79	.....	.....	.....	.....	.....	.....	.....	25.0	.....	.....	75.0
	1910	4	58.3	.860	49.92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100.0
5 plants	1910	9	60.8	.669	40.08	.....	.....	.....	.....	.....	.....	22.2	.....	22.2	.....	55.6
	1911	8	60.3	.771	46.69	.....	.....	.....	.....	.....	.....	.....	25.0	.....	.....	75.0
	1912	9	59.1	.751	44.76	.....	.....	.....	.....	.....	.....	.....	11.1	.....	33.3	55.6
Rollers, all sizes:																
13 plants	1907	65	65.5	1.013	66.88	.....	.....	.....	.....	.....	.....	.....	.....	7.7	20.0	72.3
	1908	63	65.7	.878	57.88	.....	.....	.....	.....	.....	.....	4.8	1.6	7.9	22.2	63.5
	1909	63	65.5	.917	60.40	.....	.....	.....	.....	.....	.....	1.6	7.9	7.9	11.1	71.4
	1910	67	65.2	1.010	66.23	.....	.....	.....	.....	.....	.....	1.5	6.0	3.0	19.4	70.1
22 plants	1910	124	62.4	.928	58.21	.....	.....	.....	.....	.....	.....	2.4	6.5	6.5	17.7	66.9
	1911	116	62.0	.882	55.26	.....	.....	.....	.....	.....	.....	.9	7.8	10.3	18.1	62.9
23 plants	1911	120	62.0	.873	54.65	.....	.....	.....	.....	.....	.....	.8	9.2	10.0	17.5	62.5
	1912	124	61.7	.860	53.63	.....	.....	.....	.....	0.8	.8	.....	4.0	12.9	16.9	64.5
Roughers, 8-inch:																
7 plants	1907	44	61.2	.397	24.40	.....	.....	.....	.....	.....	15.9	50.0	18.2	15.9	.....	.....
	1908	44	61.2	.373	22.76	.....	.....	.....	.....	.....	31.8	6.8	61.4	.....	.....	.....
	1909	44	61.0	.363	22.28	.....	.....	.....	.....	.....	13.6	63.6	20.5	2.3	.....	.....
	1910	41	61.2	.393	24.14	.....	.....	.....	.....	.....	22.0	39.0	17.1	22.0	.....	.....
11 plants	1910	84	57.5	.368	21.49	.....	.....	.....	.....	7.1	32.1	31.0	11.9	17.9	.....	.....
	1911	81	56.0	.347	19.68	.....	.....	.....	.....	7.4	18.5	53.1	16.0	4.9	.....	.....
	1912	79	56.0	.336	19.03	.....	.....	.....	.....	7.6	35.4	29.1	26.6	1.3	.....	.....
Roughers, 9-inch:																
7 plants	1907	58	56.3	.564	29.94	.....	.....	.....	.....	.....	5.2	22.4	20.7	13.8	.....	37.9
	1908	54	60.4	.392	23.30	.....	.....	.....	.....	11.1	.....	37.0	37.0	14.8	.....	.....
	1909	54	56.5	.422	23.20	.....	.....	.....	.....	.....	16.7	22.2	29.6	31.5	.....	.....
	1910	58	56.9	.454	25.14	.....	.....	.....	.....	.....	20.7	6.9	34.5	27.6	10.3	.....
12 plants	1910	88	58.2	.449	25.69	.....	.....	.....	.....	.....	18.2	6.8	43.2	25.0	6.8	.....
	1911	83	57.4	.414	23.87	.....	.....	.....	.....	.....	16.9	34.9	28.9	14.5	4.8	.....
	1912	84	57.2	.429	24.17	.....	.....	.....	.....	.....	20.2	16.7	26.2	27.4	9.5	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Roughers, 10-inch:																
5 plants	1907	33	64.4	$0.441	$29.11	.....	.....	.....	.....	24.2	.....	9.1	12.1	54.5	.....	.....
	1908	37	65.2	.323	21.09	.....	.....	.....	.....	21.6	16.2	40.5	21.6	.....	.....	.....
	1909	37	65.0	.370	23.73	.....	.....	.....	.....	.....	32.4	37.8	18.9	10.8	.....	.....
	1910	38	64.8	.395	25.40	.....	.....	.....	.....	.....	23.7	31.6	15.8	28.9	.....	.....
7 plants	1910	51	64.8	.412	26.45	.....	.....	.....	.....	.....	.....	54.9	23.5	21.6	.....	.....
	1911	51	63.3	.366	22.72	.....	.....	.....	.....	.....	5.9	56.9	33.3	3.9	.....	.....
	1912	51	63.3	.399	24.69	.....	.....	.....	.....	.....	11.8	39.2	35.3	13.7	.....	.....
Roughers, 12-inch:																
8 plants	1907	62	64.5	.416	27.10	.....	.....	.....	.....	.....	9.7	38.7	45.2	6.5	.....	.....
	1908	55	64.1	.301	19.45	.....	.....	.....	.....	20.0	32.7	40.0	7.3	.....	.....	.....
	1909	54	67.7	.351	23.77	.....	.....	.....	.....	.....	16.7	72.2	11.1	.....	.....	.....
	1910	58	67.5	.400	27.06	.....	.....	.....	.....	.....	.....	58.6	41.4	.....	.....	.....
14 plants	1910	89	64.6	.397	25.80	.....	.....	.....	.....	.....	11.2	43.8	41.6	3.4	.....	.....
	1911	81	65.3	.361	23.35	.....	.....	.....	.....	.....	27.2	51.9	12.3	8.6	.....	.....
	1912	85	64.4	.391	25.24	.....	.....	.....	.....	4.7	8.2	54.1	7.1	25.9	.....	.....
Roughers, 13-inch, 14-inch, and 15-inch:																
1 plant	1907	12	60.0	.289	17.34	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....
	1908	12	60.0	.250	15.00	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....
	1909	12	60.0	.262	15.72	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....
	1910	12	60.0	.289	17.34	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....
5 plants	1910	48	61.5	.379	22.89	.....	.....	.....	.....	.....	25.0	45.8	22.9	6.3	.....	.....
	1911	46	61.2	.338	20.51	.....	.....	.....	.....	.....	30.4	54.3	15.2	.....	.....	.....
	1912	47	61.4	.364	22.23	.....	.....	.....	.....	.....	25.5	23.4	51.1	.....	.....	.....
Roughers, 16-inch:																
5 plants	1907	36	63.0	.349	22.20	.....	.....	.....	.....	22.2	.....	66.7	11.1	.....	.....	.....
	1908	32	63.1	.349	22.23	.....	.....	.....	.....	25.0	.....	31.3	43.8	.....	.....	.....
	1909	34	63.4	.347	22.22	.....	.....	.....	.....	23.5	.....	35.3	41.2	.....	.....	.....
	1910	42	62.2	.390	24.65	.....	.....	.....	.....	33.3	.....	14.3	33.3	19.0	.....	.....
	1911	34	63.4	.415	26.55	.....	.....	.....	.....	23.5	11.8	.....	29.4	35.3	.....	.....
6 plants	1911	42	62.3	.415	26.05	.....	.....	.....	.....	19.0	9.5	4.8	38.1	28.6	.....	.....
	1912	40	61.8	.381	23.63	.....	.....	.....	.....	35.0	.....	20.0	30.0	5.0	10.0	.....
Roughers, 18-inch:																
2 plants	1907	7	62.0	.384	23.68	.....	.....	.....	.....	.....	.....	85.7	.....	14.3	.....	.....
	1908	8	60.5	.348	20.83	.....	.....	.....	.....	.....	.....	75.0	25.0	.....	.....	.....
	1909	8	60.5	.380	22.73	.....	.....	.....	.....	.....	.....	75.0	12.5	12.5	.....	.....
	1910	8	60.5	.523	31.55	.....	.....	.....	.....	.....	.....	.....	.....	100.0	.....	.....
5 plants	1910	23	59.4	.414	24.92	.....	.....	.....	.....	26.1	.....	.....	26.1	47.8	.....	.....
	1911	19	60.3	.444	26.73	.....	.....	.....	.....	.....	10.5	31.6	.....	57.9	.....	.....
	1912	22	58.9	.465	27.34	.....	.....	.....	.....	.....	9.1	.....	68.2	22.7	.....	.....
Roughers, all sizes:																
15 plants	1907	252	61.5	.434	26.28	.....	.....	.....	.....	6.3	11.1	36.5	22.2	15.1	....	8.7
	1908	242	62.5	.343	21.35	.....	.....	.....	.....	13.6	20.7	31.4	31.0	3.3	.....	.....
	1909	243	62.4	.368	22.72	.....	.....	.....	.....	3.3	19.8	45.7	21.8	9.5	.....	.....
	1910	257	62.3	.407	25.21	.....	.....	.....	.....	5.4	16.3	28.0	27.6	20.2	2.3	.....
25 plants	1910	425	61.0	.402	24.51	.....	.....	.....	.....	6.1	15.3	29.9	30.1	17.2	1.4	.....
	1911	395	60.6	.376	22.65	.....	.....	.....	.....	3.5	18.7	44.1	20.5	12.2	1.0	.....
26 plants	1911	403	60.5	.377	22.68	.....	.....	.....	.....	3.5	18.4	43.7	21.6	11.9	1.0	.....
	1912	408	60.2	.389	23.36	.....	.....	.....	.....	5.9	17.6	29.9	28.9	14.7	2.9	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Catchers, 8-inch:																
3 plants	1907	18	56.6	$0.362	$20.48	.....	.....	.....	.....	11.1	.....	66.7	22.2	.....	.....	.....
	1908	18	56.6	.350	19.66	.....	.....	.....	.....	11.1	11.1	33.3	44.4	.....	.....	.....
	1909	18	56.6	.335	18.90	.....	.....	.....	.....	.....	11.1	88.9	.....	.....	.....	.....
	1910	17	56.4	.371	20.97	.....	.....	.....	.....	5.9	.....	82.4	11.8	.....	.....	.....
6 plants	1910	26	54.3	.351	19.14	.....	.....	.....	.....	11.5	11.5	65.4	11.5	.....	.....	.....
	1911	27	54.1	.319	17.32	.....	.....	.....	7.4	7.4	.....	85.2	.....	.....	.....	.....
	1912	25	54.1	.340	18.48	.....	.....	4.0	.....	4.0	16.0	48.0	28.0	.....	.....	.....
Catchers, 9-inch:																
2 plants	1907	12	58.0	.474	27.30	.....	.....	.....	.....	.....	.....	.....	33.3	66.7	.....	.....
	1908	12	58.0	.455	25.94	.....	.....	.....	.....	.....	.....	33.3	.....	66.7	.....	.....
	1909	12	58.0	.495	28.68	.....	.....	.....	.....	.....	.....	.....	33.3	66.7	.....	.....
	1910	12	58.0	.526	30.37	.....	.....	.....	.....	.....	.....	.....	33.3	66.7	.....	.....
4 plants	1910	17	56.5	.499	28.19	.....	.....	.....	.....	.....	.....	.....	52.9	47.1	.....	.....
	1911	17	56.8	.440	24.76	.....	.....	.....	.....	.....	11.8	41.2	.....	47.1	.....	.....
	1912	15	55.7	.508	27.86	.....	.....	.....	.....	.....	26.7	20.0	.....	.....	53.3	.....
Catchers, 10-inch:																
1 plant	1907	10	72.0	.352	25.35	.....	.....	.....	.....	.....	.....	90.0	10.0	.....	.....	.....
	1908	10	72.0	.377	27.14	.....	.....	.....	.....	.....	.....	70.0	30.0	.....	.....	.....
	1909	10	71.5	.379	27.06	.....	.....	.....	.....	.....	.....	70.0	30.0	.....	.....	.....
	1910	10	71.5	.456	32.63	.....	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....
3 plants	1910	16	66.8	.383	26.24	.....	.....	.....	.....	25.0	12.5	.....	62.5	.....	.....	.....
	1911	16	65.9	.365	24.46	.....	.....	.....	6.3	6.3	18.8	18.8	50.0	.....	.....	.....
	1912	16	65.9	.419	28.23	.....	.....	.....	.....	.....	25.0	12.5	50.0	12.5	.....	.....
Catchers, 12-inch:																
5 plants	1907	16	65.6	.446	29.52	.....	.....	.....	.....	25.0	.....	12.5	6.3	56.3	.....	.....
	1908	17	64.1	.317	20.42	.....	.....	.....	.....	.....	41.2	52.9	.....	.....	5.9	.....
	1909	17	63.9	.349	22.61	.....	.....	.....	.....	23.5	11.8	47.1	11.8	.....	.....	5.9
	1910	18	63.7	.411	26.37	.....	.....	.....	.....	.....	22.2	22.2	44.4	11.1	.....	.....
10 plants	1910	28	62.5	.403	25.40	.....	.....	.....	.....	.....	21.4	32.1	32.1	14.3	.....	.....
	1911	27	62.1	.368	22.90	.....	.....	.....	.....	7.4	14.8	55.6	18.5	.....	.....	3.7
	1912	29	61.7	.348	21.52	.....	.....	.....	.....	13.8	20.7	41.4	17.2	6.9	.....	.....
Catchers, 13-inch, 14-inch, and 15-inch:																
3 plants	1910	7	61.7	.458	27.63	.....	.....	.....	.....	.....	.....	28.6	28.6	42.9	.....	.....
	1911	7	61.7	.392	23.92	.....	.....	.....	.....	.....	.....	71.4	28.6	.....	.....	.....
	1912	7	61.7	.407	24.70	.....	.....	.....	.....	.....	.....	57.1	42.9	.....	.....	.....
Catchers, 16-inch:																
4 plants	1907	10	64.5	.636	41.02	.....	.....	.....	.....	.....	.....	40.0	20.0	.....	.....	40.0
	1908	9	65.0	.499	32.46	.....	.....	.....	.....	.....	22.2	33.3	.....	22.2	.....	22.2
	1909	9	65.0	.552	36.02	.....	.....	.....	.....	.....	.....	44.4	.....	22.2	.....	33.3
	1910	12	64.6	.547	35.32	.....	.....	.....	.....	.....	.....	.....	33.3	33.3	33.3	.....
	1911	9	65.0	.664	43.23	.....	.....	.....	.....	.....	.....	.....	44.4	22.2	11.1	22.2
	1912	9	64.5	.511	33.00	.....	.....	.....	.....	.....	.....	.....	77.8	.....	.....	22.2
Catchers, 18-inch:																
2 plants	1907	3	61.0	.423	25.96	.....	.....	.....	.....	.....	.....	33.3	33.3	33.3	.....	.....
	1908	4	58.3	.314	18.51	.....	.....	.....	.....	.....	50.0	50.0	.....	.....	.....	.....
	1909	4	58.3	.346	20.40	.....	.....	.....	.....	.....	25.0	50.0	25.0	.....	.....	.....
	1910	4	58.3	.466	27.72	.....	.....	.....	.....	.....	.....	50.0	.....	50.0	.....	.....
5 plants	1910	9	58.6	.375	22.36	.....	.....	.....	22.2	.....	.....	44.4	11.1	22.2	.....	.....
	1911	8	59.0	.369	21.99	.....	.....	.....	.....	12.5	25.0	25.0	12.5	25.0	.....	.....
	1912	9	58.0	.391	22.87	.....	.....	.....	.....	11.1	.....	44.4	22.2	22.2	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Catchers, all sizes:																
11 plants	1907	69	62.5	$0.442	$27.68	.....	.....	.....	.....	8.7	.....	40.6	18.8	26.1	.....	5.8
	1908	70	62.0	.381	23.57	.....	.....	.....	.....	2.9	18.6	44.3	15.7	14.3	1.4	2.9
	1909	70	61.9	.400	24.93	.....	.....	.....	.....	5.7	7.1	52.9	14.3	14.3	.....	5.7
	1910	73	62.0	.452	28.17	.....	.....	.....	.....	1.4	5.5	27.4	38.4	21.9	5.5	.....
20 plants	1910	115	60.2	.419	25.45	.....	.....	.....	1.7	6.1	9.6	27.8	33.0	18.3	3.5	.....
	1911	111	59.9	.392	23.70	.....	.....	.....	2.7	5.4	9.9	49.5	18.0	10.8	.9	2.7
	1912	110	59.7	.399	23.92	.....	.....	0.9	.....	5.5	16.4	33.6	29.1	5.5	7.3	1.8
Stranders, 8-inch:																
7 plants	1907	56	62.6	.305	19.11	.....	.....	.....	3.6	35.7	19.6	19.6	10.7	10.7	.....	.....
	1908	56	62.8	.267	16.77	1.8	1.8	.....	.....	32.1	35.7	28.6	.....	.....	.....	.....
	1909	56	62.7	.274	17.22	.....	1.8	1.8	.....	32.1	39.3	25.0	.....	.....	.....	.....
	1910	54	62.8	.305	19.11	.....	3.7	.....	.....	11.1	44.4	33.3	7.4	.....	.....	.....
11 plants	1910	75	61.6	.275	17.00	[1] 5.3	2.7	6.7	.....	20.0	34.7	25.3	5.3	.....	.....	.....
	1911	73	60.4	.249	15.12	[1] 5.3	.....	5.5	15.1	27.4	19.2	27.4	.....	.....	.....	.....
	1912	73	60.4	.244	14.88	[1] 6.8	2.7	5.5	9.6	19.2	35.6	20.5	.....	.....	.....	.....
Stranders, 9-inch:																
6 plants	1907	41	56.2	.395	20.75	.....	.....	4.9	.....	22.0	14.6	14.6	.....	22.0	22.0	.....
	1908	39	56.4	.276	15.10	5.1	.....	.....	23.1	5.1	15.4	51.3	.....	.....	.....	.....
	1909	39	56.3	.287	15.75	2.6	2.6	2.6	.....	20.5	25.6	46.2	.....	.....	.....	.....
	1910	39	56.3	.332	18.28	.....	5.1	.....	.....	5.1	23.1	66.7	.....	.....	.....	.....
10 plants	1910	64	59.1	.289	16.64	.....	3.1	.....	9.4	29.7	14.1	43.8	.....	.....	.....	.....
	1911	62	58.6	.247	14.39	.....	4.8	4.8	17.7	27.4	29.0	11.3	4.8	.....	.....	.....
	1912	61	58.0	.235	13.44	3.3	6.6	9.8	14.8	23.0	14.8	27.9	.....	.....	.....	.....
Stranders, 10-inch:																
5 plants	1907	43	55.1	.354	19.47	.....	.....	.....	9.3	.....	.....	90.7	.....	.....	.....	.....
	1908	43	55.1	.320	17.08	.....	.....	.....	9.3	18.6	4.7	67.4	.....	.....	.....	.....
	1909	43	55.0	.378	19.95	.....	.....	.....	.....	.....	23.3	48.8	27.9	.....	.....	.....
	1910	43	55.0	.444	23.09	.....	.....	.....	.....	9.3	.....	41.9	.....	48.8	.....	.....
7 plants	1910	57	57.7	.390	21.13	.....	.....	7.0	.....	14.0	10.5	31.6	.....	36.8	.....	.....
	1911	57	56.7	.322	17.35	.....	5.3	1.8	8.8	15.8	15.8	15.8	36.8	.....	.....	.....
	1912	57	56.7	.370	19.71	.....	.....	.....	1.8	19.3	26.3	15.8	15.8	21.1	.....	.....
Stranders, 12-inch:																
3 plants	1907	13	69.0	.352	24.53	.....	.....	.....	.....	.....	23.1	15.4	61.5	.....	.....	.....
	1908	14	70.4	.284	19.99	.....	.....	.....	.....	.....	85.7	14.3	.....	.....	.....	.....
	1909	14	70.4	.293	20.62	.....	.....	.....	.....	.....	28.6	71.4	.....	.....	.....	.....
	1910	16	69.1	.411	28.82	.....	.....	.....	.....	.....	25.0	12.5	62.5	.....	.....	.....
9 plants	1910	48	64.4	.286	18.71	.....	.....	.....	8.3	50.0	8.3	12.5	20.8	.....	.....	.....
	1911	40	65.3	.271	17.71	.....	.....	.....	40.0	15.0	5.0	37.5	2.5	.....	.....	.....
	1912	43	64.7	.309	20.38	.....	.....	.....	32.6	14.0	18.6	11.6	.....	23.3	.....	.....
Stranders, 13-inch, 14-inch, and 15-inch:																
1 plant	1907	20	60.0	.233	14.00	.....	10.0	10.0	.....	40.0	40.0	.....	.....	.....	.....	.....
	1908	20	60.0	.201	12.06	.....	10.0	10.0	.....	80.0	.....	.....	.....	.....	.....	.....
	1909	20	60.0	.211	12.65	.....	10.0	10.0	.....	80.0	.....	.....	.....	.....	.....	.....
	1910	26	60.0	.224	13.46	.....	.....	7.7	30.8	30.8	30.8	.....	.....	.....	.....	.....
	1911	20	60.0	.221	13.25	.....	.....	20.0	.....	80.0	.....	.....	.....	.....	.....	.....
	1912	22	60.0	.217	13.01	.....	.....	27.3	.....	72.7	.....	.....	.....	.....	.....	.....

[1] Including 2.7 per cent earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Stranders, 16-inch:																
1 plant	1907	2	65.0	$0.361	$23.47	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....
	1908	2	65.0	.344	22.36	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....
	1909	2	65.0	.299	19.44	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....
	1910	2	65.0	.484	31.46	.....	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....
	1911	2	65.0	.480	31.20	.....	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....
2 plants	1911	10	57.0	.424	24.28	.....	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....
	1912	10	57.0	.405	22.86	.....	.....	.....	.....	.....	.....	20.0	80.0	.....	.....	.....
Stranders, all sizes:																
13 plants	1907	175	59.5	.334	19.45	.....	1.1	2.3	3.4	21.1	16.0	34.3	8.0	8.6	5.1	.....
	1908	174	59.7	.277	16.25	1.7	1.7	1.1	7.5	25.3	23.0	39.7	.....	.....	.....	.....
	1909	174	59.7	.297	17.34	.6	2.3	2.3	....	24.1	27.6	36.2	6.9	.....	.....	.....
	1910	180	59.7	.344	20.06	.....	2.2	1.1	4.4	11.1	25.0	35.6	8.9	11.7	.....	.....
21 plants	1910	272	60.6	.301	17.85	[1] 1.5	1.5	4.0	6.6	27.2	19.5	26.1	5.9	7.7	.....	.....
	1911	254	59.9	.268	15.83	[2] 1.6	2.4	4.7	16.9	26.8	16.9	20.1	10.6	.....	.....	.....
22 plants	1911	262	59.8	.272	16.03	[2] 1.5	2.3	4.6	16.4	26.0	16.4	19.5	13.4	.....	.....	.....
	1912	266	59.6	.283	16.62	[2] 2.7	2.3	6.0	11.7	22.9	21.8	18.0	6.4	8.3	.....	.....
Finishers, 8-inch:																
6 plants	1907	14	64.5	.298	19.43	.....	.....	.....	14.3	28.6	14.3	28.6	7.1	7.1	.....	.....
	1908	14	64.8	.277	18.03	.....	.....	.....	14.3	28.6	21.4	21.4	14.3	.....	.....	.....
	1909	14	64.7	.290	18.77	.....	.....	.....	14.3	14.3	14.3	42.9	14.3	.....	.....	.....
	1910	13	65.1	.309	20.19	.....	.....	.....	.....	15.4	30.8	38.5	15.4	.....	.....	.....
9 plants	1910	24	60.6	.303	18.24	.....	.....	8.3	....	8.3	29.2	45.8	8.3	.....	.....	.....
	1911	25	59.6	.302	18.01	.....	.....	8.0	....	8.0	36.0	40.0	4.0	4.0	.....	.....
	1912	25	59.6	.295	17.60	.....	.....	8.0	....	12.0	36.0	36.0	4.0	4.0	.....	.....
Finishers, 9-inch:																
5 plants	1907	15	66.8	.244	16.24	[3] 13.3	.....	.....	13.3	26.7	33.3	.....	13.3	.....	.....	.....
	1908	14	67.9	.245	16.53	7.1	14.3	.....	.....	28.6	35.7	14.3	.....	.....	.....	.....
	1909	14	67.8	.254	17.10	7.1	.....	7.1	7.1	28.6	35.7	14.3	.....	.....	.....	.....
	1910	14	67.8	.261	17.58	7.1	.....	14.3	.....	28.6	35.7	.....	14.3	.....	.....	.....
9 plants	1910	24	64.3	.287	17.98	4.2	.....	8.3	.....	25.0	37.5	4.2	20.8	.....	.....	.....
	1911	23	63.8	.272	17.18	4.3	.....	4.3	4.3	26.1	30.4	21.7	8.7	.....	.....	.....
	1912	24	63.4	.282	17.61	4.2	.....	4.2	4.2	16.7	37.5	25.0	8.3	.....	.....	.....
Finishers, 10-inch:																
4 plants	1907	10	68.0	.396	27.29	.....	.....	.....	.....	.....	20.0	20.0	40.0	20.0	.....	.....
	1908	10	68.0	.342	23.48	.....	.....	.....	.....	.....	40.0	40.0	20.0	.....	.....	.....
	1909	10	67.7	.387	26.16	.....	.....	.....	.....	.....	.....	50.0	50.0	.....	.....	.....
	1910	10	67.7	.412	28.19	.....	.....	.....	.....	.....	.....	60.0	20.0	20.0	.....	.....
5 plants	1910	12	69.3	.376	26.20	.....	.....	.....	.....	16.7	16.7	33.3	16.7	16.7	.....	.....
	1911	12	68.4	.329	22.72	.....	.....	8.3	8.3	16.7	16.7	16.7	25.0	8.3	.....	.....
	1912	12	68.4	.358	24.73	.....	.....	.....	.....	.....	41.7	33.3	8.3	16.7	.....	.....
Finishers, 12-inch:																
4 plants	1907	12	69.3	.336	23.28	.....	.....	.....	.....	.....	50.0	16.7	33.3	.....	.....	.....
	1908	11	70.5	.271	19.04	.....	.....	18.2	....	18.2	36.4	18.2	9.1	.....	.....	.....
	1909	11	70.4	.297	20.85	.....	.....	.....	.....	18.2	36.4	36.4	9.1	.....	.....	.....
	1910	12	69.5	.359	24.97	.....	.....	.....	.....	.....	33.3	33.3	16.7	16.7	.....	.....
8 plants	1910	20	65.8	.349	22.74	.....	.....	.....	.....	.....	35.0	30.0	25.0	10.0	.....	.....
	1911	19	65.2	.324	20.78	.....	.....	.....	.....	31.6	26.3	10.5	26.3	5.3	.....	.....
10 plants	1911	22	63.7	.309	19.51	.....	.....	.....	9.1	27.3	27.3	9.1	22.7	4.5	.....	.....
	1912	24	63.0	.311	19.81	.....	.....	.....	8.3	20.8	41.7	12.5	8.3	.....	8.3	.....

[1] Including 0.7 per cent earning 10 and under 12 cents per hour.
[2] Including 0.8 per cent earning 10 and under 12 cents per hour.
[3] Including 6.7 per cent earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Finishers, 13-inch, 14-inch, and 15-inch:																
1 plant	1907	4	60.0	$0.315	$18.90	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....
	1908	4	60.0	.275	16.50	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....
	1909	4	60.0	.289	17.34	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....
	1910	4	60.0	.316	18.96	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....
4 plants	1910	15	64.0	.339	21.01	.....	.....	.....	.....	.....	40.0	40.0	.....	20.0	.....	.....
	1911	15	64.0	.316	19.83	.....	.....	.....	.....	.....	26.7	66.7	6.7	.....	.....	.....
	1912	15	64.0	.319	19.97	.....	.....	.....	.....	.....	26.7	53.3	20.0	.....	.....	.....
Finishers, 16-inch:																
2 plants	1907	8	62.8	.262	16.39	.....	.....	.....	.....	50.0	50.0	.....	.....	.....	.....	.....
	1908	8	62.8	.242	15.11	.....	.....	.....	.....	62.5	37.5	.....	.....	.....	.....	.....
	1909	8	62.8	.265	16.68	.....	.....	.....	.....	25.0	75.0	.....	.....	.....	.....	.....
	1910	9	62.2	.310	19.37	.....	.....	.....	.....	.....	33.3	66.7	.....	.....	.....	.....
3 plants	1910	11	62.5	.324	20.34	.....	.....	.....	.....	.....	27.3	72.7	.....	.....	.....	.....
	1911	11	63.5	.325	20.73	.....	.....	.....	.....	.....	18.2	81.8	.....	.....	.....	.....
4 plants	1911	19	61.1	.363	22.08	.....	.....	.....	.....	.....	10.5	57.9	31.6	.....	.....	.....
	1912	20	61.1	.377	22.77	.....	.....	10.0	.....	.....	40.0	10.0	20.0	.....	20.0	.....
Finishers, 18-inch:																
1 plant	1907	2	62.8	.435	27.30	.....	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....
	1908	2	62.8	.417	26.25	.....	.....	.....	.....	.....	.....	50.0	50.0	.....	.....	.....
	1909	2	62.8	.438	27.48	.....	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....
	1910	2	62.8	.438	27.48	.....	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....
3 plants	1910	5	61.9	.303	19.15	.....	.....	.....	.....	60.0	.....	.....	40.0	.....	.....	.....
	1911	5	60.7	.350	21.38	.....	.....	.....	.....	.....	20.0	40.0	40.0	.....	.....	.....
	1912	6	58.9	.336	20.02	.....	.....	.....	.....	.....	33.3	33.3	33.3	.....	.....	.....
Finishers, all sizes:																
10 plants	1907	65	65.9	.309	20.45	[1] 3.0	.....	.....	6.2	18.5	29.2	18.5	20.0	4.6	.....	.....
	1908	63	66.4	.279	18.53	1.6	3.2	3.2	3.2	23.8	36.5	19.0	9.5	.....	.....	.....
	1909	63	66.2	.300	19.85	1.6	.....	1.6	4.8	15.9	33.3	27.0	15.9	.....	.....	.....
	1910	64	66.1	.329	21.80	1.6	.....	3.1	.....	9.4	25.0	39.1	15.6	6.3	.....	.....
17 plants	1910	111	64.0	.323	20.48	.9	.....	3.6	.....	11.7	30.6	32.4	14.4	6.3	.....	.....
	1911	110	63.4	.309	19.50	.9	.....	3.6	1.8	14.5	27.3	36.4	12.7	2.7	.....	.....
19 plants	1911	121	62.8	.313	19.60	.8	.....	3.3	3.3	13.2	25.6	34.7	16.5	2.5	.....	.....
	1912	126	62.5	.319	19.92	.8	.....	4.0	2.4	9.5	37.3	27.0	11.9	2.4	4.8	.....
Hook ups, 12-inch:																
6 plants	1907	49	64.8	.289	18.98	.....	.....	.....	.....	24.5	42.9	32.7	.....	.....	.....	.....
	1908	37	69.1	.230	15.75	.....	5.4	16.2	5.4	48.6	13.5	10.8	.....	.....	.....	.....
	1909	37	68.9	.241	16.46	.....	.....	.....	10.8	54.1	27.0	8.1	.....	.....	.....	.....
	1910	37	69.9	.318	22.33	.....	.....	.....	.....	21.6	32.4	8.1	37.8	.....	.....	.....
13 plants	1910	69	62.8	.282	17.93	.....	1.4	2.9	5.8	20.3	44.9	4.3	20.3	.....	.....	.....
	1911	53	63.4	.244	15.38	.....	5.7	11.3	18.9	13.2	28.3	22.6	.....	.....	.....	.....
	1912	56	62.5	.269	17.15	.....	3.6	3.6	21.4	17.9	26.8	12.5	14.3	.....	.....	.....
Hook ups, 13-inch, 14-inch, and 15-inch:																
1 plant	1907	8	60.0	.184	11.04	.....	.....	50.0	50.0	.....	.....	.....	.....	.....	.....	.....
	1908	14	60.0	.163	9.77	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....	.....
	1909	8	60.0	.173	10.40	.....	.....	75.0	25.0	.....	.....	.....	.....	.....	.....	.....
	1910	12	60.0	.197	11.84	.....	.....	.....	66.7	33.3	.....	.....	.....	.....	.....	.....
5 plants	1910	50	64.2	.237	14.66	.....	.....	14.0	36.0	16.0	16.0	18.0	.....	.....	.....	.....
	1911	45	64.2	.225	14.06	.....	.....	6.7	40.0	33.3	.....	20.0	.....	.....	.....	.....
	1912	51	63.8	.229	14.29	.....	.....	19.6	31.4	15.7	15.7	17.6	.....	.....	.....	.....

[1] Includ ing 1.5 per cent earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts and over.
Hook ups, 16-inch:																
5 plants	1907	26	63.9	$0.263	$16.91	15.4	....	7.7	....	....	61.5	7.7	7.7	.....	.....	.....
	1908	23	64.4	.269	17.35	.....	....	13.0	8.7	21.7	4.3	52.2	.....	.....	.....	.....
	1909	27	64.7	.274	17.80	.....	7.4	.....	.....	14.8	37.0	40.7	.....	.....	.....	.....
	1910	35	64.1	.326	20.97	.....	.....	.....	5.7	.....	5.7	77.1	5.7	5.7	.....	.....
	1911	25	64.4	.337	21.83	.....	.....	.....	8.0	.....	4.0	72.0	8.0	8.0	.....	.....
6 plants	1911	35	62.4	.308	19.43	.....	.....	.....	14.3	.....	22.9	51.4	5.7	5.7	.....	.....
	1912	36	61.5	.269	16.61	.....	.....	.....	11.1	11.1	61.1	16.7	.....	.....	.....	.....
Hook ups, 18-inch:																
2 plants	1907	9	62.2	.238	14.83	.....	.....	33.3	.....	33.3	33.3	.....	.....	.....	.....	.....
	1908	10	61.0	.190	11.64	10.0	30.0	.....	.....	60.0	.....	.....	.....	.....	.....	.....
	1909	10	61.0	.202	12.39	.....	30.0	10.0	.....	60.0	.....	.....	.....	.....	.....	.....
	1910	9	60.8	.294	18.13	.....	.....	22.2	11.1	.....	.....	66.7	.....	.....	.....	.....
5 plants	1910	20	60.4	.227	13.85	10.0	15.0	20.0	15.0	10.0	.....	30.0	.....	.....	.....	.....
	1911	21	60.5	.221	13.48	[1] 19.0	19.0	4.8	14.3	14.3	.....	28.6	.....	.....	.....	.....
	1912	24	59.2	.217	12.93	8.3	8.3	16.7	12.5	29.2	.....	25.0	.....	.....	.....	.....
Hook ups, all sizes:																
12 plants	1907	92	63.9	.268	17.30	4.3	....	9.8	4.3	16.3	43.5	19.6	2.2	.....	.....	.....
	1908	84	65.3	.225	14.70	1.2	6.0	27.4	4.8	34.5	7.1	19.0	.....	.....	.....	.....
	1909	82	65.7	.241	15.82	.....	6.1	8.5	7.3	36.6	24.4	17.1	.....	.....	.....	.....
	1910	93	65.6	.303	20.06	.....	.....	2.2	11.8	12.9	15.1	38.7	17.2	2.2	.....	.....
20 plants	1910	174	63.2	.272	17.13	1.1	2.3	7.5	15.5	13.8	23.6	25.9	9.2	1.1	.....	.....
	1911	144	63.4	.251	15.81	[2] 2.8	4.9	6.9	22.9	17.4	11.1	31.2	1.4	1.4	.....	.....
21 plants	1911	154	63.0	.250	15.66	[3] 2.6	4.5	6.5	23.4	16.2	14.9	29.2	1.3	1.3	.....	.....
	1912	167	62.2	.249	15.56	1.2	2.4	9.6	21.0	17.4	26.9	16.8	4.8	.....	.....	.....
Roll hands, other, 8-inch:																
5 plants	1907	20	65.1	.250	16.20	.....	10.0	20.0	10.0	10.0	15.0	35.0	.....	.....	.....	.....
	1908	20	65.3	.237	15.29	[4] 15.0	25.0	.....	.....	20.0	15.0	15.0	10.0	.....	.....	.....
	1909	20	65.1	.235	15.15	10.0	25.0	5.0	.....	30.0	5.0	15.0	10.0	.....	.....	.....
	1910	20	65.1	.257	16.51	10.0	10.0	20.0	.....	10.0	20.0	15.0	10.0	5.0	.....	.....
9 plants	1910	33	60.6	.251	15.01	[5] 12.1	12.1	12.1	.....	6.1	30.3	18.2	6.1	3.0	.....	.....
	1911	33	60.0	.253	15.04	[6] 6.1	6.1	21.2	3.0	9.1	24.2	24.2	6.1	.....	.....	.....
	1912	33	60.0	.248	14.75	[7] 15.2	3.0	15.2	3.0	12.1	27.3	18.2	3.0	3.0	.....	.....
Roll hands, other, 9-inch:																
3 plants	1907	18	59.7	.224	12.91	.....	.....	44.4	11.1	.....	33.3	11.1	.....	.....	.....	.....
	1908	18	60.4	.223	12.95	.....	11.1	44.4	.....	.....	33.3	11.1	.....	.....	.....	.....
	1909	18	60.3	.222	12.90	.....	.....	55.6	.....	.....	33.3	11.1	.....	.....	.....	.....
	1910	18	60.3	.234	13.64	.....	.....	11.1	44.4	.....	33.3	11.1	.....	.....	.....	.....
6 plants	1910	35	56.5	.267	14.49	.....	5.7	5.7	22.9	5.7	20.0	31.4	8.6	.....	.....	.....
	1911	35	56.1	.242	13.24	5.7	2.9	28.6	.....	25.7	17.1	14.3	5.7	.....	.....	.....
	1912	36	56.3	.257	14.05	5.6	2.8	30.6	.....	5.6	36.1	13.9	.....	5.6	.....	.....
Roll hands, other, 10-inch:																
4 plants	1907	29	70.4	.388	27.24	.....	.....	.....	.....	3.4	.....	75.9	3.4	17.2	.....	.....
	1908	29	70.4	.327	22.89	.....	.....	.....	.....	41.4	17.2	17.2	10.3	13.8	.....	.....
	1909	29	70.0	.346	24.04	.....	.....	.....	.....	3.4	51.7	20.7	10.3	10.3	3.4	.....
	1910	29	70.0	.409	28.38	.....	.....	.....	.....	.....	6.9	58.6	13.8	6.9	6.9	6.9
7 plants	1910	39	67.8	.359	24.58	.....	10.3	.....	5.1	.....	15.4	43.6	10.3	5.1	5.1	5.1
	1911	39	66.8	.327	22.11	.....	2.6	2.6	15.4	.....	41.0	12.8	15.4	2.6	7.7	.....
	1912	39	66.8	.351	23.69	.....	.....	2.6	2.6	12.8	41.0	10.3	20.5	.....	5.1	5.1

[1] Including 9.5 per cent earning 10 and under 12 cents per hour.
[2] Including 1.4 per cent earning 10 and under 12 cents per hour.
[3] Including 1.3 per cent earning 10 and under 12 cents per hour.
[4] Including 5.0 per cent earning 10 and under 12 cents per hour.
[5] Including 6.1 per cent earning 10 and under 12 cents per hour.
[6] Earning 10 and under 12 cents per hour.
[7] Including 9.1 per cent earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Roll hands, other, 12-inch:																
4 plants	1907	24	70.1	$0.201	$14.04	.....	.....	58.3	16.7	16.7	.....	.....	8.3	.....	.....	.....
	1908	21	70.4	.194	13.60	.....	57.1	.....	9.5	23.8	.....	.....	9.5	.....	.....	.....
	1909	21	70.3	.210	14.75	.....	.....	.....	76.2	14.3	.....	9.5	.....	.....	.....	.....
	1910	22	69.9	.302	21.27	.....	.....	.....	9.1	27.3	.....	54.5	.....	9.1	.....	.....
9 plants	1910	33	67.0	.285	19.06	.....	.....	.....	21.2	24.2	3.0	45.5	.....	6.1	.....	.....
	1911	32	67.7	.254	16.95	.....	.....	6.3	12.5	62.5	3.1	3.1	12.5	.....	.....	.....
	1912	33	67.5	.298	20.25	.....	.....	6.1	6.1	27.3	3.0	51.5	.....	.....	6.1	.....
Roll hands, other, 13-inch, 14-inch, and 15-inch:																
3 plants	1910	29	62.1	.307	17.94	.....	.....	.....	34.5	.....	17.2	6.9	41.4	.....	.....	.....
	1911	28	61.7	.268	15.81	.....	.....	35.7	.....	3.6	17.9	42.9	.....	.....	.....	.....
	1912	25	63.4	.268	16.17	.....	.....	40.0	.....	.....	24.0	36.0	.....	.....	.....	.....
Roll hands, other, 16-inch:																
2 plants	1907	4	64.5	.331	21.26	.....	.....	.....	.....	.....	50.0	25.0	25.0	.....	.....	.....
	1908	4	64.5	.331	21.21	.....	.....	.....	.....	.....	50.0	25.0	25.0	.....	.....	.....
	1909	4	64.5	.359	22.97	.....	.....	.....	.....	.....	50.0	25.0	.....	25.0	.....	.....
	1910	4	64.5	.374	24.13	.....	.....	.....	.....	.....	50.0	.....	25.0	25.0	.....	.....
	1911	4	64.5	.398	25.63	.....	.....	.....	.....	.....	50.0	.....	25.0	25.0	.....	.....
	1912	3	64.5	.394	25.51	.....	.....	.....	.....	.....	33.3	.....	66.7	.....	.....	.....
Roll hands, other, 18-inch:																
1 plant	1907	2	62.8	.237	14.84	.....	.....	.....	.....	50.0	50.0	.....	.....	.....	.....	.....
	1908	2	62.8	.181	11.33	.....	.....	50.0	50.0	.....	.....	.....	.....	.....	.....	.....
	1909	2	62.8	.200	12.55	.....	.....	.....	50.0	50.0	.....	.....	.....	.....	.....	.....
	1910	2	62.8	.296	18.57	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....
4 plants	1910	7	59.9	.226	13.67	.....	.....	.....	57.1	14.3	28.6	.....	.....	.....	.....	.....
	1911	6	60.8	.256	15.55	.....	16.7	16.7	.....	16.7	16.7	33.3	.....	.....	.....	.....
	1912	7	59.2	.235	13.91	.....	.....	.....	.....	57.1	42.9	.....	.....	.....	.....	.....
Roll hands, other, all sizes:																
9 plants	1907	97	66.8	.278	18.53	.....	2.1	26.8	8.2	8.2	12.4	33.0	4.1	5.2	.....	.....
	1908	94	67.0	.255	16.97	[1] 3.2	20.2	9.6	3.2	22.3	17.0	11.7	8.5	4.3	.....	.....
	1909	94	66.8	.266	17.65	2.1	5.3	11.7	18.1	11.7	25.5	14.9	5.3	4.3	1.1	.....
	1910	95	66.7	.315	21.06	2.1	2.1	6.3	10.5	8.4	16.8	35.8	7.4	6.3	2.1	2.1
18 plants	1910	180	62.8	.295	18.35	[1] 2.2	5.6	3.3	17.2	7.2	18.3	28.3	12.2	3.3	1.1	1.1
	1911	177	62.5	.273	16.97	[1] 2.2	2.8	17.5	6.2	19.2	22.0	18.6	8.5	1.1	1.7	.....
	1912	176	62.7	.287	17.97	[2] 4.0	1.1	16.5	2.3	13.6	27.8	23.3	6.2	1.7	2.3	1.1
Hotbed men:																
15 plants	1907	302	63.3	.189	11.98	[3] 6.0	35.8	15.6	10.6	19.9	5.6	6.6	.....	.....	.....	.....
	1908	299	63.2	.174	10.93	[4] 9.0	38.8	21.4	12.4	11.7	4.3	2.3	.....	.....	.....	.....
	1909	286	63.3	.180	11.00	[5] 18.2	24.5	18.5	11.5	18.9	3.1	5.2	.....	.....	.....	.....
	1910	302	63.3	.208	13.02	[6] 7.3	12.6	28.8	11.9	19.2	11.9	1.3	6.3	.7	.....	.....

[1] Including 1.1 per cent earning 10 and under 12 cents per hour.
[2] Including 1.7 per cent earning 10 and under 12 cents per hour.
[3] Including 4.6 per cent earning 10 and under 12 cents per hour.
[4] Including 2.0 per cent earning 8 and under 9 cents, 1.3 per cent earning 9 and under 10 cents, and 0.7 per cent earning 10 and under 12 cents per hour.
[5] Including 2.1 per cent earning 9 and under 10 cents and 2.8 per cent earning 10 and under 12 cents per hour.
[6] Including 2.0 per cent earning 9 and under 10 cents and 2.0 per cent earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Concluded.

BAR MILLS—Continued.

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Hotbed men—Concluded.																
25 plants...	1910	500	62.9	$0.200	$12.46	[1] 10.4	15.6	25.4	14.2	16.6	11.4	2.2	3.8	0.4	....	.....
	1911	434	62.0	.189	11.69	[2] 11.5	18.0	28.8	13.6	15.0	6.2	5.5	.9	.5	....	.....
26 plants...	1911	450	61.9	.188	11.61	[3] 11.1	20.0	27.8	14.0	14.4	6.0	5.3	.9	.4	....	.....
	1912	461	61.7	.192	11.80	[4] 12.4	9.1	28.2	15.0	21.9	8.2	5.2	.....	.....	.....	.....
Shearmen:																
15 plants...	1907	94	64.8	.249	16.20	.....	1.1	18.1	21.3	21.3	12.8	21.3	.....	2.1	2.1	.....
	1908	92	65.1	.216	14.10	2.2	1.1	26.1	22.8	23.9	16.3	6.5	.....	.....	1.1	.....
	1909	93	65.3	.225	14.72	.....	6.5	14.0	29.0	21.5	17.2	9.7	1.1	.....	1.1	.....
	1910	97	65.0	.247	16.11	.....	9.3	8.2	24.7	14.4	18.6	20.6	3.1	1.0	.....	.....
25 plants...	1910	156	63.3	.264	16.40	1.3	8.3	7.1	19.2	17.3	18.6	19.9	5.8	.6	....	1.9
	1911	151	62.5	.254	15.55	1.3	5.3	11.3	27.2	15.2	16.6	13.2	6.6	3.3	....	.....
	1912	154	62.4	.254	15.59	1.3	3.2	11.0	24.7	20.1	16.2	16.2	3.9	3.2	....	.....
Shearmen's helpers:																
15 plants...	1907	201	65.9	.174	11.46	[5] 10.9	37.8	24.4	6.0	13.9	6.0	1.0	.....	.....	.....	.....
	1908	172	66.2	.168	11.07	[6] 11.0	43.0	19.2	11.6	12.2	1.7	1.2	.....	.....	.....	.....
	1909	185	67.3	.169	11.32	[7] 21.1	34.1	17.3	9.2	14.6	2.7	1.1	.....	.....	.....	.....
	1910	215	65.3	.184	12.00	[8] 5.6	25.6	32.1	6.0	22.3	7.4	.9	.....	.....	.....	.....
23 plants...	1910	355	64.7	.187	12.02	[9] 10.7	16.3	30.7	8.2	24.5	5.6	3.9	.....	.....	.....	.....
	1911	359	63.8	.178	11.28	[10] 12.5	15.9	43.5	6.1	15.9	5.0	.6	.6	.....	.....	.....
	1912	358	63.9	.184	11.74	[11] 9.5	8.4	39.7	7.8	26.3	7.3	1.1	.....	.....	.....	.....
Bundlers:																
5 plants....	1907	41	66.9	.202	13.53	.....	.....	24.4	31.7	39.0	2.4	2.4	.....	.....	.....	.....
	1908	41	66.9	.174	11.68	4.9	29.3	36.6	19.5	7.3	2.4	.....	.....	.....	.....	.....
	1909	41	66.8	.186	12.42	.....	9.8	31.7	43.9	14.6	.....	.....	.....	.....	.....	.....
	1910	41	67.1	.213	14.23	.....	4.9	22.0	4.9	63.4	4.9	.....	.....	.....	.....	.....
6 plants....	1910	77	66.1	.207	13.69	.....	2.6	11.7	31.2	51.9	2.6	.....	.....	.....	.....	.....
	1911	81	63.5	.193	12.28	.....	1.2	19.8	39.5	37.0	2.5	.....	.....	.....	.....	.....
7 plants....	1911	131	62.0	.197	12.20	.....	.8	12.2	24.4	61.1	1.5	.....	.....	.....	.....	.....
	1912	132	62.0	.193	11.94	.....	.....	12.1	68.2	18.2	1.5	.....	.....	.....	.....	.....
Laborers:																
10 plants...	1907	296	63.3	.153	10.44	9.1	58.4	32.4	.....	.....	.....	.....	.....	.....	.....	.....
	1908	227	64.8	.153	9.93	17.2	39.6	43.2	.....	.....	.....	.....	.....	.....	.....	.....
	1909	324	67.8	.150	10.17	15.4	56.2	28.4	.....	.....	.....	.....	.....	.....	.....	.....
	1910	424	67.2	.161	10.81	9.4	7.3	83.3	.....	.....	.....	.....	.....	.....	.....	.....
15 plants...	1910	511	67.8	.160	10.86	10.0	13.7	76.3	.....	.....	.....	.....	.....	.....	.....	.....
	1911	355	66.0	.160	10.59	12.4	7.3	80.3	.....	.....	.....	.....	.....	.....	.....	.....
17 plants...	1911	390	65.5	.159	10.40	11.3	15.6	73.1	.....	.....	.....	.....	.....	.....	.....	.....
	1912	424	65.9	.159	10.52	10.4	12.7	76.9	.....	.....	.....	.....	.....	.....	.....	.....

[1] Including 1.2 per cent earning 9 and under 10 cents and 3.6 per cent earning 10 and under 12 cents per hour.
[2] Including 5.3 per cent earning 10 and under 12 cents per hour.
[3] Including 5.1 per cent earning 10 and under 12 cents per hour.
[4] Including 0.7 per cent earning 8 and under 9 cents, 1.1 per cent earning 9 and under 10 cents, and 4.1 per cent earning 10 and under 12 cents per hour.
[5] Including 3.5 per cent earning 10 and under 12 cents per hour.
[6] Including 4.1 per cent earning 10 and under 12 cents per hour.
[7] Including 7.6 per cent earning 10 and under 12 cents per hour.
[8] Including 0.9 per cent earning 10 and under 12 cents per hour.
[9] Including 1.7 per cent earning 8 and under 9 cents and 2.3 per cent earning 10 and under 12 cents per hour.
[10] Including 3.1 per cent earning 10 and under 12 cents per hour.
[11] Including 0.6 per cent earning 9 and under 10 cents and 3.1 per cent earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912.

BAR MILLS—Continued.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West."]

STOCKERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Eastern	2	16	62.3	$0.161	$10.06	2	4	10	....	....	....	....	....	....	....	....
Pittsburgh	2	22	69.6	.185	12.76	....	....	12	....	10	....	....	....	....	....	....
G. L. and M. W.	4	55	62.9	.180	11.29	....	2	29	12	12	....	....	....	....	....	....
Total	8	93	64.4	.178	11.43	2	6	51	12	22	....	....	....	....	....	....
1908.																
Eastern	2	16	62.3	.165	10.29	2	4	2	8	....	....	....	....	....	....	....
Pittsburgh	2	20	68.3	.179	12.13	....	....	10	8	2	....	....	....	....	....	....
G. L. and M. W.	4	54	63.1	.164	10.33	[1]12	8	22	6	6	....	....	....	....	....	....
Total	8	90	64.1	.167	10.72	[1]14	12	34	22	8	....	....	....	....	....	....
1909.																
Eastern	2	16	62.3	.159	9.97	[2]3	4	1	8	....	....	....	....	....	....	....
Pittsburgh	2	20	68.0	.181	12.26	....	....	10	4	6	....	....	....	....	....	....
G. L. and M. W.	4	52	63.4	.166	10.48	....	28	12	6	4	2	....	....	....	....	....
Total	8	88	64.2	.168	10.79	[2]3	32	23	18	10	2	....	....	....	....	....
1910.																
Eastern	6	72	57.6	.268	15.08	2	5	....	9	17	17	16	6	....	....	....
Pittsburgh	3	47	56.5	.279	15.01	....	....	10	....	16	6	....	15	....	....	....
G. L. and M. W.	4	51	63.3	.196	12.35	....	....	18	15	18	....	....	....	....	....	....
Total	13	170	59.0	.250	14.24	2	5	28	24	51	23	16	21	....	....	....
1911.																
Eastern	6	65	59.1	.236	13.82	2	4	1	21	9	10	18	....	....	....	....
Pittsburgh	5	93	61.0	.210	12.37	....	....	47	10	13	8	15	....	....	....	....
G. L. and M. W.	4	53	62.9	.205	12.84	....	....	17	7	26	1	2	....	....	....	....
Total	15	211	60.9	.217	12.94	2	4	65	38	48	19	35	....	....	....	....
1912.																
Eastern	6	71	59.1	.263	15.43	2	4	5	....	24	16	20	....	....	....	....
Pittsburgh	5	92	61.0	.213	12.56	....	1	45	11	11	9	15	....	....	....	....
G. L. and M. W.	4	54	63.1	.219	13.76	....	....	14	4	22	12	2	....	....	....	....
Total	15	217	60.9	.231	13.79	2	5	64	15	57	37	37	....	....	....	....

HEATERS.

1907.																
Eastern	3	22	62.1	$0.448	$27.96	....	....	....	....	....	8	....	....	14	....	....
Pittsburgh	6	61	64.6	.525	33.83	....	....	....	....	....	2	19	6	17	7	10
G. L. and M. W.	6	38	63.7	.516	32.53	....	....	....	....	....	....	6	12	12	6	2
Total	15	121	63.9	.508	32.35	....	....	....	....	....	10	25	18	43	13	12

[1] Including 6 employees earning 10 and under 12 cents per hour.
[2] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HEATERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1908.																
Eastern	3	26	60.2	$0.447	$27.19	.....	.....	.....	.....	.....	8	.....	8	6	4	.....
Pittsburgh	6	53	65.3	.477	30.75	.....	.....	.....	.....	1	9	10	13	10	3	7
G. L. and M.W.	6	33	64.5	.465	29.84	.....	.....	.....	.....	.....	2	4	14	9	4	.....
Total	15	112	63.9	.467	29.66	.....	.....	.....	.....	1	19	14	35	25	11	7
1909.																
Eastern	3	26	60.2	.437	26.51	.....	.....	.....	.....	4	.....	2	10	10	.....	.....
Pittsburgh	6	53	65.5	.532	34.38	.....	.....	.....	.....	.....	2	7	8	21	9	6
G. L. and M.W.	6	33	64.5	.457	29.32	.....	.....	.....	.....	.....	2	4	16	9	2	.....
Total	15	112	64.0	.488	31.06	.....	.....	.....	.....	4	4	13	34	40	11	6
1910.																
Eastern	8	65	60.7	.482	29.19	.....	.....	.....	.....	.....	9	12	9	25	10	.....
Pittsburgh	10	114	63.3	.518	32.70	.....	.....	.....	.....	.....	5	23	34	22	15	15
G. L. and M.W.	7	38	65.7	.514	33.14	.....	.....	.....	.....	.....	2	4	12	10	6	4
Total	25	217	62.9	.507	31.73	.....	.....	.....	.....	.....	16	39	55	57	31	19
1911.																
Eastern	8	57	61.9	.489	30.13	.....	.....	.....	.....	.....	6	12	6	21	10	2
Pittsburgh	10	88	62.3	.521	32.46	.....	.....	.....	.....	.....	5	21	17	21	14	10
G. L. and M.W.	8	39	64.9	.517	33.07	.....	.....	.....	.....	.....	2	5	11	13	2	6
Total	26	184	62.7	.510	31.87	.....	.....	.....	.....	.....	13	38	34	55	26	18
1912.																
Eastern	8	65	61.2	.479	29.19	.....	.....	.....	.....	.....	4	17	14	18	10	2
Pittsburgh	10	94	62.0	.475	29.36	.....	.....	.....	.....	4	14	24	10	19	12	11
G. L. and M.W.	8	40	65.1	.501	32.00	.....	.....	.....	.....	.....	5	4	12	4	15	.....
Total	26	199	62.4	.482	29.84	.....	.....	.....	4	.....	23	45	36	41	37	13

HEATERS' HELPERS.

1907.																
Eastern	3	32	62.5	$0.213	$13.30	.....	10	8	.....	.....	10	4	.....	.....	.....	.....
Pittsburgh	5	89	66.8	.237	15.73	.....	.....	12	24	18	20	15	.....	.....	.....	.....
G. L. and M.W.	6	46	64.2	.285	17.59	.....	.....	8	12	10	.....	4	8	2	2	.....
Total	14	167	65.3	.246	15.77	.....	10	28	36	28	30	23	8	2	2	.....
1908.																
Eastern	3	36	61.1	.210	12.87	.....	10	8	.....	8	6	4	.....	.....	.....	.....
Pittsburgh	5	73	67.3	.217	14.44	.....	4	15	22	17	5	10	.....	.....	.....	.....
G. L. and M.W.	6	44	64.6	.257	15.94	.....	.....	10	14	4	4	5	5	2	.....	.....
Total	14	153	65.1	.227	14.50	.....	14	33	36	29	15	19	5	2	.....	.....
1909.																
Eastern	3	36	61.1	.204	12.44	14	.....	.....	2	8	12	.....	.....	.....	.....	.....
Pittsburgh	5	73	67.2	.233	15.40	.....	2	11	19	20	11	10	.....	.....	.....	.....
G. L. and M.W.	6	42	64.5	.260	16.04	.....	4	8	10	4	4	6	4	.....	2	.....
Total	14	151	65.0	.234	14.87	14	6	19	31	32	27	16	4	.....	2	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HEATERS' HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	8	90	62.1	$0.242	$14.98	2	15	8	5	13	29	18	.....	.....	.....	.....
Pittsburgh	9	154	62.0	.282	17.04	.....	.....	3	9	68	10	52	9	3	.....	.....
G. L. and M. W.	7	51	65.6	.302	19.08	.....	.....	10	7	8	10	4	2	8	2	.....
Total	24	295	62.6	.273	16.77	2	15	21	21	89	49	74	11	11	2	.....
1911.																
Eastern	8	81	62.4	.243	15.20	.....	13	5	11	7	33	12	.....	.....	.....	.....
Pittsburgh	9	150	61.6	.256	15.43	.....	.....	10	7	78	6	45	4	.....	.....	.....
G. L. and M. W.	8	62	65.8	.286	18.15	.....	4	12	6	15	8	1	6	10	.....	.....
Total	25	293	62.7	.259	15.94	.....	17	27	24	100	47	58	10	10	.....	.....
1912.																
Eastern	8	104	61.1	.242	14.79	.....	17	8	18	10	31	18	2	.....	.....	.....
Pittsburgh	9	155	61.7	.258	15.69	.....	.....	2	13	77	21	36	6	.....	.....	.....
G. L. and M. W.	8	60	65.5	.299	18.92	.....	4	8	4	8	12	10	8	2	4	.....
Total	25	319	62.2	.260	16.01	.....	21	18	35	95	64	64	16	2	4	.....

CHARGERS AND HELPERS.

1907.																
Eastern	1	4	64.5	$0.176	$11.35	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	58	66.6	.172	11.52	2	32	10	6	4	3	1	.....	.....	.....	.....
G. L. and M. W.	5	42	64.1	.175	11.10	.....	16	16	2	6	2	.....	.....	.....	.....	.....
Total	12	104	65.5	.173	11.34	2	48	30	8	10	5	1	.....	.....	.....	.....
1908.																
Eastern	1	4	64.5	.183	11.80	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	56	66.5	.161	10.72	[1] 3	32	13	5	3	.....	.....	.....	.....	.....	.....
G. L. and M. W.	5	42	64.5	.159	10.23	.....	26	12	2	2	.....	.....	.....	.....	.....	.....
Total	12	102	65.6	.161	10.56	[1] 3	58	25	11	5	.....	.....	.....	.....	.....	.....
1909.																
Eastern	1	4	64.5	.181	11.67	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	57	66.6	.159	10.62	16	21	12	4	4	.....	.....	.....	.....	.....	.....
G. L. and M. W.	5	46	65.2	.162	10.48	.....	30	8	4	4	.....	.....	.....	.....	.....	.....
Total	12	107	65.9	.161	10.60	16	51	20	12	8	.....	.....	.....	.....	.....	.....
1910.																
Eastern	3	16	59.9	.172	10.30	.....	.....	10	6	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	9	105	65.9	.193	12.52	.....	.....	46	32	19	8	.....	.....	.....	.....	.....
G. L. and M. W.	6	58	65.9	.195	12.78	.....	24	6	6	6	16	.....	.....	.....	.....	.....
Total	18	179	65.3	.192	12.40	.....	24	62	44	25	24	.....	.....	.....	.....	.....

[1] Including 1 employee earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CHARGERS AND HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Eastern	3	16	61.7	$0.173	$10.60	.....	8	.....	4	4	.....	.....	.....	.....	.....	.....
Pittsburgh	9	105	65.1	.185	11.98	.....	4	65	10	22	4	.....	.....	.....	.....	.....
G. L. and M. W.	7	64	65.0	.186	12.11	.....	30	8	10	12	2	2	.....	.....	.....	.....
Total	19	185	64.8	.184	11.90	.....	42	73	24	38	6	2	.....	.....	.....	.....
1912.																
Eastern	3	15	61.2	.179	10.90	.....	.....	10	1	4	.....	.....	.....	.....	.....	.....
Pittsburgh	9	103	65.5	.188	12.20	.....	5	65	11	10	10	2	.....	.....	.....	.....
G. L. and M. W.	7	64	65.0	.203	13.21	.....	18	12	6	14	14	.....	.....	.....	.....	.....
Total	19	182	65.0	.192	12.45	.....	23	87	18	28	24	2	.....	.....	.....	.....
DRAG DOWNS.																
1907.																
Eastern	3	16	61.4	$0.213	$13.19	.....	4	.....	.....	8	4	.....	.....	.....	.....	.....
Pittsburgh	5	48	67.6	.265	17.77	.....	5	4	10	11	4	6	4	4	.....	.....
G. L. and M. W.	3	22	59.7	.325	19.31	.....	.....	.....	.....	.....	6	14	2	.....	.....	.....
Total	11	86	64.4	.271	17.31	.....	9	4	10	19	14	20	6	4	.....	.....
1908.																
Eastern	3	20	59.2	.204	12.24	.....	4	4	2	6	4	.....	.....	.....	.....	.....
Pittsburgh	5	43	68.0	.225	15.11	[1]10	6	4	3	5	7	4	.....	4	.....	.....
G. L. and M. W.	3	19	59.6	.339	20.19	.....	.....	.....	.....	4	2	11	.....	2	.....	.....
Total	11	82	63.9	.246	15.58	[1]10	10	8	5	15	13	15	.....	6	.....	.....
1909.																
Eastern	3	20	59.2	.215	12.85	.....	2	2	4	6	6	.....	.....	.....	.....	.....
Pittsburgh	5	44	68.1	.250	16.78	.....	14	4	1	4	7	10	4	.....	.....	.....
G. L. and M. W.	3	19	59.6	.288	17.19	.....	.....	.....	.....	4	7	8	.....	.....	.....	.....
Total	11	83	64.0	.250	15.93	.....	16	6	5	14	20	18	4	.....	.....	.....
1910.																
Eastern	7	35	61.1	.224	13.78	.....	2	4	2	20	6	1	.....	.....	.....	.....
Pittsburgh	8	76	68.2	.270	18.25	.....	4	4	18	14	18	14	.....	.....	.....	4
G. L. and M. W.	4	21	60.4	.343	20.61	.....	.....	.....	.....	.....	3	14	4	.....	.....	.....
Total	19	132	65.1	.269	17.44	.....	6	8	20	34	27	29	4	.....	.....	4
1911.																
Eastern	7	32	61.6	.238	14.76	.....	2	.....	.....	15	14	1	.....	.....	.....	.....
Pittsburgh	8	70	67.7	.246	16.52	4	4	8	5	27	15	3	.....	.....	.....	4
G. L. and M. W.	5	25	60.0	.335	20.10	.....	.....	.....	.....	2	8	11	4	.....	.....	.....
Total	20	127	64.7	.262	16.78	4	6	8	5	44	37	15	4	.....	.....	4
1912.																
Eastern	7	33	60.9	.241	14.77	.....	.....	4	.....	17	10	2	.....	.....	.....	.....
Pittsburgh	8	72	67.4	.229	15.34	2	20	.....	10	14	12	10	4	.....	.....	.....
G. L. and M. W.	5	25	60.0	.338	20.17	.....	.....	.....	.....	.....	5	16	4	.....	.....	.....
Total	20	130	64.3	.253	16.12	2	20	4	10	31	27	28	8	.....	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL ENGINEERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Eastern	2	5	72.0	$0.171	$12.33	.....	.....	4	1	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	31	73.8	.224	16.58	.....	.....	.....	2	23	6	.....	.....	.....	.....	.....
G. L. and M. W.	5	22	70.3	.239	16.80	.....	.....	.....	2	10	10	.....	.....	.....	.....	.....
Total	13	58	72.3	.226	16.29	.....	.....	4	5	33	16	.....	.....	.....	.....	.....
1908.																
Eastern	2	6	70.0	.174	12.15	.....	.....	4	2	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	30	71.6	.223	16.02	.....	.....	.....	2	23	5	.....	.....	.....	.....	.....
G. L. and M. W.	5	20	71.6	.231	16.46	.....	.....	.....	2	12	6	.....	.....	.....	.....	.....
Total	13	56	71.4	.221	15.76	.....	.....	4	6	35	11	.....	.....	.....	.....	.....
1909.																
Eastern	2	6	70.0	.168	11.72	.....	4	.....	2	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	30	71.8	.217	15.65	.....	.....	.....	8	18	4	.....	.....	.....	.....	.....
G. L. and M. W.	5	20	71.6	.231	16.46	.....	.....	.....	2	12	6	.....	.....	.....	.....	.....
Total	13	56	71.5	.217	15.52	.....	4	.....	12	30	10	.....	.....	.....	.....	.....
1910.																
Eastern	6	19	71.6	.205	14.69	.....	.....	4	4	7	4	.....	.....	.....	.....	.....
Pittsburgh	10	58	72.1	.232	16.76	.....	.....	.....	4	42	12	.....	.....	.....	.....	.....
G. L. and M. W.	6	22	72.1	.240	17.22	.....	.....	.....	2	10	10	.....	.....	.....	.....	.....
Total	22	99	72.0	.229	16.46	.....	.....	4	10	59	26	.....	.....	.....	.....	.....
1911.																
Eastern	6	17	69.0	.197	13.61	.....	.....	6	2	7	2	.....	.....	.....	.....	.....
Pittsburgh	10	56	70.2	.231	16.29	.....	.....	.....	4	39	13	.....	.....	.....	.....	.....
G. L. and M. W.	6	22	71.8	.244	17.41	.....	.....	.....	2	13	7	.....	.....	.....	.....	.....
Total	22	95	70.4	.228	16.07	.....	.....	6	8	59	22	.....	.....	.....	.....	.....
1912.																
Eastern	6	18	66.7	.201	13.43	.....	.....	5	2	9	2	.....	.....	.....	.....	.....
Pittsburgh	10	57	70.3	.231	16.30	.....	.....	.....	4	41	12	.....	.....	.....	.....	.....
G. L. and M. W.	6	22	72.1	.244	17.53	.....	.....	.....	2	13	7	.....	.....	.....	.....	.....
Total	22	97	70.0	.229	16.05	.....	.....	5	8	63	21	.....	.....	.....	.....	.....

ROLLERS: 8-INCH.

1907.																
Eastern	1	2	59.3	$0.650	$38.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
Pittsburgh	4	10	63.7	1.201	76.54	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	9
G. L. and M. W.	2	4	61.0	1.028	62.45	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3
Total	7	16	62.5	1.089	68.27	.....	.....	.....	.....	.....	.....	.....	.....	1	3	12
1908.																
Eastern	1	2	59.3	.650	38.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
Pittsburgh	4	10	63.7	1.071	67.79	.....	.....	.....	.....	.....	.....	1	.....	1	.....	8
G. L. and M. W.	2	4	61.5	.877	54.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Total	7	16	62.6	.970	60.88	.....	.....	.....	.....	.....	.....	1	.....	1	4	10

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 8-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1909.																
Eastern	1	2	59.3	$0.755	$44.73	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Pittsburgh	4	10	63.5	1.114	70.33	.....	.....	.....	.....	.....	.....	.....	1	.....	1	8
G. L. and M. W.	2	4	61.5	.664	43.06	.....	.....	.....	.....	.....	.....	1	1	.....	1	1
Total	7	16	62.5	.956	60.31	.....	.....	.....	.....	.....	.....	1	2	.....	2	11
1910.																
Eastern	3	4	55.8	.744	41.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1
Pittsburgh	6	20	59.2	1.055	63.37	.....	.....	.....	.....	.....	.....	.....	3	3	1	13
G. L. and M. W.	2	4	61.5	.706	45.23	.....	.....	.....	.....	.....	.....	.....	2	.....	1	1
Total	11	28	59.0	.961	57.71	.....	.....	.....	.....	.....	.....	.....	5	3	5	15
1911.																
Eastern	3	5	54.8	.654	36.20	.....	.....	.....	.....	.....	.....	.....	.....	2	2	1
Pittsburgh	6	20	58.1	1.028	60.82	.....	.....	.....	.....	.....	.....	.....	2	3	2	13
G. L. and M. W.	2	4	61.5	.783	49.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1
Total	11	29	58.0	.929	55.00	.....	.....	.....	.....	.....	.....	.....	2	5	7	15
1912.																
Eastern	3	5	54.8	.724	40.29	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	3
Pittsburgh	6	20	58.1	.964	57.36	.....	.....	.....	.....	.....	.....	.....	4	2	1	13
G. L. and M. W.	2	4	61.5	.706	45.70	.....	.....	.....	.....	1	.....	.....	.....	.....	2	1
Total	11	29	58.0	.887	52.81	.....	.....	.....	.....	1	.....	.....	4	4	3	17

ROLLERS: 9-INCH.

1907.																
Pittsburgh	3	4	67.5	$1.074	$73.17	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	3
G. L. and M. W.	3	8	66.3	1.020	67.99	.....	.....	.....	.....	.....	.....	.....	.....	1	2	5
Total	6	12	66.7	1.038	69.72	.....	.....	.....	.....	.....	.....	.....	.....	2	2	8
1908.																
Pittsburgh	3	4	67.5	.710	48.29	.....	.....	.....	.....	.....	.....	.....	1	2	.....	1
G. L. and M. W.	3	7	67.8	.866	58.93	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	5
Total	6	11	67.7	.809	55.06	.....	.....	.....	.....	.....	.....	.....	1	2	2	6
1909.																
Pittsburgh	3	4	66.0	.896	59.50	.....	.....	.....	.....	.....	.....	.....	1	.....	1	2
G. L. and M. W.	3	7	67.8	.796	54.40	.....	.....	.....	.....	.....	.....	.....	1	.....	2	4
Total	6	11	67.1	.832	56.25	.....	.....	.....	.....	.....	.....	.....	2	.....	3	6
1910.																
Eastern	2	5	59.0	.798	47.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	3
Pittsburgh	6	12	62.3	1.103	70.12	.....	.....	.....	.....	.....	.....	.....	1	1	2	8
G. L. and M. W.	3	7	67.8	.772	52.57	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	3
Total	11	24	63.2	.943	60.20	.....	.....	.....	.....	.....	.....	.....	1	1	8	14

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 9-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Eastern	2	4	61.5	$0.643	$39.44									1	1	2
Pittsburgh	6	11	61.5	.789	49.45							1	2	1	1	6
G. L. and M. W.	3	7	67.8	.984	66.56										2	5
Total	11	22	63.5	.825	53.07							1	2	2	4	13
1912.																
Eastern	2	5	61.2	.634	38.71									2		3
Pittsburgh	6	11	61.0	.845	52.22									2	2	7
G. L. and M. W.	3	7	67.8	.874	59.05										2	5
Total	11	23	63.1	.808	51.36									4	4	15

ROLLERS: 10-INCH.

1907.																
Eastern	1	2	59.3	$0.650	$38.51										2	
Pittsburgh	4	10	68.9	1.207	83.51											10
Total	5	12	67.3	1.114	76.01										2	10
1908.																
Eastern	1	2	59.3	.650	38.51										2	
Pittsburgh	4	10	68.9	1.039	71.56										1	9
Total	5	12	67.3	.974	66.06										3	9
1909.																
Eastern	1	2	59.3	1.024	60.67											2
Pittsburgh	4	10	68.6	1.110	75.92									1		9
Total	5	12	67.0	1.095	73.38									1		11
1910.																
Eastern	1	4	52.5	.750	39.38											4
Pittsburgh	6	14	68.6	1.160	79.23										1	13
Total	7	18	65.0	1.069	70.38										1	17
1911.																
Eastern	1	4	48.8	.862	42.01											4
Pittsburgh	6	14	67.8	.997	67.50								1	1	1	11
Total	7	18	63.6	.967	56.28								1	1	1	15
1912.																
Eastern	1	4	48.8	.945	46.04											4
Pittsburgh	6	14	67.8	1.101	74.44									1		13
Total	7	18	63.6	1.066	68.13									1		17

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 12-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Eastern	1	2	64.5	$1.056	$68.11											2
Pittsburgh	3	7	68.7	.795	55.27									2	1	4
G. L. and M. W.	3	6	68.7	.971	67.03										1	5
Total	7	15	68.1	.900	61.69									2	2	11
1908.																
Eastern	1	2	64.5	1.071	69.08											2
Pittsburgh	3	6	71.0	.608	43.05							1		2	2	1
G. L. and M. W.	3	5	70.8	.924	65.33											5
Total	7	13	69.9	.801	55.63							1		2	2	8
1909.																
Eastern	1	2	64.5	.934	60.24											2
Pittsburgh	3	6	70.7	.755	53.19									2	1	3
G. L. and M. W.	3	5	70.8	.967	68.50										1	4
Total	7	13	69.8	.864	60.16									2	2	9
1910.																
Eastern	4	7	60.4	.858	52.39										2	5
Pittsburgh	6	15	64.1	.831	53.87							1		1	3	10
G. L. and M. W.	3	5	70.8	.972	68.84										1	4
Total	13	27	64.4	.864	56.26							1		1	6	19
1911.																
Eastern	4	6	63.0	.883	55.61										2	4
Pittsburgh	6	13	63.5	.781	49.35									4		9
G. L. and M. W.	3	5	70.8	.963	68.22										1	4
Total	13	24	64.9	.844	54.85									4	3	17
1912.																
Eastern	4	7	61.1	1.036	63.46											7
Pittsburgh	6	14	63.6	.687	44.14						1			5	1	7
G. L. and M. W.	3	5	70.8	.947	67.06										1	4
Total	13	26	64.3	.831	53.75						1			5	2	18

ROLLERS: 13-INCH, 14-INCH, AND 15-INCH.

1910.																
Pittsburgh	2	5	57.6	$0.978	$55.33											5
G. L. and M. W.	1	2	68.0	.476	32.37								2			
Total	3	7	60.6	.835	48.77								2			5
1911.																
Pittsburgh	2	5	57.6	.761	43.06										4	1
G. L. and M. W.	1	2	68.0	.462	31.42								2			
Total	3	7	60.6	.676	39.73								2		4	1

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 13-INCH, 14-INCH, AND 15-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1912.																
Pittsburgh	2	5	57.6	$0.772	$44.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	2
G. L. and M. W.	1	2	68.0	.549	37.33	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
Total	3	7	60.6	.709	42.11	.....	.....	.....	.....	.....	.....	.....	.....	2	3	2

ROLLERS: 16-INCH.

1907.																
Eastern	2	4	61.0	$0.726	$44.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Pittsburgh	2	3	66.3	1.126	76.23	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2
Total	4	7	63.3	.897	58.11	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	4
1908.																
Eastern	2	4	61.0	.750	46.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Pittsburgh	2	3	66.3	1.025	69.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2
Total	4	7	63.3	.868	56.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	4
1909.																
Eastern	2	4	61.0	.711	43.78	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
Pittsburgh	2	3	66.3	1.037	69.41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
Total	4	7	63.3	.850	54.77	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	5
1910.																
Eastern	2	5	60.3	.718	43.77	.....	.....	.....	.....	.....	.....	.....	.....	1	2	2
Pittsburgh	3	6	64.5	1.249	81.09	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6
Total	5	11	62.6	1.007	64.13	.....	.....	.....	.....	.....	.....	.....	.....	1	2	8
1911.																
Eastern	2	4	61.0	.746	45.84	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Pittsburgh	3	4	66.8	1.415	95.87	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
G. L. and M. W.	1	4	60.5	.625	36.85	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Total	6	12	62.8	.929	59.52	.....	.....	.....	.....	.....	.....	.....	2	.....	2	8
1912.																
Eastern	2	3	59.8	.673	40.35	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1
Pittsburgh	3	5	65.4	.954	63.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	3
G. L. and M. W.	1	4	60.5	.745	44.41	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Total	6	12	62.4	.814	51.35	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	6

ROLLERS: 18-INCH.

1907.																
Eastern	1	1	57.5	$0.932	$53.59	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
G. L. and M. W.	1	2	62.8	.947	60.29	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Total	2	3	61.0	.942	58.06	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 18-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1908.																
Eastern	1	2	53.8	$0.783	$42.06	....	....	....	....	....	....	....	....	....	....	2
G. L. and M. W.	1	2	62.8	.585	37.27	....	....	....	....	....	....	1	....	....	....	1
Total	2	4	58.3	.684	39.66	....	....	....	....	....	....	1	....	....	....	3
1909.																
Eastern	1	2	53.8	.844	45.34	....	....	....	....	....	....	....	....	....	....	2
G. L. and M. W.	1	2	62.8	.663	42.24	....	....	....	....	....	....	....	1	....	....	1
Total	2	4	58.3	.753	43.79	....	....	....	....	....	....	....	1	....	....	3
1910.																
Eastern	4	7	60.2	.624	36.72	....	....	....	....	....	....	2	....	2	....	3
G. L. and M. W.	1	2	62.8	.826	51.83	....	....	....	....	....	....	....	....	....	....	2
Total	5	9	60.8	.669	40.08	....	....	....	....	....	....	2	....	2	....	5
1911.																
Eastern	4	6	59.4	.654	38.44	....	....	....	....	....	....	....	2	....	....	4
G. L. and M. W.	1	2	62.8	1.122	71.44	....	....	....	....	....	....	....	....	....	....	2
Total	5	8	60.3	.771	46.69	....	....	....	....	....	....	....	2	....	....	6
1912.																
Eastern	4	7	58.1	.703	40.70	....	....	....	....	....	....	....	....	....	3	4
G. L. and M. W.	1	2	62.8	.921	58.98	....	....	....	....	....	....	....	1	....	....	1
Total	5	9	59.1	.751	44.76	....	....	....	....	....	....	....	1	....	3	5

ROLLERS: ALL SIZES.

1907.																
Eastern	3	11	60.7	$0.777	$47.45	....	....	....	....	....	....	....	....	....	6	5
Pittsburgh	6	34	66.9	1.097	73.79	....	....	....	....	....	....	....	....	4	2	28
G. L. and M. W.	4	20	65.6	.999	65.83	....	....	....	....	....	....	....	....	1	5	14
Total	13	65	65.5	1.013	66.88	....	....	....	....	....	....	....	....	5	13	47
1908.																
Eastern	3	12	59.8	.776	46.73	....	....	....	....	....	....	....	....	....	6	6
Pittsburgh	6	33	67.3	.929	62.20	....	....	....	....	....	....	2	1	5	4	21
G. L. and M. W.	4	18	66.7	.853	57.38	....	....	....	....	....	....	1	....	....	4	13
Total	13	63	65.7	.878	57.88	....	....	....	....	....	....	3	1	5	14	40
1909.																
Eastern	3	12	59.8	.830	49.76	....	....	....	....	....	....	....	....	2	....	10
Pittsburgh	6	33	66.9	1.014	67.51	....	....	....	....	....	....	....	2	3	3	25
G. L. and M. W.	4	18	66.7	.799	54.44	....	....	....	....	....	....	1	3	....	4	10
Total	13	63	65.5	.917	60.40	....	....	....	....	....	....	1	5	5	7	45

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: ALL SIZES—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	7	32	58.6	$0.748	$42.74	.....	.....	.....	.....	.....	.....	2	.....	3	9	18
Pittsburgh	10	72	62.9	1.048	66.52	.....	.....	.....	.....	.....	.....	1	4	5	7	55
G. L. and M. W.	5	20	66.8	.785	53.08	.....	.....	.....	.....	.....	.....	.....	4	.....	6	10
Total	22	124	62.4	.928	58.21	.....	.....	.....	.....	.....	.....	3	8	8	22	83
1911.																
Eastern	7	29	58.4	.741	43.26	.....	.....	.....	.....	.....	.....	.....	2	3	7	17
Pittsburgh	10	67	62.2	.937	58.89	.....	.....	.....	.....	.....	.....	1	5	9	8	44
G. L. and M. W.	6	24	65.8	.854	56.57	.....	.....	.....	.....	.....	.....	.....	4	.....	6	14
Total	23	120	62.0	.873	54.65	.....	.....	.....	.....	.....	.....	1	11	12	21	75
1912.																
Eastern	7	31	57.7	.799	46.11	.....	.....	.....	.....	.....	.....	.....	.....	4	5	22
Pittsburgh	10	69	62.1	.902	56.80	.....	.....	.....	.....	.....	1	.....	4	10	9	45
G. L. and M. W.	6	24	65.8	.817	54.24	.....	.....	.....	.....	1	.....	.....	1	2	7	13
Total	23	124	61.7	.860	53.63	.....	.....	.....	.....	1	1	.....	5	16	21	80

ROUGHERS: 8-INCH.

1907.																
Eastern	1	6	59.3	$0.250	$14.81	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh	4	24	65.7	.418	27.64	.....	.....	.....	.....	.....	1	14	5	4	.....	.....
G. L. and M. W.	2	14	54.3	.423	22.95	.....	.....	.....	.....	.....	.....	8	3	3	.....	.....
Total	7	44	61.2	.397	24.40	.....	.....	.....	.....	.....	7	22	8	7	.....	.....
1908.																
Eastern	1	6	59.3	.250	14.81	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh	4	24	65.7	.376	24.67	.....	.....	.....	.....	.....	8	3	13	.....	.....	.....
G. L. and M. W.	2	14	54.3	.422	22.88	.....	.....	.....	.....	.....	.....	.....	14	.....	.....	.....
Total	7	44	61.2	.373	22.76	.....	.....	.....	.....	.....	14	3	27	.....	.....	.....
1909.																
Eastern	1	6	59.3	.290	17.18	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh	4	24	65.4	.396	25.86	.....	.....	.....	.....	.....	.....	14	9	1	.....	.....
G. L. and M. W.	2	14	54.3	.338	18.33	.....	.....	.....	.....	.....	.....	14	.....	.....	.....	.....
Total	7	44	61.0	.363	22.28	.....	.....	.....	.....	.....	6	28	9	1	.....	.....
1910.																
Eastern	3	10	56.5	.346	19.59	.....	.....	.....	.....	.....	3	4	3	.....	.....	.....
Pittsburgh	6	60	58.4	.373	22.23	.....	.....	.....	.....	6	24	8	7	15	.....	.....
G. L. and M. W.	2	14	54.3	.362	19.65	.....	.....	.....	.....	.....	.....	14	.....	.....	.....	.....
Total	11	84	57.5	.368	21.49	.....	.....	.....	.....	6	27	26	10	15	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 8-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Eastern	3	13	55.7	$0.292	$16.24	.....	.....	.....	.....	6	4	.....	3	.....	.....	.....
Pittsburgh	6	54	56.5	.362	20.81	.....	.....	.....	.....	.....	11	29	10	4	.....	.....
G. L. and M. W.	2	14	54.3	.342	18.54	.....	.....	.....	.....	.....	.....	14	.....	.....	.....	.....
Total	11	81	56.0	.347	19.68	.....	.....	.....	.....	6	15	43	13	4	.....	.....
1912.																
Eastern	3	13	55.7	.322	17.96	.....	.....	.....	.....	.....	8	2	3	.....	.....	.....
Pittsburgh	6	54	56.5	.334	19.19	.....	.....	.....	.....	6	14	21	12	1	.....	.....
G. L. and M. W.	2	12	54.3	.359	19.47	.....	.....	.....	.....	.....	6	.....	6	.....	.....	.....
Total	11	79	56.0	.336	19.03	.....	.....	.....	.....	6	28	23	21	1	.....	.....

ROUGHERS: 9-INCH.

1907.																
Pittsburgh	3	14	66.3	$0.357	$23.65	.....	.....	.....	.....	.....	3	7	4	.....	.....	.....
G. L. and M. W.	4	44	53.1	.630	31.94	.....	.....	.....	.....	.....	.....	6	8	8	.....	22
Total	7	58	56.3	.564	29.94	.....	.....	.....	.....	.....	3	13	12	8	.....	22
1908.																
Pittsburgh	3	13	66.2	.297	19.70	.....	.....	.....	.....	6	.....	7	.....	.....	.....	.....
G. L. and M. W.	4	41	58.6	.422	24.45	.....	.....	.....	.....	.....	.....	13	20	8	.....	.....
Total	7	54	60.4	.392	23.30	.....	.....	.....	.....	6	.....	20	20	8	.....	.....
1909.																
Pittsburgh	3	13	65.9	.339	22.29	.....	.....	.....	.....	.....	9	.....	4	.....	.....	.....
G. L. and M. W.	4	41	53.6	.449	23.49	.....	.....	.....	.....	.....	.....	12	12	17	.....	.....
Total	7	54	56.5	.422	23.20	.....	.....	.....	.....	.....	9	12	16	17	.....	.....
1910.																
Eastern	2	12	59.2	.372	22.08	.....	.....	.....	.....	.....	4	2	6	.....	.....	.....
Pittsburgh	6	34	63.9	.412	26.14	.....	.....	.....	.....	.....	12	.....	16	6	.....	.....
G. L. and M. W.	4	42	53.4	.500	26.36	.....	.....	.....	.....	.....	.....	4	16	16	6	.....
Total	12	88	58.2	.449	25.69	.....	.....	.....	.....	.....	16	6	38	22	6	.....
1911.																
Eastern	2	12	59.0	.286	16.87	.....	.....	.....	.....	.....	8	4	.....	.....	.....	.....
Pittsburgh	6	31	62.4	.381	23.90	.....	.....	.....	.....	.....	6	13	12	.....	.....	.....
G. L. and M. W.	4	40	53.1	.479	25.94	.....	.....	.....	.....	.....	.....	12	12	12	4	.....
Total	12	83	57.4	.414	23.87	.....	.....	.....	.....	.....	14	29	24	12	4	.....
1912.																
Eastern	2	15	58.2	.283	16.45	.....	.....	.....	.....	.....	9	6	.....	.....	.....	.....
Pittsburgh	6	29	62.2	.397	24.60	.....	.....	.....	.....	.....	8	5	10	6	.....	.....
G. L. and M. W.	4	40	53.1	.505	26.75	.....	.....	.....	.....	.....	.....	3	12	17	8	.....
Total	12	84	57.2	.429	24.17	.....	.....	.....	.....	.....	17	14	22	23	8	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 10-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Eastern	1	8	59.3	$0.225	$13.33	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	.....
Pittsburgh	4	25	66.1	.510	34.16	.....	.....	.....	.....	.....	.....	3	4	18	.....	.....
Total	5	33	64.4	.441	29.11	.....	.....	.....	.....	8	.....	3	4	18	.....	.....
1908.																
Eastern	1	8	59.3	.225	13.33	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	.....
Pittsburgh	4	29	66.9	.350	23.23	.....	.....	.....	.....	.....	6	15	8	.....	.....	.....
Total	5	37	65.2	.323	21.09	.....	.....	.....	.....	8	6	15	8	.....	.....	.....
1909.																
Eastern	1	8	59.3	.355	21.03	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
Pittsburgh	4	29	66.6	.374	24.48	.....	.....	.....	.....	.....	12	6	7	4	.....	.....
Total	5	37	65.0	.370	23.73	.....	.....	.....	.....	.....	12	14	7	4	.....	.....
1910.																
Eastern	1	8	52.5	.398	20.90	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
Pittsburgh	6	43	67.0	.415	27.49	.....	.....	.....	.....	.....	.....	20	12	11	.....	.....
Total	7	51	64.8	.412	26.45	.....	.....	.....	.....	.....	.....	28	12	11	.....	.....
1911.																
Eastern	1	8	48.8	.458	22.30	.....	.....	.....	.....	.....	.....	.....	6	2	.....	.....
Pittsburgh	6	43	66.0	.349	22.80	.....	.....	.....	.....	.....	3	29	11	.....	.....	.....
Total	7	51	63.3	.366	22.72	.....	.....	.....	.....	.....	3	29	17	2	.....	.....
1912.																
Eastern	1	8	48.8	.501	24.40	.....	.....	.....	.....	.....	.....	.....	4	4	.....	.....
Pittsburgh	6	43	66.0	.380	24.75	.....	.....	.....	.....	.....	6	20	14	3	.....	.....
Total	7	51	63.3	.399	24.69	.....	.....	.....	.....	.....	6	20	18	7	.....	.....

ROUGHERS: 12-INCH.

1907.																
Eastern	2	9	62.2	$0.445	$27.90	.....	.....	.....	.....	.....	.....	3	6	.....	.....	.....
Pittsburgh	3	26	69.1	.419	29.07	.....	.....	.....	.....	.....	6	2	14	4	.....	.....
G. L. and M. W.	3	27	60.9	.403	24.92	.....	.....	.....	.....	.....	.....	19	8	.....	.....	.....
Total	8	62	64.5	.416	27.10	.....	.....	.....	.....	.....	6	24	28	4	.....	.....
1908.																
Eastern	2	12	59.1	.345	20.58	.....	.....	.....	.....	.....	.....	12	.....	.....	.....	.....
Pittsburgh	3	24	70.2	.289	20.21	.....	.....	.....	.....	2	12	10	.....	.....	.....	.....
G. L. and M. W.	3	19	59.7	.288	17.78	.....	.....	.....	.....	9	6	.....	4	.....	.....	.....
Total	8	55	64.1	.301	19.45	.....	.....	.....	.....	11	18	22	4	.....	.....	.....
1909.																
Eastern	2	12	59.1	.375	22.58	.....	.....	.....	.....	.....	3	3	6	.....	.....	.....
Pittsburgh	3	24	69.8	.345	24.02	.....	.....	.....	.....	.....	.....	24	.....	.....	.....	.....
G. L. and M. W.	3	18	70.7	.344	24.23	.....	.....	.....	.....	.....	6	12	.....	.....	.....	.....
Total	8	54	67.7	.351	23.77	.....	.....	.....	.....	.....	9	39	6	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 12-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wage per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	5	29	58.3	$0.371	$21.84	.....	.....	.....	.....	.....	10	12	4	3	.....	.....
Pittsburgh	6	40	66.0	.405	26.77	.....	.....	.....	.....	.....	.....	19	21	.....	.....	.....
G. L. and M. W.	3	20	70.8	.418	29.61	.....	.....	.....	.....	.....	.....	8	12	.....	.....	.....
Total	14	89	64.6	.397	25.80	.....	.....	.....	.....	.....	10	39	37	3	.....	.....
1911.																
Eastern	5	24	59.4	.392	23.44	.....	.....	.....	.....	.....	8	7	3	6	.....	.....
Pittsburgh	6	38	66.2	.360	23.49	.....	.....	.....	.....	.....	6	24	7	1	.....	.....
G. L. and M. W.	3	19	70.7	.324	22.96	.....	.....	.....	.....	.....	8	11	.....	.....	.....	.....
Total	14	81	65.3	.361	23.35	.....	.....	.....	.....	.....	22	42	10	7	.....	.....
1912.																
Eastern	5	27	58.4	.453	26.61	.....	.....	.....	.....	.....	2	7	6	12	.....	.....
Pittsburgh	6	40	65.7	.330	21.76	.....	.....	.....	.....	4	5	31	.....	.....	.....	.....
G. L. and M. W.	3	18	70.7	.436	30.93	.....	.....	.....	.....	.....	.....	8	.....	10	.....	.....
Total	14	85	64.4	.391	25.24	.....	.....	.....	.....	4	7	46	6	22	.....	.....

ROUGHERS: 13-INCH, 14-INCH, AND 15-INCH.

1907.																
G. L. and M. W.	1	12	60.0	$0.289	$17.34	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....
1908.																
G. L. and M. W.	1	12	60.0	.250	15.00	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....
1909.																
G. L. and M. W.	1	12	60.0	.262	15.72	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....
1910.																
Eastern	1	2	72.0	.430	30.96	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	2	16	54.0	.473	25.07	.....	.....	.....	.....	.....	.....	4	9	3	.....	.....
G. L. and M. W.	2	30	64.8	.325	21.19	.....	.....	.....	.....	.....	12	18	.....	.....	.....	.....
Total	5	48	61.5	.379	22.89	.....	.....	.....	.....	.....	12	22	11	3	.....	.....
1911.																
Eastern	1	2	72.0	.447	32.18	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	2	16	54.0	.376	19.85	.....	.....	.....	.....	.....	2	9	5	.....	.....	.....
G. L. and M. W.	2	28	64.6	.309	20.04	.....	.....	.....	.....	.....	12	16	.....	.....	.....	.....
Total	5	46	61.2	.338	20.51	.....	.....	.....	.....	.....	14	25	7	.....	.....	.....
1912.																
Eastern	1	2	72.0	.426	30.67	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	2	16	54.0	.400	21.13	.....	.....	.....	.....	.....	.....	4	12	.....	.....	.....
G. L. and M. W.	2	29	64.7	.341	22.25	.....	.....	.....	.....	.....	12	7	10	.....	.....	.....
Total	5	47	61.4	.364	22.23	.....	.....	.....	.....	.....	12	11	24	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 16-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Eastern	2	14	60.5	$0.299	$18.37	.....	.....	.....	.....	8	.....	6	.....	.....	.....	.....
Pittsburgh	3	22	64.5	.381	24.63	.....	.....	.....	.....	.....	.....	18	4	.....	.....	.....
Total	5	36	63.0	.349	22.20	.....	.....	.....	.....	8	.....	24	4	.....	.....	.....
1908.																
Eastern	2	14	60.5	.307	18.92	.....	.....	.....	.....	8	.....	.....	6	.....	.....	.....
Pittsburgh	3	18	65.1	.381	24.80	.....	.....	.....	.....	.....	.....	10	8	.....	.....	.....
Total	5	32	63.1	.349	22.23	.....	.....	.....	.....	8	.....	10	14	.....	.....	.....
1909.																
Eastern	2	14	60.5	.293	18.07	.....	.....	.....	.....	8	.....	.....	6	.....	.....	.....
Pittsburgh	3	20	65.4	.384	25.12	.....	.....	.....	.....	.....	.....	12	8	.....	.....	.....
Total	5	34	63.4	.347	22.22	.....	.....	.....	.....	8	.....	12	14	.....	.....	.....
1910.																
Eastern	2	20	59.6	.284	17.20	.....	.....	.....	.....	14	.....	.....	6	.....	.....	.....
Pittsburgh	3	22	64.5	.486	31.42	.....	.....	.....	.....	.....	.....	6	8	8	.....	.....
Total	5	42	62.2	.390	24.65	.....	.....	.....	.....	14	.....	6	14	8	.....	.....
1911.																
Eastern	2	14	60.5	.306	18.86	.....	.....	.....	.....	8	.....	.....	6	.....	.....	.....
Pittsburgh	3	20	65.4	.490	31.93	.....	.....	.....	.....	.....	4	.....	4	12	.....	.....
G. L. and M. W.	1	8	57.8	.414	23.93	.....	.....	.....	.....	.....	.....	2	6	.....	.....	.....
Total	6	42	62.3	.415	26.05	.....	.....	.....	.....	8	4	2	16	12	.....	.....
1912.																
Eastern	2	10	58.9	.291	17.48	.....	.....	.....	.....	8	.....	.....	.....	2	.....	.....
Pittsburgh	3	22	64.5	.369	23.84	.....	.....	.....	.....	6	.....	8	8	.....	.....	.....
G. L. and M. W.	1	8	57.8	.528	30.77	.....	.....	.....	.....	.....	.....	.....	4	.....	4	.....
Total	6	40	61.8	.381	23.63	.....	.....	.....	.....	14	.....	8	12	2	4	.....

ROUGHERS: 18-INCH.

1907.																
Eastern	1	1	57.5	$0.539	$30.99	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
G. L. and M. W.	1	6	62.8	.358	22.46	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....
Total	2	7	62.0	.384	23.68	.....	.....	.....	.....	.....	.....	6	.....	1	.....	.....
1908.																
Eastern	1	2	53.8	.453	24.32	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
G. L. and M. W.	1	6	62.8	.314	19.67	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....
Total	2	8	60.5	.348	20.83	.....	.....	.....	.....	.....	.....	6	2	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS. 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 18-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1909.																
Eastern	1	2	53.8	$0.487	$26.18	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
G. L. and M. W.	1	6	62.8	.344	21.59	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....
Total	2	8	60.5	.380	22.73	.....	.....	.....	.....	.....	.....	6	1	1	.....	.....
1910.																
Eastern	4	17	58.2	.381	22.49	.....	.....	.....	.....	6	.....	.....	6	5	.....	.....
G. L. and M. W.	1	6	62.8	.507	31.81	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
Total	5	23	59.4	.414	24.92	.....	.....	.....	.....	6	.....	.....	6	11	.....	.....
1911.																
Eastern	4	13	59.2	.407	23.92	.....	.....	.....	.....	.....	2	6	.....	5	.....	.....
G. L. and M. W.	1	6	62.8	.523	32.82	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
Total	5	19	60.3	.444	26.73	.....	.....	.....	.....	.....	2	6	.....	11	.....	.....
1912.																
Eastern	4	16	57.5	.475	27.22	.....	.....	.....	.....	.....	2	.....	9	5	.....	.....
G. L. and M. W.	1	6	62.8	.441	27.64	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
Total	5	22	58.9	.465	27.34	.....	.....	.....	.....	.....	2	.....	15	5	.....	.....

ROUGHERS: ALL SIZES.

1907.																
Eastern	3	38	60.4	$0.316	$19.34	.....	.....	.....	.....	16	6	9	6	1	.....	.....
Pittsburgh	6	111	66.4	.424	28.35	.....	.....	.....	.....	.....	10	44	31	26	.....	.....
G. L. and M. W.	6	103	56.7	.487	26.63	.....	.....	.....	.....	.....	12	39	19	11	.....	22
Total	15	252	61.5	.434	26.28	.....	.....	.....	.....	16	28	92	56	38	.....	22
1908.																
Eastern	3	42	59.4	.301	18.00	.....	.....	.....	.....	16	6	12	8	.....	.....	.....
Pittsburgh	6	108	67.0	.341	22.72	.....	.....	.....	.....	8	26	45	29	.....	.....	.....
G. L. and M. W.	6	92	58.6	.365	21.29	.....	.....	.....	.....	9	18	19	38	8	.....	.....
Total	15	242	62.5	.343	21.35	.....	.....	.....	.....	33	50	76	75	8	.....	.....
1909.																
Eastern	3	42	59.4	.337	20.18	.....	.....	.....	.....	8	9	11	13	1	.....	.....
Pittsburgh	6	110	66.7	.370	24.54	.....	.....	.....	.....	.....	21	56	28	5	.....	.....
G. L. and M. W.	6	91	58.5	.379	21.69	.....	.....	.....	.....	.....	18	44	12	17	.....	.....
Total	15	243	62.4	.368	22.72	.....	.....	.....	.....	8	48	111	53	23	.....	.....
1910.																
Eastern	8	98	58.3	.356	20.91	.....	.....	.....	.....	20	17	26	27	8	.....	.....
Pittsburgh	10	215	62.7	.412	25.90	.....	.....	.....	.....	6	36	57	73	43	.....	.....
G. L. and M. W.	7	112	60.2	.422	25.01	.....	.....	.....	.....	.....	12	44	28	22	6	.....
Total	25	425	61.0	.402	24.51	.....	.....	.....	.....	26	65	127	128	73	6	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: ALL SIZES—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Eastern	8	86	58.3	$0.358	$20.48	.....	.....	.....	.....	14	22	17	20	13	.....	.....
Pittsburgh	10	202	61.9	.375	23.24	.....	.....	.....	.....	.....	32	104	49	17	.....	.....
G. L. and M. W.	8	115	59.8	.393	23.33	.....	.....	.....	.....	.....	20	55	18	18	4	.....
Total	26	403	60.5	.377	22.68	.....	.....	.....	.....	14	74	176	87	48	4	.....
1912.																
Eastern	8	91	57.3	.396	22.70	.....	.....	.....	.....	8	21	15	24	23	.....	.....
Pittsburgh	10	204	61.8	.361	22.29	.....	.....	.....	.....	16	33	89	56	10	.....	.....
G. L. and M. W.	8	113	59.8	.435	25.82	.....	.....	.....	.....	.....	18	18	38	27	12	.....
Total	26	408	60.2	.389	23.36	.....	.....	.....	.....	24	72	122	118	60	12	.....
CATCHERS: 8-INCH.																
1907.																
Eastern	1	2	59.3	$0.225	$13.33	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
Pittsburgh	1	8	58.0	.393	22.79	.....	.....	.....	.....	.....	.....	4	4	.....	.....	.....
G. L. and M. W.	1	8	54.5	.366	19.95	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
Total	3	18	56.6	.362	20.48	.....	.....	.....	.....	2	.....	12	4	.....	.....	.....
1908.																
Eastern	1	2	59.3	.225	13.33	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
Pittsburgh	1	8	58.0	.312	18.07	.....	.....	.....	.....	.....	2	6	.....	.....	.....	.....
G. L. and M. W.	1	8	54.5	.419	22.84	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....
Total	3	18	56.6	.350	19.66	.....	.....	.....	.....	2	2	6	8	.....	.....	.....
1909.																
Eastern	1	2	59.3	.261	15.46	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	1	8	58.0	.338	19.58	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
G. L. and M. W.	1	8	54.5	.350	19.08	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
Total	3	18	56.6	.335	18.90	.....	.....	.....	.....	.....	2	16	.....	.....	.....	.....
1910.																
Eastern	3	4	55.8	.269	15.20	.....	.....	.....	.....	3	.....	.....	1	.....	.....	.....
Pittsburgh	2	14	53.7	.373	20.21	.....	.....	.....	.....	.....	3	9	2	.....	.....	.....
G. L. and M. W.	1	8	54.5	.353	19.24	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
Total	6	26	54.3	.351	19.14	.....	.....	.....	.....	3	3	17	3	.....	.....	.....
1911.																
Eastern	3	5	54.8	.234	12.98	.....	.....	.....	2	2	.....	1	.....	.....	.....	.....
Pittsburgh	2	14	53.7	.356	19.18	.....	.....	.....	.....	.....	.....	14	.....	.....	.....	.....
G. L. and M. W.	1	8	54.5	.308	16.79	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
Total	6	27	54.1	.319	17.32	.....	.....	.....	2	2	.....	23	.....	.....	.....	.....
1912.																
Eastern	3	5	54.8	.259	14.46	.....	.....	1	.....	1	2	.....	1	.....	.....	.....
Pittsburgh	2	14	53.7	.331	17.81	.....	.....	.....	.....	.....	2	12	.....	.....	.....	.....
G. L. and M. W.	1	6	54.5	.429	23.38	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
Total	6	25	54.1	.340	18.48	.....	.....	1	.....	1	4	12	7	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 9-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Pittsburgh	1	4	65.0	$0.413	$26.85								4			
G. L. and M. W.	1	8	54.5	.505	27.52									8		
Total	2	12	58.0	.474	27.30								4	8		
1908.																
Pittsburgh	1	4	65.0	.332	21.58							4				
G. L. and M. W.	1	8	54.5	.516	28.12									8		
Total	2	12	58.0	.455	25.94							4		8		
1909.																
Pittsburgh	1	4	65.0	.482	31.33								4			
G. L. and M. W.	1	8	54.5	.502	27.36									8		
Total	2	12	58.0	.495	28.68								4	8		
1910.																
Eastern	1	2	60.0	.444	26.64								2			
Pittsburgh	2	7	57.7	.461	26.84								7			
G. L. and M. W.	1	8	54.5	.546	29.76									8		
Total	4	17	56.5	.499	28.19								9	8		
1911.																
Eastern	1	2	63.0	.267	16.82						2					
Pittsburgh	2	7	57.7	.332	19.32							7				
G. L. and M. W.	1	8	54.5	.578	31.50									8		
Total	4	17	56.8	.440	24.76						2	7		8		
1912.																
Eastern	1	2	63.0	.257	16.19						2					
Pittsburgh	2	5	54.8	.323	17.28						2	3				
G. L. and M. W.	1	8	54.5	.686	37.39										8	
Total	4	15	55.7	.508	27.86						4	3			8	

CATCHERS: 10-INCH.

1907.																
Pittsburgh	1	10	72.0	$0.352	$25.35							9	1			
1908.																
Pittsburgh	1	10	72.0	.377	27.14							7	3			
1909.																
Pittsburgh	1	10	71.5	.379	27.06							7	3			
1910.																
Eastern	1	4	52.5	.248	13.02					4						
Pittsburgh	2	12	71.6	.428	30.65						2		10			
Total	3	16	66.8	.383	26.24					4	2		10			

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 10-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Eastern	1	4	48.8	$0.286	$13.94						3	1				
Pittsburgh	2	12	71.6	.391	27.96				1	1		2	8			
Total	3	16	65.9	.365	24.46				1	1	3	3	8			
1912.																
Eastern	1	4	48.8	.312	15.21						2	2				
Pittsburgh	2	12	71.6	.455	32.57						2		8	2		
Total	3	16	65.9	.419	28.23						4	2	8	2		

CATCHERS: 12-INCH.

1907.																
Eastern	2	6	62.2	$0.285	$17.53					4		2				
Pittsburgh	3	10	67.6	.543	36.71								1	9		
Total	5	16	65.6	.446	29.52					4		2	1	9		
1908.																
Eastern	2	8	59.1	.276	16.16						6	2				
Pittsburgh	3	9	68.4	.354	24.20						1	7			1	
Total	5	17	64.1	.317	20.42						7	9			1	
1909.																
Eastern	2	8	59.1	.255	14.90					4	2	2				
Pittsburgh	3	9	68.2	.432	29.46							6	2			1
Total	5	17	63.9	.349	22.61					4	2	8	2			1
1910.																
Eastern	4	11	59.7	.321	18.94						6	4	1			
Pittsburgh	6	17	64.2	.457	29.58							5	8	4		
Total	10	28	62.5	.403	25.40						6	9	9	4		
1911.																
Eastern	4	11	59.7	.309	18.23					2	4	4	1			
Pittsburgh	6	16	63.8	.409	26.11							11	4			1
Total	10	27	62.1	.368	22.90					2	4	15	5			1
1912.																
Eastern	4	12	58.9	.352	20.49						4	6	2			
Pittsburgh	6	17	63.6	.346	22.25					4	2	6	3	2		
Total	10	29	61.7	.348	21.52					4	6	12	5	2		

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 13-INCH, 14-INCH, AND 15-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	1	2	72.0	$0.365	$26.28							2				
Pittsburgh	2	5	57.6	.495	28.17								2	3		
Total	3	7	61.7	.458	27.63							2	2	3		
1911.																
Eastern	1	2	72.0	.388	27.94							2				
Pittsburgh	2	5	57.6	.393	22.32							3	2			
Total	3	7	61.7	.392	23.92							5	2			
1912.																
Eastern	1	2	72.0	.375	27.00							2				
Pittsburgh	2	5	57.6	.419	23.78							2	3			
Total	3	7	61.7	.407	24.70							4	3			

CATCHERS: 16-INCH.

1907.																
Eastern	1	2	64.5	$0.488	$31.48								2			
Pittsburgh	3	8	64.5	.673	43.40							4				4
Total	4	10	64.5	.636	41.02							4	2			4
1908.																
Eastern	1	2	64.5	.511	32.96									2		
Pittsburgh	3	7	65.1	.496	32.32						2	3				2
Total	4	9	65.0	.499	32.46						2	3		2		2
1909.																
Eastern	1	2	64.5	.503	32.44									2		
Pittsburgh	3	7	65.1	.566	37.04							4				3
Total	4	9	65.0	.552	36.02							4		2		3
1910.																
Eastern	1	2	64.5	.513	33.09									2		
Pittsburgh	3	10	64.6	.553	35.77								4	2	4	
Total	4	12	64.6	.547	35.32								4	4	4	
1911.																
Eastern	1	2	64.5	.509	32.83									2		
Pittsburgh	3	7	65.1	.709	46.20								4		1	2
Total	4	9	65.0	.664	43.23								4	2	1	2
1912.																
Eastern	1	1	64.5	.452	29.15								1			
Pittsburgh	3	8	64.5	.518	33.48								6			2
Total	4	9	64.5	.511	33.00								7			2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 18-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Eastern	1	1	57.5	$0.320	$18.40	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
G. L. and M. W.	1	2	62.8	.474	29.74	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
Total	2	3	61.0	.423	25.96	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....
1908.																
Eastern	1	2	53.8	.268	14.41	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
G. L. and M. W.	1	2	62.8	.361	22.62	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
Total	2	4	58.3	.314	18.51	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....
1909.																
Eastern	1	2	53.8	.293	15.72	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
G. L. and M. W.	1	2	62.8	.400	25.07	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....
Total	2	4	58.3	.346	20.40	.....	.....	.....	.....	.....	1	2	1	.....	.....	.....
1910.																
Eastern	4	7	57.4	.312	18.12	.....	.....	.....	2	.....	.....	4	1	.....	.....	.....
G. L. and M. W.	1	2	62.8	.593	37.21	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
Total	5	9	58.6	.375	22.36	.....	.....	.....	2	.....	.....	4	1	2	.....	.....
1911.																
Eastern	4	6	57.8	.309	17.83	.....	.....	.....	.....	1	2	2	1	.....	.....	.....
G. L. and M. W.	1	2	62.8	.550	34.48	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
Total	5	8	59.0	.369	21.99	.....	.....	.....	.....	1	2	2	1	2	.....	.....
1912.																
Eastern	4	7	56.6	.355	20.18	.....	.....	.....	.....	1	.....	4	2	.....	.....	.....
G. L. and M. W.	1	2	62.8	.515	32.29	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
Total	5	9	58.0	.391	22.87	.....	.....	.....	.....	1	.....	4	2	2	.....	.....

CATCHERS: ALL SIZES.

1907.																
Eastern	3	11	61.6	$0.314	$19.38	.....	.....	.....	.....	6	.....	3	2	.....	.....	.....
Pittsburgh	6	40	65.9	.478	31.44	.....	.....	.....	.....	.....	.....	17	10	9	.....	4
G. L. and M. W.	2	18	55.4	.440	24.40	.....	.....	.....	.....	.....	.....	8	1	9	.....	.....
Total	11	69	62.5	.442	27.68	.....	.....	.....	.....	6	.....	28	13	18	.....	4
1908.																
Eastern	3	14	59.1	.301	17.91	.....	.....	.....	.....	2	8	2	.....	2	.....	.....
Pittsburgh	6	38	66.2	.375	24.91	.....	.....	.....	.....	.....	5	27	3	.....	1	2
G. L. and M. W.	2	18	55.4	.456	25.16	.....	.....	.....	.....	.....	.....	2	8	8	.....	.....
Total	11	70	62.0	.381	23.57	.....	.....	.....	.....	2	13	31	11	10	1	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: ALL SIZES—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1909.																
Eastern	3	14	59.1	$0.297	$17.60	.....	.....	.....	.....	4	5	3	.....	2	.....	.....
Pittsburgh	6	38	66.0	.428	28.34	.....	.....	.....	.....	.....	.....	25	9	.....	.....	4
G. L. and M.W.	2	18	55.4	.423	23.42	.....	.....	.....	.....	.....	.....	9	1	8	.....	.....
Total	11	70	61.9	.400	24.93	.....	.....	.....	.....	4	5	37	10	10	.....	4
1910.																
Eastern	8	32	58.9	.326	19.38	.....	.....	.....	2	7	6	10	5	2	.....	.....
Pittsburgh	10	65	62.2	.452	28.31	.....	.....	.....	.....	.....	5	14	33	9	4	.....
G. L. and M.W.	2	18	55.4	.465	25.91	.....	.....	.....	.....	.....	.....	8	.....	10	.....	.....
Total	20	115	60.2	.419	25.45	.....	.....	.....	2	7	11	32	38	21	4	.....
1911.																
Eastern	8	32	58.5	.309	18.23	.....	.....	.....	2	5	11	10	2	2	.....	.....
Pittsburgh	10	61	62.0	.417	26.10	.....	.....	.....	1	1	.....	37	18	.....	1	3
G. L. and M.W.	2	18	55.4	.455	29.12	.....	.....	.....	.....	.....	.....	8	.....	10	.....	.....
Total	20	111	59.9	.392	24.32	.....	.....	.....	3	6	11	55	20	12	1	3
1912.																
Eastern	8	33	57.8	.332	19.27	.....	.....	1	.....	2	10	14	6	.....	.....	.....
Pittsburgh	10	61	61.8	.391	24.45	.....	.....	.....	.....	4	8	23	20	4	.....	2
G. L. and M.W.	2	16	55.5	.568	35.53	.....	.....	.....	.....	.....	.....	.....	6	2	8	.....
Total	20	110	59.7	.399	24.51	.....	.....	1	.....	6	18	37	32	6	8	2

STRANDERS: 8-INCH.

1907.																
Eastern	1	4	59.3	$0.200	$11.85	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	4	40	63.5	.282	17.77	.....	.....	.....	2	14	11	7	6	.....	.....	.....
G. L. and M.W.	2	12	61.0	.415	26.02	.....	.....	.....	.....	2	.....	4	.....	6	.....	.....
Total	7	56	62.6	.305	19.11	.....	.....	.....	2	20	11	11	6	6	.....	.....
1908.																
Eastern	1	4	59.3	.200	11.85	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	4	40	63.5	.257	16.28	1	1	.....	.....	12	20	6	.....	.....	.....	.....
G. L. and M.W.	2	12	61.5	.321	20.03	.....	.....	.....	.....	2	.....	10	.....	.....	.....	.....
Total	7	56	62.8	.267	16.77	1	1	.....	.....	18	20	16	.....	.....	.....	.....
1909.																
Eastern	1	4	59.3	.233	13.81	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	4	40	63.4	.271	17.04	.....	1	1	.....	10	20	8	.....	.....	.....	.....
G. L. and M.W.	2	12	61.5	.299	18.94	.....	.....	.....	.....	4	2	6	.....	.....	.....	.....
Total	7	56	62.7	.274	17.22	.....	1	1	.....	18	22	14	.....	.....	.....	.....
1910.																
Eastern	3	5	56.5	.216	12.32	.....	.....	2	.....	2	.....	1	.....	.....	.....	.....
Pittsburgh	6	58	62.1	.275	17.06	[1] 4	2	3	.....	11	22	12	4	.....	.....	.....
G. L. and M.W.	2	12	61.5	.298	18.69	.....	.....	.....	.....	2	4	6	.....	.....	.....	.....
Total	11	75	61.6	.275	17.00	[1] 4	2	5	.....	15	26	19	4	.....	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 8-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Eastern	3	7	56.1	$0.200	$11.27	.....	.....	1	5	.....	1	.....	.....	.....	.....	.....
Pittsburgh	6	54	60.7	.256	15.67	[1] 4	.....	3	6	12	9	20	.....	.....	.....	.....
G. L. and M.W.	2	12	61.5	.244	14.90	.....	.....	.....	.....	8	4	.....	.....	.....	.....	.....
Total	11	73	60.4	.249	15.12	[1] 4	.....	4	11	20	14	20	.....	.....	.....	.....
1912.																
Eastern	3	7	56.1	.228	12.89	.....	.....	1	.....	5	.....	1	.....	.....	.....	.....
Pittsburgh	6	54	60.7	.245	15.04	[1] 5	2	3	7	3	20	14	.....	.....	.....	.....
G. L. and M.W.	2	12	61.5	.245	15.32	.....	.....	.....	.....	6	6	.....	.....	.....	.....	.....
Total	11	73	60.4	.244	14.88	[1] 5	2	4	7	14	26	15	.....	.....	.....	.....
STRANDERS: 9-INCH.																
1907.																
Pittsburgh	3	11	65.5	$0.227	$14.85	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....
G. L. and M.W.	3	30	52.9	.457	22.91	.....	.....	.....	.....	.....	6	6	.....	9	9	.....
Total	6	41	56.2	.395	20.75	.....	.....	2	.....	9	6	6	.....	9	9	.....
1908.																
Pittsburgh	3	11	65.5	.185	12.08	2	.....	.....	9	.....	.....	.....	.....	.....	.....	.....
G. L. and M.W.	3	28	52.8	.312	16.28	.....	.....	.....	.....	2	6	20	.....	.....	.....	.....
Total	6	39	56.4	.276	15.10	2	.....	.....	9	2	6	20	.....	.....	.....	.....
1909.																
Pittsburgh	3	11	65.4	.246	16.04	1	1	1	.....	.....	8	.....	.....	.....	.....	.....
G. L. and M.W.	3	28	52.8	.304	15.64	.....	.....	.....	.....	8	2	18	.....	.....	.....	.....
Total	6	39	56.3	.287	15.75	1	1	1	.....	8	10	18	.....	.....	.....	.....
1910.																
Eastern	2	13	58.8	.228	13.39	.....	.....	.....	6	5	.....	2	.....	.....	.....	.....
Pittsburgh	5	23	67.0	.240	16.02	.....	2	.....	.....	12	9	.....	.....	.....	.....	.....
G. L. and M.W.	3	28	52.8	.358	18.65	.....	.....	.....	.....	2	.....	26	.....	.....	.....	.....
Total	10	64	59.1	.289	16.64	.....	2	.....	6	19	9	28	.....	.....	.....	.....
1911.																
Eastern	2	10	58.2	.176	10.19	.....	2	.....	8	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	5	24	65.7	.198	13.02	.....	1	3	3	17	.....	.....	.....	.....	.....	.....
G. L. and M.W.	3	28	52.8	.316	17.06	.....	.....	.....	.....	.....	18	7	3	.....	.....	.....
Total	10	62	58.6	.247	14.39	.....	3	3	11	17	18	7	3	.....	.....	.....
1912.																
Eastern	2	13	57.5	.176	10.07	2	.....	2	9	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	5	20	65.8	.196	12.85	.....	4	4	.....	12	.....	.....	.....	.....	.....	.....
G. L. and M.W.	3	28	52.8	.291	15.42	.....	.....	.....	.....	2	9	17	.....	.....	.....	.....
Total	10	61	58.0	.235	13.44	2	4	6	9	14	9	17	.....	.....	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 10-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Eastern	1	4	59.3	$0.180	$10.67	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	39	54.7	.372	20.38	.....	.....	.....	.....	.....	.....	39	.....	.....	.....	.....
Total	5	43	55.1	.354	19.47	.....	.....	.....	4	.....	.....	39	.....	.....	.....	.....
1908.																
Eastern	1	4	59.3	.180	10.67	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	4	39	54.7	.335	17.74	.....	.....	.....	.....	8	2	29	.....	.....	.....	.....
Total	5	43	55.1	.320	17.08	.....	.....	.....	4	8	2	29	.....	.....	.....	.....
1909.																
Eastern	1	4	59.3	.315	18.66	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
Pittsburgh	4	39	54.5	.384	20.08	.....	.....	.....	.....	.....	10	17	12	.....	.....	.....
Total	5	43	55.0	.378	19.95	.....	.....	.....	.....	.....	10	21	12	.....	.....	.....
1910.																
Eastern	1	4	52.5	.167	8.77	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	53	58.1	.406	22.06	.....	.....	.....	.....	8	6	18	.....	21	.....	.....
Total	7	57	57.7	.390	21.13	.....	.....	4	.....	8	6	18	.....	21	.....	.....
1911.																
Eastern	1	4	48.8	.189	9.19	.....	.....	1	2	1	.....	.....	.....	.....	.....	.....
Pittsburgh	6	53	57.3	.333	17.96	.....	3	.....	3	8	9	9	21	.....	.....	.....
Total	7	57	56.7	.322	17.35	.....	3	1	5	9	9	9	21	.....	.....	.....
1912.																
Eastern	1	4	48.8	.208	10.12	.....	.....	.....	1	3	.....	.....	.....	.....	.....	.....
Pittsburgh	6	53	57.3	.382	20.44	.....	.....	.....	.....	8	15	9	9	12	.....	.....
Total	7	57	56.7	.370	19.71	.....	.....	.....	1	11	15	9	9	12	.....	.....

STRANDERS: 12-INCH.

1907.																
Eastern	1	2	64.5	$0.302	$19.48	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
Pittsburgh	1	3	64.0	.258	16.51	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....
G. L. and M. W.	1	8	72.0	.400	28.80	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....
Total	3	13	69.0	.352	24.53	.....	.....	.....	.....	.....	3	2	8	.....	.....	.....
1908.																
Eastern	1	2	64.5	.305	19.67	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
Pittsburgh	1	2	68.0	.265	18.02	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
G. L. and M. W.	1	10	72.0	.284	20.45	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	.....
Total	3	14	70.4	.284	19.99	.....	.....	.....	.....	.....	12	2	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 12-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1909.																
Eastern	1	2	64.5	$0.273	$17.61	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	1	2	68.0	.265	18.02	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
G. L. and M. W.	1	10	72.0	.302	21.74	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	.....
Total	3	14	70.4	.293	20.62	.....	.....	.....	.....	.....	4	10	.....	.....	.....	.....
1910.																
Eastern	4	15	57.5	.234	13.59	.....	.....	.....	.....	12	.....	3	.....	.....	.....	.....
Pittsburgh	4	23	65.7	.230	14.72	.....	.....	.....	4	12	4	3	.....	.....	.....	.....
G. L. and M. W.	1	10	72.0	.494	35.57	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	.....
Total	9	48	64.4	.286	18.71	.....	.....	.....	4	24	4	6	10	.....	.....	.....
1911.																
Eastern	4	9	59.2	.238	14.19	.....	.....	.....	2	4	.....	3	.....	.....	.....	.....
Pittsburgh	4	21	64.6	.227	14.22	.....	.....	.....	14	2	2	2	1	.....	.....	.....
G. L. and M. W.	1	10	72.0	.392	28.22	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	.....
Total	9	40	65.3	.271	17.71	.....	.....	.....	16	6	2	15	1	.....	.....	.....
1912.																
Eastern	4	10	58.3	.273	16.06	.....	.....	.....	.....	4	2	4	.....	.....	.....	.....
Pittsburgh	4	23	64.2	.216	13.63	.....	.....	.....	14	2	6	1	.....	.....	.....	.....
G. L. and M. W.	1	10	72.0	.559	40.25	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	.....
Total	9	43	64.7	.309	20.38	.....	.....	.....	14	6	8	5	.....	10	.....	.....

STRANDERS: 13-INCH, 14-INCH, AND 15-INCH.

1907.																
G. L. and M. W.	1	20	60.0	$0.233	$14.00	.....	2	2	....	8	8	.....	.....	.....	.....	.....
1908.																
G. L. and M. W.	1	20	60.0	.201	12.06	.....	2	2	....	16	.....	.....	.....	.....	.....	.....
1909.																
G. L. and M. W.	1	20	60.0	.211	12.65	.....	2	2	....	16	.....	.....	.....	.....	.....	.....
1910.																
G. L. and M. W.	1	26	60.0	.224	13.46	.....	.....	2	8	8	8	.....	.....	.....	.....	.....
1911.																
G. L. and M. W.	1	20	60.0	.221	13.25	.....	.....	4	....	16	.....	.....	.....	.....	.....	.....
1912.																
G. L. and M. W.	1	22	60.0	.217	13.01	.....	.....	6	....	16	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 16-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Pittsburgh	1	2	65.0	$0.361	$23.47	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
1908.																
Pittsburgh	1	2	65.0	.344	22.36	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
1909.																
Pittsburgh	1	2	65.0	.299	19.44	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
1910.																
Pittsburgh	1	2	65.0	.484	31.46	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
1911.																
Pittsburgh	1	2	65.0	.480	31.20	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
G. L. and M. W.	1	8	55.0	.410	22.55	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....
Total	2	10	57.0	.424	24.28	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	.....
1912.																
Pittsburgh	1	2	65.0	.300	19.50	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
G. L. and M. W.	1	8	55.0	.431	23.71	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....
Total	2	10	57.0	.405	22.86	.....	.....	.....	.....	.....	.....	2	8	.....	.....	.....

STRANDERS: ALL SIZES.

1907.																
Eastern	2	10	60.3	$0.212	$12.90	.....	.....	.....	4	4	.....	2	.....	.....	.....	.....
Pittsburgh	6	95	60.1	.314	18.58	.....	.....	2	2	23	14	48	6	.....	.....	.....
G. L. and M. W.	5	70	58.5	.379	21.57	.....	2	2	.....	10	14	10	8	15	9	.....
Total	13	175	59.5	.334	19.45	.....	2	4	6	37	28	60	14	15	9	.....
1908.																
Eastern	2	10	60.3	.213	12.94	.....	.....	.....	4	4	.....	2	.....	.....	.....	.....
Pittsburgh	6	94	60.2	.283	16.56	3	1	.....	9	20	24	37	.....	.....	.....	.....
G. L. and M. W.	5	70	59.1	.278	16.31	.....	2	2	.....	20	16	30	.....	.....	.....	.....
Total	13	174	59.7	.277	16.25	3	3	2	13	44	40	69	.....	.....	.....	.....
1909.																
Eastern	2	10	60.3	.274	16.51	.....	.....	.....	.....	4	2	4	.....	.....	.....	.....
Pittsburgh	6	94	60.1	.315	18.26	1	2	2	.....	10	42	25	12	.....	.....	.....
G. L. and M. W.	5	70	59.1	.276	16.22	.....	2	2	.....	28	4	34	.....	.....	.....	.....
Total	13	174	59.7	.297	17.34	1	4	4	.....	42	48	63	12	.....	.....	.....
1910.																
Eastern	6	37	57.3	.222	12.83	.....	.....	6	6	19	.....	6	.....	.....	.....	.....
Pittsburgh	10	159	62.0	.310	18.42	[1] 4	4	3	4	43	41	33	6	21	.....	.....
G. L. and M. W.	5	76	59.2	.321	19.11	.....	.....	2	8	12	12	32	10	.....	.....	.....
Total	21	272	60.6	.301	17.85	[1] 4	4	11	18	74	53	71	16	21	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: ALL SIZES—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over
1911.																
Eastern	6	30	56.8	$0.202	$11.51	.....	2	2	17	5	1	3	.....	.....	.....	.....
Pittsburgh	10	154	60.9	.272	16.05	[1] 4	4	6	26	39	20	31	24	.....	.....	.....
G. L. and M. W.	6	78	58.7	.300	17.74	.....	.....	4	.....	24	22	17	11	.....	.....	.....
Total	22	262	59.8	.272	16.03	[1] 4	6	12	43	68	43	51	35	.....	.....	.....
1912.																
Eastern	6	34	56.4	.219	12.42	2	.....	3	10	12	2	5	.....	.....	.....	.....
Pittsburgh	10	152	60.8	.283	16.48	[1] 5	6	7	21	25	41	26	9	12	.....	.....
G. L. and M. W.	6	80	58.7	.311	18.67	.....	.....	6	.....	24	15	17	8	10	.....	.....
Total	22	266	59.6	.283	16.62	[1] 7	6	16	31	61	58	48	17	22	.....	.....
FINISHERS: 8-INCH.																
1907.																
Eastern	1	2	59.3	$0.275	$16.29	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	3	6	67.5	.362	24.80	.....	.....	.....	.....	2	.....	2	1	1	.....	.....
G. L. and M. W.	2	6	63.3	.243	15.11	.....	.....	.....	2	2	.....	2	.....	.....	.....	.....
Total	6	14	64.5	.298	19.43	.....	.....	.....	2	4	2	4	1	1	.....	.....
1908.																
Eastern	1	2	59.3	.275	16.29	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	3	6	67.5	.316	21.67	.....	.....	.....	.....	2	1	1	2	.....	.....	.....
G. L. and M. W.	2	6	64.0	.239	14.96	.....	.....	.....	2	2	.....	2	.....	.....	.....	.....
Total	6	14	64.8	.277	18.03	.....	.....	.....	2	4	3	3	2	.....	.....	.....
1909.																
Eastern	1	2	59.3	.320	18.96	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
Pittsburgh	3	6	67.2	.329	22.30	.....	.....	.....	.....	.....	2	2	2	.....	.....	.....
G. L. and M. W.	2	6	64.0	.242	15.17	.....	.....	.....	2	2	.....	2	.....	.....	.....	.....
Total	6	14	64.7	.290	18.77	.....	.....	.....	2	2	2	6	2	.....	.....	.....
1910.																
Eastern	2	2	59.1	.304	17.94	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
Pittsburgh	5	16	59.4	.316	18.81	.....	.....	2	.....	.....	5	7	2	.....	.....	.....
G. L. and M. W.	2	6	64.0	.266	16.85	.....	.....	.....	.....	2	2	2	.....	.....	.....	.....
Total	9	24	60.6	.303	18.24	.....	.....	2	.....	2	7	11	2	.....	.....	.....
1911.																
Eastern	2	3	58.8	.260	15.28	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....
Pittsburgh	5	16	58.1	.323	18.96	.....	.....	2	.....	.....	4	8	1	1	.....	.....
G. L. and M. W.	2	6	64.0	.267	16.87	.....	.....	.....	.....	2	2	2	.....	.....	.....	.....
Total	9	25	59.6	.302	18.01	.....	.....	2	.....	2	9	10	1	1	.....	.....
1912.																
Eastern	2	3	58.8	.296	17.45	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....
Pittsburgh	5	16	58.1	.305	17.92	.....	.....	2	.....	1	6	5	1	1	.....	.....
G. L. and M. W.	2	6	64.0	.266	16.85	.....	.....	.....	.....	2	2	2	.....	.....	.....	.....
Total	9	25	59.6	.295	17.60	.....	.....	2	.....	3	9	9	1	1	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 9-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Pittsburgh	2	3	66.7	$0.218	$14.55	....	....	....	2	....	1	....	....	....	....	....
G. L. and M. W.	3	12	66.9	.251	16.67	[1] 2	....	....	....	4	4	....	2	....	....	....
Total	5	15	66.8	.244	16.24	[1] 2	....	....	2	4	5	....	2	....	....	....
1908.																
Pittsburgh	2	3	66.7	.191	12.78	....	2	....	....	....	1	....	....	....	....	....
G. L. and M. W.	3	11	68.2	.260	17.56	1	....	....	....	4	4	2	....	....	....	....
Total	5	14	67.9	.245	16.53	1	2	....	....	4	5	2	....	....	....	....
1909.																
Pittsburgh	2	3	66.3	.205	13.68	....	....	1	1	....	1	....	....	....	....	....
G. L. and M. W.	3	11	68.2	.267	18.04	1	....	....	....	4	4	2	....	....	....	....
Total	5	14	67.8	.254	17.10	1	....	1	1	4	5	2	....	....	....	....
1910.																
Eastern	1	3	58.3	.299	17.38	....	....	....	....	....	2	1	....	....	....	....
Pittsburgh	5	10	61.7	.294	17.40	....	....	2	....	2	3	....	3	....	....	....
G. L. and M. W.	3	11	68.2	.277	18.67	1	....	....	....	4	4	....	2	....	....	....
Total	9	24	64.3	.287	17.98	1	....	2	....	6	9	1	5	....	....	....
1911.																
Eastern	1	2	55.0	.300	16.50	....	....	....	....	....	....	2	....	....	....	....
Pittsburgh	5	10	60.6	.257	15.34	....	....	1	1	2	3	3	....	....	....	....
G. L. and M. W.	3	11	68.2	.281	18.97	1	....	....	....	4	4	....	2	....	....	....
Total	9	23	63.8	.272	17.18	1	....	1	1	6	7	5	2	....	....	....
1912.																
Eastern	1	3	55.0	.300	16.50	....	....	....	....	....	....	3	....	....	....	....
Pittsburgh	5	10	60.6	.279	16.47	....	....	1	1	....	5	3	....	....	....	....
G. L. and M. W.	3	11	68.2	.281	18.94	1	....	....	....	4	4	....	2	....	....	....
Total	9	24	63.4	.282	17.61	1	....	1	1	4	9	6	2	....	....	....

FINISHERS: 10-INCH.

1907.																
Eastern	1	2	59.3	$0.275	$16.29	....	....	....	....	....	2	....	....	....	....	....
Pittsburgh	3	8	70.1	.426	30.04	....	....	....	....	....	....	2	4	2	....	....
Total	4	10	68.0	.396	27.29	....	....	....	....	....	2	2	4	2	....	....
1908.																
Eastern	1	2	59.3	.275	16.29	....	....	....	....	....	2	....	....	....	....	....
Pittsburgh	3	8	70.1	.359	25.28	....	....	....	....	....	2	4	2	....	....	....
Total	4	10	68.0	.342	23.48	....	....	....	....	....	4	4	2	....	....	....

[1] Including 1 employee earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 10-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1909.																
Eastern	1	2	59.3	$0.434	$25.72	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	3	8	69.8	.375	26.27	.....	.....	.....	.....	.....	.....	5	3	.....	.....	.....
Total	4	10	67.7	.387	26.16	.....	.....	.....	.....	.....	.....	5	5	.....	.....	.....
1910.																
Pittsburgh	5	12	69.3	.376	26.20	.....	.....	.....	.....	2	2	4	2	2	.....	.....
1911.																
Pittsburgh	5	12	68.4	.329	22.72	.....	.....	1	1	2	2	2	3	1	.....	.....
1912.																
Pittsburgh	5	12	68.4	.358	24.73	.....	.....	.....	.....	.....	5	4	1	2	.....	.....

FINISHERS: 12-INCH.

1907.																
Pittsburgh	2	6	69.3	$0.335	$22.96	.....	.....	.....	.....	.....	4	.....	2	.....	.....	.....
G. L. and M. W.	2	6	69.3	.338	23.60	.....	.....	.....	.....	.....	2	2	2	.....	.....	.....
Total	4	12	69.3	.336	23.28	.....	.....	.....	.....	.....	6	2	4	.....	.....	.....
1908.																
Pittsburgh	2	5	71.2	.250	17.64	.....	.....	2	.....	2	.....	.....	1	.....	.....	.....
G. L. and M. W.	2	6	70.0	.288	20.21	.....	.....	.....	.....	.....	4	2	.....	.....	.....	.....
Total	4	11	70.5	.271	19.04	.....	.....	2	.....	2	4	2	1	.....	.....	.....
1909.																
Pittsburgh	2	5	70.8	.284	20.02	.....	.....	.....	.....	2	2	.....	1	.....	.....	.....
G. L. and M. W.	2	6	70.0	.307	21.53	.....	.....	.....	.....	.....	2	4	.....	.....	.....	.....
Total	4	11	70.4	.297	20.85	.....	.....	.....	.....	2	4	4	1	.....	.....	.....
1910.																
Eastern	1	1	64.0	.281	17.98	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Pittsburgh	5	13	64.0	.338	21.16	.....	.....	.....	.....	.....	4	4	5	.....	.....	.....
G. L. and M. W.	2	6	70.0	.383	26.96	.....	.....	.....	.....	.....	2	2	.....	2	.....	.....
Total	8	20	65.8	.349	22.74	.....	.....	.....	.....	.....	7	6	5	2	.....	.....
1911.																
Eastern	3	4	55.1	.223	12.35	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....
Pittsburgh	5	12	63.4	.316	19.34	.....	.....	.....	.....	6	2	.....	3	1	.....	.....
G. L. and M. W.	2	6	70.0	.350	24.64	.....	.....	.....	.....	.....	2	2	2	.....	.....	.....
Total	10	22	63.7	.309	19.51	.....	.....	.....	2	6	6	2	5	1	.....	.....
1912.																
Eastern	3	5	54.1	.229	12.41	.....	.....	.....	2	.....	3	.....	.....	.....	.....	.....
Pittsburgh	5	13	63.2	.301	18.77	.....	.....	.....	.....	5	3	3	2	.....	.....	.....
G. L. and M. W.	2	6	70.0	.400	28.24	.....	.....	.....	.....	.....	4	.....	.....	.....	2	.....
Total	10	24	63.0	.311	19.81	.....	.....	.....	2	5	10	3	2	.....	2	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 13-INCH, 14-INCH, AND 15-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
G. L. and M. W.	1	4	60.0	$0.315	$18.90	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
1908.																
G. L. and M. W.	1	4	60.0	.275	16.50	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
1909.																
G. L. and M. W.	1	4	60.0	.289	17.34	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
1910.																
Eastern	1	4	72.0	.298	21.46	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
Pittsburgh	2	7	61.7	.376	21.93	.....	.....	.....	.....	.....	2	2	.....	3	.....	.....
G. L. and M. W.	1	4	60.0	.316	18.96	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
Total	4	15	64.0	.339	21.01	.....	.....	.....	.....	.....	6	6	.....	3	.....	.....
1911.																
Eastern	1	4	72.0	.309	22.25	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
Pittsburgh	2	7	61.7	.327	19.43	.....	.....	.....	.....	.....	4	2	1	.....	.....	.....
G. L. and M. W.	1	4	60.0	.302	18.12	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
Total	4	15	64.0	.316	19.83	.....	.....	.....	.....	.....	4	10	1	.....	.....	.....
1912.																
Eastern	1	4	72.0	.305	21.96	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
Pittsburgh	2	7	61.7	.337	19.89	.....	.....	.....	.....	.....	4	.....	3	.....	.....	.....
G. L. and M. W.	1	4	60.0	.302	18.12	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
Total	4	15	64.0	.319	19.97	.....	.....	.....	.....	.....	4	8	3	.....	.....	.....

FINISHERS: 16-INCH.

1907.																
Eastern	1	2	57.5	$0.275	$15.81	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	1	6	64.5	.257	16.58	.....	.....	.....	.....	4	2	.....	.....	.....	.....	.....
Total	2	8	62.8	.262	16.39	.....	.....	.....	.....	4	4	.....	.....	.....	.....	.....
1908.																
Eastern	1	2	57.5	.275	15.81	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	1	6	64.5	.231	14.88	.....	.....	.....	.....	5	1	.....	.....	.....	.....	.....
Total	2	8	62.8	.242	15.11	.....	.....	.....	.....	5	3	.....	.....	.....	.....	.....
1909.																
Eastern	1	2	57.5	.240	13.80	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
Pittsburgh	1	6	64.5	.274	17.64	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
Total	2	8	62.8	.265	16.68	.....	.....	.....	.....	2	6	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 16-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	1	3	57.5	$0.275	$15.81	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....
Pittsburgh	2	8	64.4	.342	22.04	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
Total	3	11	62.5	.324	20.34	.....	.....	.....	.....	.....	3	8	.....	.....	.....	.....
1911.																
Eastern	1	2	57.5	.275	15.81	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	2	9	64.9	.336	21.82	.....	.....	.....	.....	.....	.....	9	.....	.....	.....	.....
G. L. and M. W.	1	8	57.8	.414	23.93	.....	.....	.....	.....	.....	.....	2	6	.....	.....	.....
Total	4	19	61.1	.363	22.08	.....	.....	.....	.....	.....	2	11	6	.....	.....	.....
1912.																
Eastern	1	2	57.5	.275	15.81	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	2	10	64.4	.276	17.77	.....	.....	2	.....	.....	6	2	.....	.....	.....	.....
G. L. and M. W.	1	8	57.8	.528	30.77	.....	.....	.....	.....	.....	.....	.....	4	.....	4	.....
Total	4	20	61.1	.377	22.77	.....	.....	2	.....	.....	8	2	4	.....	4	.....

FINISHERS: 18-INCH.

1907.																
G. L. and M. W.	1	2	62.8	$0.435	$27.30	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
1908.																
G. L. and M. W.	1	2	62.8	.417	26.25	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....
1909.																
G. L. and M. W.	1	2	62.8	.438	27.48	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
1910.																
Eastern	2	3	61.3	.221	13.59	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	2	62.8	.438	27.48	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Total	3	5	61.9	.308	19.15	.....	.....	.....	.....	3	.....	.....	2	.....	.....	.....
1911.																
Eastern	2	3	59.3	.292	17.32	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....
G. L. and M. W.	1	2	62.8	.438	27.48	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Total	3	5	60.7	.350	21.38	.....	.....	.....	.....	.....	1	2	2	.....	.....	.....
1912.																
Eastern	2	4	57.0	.285	16.29	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....
G. L. and M. W.	1	2	62.8	.438	27.48	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Total	3	6	58.9	.336	20.02	.....	.....	.....	.....	.....	2	2	2	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: ALL SIZES.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Eastern	1	6	58.7	$0.275	$16.13	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh	4	29	67.9	.337	23.10	.....	.....	.....	2	6	7	4	7	3	.....	.....
G. L. and M. W.	5	30	65.5	.288	18.75	[1] 2	.....	.....	2	6	6	8	6	.....	.....	.....
Total	10	65	65.9	.309	20.45	[1] 2	.....	.....	4	12	19	12	13	3	.....	.....
1908.																
Eastern	1	6	58.7	.275	16.13	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh	4	28	68.2	.285	19.57	.....	2	2	.....	9	5	5	5	.....	.....	.....
G. L. and M. W.	5	29	66.2	.274	18.02	1	.....	.....	2	6	12	7	1	.....	.....	.....
Total	10	63	66.4	.279	18.53	1	2	2	2	15	23	12	6	.....	.....	.....
1909.																
Eastern	1	6	58.7	.331	19.49	.....	.....	.....	.....	2	.....	2	2	.....	.....	.....
Pittsburgh	4	28	67.9	.309	21.11	.....	.....	1	1	2	11	7	6	.....	.....	.....
G. L. and M. W.	5	29	66.2	.285	18.72	1	.....	.....	2	6	10	8	2	.....	.....	.....
Total	10	63	66.2	.300	19.85	1	.....	1	3	10	21	17	10	.....	.....	.....
1910.																
Eastern	4	16	62.6	.279	17.50	.....	.....	.....	.....	3	10	3	.....	.....	.....	.....
Pittsburgh	8	66	63.3	.337	21.12	.....	.....	4	.....	4	16	25	12	5	.....	.....
G. L. and M. W.	5	29	66.2	.313	20.66	1	.....	.....	.....	6	8	8	4	2	.....	.....
Total	17	111	64.0	.323	20.48	1	.....	4	.....	13	34	36	16	7	.....	.....
1911.																
Eastern	5	18	60.4	.274	16.71	.....	.....	.....	2	.....	8	8	.....	.....	.....	.....
Pittsburgh	8	66	62.6	.315	19.60	.....	.....	4	2	10	15	24	8	3	.....	.....
G. L. and M. W.	6	37	64.4	.329	20.99	1	.....	.....	.....	6	8	10	12	.....	.....	.....
Total	19	121	62.8	.313	19.60	1	.....	4	4	16	31	42	20	3	.....	.....
1912.																
Eastern	5	21	59.2	.278	16.60	.....	.....	.....	2	.....	8	11	.....	.....	.....	.....
Pittsburgh	8	68	62.5	.309	19.25	.....	.....	5	1	6	29	17	7	3	.....	.....
G. L. and M. W.	6	37	64.4	.362	23.04	1	.....	.....	.....	6	10	6	8	.....	6	.....
Total	19	126	62.5	.319	19.92	1	.....	5	3	12	47	34	15	3	6	.....

HOOK UPS: 12-INCH.

1907.																
Eastern	1	2	64.5	$0.280	$18.06	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	2	14	68.6	.243	16.70	.....	.....	.....	.....	12	2	.....	.....	.....	.....	.....
G. L. and M. W.	3	33	63.3	.309	20.00	.....	.....	.....	.....	.....	17	16	.....	.....	.....	.....
Total	6	49	64.8	.289	18.98	.....	.....	.....	.....	12	21	16	.....	.....	.....	.....
1908.																
Eastern	1	2	64.5	.283	18.25	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	2	12	70.7	.177	12.45	.....	2	6	2	2	.....	.....	.....	.....	.....	.....
G. L. and M. W.	3	23	68.6	.253	17.25	.....	.....	.....	.....	16	3	4	.....	.....	.....	.....
Total	6	37	69.1	.230	15.75	.....	2	6	2	18	5	4	.....	.....	.....	.....

[1] Including 1 employee earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOOK UPS: 12-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1909.																
Eastern	1	2	64.5	$0.255	$16.45	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	2	12	70.3	.221	15.45	.....	.....	.....	4	4	4	.....	.....	.....	.....	.....
G. L. and M. W.	3	23	68.6	.250	16.99	.....	.....	.....	.....	16	4	3	.....	.....	.....	.....
Total	6	37	68.9	.241	16.46	.....	.....	.....	4	20	10	3	.....	.....	.....	.....
1910.																
Eastern	5	10	59.5	.215	12.91	.....	1	2	2	2	3	.....	.....	.....	.....	.....
Pittsburgh	5	38	58.9	.250	14.46	.....	.....	.....	2	12	24	.....	.....	.....	.....	.....
G. L. and M. W.	3	21	71.6	.372	26.60	.....	.....	.....	.....	.....	4	3	14	.....	.....	.....
Total	13	69	62.8	.282	17.93	.....	1	2	4	14	31	3	14	.....	.....	.....
1911.																
Eastern	5	9	59.3	.207	12.42	.....	3	2	.....	1	3	.....	.....	.....	.....	.....
Pittsburgh	5	30	60.9	.237	14.02	.....	.....	4	10	.....	12	4	.....	.....	.....	.....
G. L. and M. W.	3	14	71.6	.282	20.19	.....	.....	.....	.....	6	.....	8	.....	.....	.....	.....
Total	13	53	63.4	.244	15.38	.....	3	6	10	7	15	12	.....	.....	.....	.....
1912.																
Eastern	5	11	57.6	.235	13.70	.....	2	2	.....	3	.....	4	.....	.....	.....	.....
Pittsburgh	5	32	60.6	.225	13.43	.....	.....	.....	12	7	13	.....	.....	.....	.....	.....
G. L. and M. W.	3	13	71.5	.408	29.24	.....	.....	.....	.....	.....	2	3	8	.....	.....	.....
Total	13	56	62.5	.269	17.15	.....	2	2	12	10	15	7	8	.....	.....	.....

HOOK UPS: 13-INCH, 14-INCH, AND 15-INCH.

1907.																
G. L. and M. W.	1	8	60.0	$0.184	$11.04	.....	.....	4	4	.....	.....	.....	.....	.....	.....	.....
1908.																
G. L. and M. W.	1	14	60.0	.163	9.77	.....	.....	14	.....	.....	.....	.....	.....	.....	.....	.....
1909.																
G. L. and M. W.	1	8	60.0	.173	10.40	.....	.....	6	2	.....	.....	.....	.....	.....	.....	.....
1910.																
Eastern	1	13	72.0	.177	12.74	.....	.....	7	6	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	2	17	59.3	.305	16.96	.....	.....	.....	4	4	.....	9	.....	.....	.....	.....
G. L. and M. W.	2	20	63.2	.219	13.96	.....	.....	.....	8	4	8	.....	.....	.....	.....	.....
Total	5	50	64.2	.237	14.66	.....	.....	7	18	8	8	9	.....	.....	.....	.....
1911.																
Eastern	1	12	72.0	.191	13.75	.....	.....	.....	8	4	.....	.....	.....	.....	.....	.....
Pittsburgh	2	17	59.3	.262	14.80	.....	.....	.....	4	4	.....	9	.....	.....	.....	.....
G. L. and M. W.	2	16	63.5	.211	13.51	.....	.....	3	6	7	.....	.....	.....	.....	.....	.....
Total	5	45	64.2	.225	14.06	.....	.....	3	18	15	.....	9	.....	.....	.....	.....
1912.																
Eastern	1	12	72.0	.189	13.58	.....	.....	.....	8	4	.....	.....	.....	.....	.....	.....
Pittsburgh	2	17	59.3	.272	15.28	.....	.....	.....	4	4	.....	9	.....	.....	.....	.....
G. L. and M. W.	2	22	62.9	.218	13.91	.....	.....	10	4	.....	8	.....	.....	.....	.....	.....
Total	5	51	63.8	.229	14.29	.....	.....	10	16	8	8	9	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOOK UPS: 16-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Eastern	2	10	63.1	$0.268	$17.06	.....	.....	2	.....	.....	8	.....	.....	.....	.....	.....
Pittsburgh	3	16	64.4	.261	16.81	4	.....	.....	.....	.....	8	2	2	.....	.....	.....
Total	5	26	63.9	.263	16.91	4	.....	2	.....	.....	16	2	2	.....	.....	.....
1908.																
Eastern	2	10	63.1	.277	17.63	.....	.....	2	.....	.....	.....	8	.....	.....	.....	.....
Pittsburgh	3	13	65.5	.262	17.14	.....	.....	1	2	5	1	4	.....	.....	.....	.....
Total	5	23	64.4	.269	17.35	.....	.....	3	2	5	1	12	.....	.....	.....	.....
1909.																
Eastern	2	10	63.1	.274	17.46	.....	2	.....	.....	.....	.....	8	.....	.....	.....	.....
Pittsburgh	3	17	65.6	.275	18.00	.....	.....	.....	.....	4	10	3	.....	.....	.....	.....
Total	5	27	64.7	.274	17.80	.....	2	.....	.....	4	10	11	.....	.....	.....	.....
1910.																
Eastern	2	10	63.1	.282	17.96	.....	.....	.....	2	.....	.....	8	.....	.....	.....	.....
Pittsburgh	3	25	64.5	.344	22.18	.....	.....	.....	.....	.....	2	19	2	2	.....	.....
Total	5	35	64.1	.326	20.97	.....	.....	.....	2	.....	2	27	2	2	.....	.....
1911.																
Eastern	2	10	63.1	.280	17.81	.....	.....	.....	2	.....	.....	8	.....	.....	.....	.....
Pittsburgh	3	15	65.3	.376	24.52	.....	.....	.....	.....	.....	1	10	2	2	.....	.....
G. L. and M. W.	1	10	57.2	.236	13.41	.....	.....	.....	3	.....	7	.....	.....	.....	.....	.....
Total	6	35	62.4	.308	19.43	.....	.....	.....	5	.....	8	18	2	2	.....	.....
1912.																
Eastern	2	6	62.2	.241	15.10	.....	.....	.....	2	.....	4	.....	.....	.....	.....	.....
Pittsburgh	3	18	64.4	.277	17.86	.....	.....	.....	2	4	6	6	.....	.....	.....	.....
G. L. and M. W.	1	12	56.8	.272	15.50	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....
Total	6	36	61.5	.269	16.61	.....	.....	.....	4	4	22	6	.....	.....	.....	.....

HOOK UPS: 18-INCH.

1907.																
Eastern	1	1	57.5	$0.164	$9.43	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	8	62.8	.247	15.51	.....	.....	2	.....	3	3	.....	.....	.....	.....	.....
Total	2	9	62.2	.238	14.83	.....	.....	3	.....	3	3	.....	.....	.....	.....	.....
1908.																
Eastern	1	2	53.8	.139	7.44	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	8	62.8	.202	12.69	.....	2	.....	.....	6	.....	.....	.....	.....	.....	.....
Total	2	10	61.0	.190	11.64	1	3	.....	.....	6	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOOK UPS: 18-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1909.																
Eastern	1	2	53.8	$0.160	$8.57	.....	1	1	....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	8	62.8	.213	13.35	.....	2	.....	....	6	.....	.....	.....	.....	.....	.....
Total	2	10	61.0	.202	12.39	.....	3	1	....	6	.....	.....	.....	.....	.....	.....
1910.																
Eastern	4	13	59.2	.170	10.09	2	3	4	2	2	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	7	62.8	.332	20.85	.....	.....	.....	1	.....	.....	6	.....	.....	.....	.....
Total	5	20	60.4	.227	13.85	2	3	4	3	2	.....	6	.....	.....	.....	.....
1911.																
Eastern	4	13	59.2	.160	9.38	[1] 4	4	1	1	3	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	8	62.8	.321	20.13	.....	.....	.....	2	.....	.....	6	.....	.....	.....	.....
Total	5	21	60.5	.221	13.48	[1] 4	4	1	3	3	.....	6	.....	.....	.....	.....
1912.																
Eastern	4	16	57.5	.184	10.56	2	2	4	1	7	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	8	62.8	.282	17.67	.....	.....	.....	2	.....	.....	6	.....	.....	.....	.....
Total	5	24	59.2	.217	12.93	2	2	4	3	7	.....	6	.....	.....	.....	.....
HOOK UPS: ALL SIZES.																
1907.																
Eastern	3	13	62.9	$0.262	$16.63	.....	....	3	....	.....	10	.....	.....	.....	.....	.....
Pittsburgh	4	30	66.4	.253	16.76	4	....	.....	....	12	10	2	2	.....	.....	.....
G. L. and M. W.	5	49	62.7	.278	17.80	.....	....	6	4	3	20	16	.....	.....	.....	.....
Total	12	92	63.9	.268	17.30	4	....	9	4	15	40	18	2	.....	.....	.....
1908.																
Eastern	3	14	62.0	.258	16.26	1	1	2	.....	.....	2	8	.....	.....	.....	.....
Pittsburgh	4	25	68.0	.221	14.89	.....	2	7	4	7	1	4	.....	.....	.....	.....
G. L. and M. W.	5	45	64.9	.216	14.12	.....	2	14	....	22	3	4	.....	.....	.....	.....
Total	12	84	65.3	.225	14.70	1	5	23	4	29	6	16	.....	.....	.....	.....
1909.																
Eastern	3	14	62.0	.255	16.04	.....	3	1	.....	.....	2	8	.....	.....	.....	.....
Pittsburgh	4	29	67.6	.252	16.95	.....	.....	.....	4	8	14	3	.....	.....	.....	.....
G. L. and M. W.	5	39	65.6	.227	14.89	.....	2	6	2	22	4	3	.....	.....	.....	.....
Total	12	82	65.7	.241	15.82	.....	5	7	6	30	20	14	.....	.....	.....	.....
1910.																
Eastern	7	46	63.7	.206	13.16	2	4	13	12	4	3	8	.....	.....	.....	.....
Pittsburgh	7	80	60.7	.291	17.40	.....	.....	.....	6	16	26	28	2	2	.....	.....
G. L. and M. W.	6	48	66.8	.302	20.49	.....	.....	.....	9	4	12	9	14	.....	.....	.....
Total	20	174	63.2	.272	17.13	2	4	13	27	24	41	45	16	2	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOOK UPS: ALL SIZES—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Eastern	7	44	63.6	$0.205	$13.11	[1] 4	7	3	11	8	3	8	.....	.....	.....	.....
Pittsburgh	7	62	61.5	.277	16.78	.....	.....	4	14	4	13	23	2	2	.....	.....
G. L. and M. W.	7	48	64.4	.255	16.54	.....	.....	3	11	13	7	14	.....	.....	.....	.....
Total	21	154	63.0	.250	15.66	[1] 4	7	10	36	25	23	45	2	2	.....	.....
1912.																
Eastern	7	45	62.0	.205	12.74	2	4	6	11	14	4	4	.....	.....	.....	.....
Pittsburgh	7	67	61.3	.251	15.09	.....	.....	.....	18	15	19	15	.....	.....	.....	.....
G. L. and M. W.	7	55	63.6	.284	18.43	.....	.....	10	6	.....	22	9	8	.....	.....	.....
Total	21	167	62.2	.249	15.56	2	4	16	35	29	45	28	8	.....	.....	.....
ROLL HANDS, OTHER: 8-INCH.																
1907.																
Pittsburgh	4	16	64.3	$0.271	$17.43	.....	2	.....	2	2	3	7	.....	.....	.....	.....
G. L. and M. W.	1	4	68.0	.166	11.29	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
Total	5	20	65.1	.250	16.20	.....	2	4	2	2	3	7	.....	.....	.....	.....
1908.																
Pittsburgh	4	16	64.3	.257	16.38	[2] 3	1	.....	.....	4	3	3	2	.....	.....	.....
G. L. and M. W.	1	4	69.0	.158	10.90	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	5	20	65.3	.237	15.29	[2] 3	5	.....	.....	4	3	3	2	.....	.....	.....
1909.																
Pittsburgh	4	16	64.1	.255	16.22	2	1	1	.....	6	1	3	2	.....	.....	.....
G. L. and M. W.	1	4	69.0	.158	10.90	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	5	20	65.1	.235	15.15	2	5	1	.....	6	1	3	2	.....	.....	.....
1910.																
Eastern	2	5	56.4	.229	13.07	.....	2	.....	.....	.....	3	.....	.....	.....	.....	.....
Pittsburgh	6	24	60.1	.270	15.98	[1] 4	2	.....	.....	2	7	6	2	1	.....	.....
G. L. and M. W.	1	4	69.0	.168	11.59	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
Total	9	33	60.6	.251	15.01	[1] 4	4	4	.....	2	10	6	2	1	.....	.....
1911.																
Eastern	2	5	54.3	.219	12.02	.....	.....	1	1	1	2	.....	.....	.....	.....	.....
Pittsburgh	6	24	59.7	.275	16.26	[3] 2	2	2	..	2	6	8	2	.....	.....	.....
G. L. and M. W.	1	4	69.0	.167	11.52	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
Total	9	33	60.0	.253	15.04	[3] 2	2	7	1	3	8	8	2	.....	.....	.....
1912.																
Eastern	2	5	54.3	.227	12.48	.....	.....	1	1	1	2	.....	.....	.....	.....	.....
Pittsburgh	6	24	59.7	.265	15.76	[4] 5	1	.....	.....	3	7	6	1	1	.....	.....
G. L. and M. W.	1	4	69.0	.167	11.52	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
Total	9	33	60.0	.248	14.75	[4] 5	1	5	1	4	9	6	1	1	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.
[2] Including 1 employee earning 10 and under 12 cents per hour.
[3] Earning 10 and under 12 cents per hour.
[4] Including 3 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: 9-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Pittsburgh	1	2	66.0	$0.185	$12.21	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
G. L. and M.W.	2	16	58.9	.229	12.99	.....	.....	8	.....	.....	6	2	.....	.....	.....	.....
Total	3	18	59.7	.224	12.91	.....	.....	8	2	.....	6	2	.....	.....	.....	.....
1908.																
Pittsburgh	1	2	66.0	.146	9.60	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M.W.	2	16	59.7	.233	13.37	.....	.....	8	.....	.....	6	2	.....	.....	.....	.....
Total	3	18	60.4	.223	12.95	.....	2	8	.....	.....	6	2	.....	.....	.....	.....
1909.																
Pittsburgh	1	2	65.5	.167	10.94	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M.W.	2	16	59.7	.229	13.15	.....	.....	8	.....	.....	6	2	.....	.....	.....	.....
Total	3	18	60.3	.222	12.90	.....	.....	10	.....	.....	6	2	.....	.....	.....	.....
1910.																
Eastern	1	2	60.0	.225	13.50	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
Pittsburgh	3	17	53.1	.295	15.08	.....	2	2	.....	.....	1	9	3	.....	.....	.....
G. L. and M.W.	2	16	59.7	.243	13.98	.....	.....	.....	8	.....	6	2	.....	.....	.....	.....
Total	6	35	56.5	.267	14.49	.....	2	2	8	2	7	11	3	.....	.....	.....
1911.																
Eastern	1	1	63.0	.129	8.13	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	3	18	52.5	.252	13.16	1	1	2	.....	9	.....	3	2	.....	.....	.....
G. L. and M.W.	2	16	59.7	.238	13.65	.....	.....	8	.....	.....	6	2	.....	.....	.....	.....
Total	6	35	56.1	.242	13.24	2	1	10	.....	9	6	5	2	.....	.....	.....
1912.																
Eastern	1	2	63.0	.127	8.00	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	3	18	52.5	.289	15.07	.....	1	3	.....	2	7	3	.....	2	.....	.....
G. L. and M.W.	2	16	59.7	.238	13.65	.....	.....	8	.....	.....	6	2	.....	.....	.....	.....
Total	6	36	56.3	.257	14.05	2	1	11	.....	2	13	5	.....	2	.....	.....

ROLL HANDS, OTHER: 10-INCH.

1907.																
Pittsburgh	4	29	70.4	$0.388	$27.24	.....	.....	.....	.....	1	.....	22	1	5	.....	.....
1908.																
Pittsburgh	4	29	70.4	.327	22.89	.....	.....	.....	.....	12	5	5	3	4	.....	.....
1909.																
Pittsburgh	4	29	70.0	.346	24.04	.....	.....	.....	.....	1	15	6	3	3	1	.....
1910.																
Eastern	1	4	52.5	.159	8.35	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	35	69.6	.382	26.43	.....	.....	.....	2	.....	6	17	4	2	2	2
Total	7	39	67.8	.359	24.58	.....	4	.....	2	.....	6	17	4	2	2	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: 10-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1911.																
Eastern	1	4	48.8	$0.187	$9.10	.....	.....	1	3	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	35	68.9	.343	23.59	.....	1	.....	3	.....	16	5	6	1	3	.....
Total	7	39	66.8	.327	22.11	.....	1	1	6	.....	16	5	6	1	3	.....
1912.																
Eastern	1	4	48.8	.195	9.52	.....	.....	1	1	2	.....	.....	.....	.....	.....	.....
Pittsburgh	6	35	68.9	.369	25.31	.....	.....	.....	.....	3	16	4	8	.....	2	2
Total	7	39	66.8	.351	23.69	.....	.....	1	1	5	16	4	8	.....	2	2

ROLL HANDS, OTHER: 12-INCH.

1907.																
Eastern	1	4	64.5	$0.198	$12.74	.....	.....	.....	2	2	.....	.....	.....	.....	.....	.....
Pittsburgh	2	4	68.0	.213	14.39	.....	.....	.....	2	2	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	16	72.0	.198	14.27	.....	.....	14	.....	.....	.....	.....	2	.....	.....	.....
Total	4	24	70.1	.201	14.04	.....	.....	14	4	4	.....	.....	2	.....	.....	.....
1908.																
Eastern	1	4	64.5	.211	13.61	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	2	3	70.7	.208	14.63	.....	.....	.....	2	1	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	14	72.0	.186	13.37	.....	12	.....	.....	.....	.....	.....	2	.....	.....	.....
Total	4	21	70.4	.194	13.60	.....	12	.....	2	5	.....	.....	2	.....	.....	.....
1909.																
Eastern	1	4	64.5	.204	13.16	.....	.....	.....	2	2	.....	.....	.....	.....	.....	.....
Pittsburgh	2	3	70.3	.208	14.57	.....	.....	.....	2	1	.....	.....	.....	.....	.....	.....
G. L. and M. W.	1	14	72.0	.212	15.24	.....	.....	.....	12	.....	.....	2	.....	.....	.....	.....
Total	4	21	70.3	.210	14.75	.....	.....	.....	16	3	.....	2	.....	.....	.....	.....
1910.																
Eastern	2	6	61.3	.207	12.68	.....	.....	.....	2	4	.....	.....	.....	.....	.....	.....
Pittsburgh	5	11	63.3	.254	15.33	.....	.....	.....	3	4	1	3	.....	.....	.....	.....
G. L. and M. W.	2	16	71.6	.335	24.01	.....	.....	.....	2	.....	.....	12	.....	2	.....	.....
Total	9	33	67.0	.285	19.06	.....	.....	.....	7	8	1	15	.....	2	.....	.....
1911.																
Eastern	2	5	62.6	.202	12.68	.....	.....	.....	2	3	.....	.....	.....	.....	.....	.....
Pittsburgh	5	9	62.7	.278	16.42	.....	.....	2	.....	3	1	1	2	.....	.....	.....
G. L. and M. W.	2	18	71.7	.257	18.41	.....	.....	.....	2	14	.....	.....	2	.....	.....	.....
Total	9	32	67.7	.254	16.95	.....	.....	2	4	20	1	1	4	.....	.....	.....
1912.																
Eastern	2	5	62.6	.214	13.40	.....	.....	.....	.....	5	.....	.....	.....	.....	.....	.....
Pittsburgh	5	10	62.4	.247	14.90	.....	.....	2	.....	4	1	3	.....	.....	.....	.....
G. L. and M. W.	2	18	71.7	.350	25.12	.....	.....	.....	2	.....	.....	14	.....	.....	2	.....
Total	9	33	67.5	.298	20.25	.....	.....	2	2	9	1	17	.....	.....	2	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: 13-INCH, 14-INCH, AND 15-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	1	5	72.0	$0.274	$19.73						5					
Pittsburgh	2	24	60.0	.314	17.57				10			2	12			
Total	3	29	62.1	.307	17.94				10		5	2	12			
1911.																
Eastern	1	4	72.0	.299	21.53						4					
Pittsburgh	2	24	60.0	.263	14.86			10		1	1	12				
Total	3	28	61.7	.268	15.81			10		1	5	12				
1912.																
Eastern	1	4	72.0	.293	21.10						4					
Pittsburgh	2	21	61.7	.263	15.23			10			2	9				
Total	3	25	63.4	.268	16.17			10			6	9				

ROLL HANDS, OTHER: 16-INCH.

1907.																
Eastern	1	2	64.5	$0.258	$16.64						2					
Pittsburgh	1	2	64.5	.405	25.89							1	1			
Total	2	4	64.5	.331	21.26						2	1	1			
1908.																
Eastern	1	2	64.5	.276	17.80						2					
Pittsburgh	1	2	64.5	.386	24.61							1	1			
Total	2	4	64.5	.331	21.21						2	1	1			
1909.																
Eastern	1	2	64.5	.256	16.51						2					
Pittsburgh	1	2	64.5	.463	29.42							1		1		
Total	2	4	64.5	.359	22.97						2	1		1		
1910.																
Eastern	1	2	64.5	.256	16.51						2					
Pittsburgh	1	2	64.5	.492	31.74								1	1		
Total	2	4	64.5	.374	24.13						2		1	1		
1911.																
Eastern	1	2	64.5	.286	18.45						2					
Pittsburgh	1	2	64.5	.510	32.81								1	1		
Total	2	4	64.5	.398	25.63						2		1	1		
1912.																
Eastern	1	1	64.5	.265	17.09						1					
Pittsburgh	1	2	64.5	.459	29.72								2			
Total	2	3	64.5	.394	25.51						1		2			

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: 18-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
G. L. and M.W.	1	2	62.8	$0.237	$14.84	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
1908.																
G. L. and M.W.	1	2	62.8	.181	11.33	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
1909.																
G. L. and M.W.	1	2	62.8	.200	12.55	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....
1910.																
Eastern	3	5	58.8	.198	11.70	.....	.....	.....	4	1	.....	.....	.....	.....	.....	.....
G. L. and M.W.	1	2	62.8	.296	18.57	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Total	4	7	59.9	.226	13.67	.....	.....	.....	4	1	2	.....	.....	.....	.....	.....
1911.																
Eastern	3	4	59.8	.201	11.84	.....	1	1	.....	1	1	.....	.....	.....	.....	.....
G. L. and M.W.	1	2	62.8	.366	22.97	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
Total	4	6	60.8	.256	15.55	.....	1	1	.....	1	1	2	.....	.....	.....	.....
1912.																
Eastern	3	5	57.8	.226	13.02	.....	.....	.....	.....	4	1	.....	.....	.....	.....	.....
G. L. and M.W.	1	2	62.8	.257	16.13	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Total	4	7	59.2	.235	13.91	.....	.....	.....	.....	4	3	.....	.....	.....	.....	.....

ROLL HANDS, OTHER: ALL SIZES.

1907.																
Eastern	1	6	64.5	$0.218	$14.04	.....	.....	.....	2	2	2	.....	.....	.....	.....	.....
Pittsburgh	5	53	68.0	.333	22.69	.....	2	.....	6	5	3	30	2	5	.....	.....
G. L. and M.W.	3	38	65.6	.215	13.45	.....	.....	26	.....	1	7	2	2	.....	.....	.....
Total	9	97	66.8	.278	18.53	.....	2	26	8	8	12	32	4	5	.....	.....
1908.																
Eastern	1	6	64.5	.233	15.01	.....	.....	.....	.....	4	2	.....	.....	.....	.....	.....
Pittsburgh	5	52	68.2	.294	19.96	[1] 3	3	.....	2	17	8	9	6	4	.....	.....
G. L. and M.W.	3	36	65.7	.203	12.98	.....	16	9	1	.....	6	2	2	.....	.....	.....
Total	9	94	67.0	.255	16.97	[1] 3	19	9	3	21	16	11	8	4	.....	.....
1909.																
Eastern	1	6	64.5	.221	14.28	.....	.....	.....	2	2	2	.....	.....	.....	.....	.....
Pittsburgh	5	52	67.8	.308	20.79	2	1	3	2	8	16	10	5	4	1	.....
G. L. and M.W.	3	36	65.7	.213	13.68	.....	4	8	13	1	6	4	.....	.....	.....	.....
Total	9	94	66.8	.266	17.65	2	5	11	17	11	24	14	5	4	1	.....

[1] Including 1 employee earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: ALL SIZES—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	6	29	60.8	$0.219	$13.52	.....	6	.....	6	7	10	.....	.....	.....	.....	.....
Pittsburgh	9	113	62.3	.320	19.64	[1] 4	4	2	15	6	15	37	22	4	2	2
G. L. and M. W.	3	38	65.8	.276	18.19	.....	.....	4	10	.....	8	14	.....	2	.....	.....
Total	18	180	62.8	.295	18.35	[1] 4	10	6	31	13	33	51	22	6	2	2
1911.																
Eastern	6	25	59.9	.222	13.54	1	1	3	6	5	9	.....	.....	.....	.....	.....
Pittsburgh	9	112	61.8	.294	18.06	[1] 3	4	16	3	15	24	29	13	2	3	.....
G. L. and M. W.	3	40	66.2	.246	16.04	.....	.....	12	2	14	6	4	2	.....	.....	.....
Total	18	177	62.5	.273	16.97	[1] 4	5	31	11	34	39	33	15	2	3	.....
1912.																
Eastern	6	26	59.5	.223	13.46	2	.....	2	2	12	8	.....	.....	.....	.....	.....
Pittsburgh	9	110	62.2	.304	18.76	[2] 5	2	15	.....	12	33	25	11	3	2	2
G. L. and M. W.	3	40	66.2	.282	18.72	.....	.....	12	2	.....	8	16	.....	.....	2	.....
Total	18	176	62.7	.287	17.97	[2] 7	2	29	4	24	49	41	11	3	4	2
HOTBED MEN.																
1907.																
Eastern	3	46	59.8	$0.161	$9.67	.....	32	6	1	7	.....	.....	.....	.....	.....	.....
Pittsburgh	6	144	64.2	.216	13.84	[3] 14	10	18	26	42	14	20	.....	.....	.....	.....
G. L. and M. W.	6	112	63.7	.165	10.55	[4] 4	66	23	5	11	3	.....	.....	.....	.....	.....
Total	15	302	63.3	.189	11.98	[5] 18	108	47	32	60	17	20	.....	.....	.....	.....
1908.																
Eastern	3	48	59.4	.162	9.67	.....	33	9	.....	6	.....	.....	.....	.....	.....	.....
Pittsburgh	6	132	64.4	.195	12.42	[6] 17	4	29	36	26	13	7	.....	.....	.....	.....
G. L. and M. W.	6	119	63.5	.154	9.80	[1] 10	79	26	1	3	.....	.....	.....	.....	.....	.....
Total	15	299	63.2	.174	10.93	[7] 27	116	64	37	35	13	7	.....	.....	.....	.....
1909.																
Eastern	3	48	59.4	.167	9.94	20	8	7	.....	13	.....	.....	.....	.....	.....	.....
Pittsburgh	6	138	64.4	.202	12.83	[8] 18	2	32	25	37	9	15	.....	.....	.....	.....
G. L. and M. W.	6	100	63.7	.156	8.97	[1] 14	60	14	8	4	.....	.....	.....	.....	.....	.....
Total	15	286	63.3	.180	11.00	[9] 52	70	53	33	54	9	15	.....	.....	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.
[2] Including 3 employees earning 10 and under 12 cents per hour.
[3] Including 10 employees earning 10 and under 12 cents per hour.
[4] Earning 10 and under 12 cents per hour.
[5] Including 14 employees earning 10 and under 12 cents per hour.
[6] Including 6 employees earning 8 and under 9 cents and 4 employees earning 9 and under 10 cents per hour.
[7] Including 6 employees earning 8 and under 9 cents, 4 employees earning 9 and under 10 cents, and 2 employees earning 10 and under 12 cents per hour.
[8] Including 6 employees earning 9 and under 10 cents and 6 employees earning 10 and under 12 cents per hour.
[9] Including 6 employees earning 9 and under 10 cents and 8 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOTBED MEN—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	8	108	60.3	$0.183	$11.05	4	46	15	13	23	6	1	.....	.....	.....	.....
Pittsburgh	10	244	62.0	.221	13.50	[1] 38	14	33	34	53	43	8	19	2	.....	.....
G. L. and M. W.	7	148	66.4	.177	11.79	[2] 10	18	79	24	7	8	2	.....	.....	.....	.....
Total	25	500	62.9	.200	12.46	[3] 52	78	127	71	83	57	11	19	2	.....	.....
1911.																
Eastern	8	95	59.0	.176	10.42	2	44	24	7	11	4	3	.....	.....	.....	.....
Pittsburgh	10	226	61.6	.201	12.32	[4] 38	20	40	46	40	17	19	4	2	.....	.....
G. L. and M. W.	8	129	64.5	.174	11.25	[2] 10	26	61	10	14	6	2	.....	.....	.....	.....
Total	26	450	61.9	.188	11.61	[5] 50	90	125	63	65	27	24	4	2	.....	.....
1912.																
Eastern	8	109	58.4	.180	10.49	8	29	33	12	17	9	1	.....	.....	.....	.....
Pittsburgh	10	232	61.5	.204	12.43	[6] 39	9	28	46	64	27	19	.....	.....	.....	.....
G. L. and M. W.	8	120	65.1	.180	11.78	[2] 10	4	69	11	20	2	4	.....	.....	.....	.....
Total	26	461	61.7	.192	11.80	[7] 57	42	130	69	101	38	24	.....	.....	.....	.....

SHEARMEN.

1907.																
Eastern	3	16	60.3	$0.166	$10.04	.....	1	12	3	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	36	67.5	.305	20.57	.....	.....	3	1	8	4	18	.....	.....	2	.....
G. L. and M. W.	6	42	64.3	.233	14.79	.....	.....	2	16	12	8	2	.....	2	.....	.....
Total	15	94	64.8	.249	16.20	.....	1	17	20	20	12	20	.....	2	2	.....
1908.																
Eastern	3	18	60.3	.166	10.00	.....	1	14	3	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	33	68.2	.253	17.29	2	.....	3	2	11	10	4	.....	.....	1	.....
G. L. and M. W.	6	41	64.8	.207	13.33	.....	.....	7	16	11	5	2	.....	.....	.....	.....
Total	15	92	65.1	.216	14.10	2	1	24	21	22	15	6	.....	.....	1	.....
1909.																
Eastern	3	18	60.3	.173	10.42	.....	5	8	3	.....	2	.....	.....	.....	.....	.....
Pittsburgh	6	34	67.8	.268	18.27	.....	1	3	1	13	7	7	1	.....	1	.....
G. L. and M. W.	6	41	65.4	.211	13.68	.....	.....	2	23	7	7	2	.....	.....	.....	.....
Total	15	93	65.3	.225	14.72	.....	6	13	27	20	16	9	1	.....	1	.....

[1] Including 6 employees earning 9 and under 10 cents and 16 employees earning 10 and under 12 cents per hour.
[2] Including 2 employees earning 10 and under 12 cents per hour.
[3] Including 6 employees earning 9 and under 10 cents and 18 employees earning 10 and under 12 cents per hour.
[4] Including 21 employees earning 10 and under 12 cents per hour.
[5] Including 23 employees earning 10 and under 12 cents per hour.
[6] Including 3 employees earning 8 and under 9 cents, 5 employees earning 9 and under 10 cents, and 17 employees earning 10 and under 12 cents per hour.
[7] Including 3 employees earning 8 and under 9 cents, 5 employees earning 9 and under 10 cents, and 19 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

SHEARMEN—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	8	38	59.0	$0.197	$11.53	2	11	8	6	5	2	4	.....	.....	.....	.....
Pittsburgh	10	71	63.5	.321	19.90	.....	2	.....	2	11	24	21	7	1	....	3
G. L. and M. W.	7	47	66.4	.230	15.05	.....	....	3	22	11	3	6	2	.....	.....	.....
Total	25	156	63.3	.264	16.40	2	13	11	30	27	29	31	9	1	....	3
1911.																
Eastern	8	37	58.8	.199	11.38	2	7	12	8	2	2	2	2	.....	.....	.....
Pittsburgh	10	67	62.5	.293	17.91	.....	1	2	5	15	21	16	4	3	....	.....
G. L. and M. W.	7	47	65.2	.241	15.48	.....	....	3	28	6	2	2	4	2	.....	.....
Total	25	151	62.5	.254	15.55	2	8	17	41	23	25	20	10	5	....	.....
1912.																
Eastern	8	39	58.5	.207	11.73	2	5	12	8	6	2	1	2	1	....	.....
Pittsburgh	10	70	62.5	.294	18.12	.....	....	2	4	20	20	16	4	4	.....	.....
G. L. and M. W.	7	45	65.7	.232	14.99	.....	....	3	26	5	3	8	.....	.....	.....	.....
Total	25	154	62.4	.254	15.59	2	5	17	38	31	25	25	6	5	....	.....

SHEARMEN'S HELPERS.

1907.																
Eastern	3	35	63.0	$0.142	$8.96	[1] 14	15	6	....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	75	66.5	.193	12.86	[2] 8	10	23	6	18	8	2	.....	.....	.....	.....
G. L. and M. W.	6	91	66.5	.171	11.27	.....	51	20	6	10	4	.....	.....	.....	.....	.....
Total	15	201	65.9	.174	11.46	[3] 22	76	49	12	28	12	2	.....	.....	.....	.....
1908.																
Eastern	3	40	62.6	.143	8.96	[1] 15	19	6	....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	6	65	68.2	.187	12.71	[2] 4	8	25	6	19	1	2	.....	.....	.....	.....
G. L. and M. W.	6	67	66.4	.163	10.73	.....	47	2	14	2	2	.....	.....	.....	.....	.....
Total	15	172	66.2	.168	11.07	[3] 19	74	33	20	21	3	2	.....	.....	.....	.....
1909.																
Eastern	3	40	62.6	.143	8.90	[4] 19	17	2	....	2	.....	.....	.....	.....	.....	.....
Pittsburgh	6	73	70.0	.187	12.99	[5] 4	10	28	9	19	1	2	.....	.....	.....	.....
G. L. and M. W.	6	72	67.1	.165	10.96	16	36	2	8	6	4	.....	.....	.....	.....	.....
Total	15	185	67.3	.169	11.32	[6] 39	63	32	17	27	5	2	.....	.....	.....	.....

[1] Including 5 employees earning 10 and under 12 cents per hour.
[2] Including 2 employees earning 10 and under 12 cents per hour.
[3] Including 7 employees earning 10 and under 12 cents per hour.
[4] Including 10 employees earning 10 and under 12 cents per hour.
[5] Earning 10 and under 12 cents per hour.
[6] Including 14 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

SHEARMEN'S HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1910.																
Eastern	6	62	65.0	$0.145	$9.41	[1] 24	25	11	2	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	10	204	63.0	.208	13.06	[2] 14	16	36	25	83	16	14	.....	.....	.....	.....
G. L. and M. W.	7	89	68.5	.169	11.45	.....	17	62	2	4	4	.....	.....	.....	.....	.....
Total	23	355	64.7	.187	12.02	[3] 38	58	109	29	87	20	14	.....	.....	.....	.....
1911.																
Eastern	6	58	63.8	.143	9.12	[4] 26	21	11	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	10	194	62.6	.190	11.80	[5] 19	13	79	20	45	16	2	.....	.....	.....	.....
G. L. and M. W.	7	107	66.1	.175	11.50	.....	23	66	2	12	2	.....	2	.....	.....	.....
Total	23	359	63.8	.178	11.28	[6] 45	57	156	22	57	18	2	2	.....	.....	.....
1912.																
Eastern	6	55	63.0	.150	9.38	[4] 20	16	12	7	.....	.....	.....	.....	.....	.....	.....
Pittsburgh	10	206	62.6	.196	12.28	[7] 14	14	51	19	88	18	2	.....	.....	.....	.....
G. L. and M. W.	7	97	67.3	.179	11.93	.....	.....	79	2	6	8	2	.....	.....	.....	.....
Total	23	358	63.9	.184	11.74	[8] 34	30	142	28	94	26	4	.....	.....	.....	.....

BUNDLERS.

1907.																
Pittsburgh	5	41	66.9	$0.202	$13.53	.....	.....	10	13	16	1	1	.....	.....	.....	.....
1908.																
Pittsburgh	5	41	66.9	.174	11.68	2	12	15	8	3	1	.....	.....	.....	.....	.....
1909.																
Pittsburgh	5	41	66.8	.186	12.42	.....	4	13	18	6	.....	.....	.....	.....	.....	.....
1910.																
Pittsburgh	6	77	66.1	.207	13.69	.....	2	9	24	40	2	.....	.....	.....	.....	.....
1911.																
Pittsburgh	7	131	62.0	.197	12.20	.....	1	16	32	80	2	.....	.....	.....	.....	.....
1912.																
Pittsburgh	7	132	62.0	.193	11.94	.....	.....	16	90	24	2	.....	.....	.....	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.
[2] Including 6 employees earning 8 and under 9 cents and 6 employees earning 10 and under 12 cents per hour.
[3] Including 6 employees earning 8 and under 9 cents and 8 employees earning 10 and under 12 cents per hour.
[4] Including 5 employees earning 10 and under 12 cents per hour.
[5] Including 6 employees earning 10 and under 12 cents per hour.
[6] Including 11 employees earning 10 and under 12 cents per hour.
[7] Including 2 employees earning 9 and under 10 cents and 6 employees earning 10 and under 12 cents per hour.
[8] Including 2 employees earning 9 and under 10 cents and 11 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Concluded.

BAR MILLS—Continued.

LABORERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
1907.																
Eastern	2	26	60.0	$0.132	$7.92	26	....	....	....	....	....	....	....	....	....	....
Pittsburgh	5	218	69.6	.154	10.70	1	166	51	....	....	....	....	....	....	....	....
G. L. and M. W.	3	52	67.1	.159	10.65	....	7	45	....	....	....	....	....	....	....	....
Total	10	296	68.3	.153	10.44	27	173	96	....	....	....	....	....	....	....	....
1908.																
Eastern	2	37	60.0	.131	7.88	37	....	....	....	....	....	....	....	....	....	....
Pittsburgh	5	136	65.1	.157	10.21	2	81	53	....	....	....	....	....	....	....	....
G. L. and M. W.	3	54	67.4	.158	10.61	....	9	45	....	....	....	....	....	....	....	....
Total	10	227	64.8	.153	9.93	39	90	98	....	....	....	....	....	....	....	....
1909.																
Eastern	2	39	60.0	.131	7.87	39	....	....	....	....	....	....	....	....	....	....
Pittsburgh	5	216	69.7	.151	10.52	4	178	34	....	....	....	....	....	....	....	....
G. L. and M. W.	3	69	66.4	.157	10.37	7	4	58	....	....	....	....	....	....	....	....
Total	10	324	67.8	.150	10.17	50	182	92	....	....	....	....	....	....	....	....
1910.																
Eastern	3	95	60.0	.147	8.82	40	25	30	....	....	....	....	....	....	....	....
Pittsburgh	8	265	70.7	.161	11.38	11	11	243	....	....	....	....	....	....	....	....
G. L. and M. W.	4	151	67.6	.167	11.24	....	34	117	....	....	....	....	....	....	....	....
Total	15	511	67.8	.160	10.86	51	70	390	....	....	....	....	....	....	....	....
1911.																
Eastern	4	109	58.6	.145	8.49	34	44	31	....	....	....	....	....	....	....	....
Pittsburgh	8	192	68.6	.163	11.15	10	9	173	....	....	....	....	....	....	....	....
G. L. and M. W.	5	89	67.2	.166	11.14	....	8	81	....	....	....	....	....	....	....	....
Total	17	390	65.5	.159	10.40	44	61	285	....	....	....	....	....	....	....	....
1912.																
Eastern	4	97	58.3	.142	8.27	34	45	18	....	....	....	....	....	....	....	....
Pittsburgh	8	213	68.7	.163	11.16	10	9	194	....	....	....	....	....	....	....	....
G. L. and M. W.	5	114	67.2	.167	11.23	....	....	114	....	....	....	....	....	....	....	....
Total	17	424	65.9	.159	10.52	44	54	326	....	....	....	....	....	....	....	....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912.

BAR MILLS—Continued.

[The abbreviation "G. L. and M. W." in the first or reading column stands for "Great Lakes and Middle West." The figures set opposite each bracketed group of years are for identical plants.]

STOCKERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
2 plants	1907	16	62.3	$0.161	$10.06	2	4	10	....	....	....	....	....	....	....	....
	1908	16	62.3	.165	10.29	2	4	2	8	....	....	....	....	....	....	....
	1909	16	62.3	.159	9.97	[1] 3	4	1	8	....	....	....	....	....	....	....
	1910	16	62.8	.170	10.68	2	5	....	9	....	....	....	....	....	....	....
6 plants	1910	72	57.6	.268	15.08	2	5	....	9	17	17	16	6	....	....	....
	1911	65	59.1	.236	13.82	2	4	1	21	9	10	18	....	....	....	....
	1912	71	59.1	.263	15.43	2	4	5	....	24	16	20	....	....	....	....
Pittsburgh:																
2 plants	1907	22	69.6	.185	12.76	....	....	12	....	10	....	....	....	....	....	....
	1908	20	68.3	.179	12.13	....	....	10	8	2	....	....	....	....	....	....
	1909	20	68.0	.181	12.26	....	....	10	4	6	....	....	....	....	....	....
	1910	20	68.0	.190	12.89	....	....	10	....	10	....	....	....	....	....	....
3 plants	1910	47	56.5	.279	15.01	....	....	10	....	16	6	....	15	....	....	....
	1911	46	56.3	.249	13.47	....	....	14	....	9	8	15	....	....	....	....
5 plants	1911	93	61.0	.210	12.37	....	....	47	10	13	8	15	....	....	....	....
	1912	92	61.0	.213	12.56	....	1	45	11	11	9	15	....	....	....	....
G. L. and M. W.:																
4 plants	1907	55	62.9	.180	11.29	....	2	29	12	12	....	....	....	....	....	....
	1908	54	63.1	.164	10.33	[2] 12	8	22	6	6	....	....	....	....	....	....
	1909	52	63.4	.166	10.48	....	28	12	6	4	2	....	....	....	....	....
	1910	51	63.3	.196	12.35	....	....	18	15	18	....	....	....	....	....	....
	1911	53	62.9	.205	12.84	....	....	17	7	26	1	2	....	....	....	....
	1912	54	63.1	.219	13.76	....	....	14	4	22	12	2	....	....	....	....

HEATERS.

Eastern:																
3 plants	1907	22	62.1	$0.448	$27.96	....	....	....	....	....	8	....	....	14	....	....
	1908	26	60.2	.447	27.19	....	....	....	....	....	8	....	8	6	4	....
	1909	26	60.2	.437	26.51	....	....	....	....	4	....	2	10	10	....	....
	1910	27	60.2	.469	28.21	....	....	....	....	....	7	2	....	18	....	....
8 plants	1910	65	60.7	.482	29.19	....	....	....	....	....	9	12	9	25	10	....
	1911	57	61.9	.489	30.13	....	....	....	....	....	6	12	6	21	10	2
	1912	65	61.2	.479	29.19	....	....	....	....	....	4	17	14	18	10	2
Pittsburgh:																
6 plants	1907	61	64.6	.525	33.83	....	....	....	....	....	2	19	6	17	7	10
	1908	53	65.3	.477	30.75	....	....	....	....	1	9	10	13	10	3	7
	1909	53	65.5	.532	34.38	....	....	....	....	....	2	7	8	21	9	6
	1910	79	65.0	.506	32.44	....	....	....	....	....	2	18	26	16	6	11
10 plants	1910	114	63.3	.518	32.70	....	....	....	....	....	5	23	34	22	15	15
	1911	88	62.3	.521	32.46	....	....	....	....	....	5	21	17	21	14	10
	1912	94	62.0	.475	29.36	....	....	....	4	....	14	24	10	19	12	11
G.L. and M.W.:																
6 plants	1907	38	63.7	.516	32.53	....	....	....	....	....	....	6	12	12	6	2
	1908	33	64.5	.465	29.84	....	....	....	....	....	2	4	14	9	4	....
	1909	33	64.5	.457	29.32	....	....	....	....	....	2	4	16	9	2	....
	1910	36	65.5	.519	33.39	....	....	....	....	....	2	4	10	10	6	4
7 plants	1910	38	65.7	.514	33.14	....	....	....	....	....	2	4	12	10	6	4
	1911	35	64.7	.529	33.73	....	....	....	....	....	2	4	8	13	2	6
8 plants	1911	39	64.9	.517	33.07	....	....	....	....	....	2	5	11	13	2	6
	1912	40	65.1	.501	32.00	....	....	....	....	....	5	4	12	4	15	....

[1] Including 2 employees earning 10 and under 12 cents per hour.
[2] Including 6 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HEATERS' HELPERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
3 plants	1907	32	62.5	$0.213	$13.30	.....	10	8	....	.....	10	4	.....	.....	.....	.....
	1908	36	61.1	.210	12.87	.....	10	8	....	8	6	4	.....	.....	.....	.....
	1909	36	61.1	.204	12.44	14	.....	.....	2	8	12	.....	.....	.....	.....	.....
	1910	38	61.1	.221	13.46	.....	10	8	....	2	14	4	.....	.....	.....	.....
8 plants	1910	90	62.1	.242	14.98	2	15	8	5	13	29	18	.....	.....	.....	.....
	1911	81	62.4	.243	15.20	.....	13	5	11	7	33	12	.....	.....	.....	.....
	1912	104	61.1	.242	14.79	.....	17	8	18	10	31	18	2	.....	.....	.....
Pittsburgh:																
5 plants	1907	89	66.8	.237	15.73	.....	.....	12	24	18	20	15	.....	.....	.....	.....
	1908	73	67.3	.217	14.44	.....	4	15	22	17	5	10	.....	.....	.....	.....
	1909	73	67.2	.233	15.40	.....	2	11	19	20	11	10	.....	.....	.....	.....
	1910	83	67.0	.257	16.94	.....	.....	3	3	50	8	10	9	.....	.....	.....
9 plants	1910	154	62.0	.282	17.04	.....	.....	3	9	68	10	52	9	3	.....	.....
	1911	150	61.6	.286	15.43	.....	.....	10	7	78	6	45	4	.....	.....	.....
	1912	155	61.7	.258	15.69	.....	.....	2	13	77	21	36	6	.....	.....	.....
G.L. and M.W.:																
6 plants	1907	46	64.2	.285	17.59	.....	.....	8	12	10	.....	4	8	2	2	.....
	1908	44	64.6	.257	15.94	.....	.....	10	14	4	4	5	5	2	.....	.....
	1909	42	64.5	.260	16.04	.....	4	8	10	4	4	6	4	.....	2	.....
	1910	45	65.3	.304	19.01	.....	.....	10	7	8	4	4	2	8	2	.....
7 plants	1910	51	65.6	.302	19.08	.....	.....	10	7	8	10	4	2	8	2	.....
	1911	50	65.5	.306	19.26	.....	.....	10	6	12	6	.....	6	10	.....	.....
8 plants	1911	62	65.8	.286	18.15	.....	4	12	6	15	8	1	6	10	.....	.....
	1912	60	65.5	.299	18.92	.....	4	8	4	8	12	10	8	2	4	.....

CHARGERS AND HELPERS.

Eastern:																
1 plant	1907	4	64.5	$0.176	$11.35	.....	.....	4	....	.....	.....	.....	.....	.....	.....	.....
	1908	4	64.5	.183	11.80	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
	1909	4	64.5	.181	11.67	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
	1910	4	64.5	.188	12.13	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
3 plants	1910	16	59.9	.172	10.30	.....	.....	10	6	.....	.....	.....	.....	.....	.....	.....
	1911	16	61.7	.173	10.60	.....	8	.....	4	4	.....	.....	.....	.....	.....	.....
	1912	15	61.2	.179	10.90	.....	.....	10	1	4	.....	.....	.....	.....	.....	.....
Pittsburgh:																
6 plants	1907	58	66.6	.172	11.52	2	32	10	6	4	3	1	.....	.....	.....	.....
	1908	56	66.5	.161	10.72	[1] 3	32	13	5	3	.....	.....	.....	.....	.....	.....
	1909	57	66.6	.159	10.62	16	21	12	4	4	.....	.....	.....	.....	.....	.....
	1910	58	67.1	.178	11.88	.....	.....	44	8	4	2	.....	.....	.....	.....	.....
9 plants	1910	105	65.9	.193	12.52	.....	.....	46	32	19	8	.....	.....	.....	.....	.....
	1911	105	65.1	.185	11.98	.....	4	65	10	22	4	.....	.....	.....	.....	.....
	1912	103	65.5	.188	12.20	.....	5	65	11	10	10	2	.....	.....	.....	.....
G.L.and M.W.:																
5 plants	1907	42	64.1	.175	11.10	.....	16	16	2	6	2	.....	.....	.....	.....	.....
	1908	42	64.5	.159	10.23	.....	26	12	2	2	.....	.....	.....	.....	.....	.....
	1909	46	65.2	.162	10.48	.....	30	8	4	4	.....	.....	.....	.....	.....	.....
	1910	48	65.4	.183	11.84	.....	24	6	6	6	6	.....	.....	.....	.....	.....
6 plants	1910	58	65.9	.195	12.78	.....	24	6	6	6	16	.....	.....	.....	.....	.....
	1911	56	66.1	.190	12.51	.....	26	4	10	12	2	2	.....	.....	.....	.....
7 plants	1911	64	65.0	.186	12.11	.....	30	8	10	12	2	2	.....	.....	.....	.....
	1912	64	65.0	.203	13.21	.....	18	12	6	14	14	.....	.....	.....	.....	.....

[1] Including 1 employee earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

DRAG DOWNS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
3 plants	1907	16	61.4	$0.213	$13.19	.....	4	.....	.....	8	4	.....	.....	.....	.....	.....
	1908	20	59.2	.204	12.24	.....	4	4	2	6	4	.....	.....	.....	.....	.....
	1909	20	59.2	.215	12.85	.....	2	2	4	6	6	.....	.....	.....	.....	.....
	1910	20	59.2	.221	13.13	.....	2	2	.....	10	6	.....	.....	.....	.....	.....
7 plants	1910	35	61.1	.224	13.78	.....	2	4	2	20	6	1	.....	.....	.....	.....
	1911	32	61.6	.238	14.76	.....	2	.....	.....	15	14	1	.....	.....	.....	.....
	1912	33	60.9	.241	14.77	.....	.....	4	.....	17	10	2	.....	.....	.....	.....
Pittsburgh:																
5 plants	1907	48	67.6	.265	17.77	.....	5	4	10	11	4	6	4	4	.....	.....
	1908	43	68.0	.225	15.11	[1] 10	6	4	3	5	7	4	.....	4	.....	.....
	1909	44	68.1	.250	16.78	.....	14	4	1	4	7	10	4	.....	.....	.....
	1910	50	67.7	.288	19.21	.....	4	4	14	.....	14	10	.....	.....	.....	4
8 plants	1910	76	68.2	.270	18.25	.....	4	4	18	14	18	14	.....	.....	.....	4
	1911	70	67.7	.246	16.52	4	4	8	5	27	15	3	.....	.....	.....	4
	1912	72	67.4	.229	15.34	2	20	.....	10	14	12	10	4	.....	.....	.....
G.L.and M.W.:																
3 plants	1907	22	59.7	.325	19.31	.....	.....	.....	.....	.....	6	14	2	.....	.....	.....
	1908	19	59.6	.339	20.19	.....	.....	.....	.....	4	2	11	.....	2	.....	.....
	1909	19	59.6	.288	17.19	.....	.....	.....	.....	4	7	8	.....	.....	.....	.....
	1910	19	59.6	.350	20.85	.....	.....	.....	.....	.....	1	14	4	.....	.....	.....
4 plants	1910	21	60.4	.343	20.61	.....	.....	.....	.....	.....	3	14	4	.....	.....	.....
	1911	21	60.4	.354	21.34	.....	.....	.....	.....	.....	6	11	4	.....	.....	.....
5 plants	1911	25	60.0	.335	20.10	.....	.....	.....	.....	2	8	11	4	.....	.....	.....
	1912	25	60.0	.338	20.17	.....	.....	.....	.....	.....	5	16	4	.....	.....	.....

ROLL ENGINEERS.

Eastern:																
2 plants	1907	5	72.0	$0.171	$12.33	.....	.....	4	1	.....	.....	.....	.....	.....	.....	.....
	1908	6	70.0	.174	12.15	.....	.....	4	2	.....	.....	.....	.....	.....	.....	.....
	1909	6	70.0	.168	11.72	.....	4	.....	2	.....	.....	.....	.....	.....	.....	.....
	1910	6	70.0	.174	12.15	.....	.....	4	2	.....	.....	.....	.....	.....	.....	.....
6 plants	1910	19	71.6	.205	14.69	.....	.....	4	4	7	4	.....	.....	.....	.....	.....
	1911	17	69.0	.197	13.61	.....	.....	6	2	7	2	.....	.....	.....	.....	.....
	1912	18	66.7	.201	13.43	.....	.....	5	2	9	2	.....	.....	.....	.....	.....
Pittsburgh:																
6 plants	1907	31	73.8	.224	16.58	.....	.....	.....	2	23	6	.....	.....	.....	.....	.....
	1908	30	71.6	.223	16.02	.....	.....	.....	2	23	5	.....	.....	.....	.....	.....
	1909	30	71.8	.217	15.65	.....	.....	.....	8	18	4	.....	.....	.....	.....	.....
	1910	32	71.5	.236	16.90	.....	.....	.....	.....	26	6	.....	.....	.....	.....	.....
10 plants	1910	58	72.1	.232	16.76	.....	.....	.....	4	42	12	.....	.....	.....	.....	.....
	1911	56	70.2	.231	16.29	.....	.....	.....	4	39	13	.....	.....	.....	.....	.....
	1912	57	70.3	.231	16.30	.....	.....	.....	4	41	12	.....	.....	.....	.....	.....
G.L.and M.W.:																
5 plants	1907	22	70.3	.239	16.80	.....	.....	.....	2	10	10	.....	.....	.....	.....	.....
	1908	20	71.6	.231	16.46	.....	.....	.....	2	12	6	.....	.....	.....	.....	.....
	1909	20	71.6	.231	16.46	.....	.....	.....	2	12	6	.....	.....	.....	.....	.....
	1910	20	72.5	.239	17.21	.....	.....	.....	2	10	8	.....	.....	.....	.....	.....
6 plants	1910	22	72.1	.240	17.22	.....	.....	.....	2	10	10	.....	.....	.....	.....	.....
	1911	22	71.8	.244	17.41	.....	.....	.....	2	13	7	.....	.....	.....	.....	.....
	1912	22	72.1	.244	17.53	.....	.....	.....	2	13	7	.....	.....	.....	.....	.....

[1] Including 1 employee earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 8-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant.....	1907	2	59.3	$0.650	$38.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
	1908	2	59.3	.650	38.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
	1909	2	59.3	.755	44.73	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
	1910	1	59.3	.688	40.76	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
3 plants....	1910	4	55.8	.744	41.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1
	1911	5	54.8	.654	36.20	.....	.....	.....	.....	.....	.....	.....	.....	2	2	1
	1912	5	54.8	.724	40.29	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	3
Pittsburgh:																
4 plants....	1907	10	63.7	1.201	76.54	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	9
	1908	10	63.7	1.071	67.79	.....	.....	.....	.....	.....	.....	1	.....	1	.....	8
	1909	10	63.5	1.114	70.33	.....	.....	.....	.....	.....	.....	.....	1	.....	1	8
	1910	10	63.5	1.191	74.86	.....	.....	.....	.....	.....	.....	.....	1	1	.....	8
6 plants....	1910	20	59.2	1.055	63.37	.....	.....	.....	.....	.....	.....	.....	3	3	1	13
	1911	20	58.1	1.028	60.82	.....	.....	.....	.....	.....	.....	.....	2	3	2	13
	1912	20	58.1	.964	57.36	.....	.....	.....	.....	.....	.....	.....	4	2	1	13
G.L.and M.W.:																
2 plants....	1907	4	61.0	1.028	62.45	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3
	1908	4	61.5	.877	54.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
	1909	4	61.5	.664	43.06	.....	.....	.....	.....	.....	.....	1	1	.....	1	1
	1910	4	61.5	.706	45.23	.....	.....	.....	.....	.....	.....	.....	2	.....	1	1
	1911	4	61.5	.783	49.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1
	1912	4	61.5	.706	45.70	.....	.....	.....	.....	1	.....	.....	.....	.....	2	1

ROLLERS: 9-INCH.

Eastern:																
2 plants....	1910	5	59.0	$0.798	$47.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	3
	1911	4	61.5	.643	39.44	.....	.....	.....	.....	.....	.....	.....	.....	1	1	2
	1912	5	61.2	.634	38.71	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	3
Pittsburgh:																
3 plants....	1907	4	67.5	1.074	73.17	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	3
	1908	4	67.5	.710	48.29	.....	.....	.....	.....	.....	.....	.....	1	2	.....	1
	1909	4	66.0	.896	59.50	.....	.....	.....	.....	.....	.....	.....	1	.....	1	2
	1910	5	65.8	1.244	82.48	.....	.....	.....	.....	.....	.....	.....	1	.....	1	3
6 plants....	1910	12	62.3	1.103	70.12	.....	.....	.....	.....	.....	.....	.....	1	1	2	8
	1911	11	61.5	.789	49.45	.....	.....	.....	.....	.....	.....	1	2	1	1	6
	1912	11	61.0	.845	52.22	.....	.....	.....	.....	.....	.....	.....	.....	2	2	7
G.L.and M.W.:																
3 plants....	1907	8	66.3	1.020	67.99	.....	.....	.....	.....	.....	.....	.....	.....	1	2	5
	1908	7	67.8	.866	58.93	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	5
	1909	7	67.8	.796	54.40	.....	.....	.....	.....	.....	.....	.....	1	.....	2	4
	1910	7	67.8	.772	52.57	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	3
	1911	7	67.8	.984	66.56	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	5
	1912	7	67.8	.874	59.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	5

ROLLERS: 10-INCH.

Eastern:																
1 plant.....	1907	2	59.3	$0.650	$38.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
	1908	2	59.3	.650	38.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
	1909	2	59.3	1.024	60.67	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
	1910	2	59.3	.773	45.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
1 plant.....	1910	4	52.5	.750	39.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
	1911	4	48.8	.862	42.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
	1912	4	48.8	.945	46.04	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 10-INCH—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
4 plants	1907	10	68.9	$1.207	$83.51											10
	1908	10	68.9	1.039	71.56										1	9
	1909	10	68.6	1.110	75.92									1		9
	1910	10	68.6	1.265	86.50										1	9
6 plants	1910	14	68.6	1.160	79.23										1	13
	1911	14	67.8	.997	67.50								1	1	1	11
	1912	14	67.8	1.101	74.44									1		13

ROLLERS: 12-INCH.

Eastern:																
1 plant	1907	2	64.5	$1.056	$68.11											2
	1908	2	64.5	1.071	69.08											2
	1909	2	64.5	.934	60.24											2
	1910	2	64.5	1.025	66.11											2
4 plants	1910	7	60.4	.858	52.39										2	5
	1911	6	63.0	.883	55.61										2	4
	1912	7	61.1	1.036	63.46											7
Pittsburgh:																
3 plants	1907	7	68.7	.795	55.27									2	1	4
	1908	6	71.0	.608	43.05							1		2	2	1
	1909	6	70.7	.755	53.19									2	1	3
	1910	8	68.0	.801	54.91							1			2	5
6 plants	1910	15	64.1	.831	53.87							1		1	3	10
	1911	13	63.5	.781	49.35									4		9
	1912	14	63.6	.687	44.14						1			5	1	7
G. L. and M. W.:																
3 plants	1907	6	68.7	.971	67.03										1	5
	1908	5	70.8	.924	65.33											5
	1909	5	70.8	.967	68.50										1	4
	1910	5	70.8	.972	68.84										1	4
	1911	5	70.8	.963	68.22										1	4
	1912	5	70.8	.947	67.06										1	4

ROLLERS: 13-INCH, 14-INCH, AND 15-INCH.

Pittsburgh:																
2 plants	1910	5	57.6	$0.978	$55.33											5
	1911	5	57.6	.761	43.06										4	1
	1912	5	57.6	.772	44.02										3	2
G. L. and M. W.:																
1 plant	1910	2	68.0	.476	32.37								2			
	1911	2	68.0	.462	31.42								2			
	1912	2	68.0	.549	37.33									2		

ROLLERS: 16-INCH.

Eastern:																
2 plants	1907	4	61.0	$0.726	$44.52										2	2
	1908	4	61.0	.750	46.10										2	2
	1909	4	61.0	.711	43.78									2		2
	1910	5	60.3	.718	43.77									1	2	2
	1911	4	61.0	.746	45.84										2	2
	1912	3	59.8	.673	40.35										2	1

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 16-INCH—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
2 plants	1907	3	66.3	$1.126	$76.23										1	2
	1908	3	66.3	1.025	69.20										1	2
	1909	3	66.3	1.037	69.41											3
	1910	4	64.8	1.520	99.02											4
3 plants	1910	6	64.5	1.249	81.09											6
	1911	4	66.8	1.415	95.87											4
	1912	5	65.4	.954	63.50										2	3
G. L. and M. W.:																
1 plant	1911	4	60.5	.625	36.85								2			2
	1912	4	60.5	.745	44.41										2	2
ROLLERS: 18-INCH.																
Eastern:																
1 plant	1907	1	57.5	$0.932	$53.59											1
	1908	2	53.8	.783	42.06											2
	1909	2	53.8	.844	45.34											2
	1910	2	53.8	.893	48.00											2
4 plants	1910	7	60.2	.624	36.72							2		2		3
	1911	6	59.4	.654	38.44								2			4
	1912	7	58.1	.703	40.70										3	4
G. L. and M. W.:																
1 plant	1907	2	62.8	.947	60.29										1	1
	1908	2	62.8	.585	37.27							1				1
	1909	2	62.8	.663	42.24								1			1
	1910	2	62.8	.826	51.83											2
	1911	2	62.8	1.122	71.44											2
	1912	2	62.8	.921	58.98								1			1
ROLLERS: ALL SIZES.																
Eastern:																
3 plants	1907	11	60.7	$0.777	$47.45										6	5
	1908	12	59.8	.776	46.73										6	6
	1909	12	59.8	.830	49.76									2		10
	1910	12	59.6	.805	48.28									1	3	8
7 plants	1910	32	58.6	.748	42.74							2		3	9	18
	1911	29	58.4	.741	43.26								2	3	7	17
	1912	31	57.7	.799	46.11									4	5	22
Pittsburgh:																
6 plants	1907	34	66.9	1.097	73.79									4	2	28
	1908	33	67.3	.929	62.20							2	1	5	4	21
	1909	33	66.9	1.014	67.51								2	3	3	25
	1910	37	66.3	1.169	77.33							1	2	1	4	29
10 plants	1910	72	62.9	1.048	66.52							1	4	5	7	55
	1911	67	62.2	.937	58.89							1	5	9	8	44
	1912	69	62.1	.902	56.80						1		4	10	9	45
G. L. and M. W.:																
4 plants	1907	20	65.6	.999	65.83									1	5	14
	1908	18	66.7	.853	57.38							1			4	13
	1909	18	66.7	.799	54.44							1	3		4	10
	1910	18	66.7	.819	55.38								2		6	10
5 plants	1910	20	66.8	.785	53.08								4		6	10
	1911	20	66.8	.900	60.52								2		6	12
6 plants	1911	24	65.8	.854	56.57								4		6	14
	1912	24	65.8	.817	54.24					1			1	2	7	13

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 8-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1907	6	59.3	$0.250	$14.81	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
	1908	6	59.3	.250	14.81	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
	1909	6	59.3	.290	17.18	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
	1910	3	59.3	.263	15.58	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....
3 plants	1910	10	56.5	.346	19.59	.....	.....	.....	.....	.....	3	4	3	.....	.....	.....
	1911	13	55.7	.292	16.24	.....	.....	.....	.....	6	4	.....	3	.....	.....	.....
	1912	13	55.7	.322	17.96	.....	.....	.....	.....	.....	8	2	3	.....	.....	.....
Pittsburgh:																
4 plants	1907	24	65.7	.418	27.64	.....	.....	.....	.....	.....	1	14	5	4	.....	.....
	1908	24	65.7	.376	24.67	.....	.....	.....	.....	.....	8	3	13	.....	.....	.....
	1909	24	65.4	.396	25.86	.....	.....	.....	.....	.....	.....	14	9	1	.....	.....
	1910	24	65.4	.427	27.83	.....	.....	.....	.....	.....	6	2	7	9	.....	.....
6 plants	1910	60	58.4	.373	22.23	.....	.....	.....	.....	6	24	8	7	15	.....	.....
	1911	54	56.5	.362	20.81	.....	.....	.....	.....	.....	11	29	10	4	.....	.....
	1912	54	56.5	.334	19.19	.....	.....	.....	.....	6	14	21	12	1	.....	.....
G.L. and M.W.:																
2 plants	1907	14	54.3	.423	22.95	.....	.....	.....	.....	.....	.....	8	3	3	.....	.....
	1908	14	54.3	.422	22.88	.....	.....	.....	.....	.....	.....	.....	14	.....	.....	.....
	1909	14	54.3	.338	18.33	.....	.....	.....	.....	.....	.....	14	.....	.....	.....	.....
	1910	14	54.3	.362	19.65	.....	.....	.....	.....	.....	.....	14	.....	.....	.....	.....
	1911	14	54.3	.342	18.54	.....	.....	.....	.....	.....	.....	14	.....	.....	.....	.....
	1912	12	54.3	.359	19.47	.....	.....	.....	.....	.....	6	.....	6	.....	.....	.....

ROUGHERS: 9-INCH.

Eastern:																
2 plants	1910	12	59.2	$0.372	$22.08	.....	.....	.....	.....	.....	4	2	6	.....	.....	.....
	1911	12	59.0	.286	16.87	.....	.....	.....	.....	.....	8	4	.....	.....	.....	.....
	1912	15	58.2	.283	16.45	.....	.....	.....	.....	.....	9	6	.....	.....	.....	.....
Pittsburgh:																
3 plants	1907	14	66.3	.357	23.65	.....	.....	.....	.....	.....	3	7	4	.....	.....	.....
	1908	13	66.2	.297	19.70	.....	.....	.....	.....	6	.....	7	.....	.....	.....	.....
	1909	13	65.9	.339	22.29	.....	.....	.....	.....	.....	9	.....	4	.....	.....	.....
	1910	16	66.3	.332	21.95	.....	.....	.....	.....	.....	12	.....	4	.....	.....	.....
6 plants	1910	34	63.9	.412	26.14	.....	.....	.....	.....	.....	12	.....	16	6	.....	.....
	1911	31	62.4	.381	23.90	.....	.....	.....	.....	.....	6	13	12	.....	.....	.....
	1912	29	62.2	.397	24.60	.....	.....	.....	.....	.....	8	5	10	6	.....	.....
G.L. and M.W.:																
4 plants	1907	44	53.1	.630	31.94	.....	.....	.....	.....	.....	.....	6	8	8	.....	22
	1908	41	53.6	.422	24.45	.....	.....	.....	.....	.....	.....	13	20	8	.....	.....
	1909	41	53.6	.449	23.49	.....	.....	.....	.....	.....	.....	12	12	17	.....	.....
	1910	42	53.4	.500	26.36	.....	.....	.....	.....	.....	.....	4	16	16	6	.....
	1911	40	53.1	.479	25.94	.....	.....	.....	.....	.....	.....	12	12	12	4	.....
	1912	40	53.1	.505	26.75	.....	.....	.....	.....	.....	.....	3	12	17	8	.....

ROUGHERS: 10-INCH.

Eastern:																
1 plant	1907	8	59.3	$0.225	$13.33	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	.....
	1908	8	59.3	.225	13.33	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	.....
	1909	8	59.3	.355	21.03	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
	1910	9	59.3	.287	17.00	.....	.....	.....	.....	.....	9	.....	.....	.....	.....	.....
1 plant	1910	8	52.5	.398	20.90	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
	1911	8	48.8	.458	22.30	.....	.....	.....	.....	.....	.....	.....	6	2	.....	.....
	1912	8	48.8	.501	24.40	.....	.....	.....	.....	.....	.....	.....	4	4	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 10-INCH—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
4 plants	1907	25	66.1	$0.510	$34.16							3	4	18		
	1908	29	66.9	.350	23.23						6	15	8			
	1909	29	66.6	.374	24.48						12	6	7	4		
	1910	29	66.6	.429	28.01							12	6	11		
6 plants	1910	43	67.0	.415	27.49							20	12	11		
	1911	43	66.0	.349	22.80						3	29	11			
	1912	43	66.0	.380	24.75						6	20	14	3		

ROUGHERS: 12-INCH.

Eastern:																
2 plants	1907	9	62.2	$0.445	$27.90							3	6			
	1908	12	59.1	.345	20.58							12				
	1909	12	59.1	.375	22.58						3	3	6			
	1910	12	59.1	.387	22.79							12				
5 plants	1910	29	58.3	.371	21.84						10	12	4	3		
	1911	24	59.4	.392	23.44						8	7	3	6		
	1912	27	58.4	.453	26.61						2	7	6	12		
Pittsburgh:																
3 plants	1907	26	69.1	.419	29.07						6	2	14	4		
	1908	24	70.2	.289	20.21					2	12	10				
	1909	24	69.8	.345	24.02							24				
	1910	26	68.8	.393	27.06							14	12			
6 plants	1910	40	66.0	.405	26.77							19	21			
	1911	38	66.2	.360	23.49						6	24	7	1		
	1912	40	65.7	.330	21.76					4	5	31				
G.L.and M.W.:																
3 plants	1907	27	60.9	.403	24.92							19	8			
	1908	19	59.7	.288	17.78					9	6		4			
	1909	18	70.7	.344	24.23						6	12				
	1910	20	70.8	.418	29.61							8	12			
	1911	19	70.7	.324	22.96						8	11				
	1912	18	70.7	.436	30.93							8		10		

ROUGHERS: 13-INCH, 14-INCH, AND 15-INCH.

Eastern:																
1 plant	1910	2	72.0	$0.430	$30.96								2			
	1911	2	72.0	.447	32.18								2			
	1912	2	72.0	.426	30.67								2			
Pittsburgh:																
2 plants	1910	16	54.0	.473	25.07							4	9	3		
	1911	16	54.0	.376	19.85						2	9	5			
	1912	16	54.0	.400	21.13							4	12			
G. L.and M.W.:																
1 plant	1907	12	60.0	.289	17.34						12					
	1908	12	60.0	.250	15.00						12					
	1909	12	60.0	.262	15.72						12					
	1910	12	60.0	.289	17.34						12					
2 plants	1910	30	64.8	.325	21.19						12	18				
	1911	28	64.6	.309	20.04						12	16				
	1912	29	64.7	.341	22.25						12	7	10			

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 16-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
2 plants	1907	14	60.5	$0.299	$18.37	.....	.....	.....	.....	8	.....	6	.....	.....	.....	.....
	1908	14	60.5	.307	18.92	.....	.....	.....	.....	8	.....	.....	6	.....	.....	.....
	1909	14	60.5	.293	18.07	.....	.....	.....	.....	8	.....	.....	6	.....	.....	.....
	1910	20	59.6	.284	17.20	.....	.....	.....	.....	14	.....	.....	6	.....	.....	.....
	1911	14	60.5	.306	18.86	.....	.....	.....	.....	8	.....	.....	6	.....	.....	.....
	1912	10	58.9	.291	17.48	.....	.....	.....	.....	8	.....	.....	.....	2	.....	.....
Pittsburgh:																
3 plants	1907	22	64.5	.381	24.63	.....	.....	.....	.....	.....	.....	18	4	.....	.....	.....
	1908	18	65.1	.381	24.80	.....	.....	.....	.....	.....	.....	10	8	.....	.....	.....
	1909	20	65.4	.384	25.12	.....	.....	.....	.....	.....	.....	12	8	.....	.....	.....
	1910	22	64.5	.486	31.42	.....	.....	.....	.....	.....	.....	6	8	8	.....	.....
	1911	20	65.4	.490	31.93	.....	.....	.....	.....	.....	4	.....	4	12	.....	.....
	1912	22	64.5	.369	23.84	.....	.....	.....	.....	6	.....	8	8	.....	.....	.....
G. L. and M. W.:																
1 plant	1911	8	57.8	.414	23.93	.....	.....	.....	.....	.....	.....	2	6	.....	.....	.....
	1912	8	57.8	.528	30.77	.....	.....	.....	.....	.....	.....	.....	4	.....	4	.....

ROUGHERS: 18-INCH.

Eastern:																
1 plant	1907	1	57.5	$0.539	$30.99	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
	1908	2	53.8	.453	24.32	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	53.8	.487	26.18	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
	1910	2	53.8	.572	30.75	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
4 plants	1910	17	58.2	.381	22.49	.....	.....	.....	.....	6	.....	.....	6	5	.....	.....
	1911	13	59.2	.407	23.92	.....	.....	.....	.....	.....	2	6	.....	5	.....	.....
	1912	16	57.5	.475	27.22	.....	.....	.....	.....	.....	2	.....	9	5	.....	.....
G. L. and M. W.:																
1 plant	1907	6	62.8	.358	22.46	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....
	1908	6	62.8	.314	19.67	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....
	1909	6	62.8	.344	21.59	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....
	1910	6	62.8	.507	31.81	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
	1911	6	62.8	.523	32.82	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
	1912	6	62.8	.441	27.64	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....

ROUGHERS: ALL SIZES.

Eastern:																
3 plants	1907	38	60.4	$0.316	$19.34	.....	.....	.....	.....	16	6	9	6	1	.....	.....
	1908	42	59.4	.301	18.00	.....	.....	.....	.....	16	6	12	8	.....	.....	.....
	1909	42	59.4	.337	20.18	.....	.....	.....	.....	8	9	11	13	1	.....	.....
	1910	46	59.1	.322	19.10	.....	.....	.....	.....	14	12	12	6	2	.....	.....
8 plants	1910	98	58.3	.356	20.91	.....	.....	.....	.....	20	17	26	27	8	.....	.....
	1911	86	58.3	.358	20.48	.....	.....	.....	.....	14	22	17	20	13	.....	.....
	1912	91	57.3	.396	22.70	.....	.....	.....	.....	8	21	15	24	23	.....	.....
Pittsburgh:																
6 plants	1907	111	66.4	.424	28.35	.....	.....	.....	.....	.....	10	44	31	26	.....	.....
	1908	108	67.0	.341	22.72	.....	.....	.....	.....	8	26	45	29	.....	.....	.....
	1909	110	66.7	.370	24.54	.....	.....	.....	.....	.....	21	56	28	5	.....	.....
	1910	117	66.4	.418	27.58	.....	.....	.....	.....	.....	18	34	37	28	.....	.....
10 plants	1910	215	62.7	.412	25.90	.....	.....	.....	.....	6	36	57	73	43	.....	.....
	1911	202	61.9	.375	23.24	.....	.....	.....	.....	.....	32	104	49	17	.....	.....
	1912	204	61.8	.361	22.29	.....	.....	.....	.....	16	33	89	56	10	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: ALL SIZES—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
G. L. and M.W.:																
6 plants	1907	103	56.7	$0.487	$26.63	.....	.....	.....	.....	.....	12	39	19	11	.....	22
	1908	92	58.6	.365	21.29	.....	.....	.....	.....	9	18	19	38	8	.....	.....
	1909	91	58.5	.379	21.69	.....	.....	.....	.....	.....	18	44	12	17	.....	.....
	1910	94	58.7	.435	25.25	.....	.....	.....	.....	.....	12	26	28	22	6	.....
7 plants	1910	112	60.2	.422	25.01	.....	.....	.....	.....	.....	12	44	28	22	6	.....
	1911	107	59.9	.391	23.28	.....	.....	.....	.....	.....	20	53	12	18	4	.....
8 plants	1911	115	59.8	.393	23.33	.....	.....	.....	.....	.....	20	55	18	18	4	.....
	1912	113	59.8	.435	25.82	.....	.....	.....	.....	.....	18	18	38	27	12	.....
CATCHERS: 8-INCH.																
Eastern:																
1 plant	1907	2	59.3	$0.225	$13.33	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
	1908	2	59.3	.225	13.33	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
	1909	2	59.3	.261	15.46	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1910	1	59.3	.237	14.04	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
3 plants	1910	4	55.8	.269	15.20	.....	.....	.....	.....	3	.....	.....	1	.....	.....	.....
	1911	5	54.8	.234	12.98	.....	.....	.....	2	2	.....	1	.....	.....	.....	.....
	1912	5	54.8	.259	14.46	.....	.....	1	.....	1	2	.....	1	.....	.....	.....
Pittsburgh:																
1 plant	1907	8	58.0	.393	22.79	.....	.....	.....	.....	.....	.....	4	4	.....	.....	.....
	1908	8	58.0	.312	18.07	.....	.....	.....	.....	.....	2	6	.....	.....	.....	.....
	1909	8	58.0	.338	19.50	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
	1910	8	58.0	.406	23.58	.....	.....	.....	.....	.....	.....	6	2	.....	.....	.....
2 plants	1910	14	53.7	.373	20.21	.....	.....	.....	.....	.....	3	9	2	.....	.....	.....
	1911	14	53.7	.356	19.18	.....	.....	.....	.....	.....	.....	14	.....	.....	.....	.....
	1912	14	53.7	.331	17.81	.....	.....	.....	.....	.....	2	12	.....	.....	.....	.....
G.L. and M.W.:																
1 plant	1907	8	54.5	.366	19.95	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
	1908	8	54.5	.419	22.84	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....
	1909	8	54.5	.350	19.08	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
	1910	8	54.5	.353	19.24	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
	1911	8	54.5	.308	16.79	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
	1912	6	54.5	.429	23.38	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....
CATCHERS: 9-INCH.																
Eastern:																
1 plant	1910	2	60.0	$0.444	$26.64	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	63.0	.267	16.82	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1912	2	63.0	.257	16.19	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh:																
1 plant	1907	4	65.0	.413	26.85	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
	1908	4	65.0	.332	21.58	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
	1909	4	65.0	.482	31.33	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
	1910	4	65.0	.486	31.59	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
2 plants	1910	7	57.7	.461	26.84	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	.....
	1911	7	57.7	.332	19.32	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	.....
	1912	5	54.8	.323	17.28	.....	.....	.....	.....	.....	2	3	.....	.....	.....	.....
G.L. and M.W.:																
1 plant	1907	8	54.5	.505	27.52	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....
	1908	8	54.5	.516	28.12	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....
	1909	8	54.5	.502	27.36	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....
	1910	8	54.5	.546	29.76	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....
	1911	8	54.5	.578	31.50	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....
	1912	8	54.5	.686	37.39	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 10-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1910	4	52.5	$0.248	$13.02					4						
	1911	4	48.8	.286	13.94						3	1				
	1912	4	48.8	.312	15.21						2	2				
Pittsburgh:																
1 plant	1907	10	72.0	.352	25.35							9	1			
	1908	10	72.0	.377	27.14							7	3			
	1909	10	71.5	.379	27.06							7	3			
	1910	10	71.5	.456	32.63								10			
2 plants	1910	12	71.6	.428	30.65						2		10			
	1911	12	71.6	.391	27.96				1	1		2	8			
	1912	12	71.6	.455	32.57						2		8	2		

CATCHERS: 12-INCH.

Eastern:																
2 plants	1907	6	62.2	$0.285	$17.53					4		2				
	1908	8	59.1	.276	16.16						6	2				
	1909	8	59.1	.255	14.90					4	2	2				
	1910	8	59.1	.315	18.25						4	4				
4 plants	1910	11	59.7	.321	18.94						6	4	1			
	1911	11	59.7	.309	18.23					2	4	4	1			
	1912	12	58.9	.352	20.49						4	6	2			
Pittsburgh:																
3 plants	1907	10	67.6	.543	36.71								1	9		
	1908	9	68.4	.354	24.20						1	7			1	
	1909	9	68.2	.432	29.46							6	2			1
	1910	10	67.4	.488	32.86								8	2		
6 plants	1910	17	64.2	.457	29.58							5	8	4		
	1911	16	63.8	.409	26.11							11	4			1
	1912	17	63.6	.346	22.25					4	2	6	3	2		

CATCHERS: 13-INCH, 14-INCH, AND 15-INCH.

Eastern:																
1 plant	1910	2	72.0	$0.365	$26.28							2				
	1911	2	72.0	.388	27.94							2				
	1912	2	72.0	.375	27.00							2				
Pittsburgh:																
2 plants	1910	5	57.6	.495	28.17								2	3		
	1911	5	57.6	.393	22.32							3	2			
	1912	5	57.6	.419	23.78							2	3			

CATCHERS: 16-INCH.

Eastern:																
1 plant	1907	2	64.5	$0.488	$31.48								2			
	1908	2	64.5	.511	32.96									2		
	1909	2	64.5	.503	32.44									2		
	1910	2	64.5	.513	33.09									2		
	1911	2	64.5	.509	32.83									2		
	1912	1	64.5	.452	29.15								1			
Pittsburgh																
3 plants	1907	8	64.5	.673	43.40							4				4
	1908	7	65.1	.496	32.32						2	3				2
	1909	7	65.1	.566	37.04							4				3
	1910	10	64.6	.553	35.77								4	2	4	
	1911	7	65.1	.709	46.20								4		1	2
	1912	8	64.5	.518	33.48								6			2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 18-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1907	1	57.5	$0.320	$18.40	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
	1908	2	53.8	.268	14.41	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	53.8	.293	15.72	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
	1910	2	53.8	.339	18.22	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
4 plants	1910	7	57.4	.312	18.12	.....	.....	.....	2	.....	.....	4	1	.....	.....	.....
	1911	6	57.8	.309	17.83	.....	.....	.....	.....	1	2	2	1	.....	.....	.....
	1912	7	56.6	.355	20.18	.....	.....	.....	.....	1	.....	4	2	.....	.....	.....
G.L.and M.W.:																
1 plant	1907	2	62.8	.474	29.74	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
	1908	2	62.8	.361	22.62	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1909	2	62.8	.400	25.07	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....
	1910	2	62.8	.593	37.21	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
	1911	2	62.8	.550	34.48	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
	1912	2	62.8	.515	32.29	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....

CATCHERS: ALL SIZES.

Eastern:																
3 plants	1907	11	61.6	$0.314	$19.38	.....	.....	.....	.....	6	.....	3	2	.....	.....	.....
	1908	14	59.1	.301	17.91	.....	.....	.....	.....	2	8	2	.....	2	.....	.....
	1909	14	59.1	.297	17.60	.....	.....	.....	.....	4	5	3	.....	2	.....	.....
	1910	13	59.1	.343	20.21	.....	.....	.....	.....	1	4	6	.....	2	.....	.....
8 plants	1910	32	58.9	.326	19.38	.....	.....	.....	2	7	6	10	5	2	.....	.....
	1911	32	58.5	.309	18.23	.....	.....	.....	2	5	11	10	2	2	.....	.....
	1912	33	57.8	.332	19.27	.....	.....	1	.....	2	10	14	6	.....	.....	.....
Pittsburgh:																
6 plants	1907	40	65.9	.478	31.44	.....	.....	.....	.....	.....	.....	17	10	9	.....	4
	1908	38	66.2	.375	24.91	.....	.....	.....	.....	.....	5	27	3	.....	1	2
	1909	38	66.0	.428	28.34	.....	.....	.....	.....	.....	.....	25	9	.....	.....	4
	1910	42	65.7	.480	31.61	.....	.....	.....	.....	.....	.....	6	28	4	4	.....
10 plants	1910	65	62.2	.452	28.31	.....	.....	.....	.....	.....	5	14	33	9	4	.....
	1911	61	62.0	.417	26.10	.....	.....	.....	1	1	.....	37	18	.....	1	3
	1912	61	61.8	.391	24.45	.....	.....	.....	.....	4	8	23	20	4	.....	2
G.L.and M.W.:																
2 plants	1907	18	55.4	.440	24.40	.....	.....	.....	.....	.....	.....	8	1	9	.....	.....
	1908	18	55.4	.456	25.16	.....	.....	.....	.....	.....	.....	2	8	8	.....	.....
	1909	18	55.4	.423	23.42	.....	.....	.....	.....	.....	.....	9	1	8	.....	.....
	1910	18	55.4	.465	25.91	.....	.....	.....	.....	.....	.....	8	.....	10	.....	.....
	1911	18	55.4	.455	25.29	.....	.....	.....	.....	.....	.....	8	.....	10	.....	.....
	1912	16	55.5	.568	31.50	.....	.....	.....	.....	.....	.....	.....	6	2	8	.....

STRANDERS: 8-INCH.

Eastern:																
1 plant	1907	4	59.3	$0.200	$11.85	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
	1908	4	59.3	.200	11.85	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
	1909	4	59.3	.233	13.81	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
	1910	2	59.3	.211	12.50	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
3 plants	1910	5	56.5	.216	12.32	.....	.....	2	.....	2	.....	1	.....	.....	.....	.....
	1911	7	56.1	.200	11.27	.....	.....	1	5	.....	1	.....	.....	.....	.....	.....
	1912	7	56.1	.228	12.89	.....	.....	1	.....	5	.....	1	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 8-INCH—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pittsburgh:																
4 plants	1907	40	63.5	$0.282	$17.77	.....	.....	.....	2	14	11	7	6	.....	.....	.....
	1908	40	63.5	.257	16.28	1	1	.....	.....	12	20	6	.....	.....	.....	.....
	1909	40	63.4	.271	17.04	.....	1	1	.....	10	20	8	.....	.....	.....	.....
	1910	40	63.4	.312	19.57	.....	2	.....	.....	2	20	12	4	.....	.....	.....
6 plants	1910	58	62.1	.275	17.06	[1] 4	2	3	.....	11	22	12	4	.....	.....	.....
	1911	54	60.7	.256	15.67	[1] 4	.....	3	6	12	9	20	.....	.....	.....	.....
	1912	54	60.7	.245	15.04	[1] 5	2	3	7	3	20	14	.....	.....	.....	.....
G. L. and M. W.:																
2 plants	1907	12	61.0	.415	26.02	.....	.....	.....	.....	2	.....	4	.....	6	.....	.....
	1908	12	61.5	.321	20.03	.....	.....	.....	.....	2	.....	10	.....	.....	.....	.....
	1909	12	61.5	.299	18.94	.....	.....	.....	.....	4	2	6	.....	.....	.....	.....
	1910	12	61.5	.298	18.69	.....	.....	.....	.....	2	4	6	.....	.....	.....	.....
	1911	12	61.5	.244	14.90	.....	.....	.....	.....	8	4	.....	.....	.....	.....	.....
	1912	12	61.5	.245	15.32	.....	.....	.....	.....	6	6	.....	.....	.....	.....	.....

STRANDERS: 9-INCH.

Eastern:																
2 plants	1910	13	58.8	$0.228	$13.39	.....	.....	.....	6	5	.....	2	.....	.....	.....	.....
	1911	10	58.2	.176	10.19	.....	2	.....	8	.....	.....	.....	.....	.....	.....	.....
	1912	13	57.5	.176	10.07	2	.....	2	9	.....	.....	.....	.....	.....	.....	.....
Pittsburgh:																
3 plants	1907	11	65.5	.227	14.85	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....
	1908	11	65.5	.185	12.08	2	.....	.....	9	.....	.....	.....	.....	.....	.....	.....
	1909	11	65.4	.246	16.04	1	1	1	.....	.....	8	.....	.....	.....	.....	.....
	1910	11	65.4	.265	17.34	.....	2	.....	.....	.....	9	.....	.....	.....	.....	.....
5 plants	1910	23	67.0	.240	16.02	.....	2	.....	.....	12	9	.....	.....	.....	.....	.....
	1911	24	65.7	.198	13.02	.....	1	3	3	17	.....	.....	.....	.....	.....	.....
	1912	20	65.8	.196	12.85	.....	4	4	.....	12	.....	.....	.....	.....	.....	.....
G. L. and M. W.:																
3 plants	1907	30	52.9	.457	22.91	.....	.....	.....	.....	.....	6	6	.....	9	9	.....
	1908	28	52.8	.312	16.28	.....	.....	.....	.....	2	6	20	.....	.....	.....	.....
	1909	28	52.8	.304	15.64	.....	.....	.....	.....	8	2	18	.....	.....	.....	.....
	1910	28	52.8	.358	18.65	.....	.....	.....	.....	2	.....	26	.....	.....	.....	.....
	1911	28	52.8	.316	17.06	.....	.....	.....	.....	.....	18	7	3	.....	.....	.....
	1912	28	52.8	.291	15.42	.....	.....	.....	.....	2	9	17	.....	.....	.....	.....

STRANDERS: 10-INCH.

Eastern:																
1 plant	1907	4	59.3	$0.180	$10.67	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
	1908	4	59.3	.180	10.67	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
	1909	4	59.3	.315	18.66	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
"	1910	4	59.3	.239	14.16	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
1 plant	1910	4	52.5	.167	8.77	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
	1911	4	48.8	.189	9.19	.....	.....	1	2	1	.....	.....	.....	.....	.....	.....
	1912	4	48.8	.208	10.12	.....	.....	.....	1	3	.....	.....	.....	.....	.....	.....
Pittsburgh:																
4 plants	1907	39	54.7	.372	20.38	.....	.....	.....	.....	.....	.....	39	.....	.....	.....	.....
	1908	39	54.7	.335	17.74	.....	.....	.....	.....	8	2	29	.....	.....	.....	.....
	1909	39	54.5	.384	20.08	.....	.....	.....	.....	.....	10	17	12	.....	.....	.....
	1910	39	54.5	.465	24.00	.....	.....	.....	.....	.....	.....	18	.....	21	.....	.....
6 plants	1910	53	58.1	.406	22.06	.....	.....	.....	.....	8	6	18	.....	21	.....	.....
	1911	53	57.3	.333	17.96	.....	3	.....	3	8	9	9	21	.....	.....	.....
	1912	53	57.3	.382	20.44	.....	.....	.....	.....	8	15	9	9	12	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 12-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant.....	1907	2	64.5	$0.302	$19.48	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1908	2	64.5	.305	19.67	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1909	2	64.5	.273	17.61	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1910	2	64.5	.305	19.67	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
4 plants....	1910	15	57.5	.234	13.59	.....	.....	.....	.....	12	.....	3	.....	.....	.....	.....
	1911	9	59.2	.238	14.19	.....	.....	.....	2	4	.....	3	.....	.....	.....	.....
	1912	10	58.3	.273	16.06	.....	.....	.....	.....	4	2	4	.....	.....	.....	.....
Pittsburgh:																
1 plant.....	1907	3	64.0	.258	16.51	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....
	1908	2	68.0	.265	18.02	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	68.0	.265	18.02	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1910	4	64.0	.258	16.51	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
4 plants....	1910	23	65.7	.230	14.72	.....	.....	.....	4	12	4	3	.....	.....	.....	.....
	1911	21	64.6	.227	14.22	.....	.....	.....	14	2	2	2	1	.....	.....	.....
	1912	23	64.2	.216	13.63	.....	.....	.....	14	2	6	1	.....	.....	.....	.....
G.L. and M.W.:																
1 plant.....	1907	8	72.0	.400	28.80	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....
	1908	10	72.0	.284	20.45	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	.....
	1909	10	72.0	.302	21.74	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	.....
	1910	10	72.0	.494	35.57	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	.....
	1911	10	72.0	.392	28.22	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	.....
	1912	10	72.0	.559	40.25	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	.....

STRANDERS: 13-INCH, 14-INCH, AND 15-INCH.

G.L. and M.W.:																
1 plant.....	1907	20	60.0	$0.233	$14.00	.....	2	2	....	8	8	.....	.....	.....	.....	.....
	1908	20	60.0	.201	12.06	.....	2	2	....	16	.....	.....	.....	.....	.....	.....
	1909	20	60.0	.211	12.65	.....	2	2	....	16	.....	.....	.....	.....	.....	.....
	1910	26	60.0	.224	13.46	.....	....	2	8	8	8	.....	.....	.....	.....	.....
	1911	20	60.0	.221	13.25	.....	....	4	....	16	.....	.....	.....	.....	.....	.....
	1912	22	60.0	.217	13.01	.....	....	6	....	16	.....	.....	.....	.....	.....	.....

STRANDERS: 16-INCH.

Pittsburgh:																
1 plant.....	1907	2	65.0	$0.361	$23.47	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1908	2	65.0	.344	22.36	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1909	2	65.0	.299	19.44	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1910	2	65.0	.484	31.46	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	65.0	.480	31.20	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	65.0	.300	19.50	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
G.L. and M.W.:																
1 plant.....	1911	8	55.0	.410	22.55	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....
	1912	8	55.0	.431	23.71	.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: ALL SIZES.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
2 plants	1907	10	60.3	$0.212	$12.90	.....	.....	.....	4	4	.....	2	.....	.....	.....	.....
	1908	10	60.3	.213	12.94	.....	.....	.....	4	4	.....	2	.....	.....	.....	.....
	1909	10	60.3	.274	16.51	.....	.....	.....	.....	4	2	4	.....	.....	.....	.....
	1910	8	60.6	.249	15.12	.....	.....	.....	.....	6	.....	2	.....	.....	.....	.....
6 plants	1910	37	57.3	.222	12.83	.....	.....	6	6	19	.....	6	.....	.....	.....	.....
	1911	30	56.8	.202	11.51	.....	2	2	17	5	1	3	.....	.....	.....	.....
	1912	34	56.4	.219	12.42	2	.....	3	10	12	2	5	.....	.....	.....	.....
Pittsburgh:																
6 plants	1907	95	60.1	.314	18.58	.....	.....	2	2	23	14	48	6	.....	.....	.....
	1908	94	60.2	.283	16.56	3	1	.....	9	20	24	37	.....	.....	.....	.....
	1909	94	60.1	.315	18.26	1	2	2	.....	10	42	25	12	.....	.....	.....
	1910	96	60.1	.370	21.23	.....	4	.....	.....	2	33	30	6	21	.....	.....
10 plants	1910	159	62.0	.310	18.42	[1] 4	4	3	4	43	41	33	6	21	.....	.....
	1911	154	60.9	.272	16.05	[1] 4	4	6	26	39	20	31	24	.....	.....	.....
	1912	152	60.8	.283	16.48	[1] 5	6	7	21	25	41	26	9	12	.....	.....
G.L. and M.W.:																
5 plants	1907	70	58.5	.379	21.57	.....	2	2	.....	10	14	10	8	15	9	.....
	1908	70	59.1	.278	16.31	.....	2	2	.....	20	16	30	.....	.....	.....	.....
	1909	70	59.1	.276	16.22	.....	2	2	.....	28	4	34	.....	.....	.....	.....
	1910	76	59.2	.321	19.11	.....	.....	2	8	12	12	32	10	.....	.....	.....
	1911	70	59.1	.287	17.20	.....	.....	4	.....	24	22	17	3	.....	.....	.....
6 plants	1911	78	58.7	.300	17.74	.....	.....	4	.....	24	22	17	11	.....	.....	.....
	1912	80	58.7	.311	18.67	.....	.....	6	.....	24	15	17	8	10	.....	.....

FINISHERS: 8-INCH.

Eastern:																
1 plant	1907	2	59.3	$0.275	$16.29	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1908	2	59.3	.275	16.29	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	59.3	.320	18.96	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1910	1	59.3	.302	17.89	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
2 plants	1910	2	59.1	.304	17.94	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1911	3	58.8	.260	15.28	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....
	1912	3	58.8	.296	17.45	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....
Pittsburgh:																
3 plants	1907	6	67.5	.362	24.80	.....	.....	.....	.....	2	.....	2	1	1	.....	.....
	1908	6	67.5	.316	21.67	.....	.....	.....	.....	2	1	1	2	.....	.....	.....
	1909	6	67.2	.329	22.30	.....	.....	.....	.....	.....	2	2	2	.....	.....	.....
	1910	6	67.2	.353	23.92	.....	.....	.....	.....	.....	2	2	2	.....	.....	.....
5 plants	1910	16	59.4	.316	18.81	.....	.....	2	.....	.....	5	7	2	.....	.....	.....
	1911	16	58.1	.323	18.96	.....	.....	2	.....	.....	4	8	1	1	.....	.....
	1912	16	58.1	.305	17.92	.....	.....	2	.....	1	6	5	1	1	.....	.....
G.L. and M.W.:																
2 plants	1907	6	63.3	.243	15.11	.....	.....	.....	2	2	.....	2	.....	.....	.....	.....
	1908	6	64.0	.239	14.96	.....	.....	.....	2	2	.....	2	.....	.....	.....	.....
	1909	6	64.0	.242	15.17	.....	.....	.....	2	2	.....	2	.....	.....	.....	.....
	1910	6	64.0	.266	16.85	.....	.....	.....	.....	2	2	2	.....	.....	.....	.....
	1911	6	64.0	.267	16.87	.....	.....	.....	.....	2	2	2	.....	.....	.....	.....
	1912	6	64.0	.266	16.85	.....	.....	.....	.....	2	2	2	.....	.....	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 9-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1910	3	58.3	$0.299	$17.38	.....	.....	.....	.....	.....	2	1	.....	.....	.....	.....
	1911	2	55.0	.300	16.50	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
	1912	3	55.0	.300	16.50	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....
Pittsburgh:																
2 plants	1907	3	66.7	.218	14.55	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....
	1908	3	66.7	.191	12.78	.....	2	.....	.....	.....	1	.....	.....	.....	.....	.....
	1909	3	66.3	.205	13.68	.....	.....	1	1	.....	1	.....	.....	.....	.....	.....
	1910	3	66.3	.204	13.58	.....	.....	2	.....	.....	1	.....	.....	.....	.....	.....
5 plants	1910	10	61.7	.294	17.40	.....	.....	2	.....	2	3	.....	3	.....	.....	.....
	1911	10	60.6	.257	15.34	.....	.....	1	1	2	3	3	.....	.....	.....	.....
	1912	10	60.6	.279	16.47	.....	.....	1	1	.....	5	3	.....	.....	.....	.....
G.L. and M.W.:																
3 plants	1907	12	66.9	.251	16.67	[1] 2	.....	.....	.....	4	4	.....	2	.....	.....	.....
	1908	11	68.2	.260	17.56	1	.....	.....	.....	4	4	2	.....	.....	.....	.....
	1909	11	68.2	.267	18.04	1	.....	.....	.....	4	4	2	.....	.....	.....	.....
	1910	11	68.2	.277	18.67	1	.....	.....	.....	4	4	.....	2	.....	.....	.....
	1911	11	68.2	.281	18.97	1	.....	.....	.....	4	4	.....	2	.....	.....	.....
	1912	11	68.2	.281	18.94	1	.....	.....	.....	4	4	.....	2	.....	.....	.....

FINISHERS: 10-INCH.

Eastern:																
1 plant	1907	2	59.3	$0.275	$16.29	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1908	2	59.3	.275	16.29	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	59.3	.434	25.72	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	59.3	.324	19.20	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
Pittsburgh:																
3 plants	1907	8	70.1	.426	30.04	.....	.....	.....	.....	.....	.....	2	4	2	.....	.....
	1908	8	70.1	.359	25.28	.....	.....	.....	.....	.....	2	4	2	.....	.....	.....
	1909	8	69.8	.375	26.27	.....	.....	.....	.....	.....	.....	5	3	.....	.....	.....
	1910	8	69.8	.434	30.44	.....	.....	.....	.....	.....	.....	4	2	2	.....	.....
5 plants	1910	12	69.3	.376	26.20	.....	.....	.....	.....	2	2	4	2	2	.....	.....
	1911	12	68.4	.329	22.72	.....	.....	1	1	2	2	2	3	1	.....	.....
	1912	12	68.4	.358	24.73	.....	.....	.....	.....	.....	5	4	1	2	.....	.....

FINISHERS: 12-INCH.

Eastern:																
1 plant	1910	1	64.0	$0.281	$17.98	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
	1911	1	58.0	.259	15.02	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
3 plants	1911	4	55.1	.223	12.35	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....
	1912	5	54.1	.229	12.41	.....	.....	.....	2	.....	3	.....	.....	.....	.....	.....
Pittsburgh:																
2 plants	1907	6	69.3	.335	22.96	.....	.....	.....	.....	.....	4	.....	2	.....	.....	.....
	1908	5	71.2	.250	17.64	.....	.....	2	.....	2	.....	.....	1	.....	.....	.....
	1909	5	70.8	.284	20.02	.....	.....	.....	.....	2	2	.....	1	.....	.....	.....
	1910	6	69.0	.336	22.97	.....	.....	.....	.....	.....	2	2	2	.....	.....	.....
5 plants	1910	13	64.0	.338	21.16	.....	.....	.....	.....	.....	4	4	5	.....	.....	.....
	1911	12	63.4	.316	19.34	.....	.....	.....	.....	6	2	.....	3	1	.....	.....
	1912	13	63.2	.301	18.77	.....	.....	.....	.....	5	3	3	2	.....	.....	.....
G.L. and M.W.:																
2 plants	1907	6	69.3	.338	23.60	.....	.....	.....	.....	.....	2	2	2	.....	.....	.....
	1908	6	70.0	.288	20.21	.....	.....	.....	.....	.....	4	2	.....	.....	.....	.....
	1909	6	70.0	.307	21.53	.....	.....	.....	.....	.....	2	4	.....	.....	.....	.....
	1910	6	70.0	.383	26.96	.....	.....	.....	.....	.....	2	2	.....	2	.....	.....
	1911	6	70.0	.350	24.64	.....	.....	.....	.....	.....	2	2	2	.....	.....	.....
	1912	6	70.0	.400	28.24	.....	.....	.....	.....	.....	4	.....	.....	.....	2	.....

[1] Including 1 employee earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 13-INCH, 14-INCH, AND 15-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1910	4	72.0	$0.298	$21.46	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
	1911	4	72.0	.309	22.25	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
	1912	4	72.0	.305	21.96	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
Pittsburgh:																
2 plants	1910	7	61.7	.376	21.93	.....	.....	.....	.....	.....	2	2	.....	3	.....	.....
	1911	7	61.7	.327	19.43	.....	.....	.....	.....	.....	4	2	1	.....	.....	.....
	1912	7	61.7	.337	19.89	.....	.....	.....	.....	.....	4	.....	3	.....	.....	.....
G.L. and M.W.:																
1 plant	1907	4	60.0	.315	18.90	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
	1908	4	60.0	.275	16.50	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
	1909	4	60.0	.289	17.34	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
	1910	4	60.0	.316	18.96	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
	1911	4	60.0	.302	18.12	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
	1912	4	60.0	.302	18.12	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....

FINISHERS: 16-INCH.

Eastern:																
1 plant	1907	2	57.5	$0.275	$15.81	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1908	2	57.5	.275	15.81	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	57.5	.240	13.80	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
	1910	3	57.5	.275	15.81	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....
	1911	2	57.5	.275	15.81	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1912	2	57.5	.275	15.81	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh:																
1 plant	1907	6	64.5	.257	16.58	.....	.....	.....	.....	4	2	.....	.....	.....	.....	.....
	1908	6	64.5	.231	14.88	.....	.....	.....	.....	5	1	.....	.....	.....	.....	.....
	1909	6	64.5	.274	17.64	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
	1910	6	64.5	.328	21.16	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....
2 plants	1910	8	64.4	.342	22.04	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....
	1911	9	64.9	.336	21.82	.....	.....	.....	.....	.....	.....	9	.....	.....	.....	.....
	1912	10	64.4	.276	17.77	.....	.....	2	.....	.....	6	2	.....	.....	.....	.....
G.L. and M.W.:																
1 plant	1911	8	57.8	.414	23.93	.....	.....	.....	.....	.....	.....	2	6	.....	.....	.....
	1912	8	57.8	.528	30.77	.....	.....	.....	.....	.....	.....	.....	4	.....	4	.....

FINISHERS: 18-INCH.

Eastern:																
2 plants	1910	3	61.3	$0.221	$13.59	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....
	1911	3	59.3	.292	17.32	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....
	1912	4	57.0	.285	16.29	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....
G.L. and M.W.:																
1 plant	1907	2	62.8	.435	27.30	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	62.8	.417	26.25	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....
	1909	2	62.8	.438	27.48	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	62.8	.438	27.48	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	62.8	.438	27.48	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	62.8	.438	27.48	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: ALL SIZES.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1907	6	58.7	$0.275	$16.13	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
	1908	6	58.7	.275	16.13	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
	1909	6	58.7	.331	19.49	.....	.....	.....	.....	2	.....	2	2	.....	.....	.....
	1910	6	58.4	.296	17.29	.....	.....	.....	.....	.....	3	3	.....	.....	.....	.....
4 plants	1910	16	62.6	.279	17.50	.....	.....	.....	.....	3	10	3	.....	.....	.....	.....
	1911	15	61.7	.287	17.76	.....	.....	.....	.....	.....	7	8	.....	.....	.....	.....
5 plants	1911	18	60.4	.274	16.71	.....	.....	.....	2	.....	8	8	.....	.....	.....	.....
	1912	21	59.2	.278	16.60	.....	.....	.....	2	.....	8	11	.....	.....	.....	.....
Pittsburgh:																
4 plants	1907	29	67.9	.337	23.10	.....	.....	.....	2	6	7	4	7	3	.....	.....
	1908	28	68.2	.285	19.57	.....	2	2	.....	9	5	5	5	.....	.....	.....
	1909	28	67.9	.309	21.11	.....	.....	1	1	2	11	7	6	.....	.....	.....
	1910	29	67.6	.351	23.88	.....	.....	2	.....	.....	5	14	6	2	.....	.....
8 plants	1910	66	63.3	.337	21.12	.....	.....	4	.....	4	16	25	12	5	.....	.....
	1911	66	62.6	.315	19.60	.....	.....	4	2	10	15	24	8	3	.....	.....
	1912	68	62.5	.309	19.25	.....	.....	5	1	6	29	17	7	3	.....	.....
G. L. and M. W.:																
5 plants	1907	30	65.5	.288	18.75	[1] 2	.....	.....	2	6	6	8	6	.....	.....	.....
	1908	29	66.2	.274	18.02	1	.....	.....	2	6	12	7	1	.....	.....	.....
	1909	29	66.2	.285	18.72	1	.....	.....	2	6	10	8	2	.....	.....	.....
	1910	29	66.2	.313	20.66	1	.....	.....	.....	6	8	8	4	2	.....	.....
	1911	29	66.2	.306	20.18	1	.....	.....	.....	6	8	8	6	.....	.....	.....
6 plants	1911	37	64.4	.329	20.99	1	.....	.....	.....	6	8	10	12	.....	.....	.....
	1912	37	64.4	.362	23.04	1	.....	.....	.....	6	10	6	8	.....	6	.....

HOOK UPS: 12-INCH.

Eastern:																
1 plant	1907	2	64.5	$0.280	$18.06	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1908	2	64.5	.283	18.25	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	64.5	.255	16.45	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1910	2	64.5	.283	18.25	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
5 plants	1910	10	59.5	.215	12.91	.....	1	2	2	2	3	.....	.....	.....	.....	.....
	1911	9	59.3	.207	12.42	.....	3	2	.....	1	3	.....	.....	.....	.....	.....
	1912	11	57.6	.235	13.70	.....	2	2	.....	3	.....	4	.....	.....	.....	.....
Pittsburgh:																
2 plants	1907	14	68.6	.243	16.70	.....	.....	.....	.....	12	2	.....	.....	.....	.....	.....
	1908	12	70.7	.177	12.45	.....	2	6	2	2	.....	.....	.....	.....	.....	.....
	1909	12	70.3	.221	15.45	.....	.....	.....	4	4	4	.....	.....	.....	.....	.....
	1910	14	68.3	.242	16.51	.....	.....	.....	.....	8	6	.....	.....	.....	.....	.....
5 plants	1910	38	58.9	.250	14.46	.....	.....	.....	2	12	24	.....	.....	.....	.....	.....
	1911	30	60.9	.237	14.02	.....	.....	4	10	.....	12	4	.....	.....	.....	.....
	1912	32	60.6	.225	13.43	.....	.....	.....	12	7	13	.....	.....	.....	.....	.....
G. L. and M. W.:																
3 plants	1907	33	63.3	.309	20.00	.....	.....	.....	.....	.....	17	16	.....	.....	.....	.....
	1908	23	68.6	.253	17.25	.....	.....	.....	.....	16	3	4	.....	.....	.....	.....
	1909	23	68.6	.250	16.99	.....	.....	.....	.....	16	4	3	.....	.....	.....	.....
	1910	21	71.6	.372	26.60	.....	.....	.....	.....	.....	4	3	14	.....	.....	.....
	1911	14	71.6	.282	20.19	.....	.....	.....	.....	6	.....	8	.....	.....	.....	.....
	1912	13	71.5	.408	29.24	.....	.....	.....	.....	.....	2	3	8	.....	.....	.....

[1] Including 1 employee earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOOK UPS: 13-INCH, 14-INCH, AND 15-INCH.

District., and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1910	13	72.0	$0.177	$12.74	.....	.....	7	6	.....	.....	.....	.....	.....	.....	.....
	1911	12	72.0	.191	13.75	.....	.....	.....	8	4	.....	.....	.....	.....	.....	.....
	1912	12	72.0	.189	13.58	.....	.....	.....	8	4	.....	.....	.....	.....	.....	.....
Pittsburgh:																
2 plants	1910	17	59.3	.305	16.96	.....	.....	.....	4	4	.....	9	.....	.....	.....	.....
	1911	17	59.3	.262	14.80	.....	.....	.....	4	4	.....	9	.....	.....	.....	.....
	1912	17	59.3	.272	15.28	.....	.....	.....	4	4	.....	9	.....	.....	.....	.....
G. L. and M. W.:																
1 plant	1907	8	60.0	.184	11.04	.....	.....	4	4	.....	.....	.....	.....	.....	.....	.....
	1908	14	60.0	.163	9.77	.....	.....	14	.....	.....	.....	.....	.....	.....	.....	.....
	1909	8	60.0	.173	10.40	.....	.....	6	2	.....	.....	.....	.....	.....	.....	.....
	1910	12	60.0	.197	11.84	.....	.....	.....	8	4	.....	.....	.....	.....	.....	.....
2 plants	1910	20	63.2	.219	13.96	.....	.....	.....	8	4	8	.....	.....	.....	.....	.....
	1911	16	63.5	.211	13.51	.....	.....	3	6	7	.....	.....	.....	.....	.....	.....
	1912	22	62.9	.218	13.91	.....	.....	10	4	.....	8	.....	.....	.....	.....	.....

HOOK UPS: 16-INCH.

Eastern:																
2 plants	1907	10	63.1	$0.268	$17.06	.....	.....	2	.....	.....	8	.....	.....	.....	.....	.....
	1908	10	63.1	.277	17.63	.....	.....	2	.....	.....	.....	8	.....	.....	.....	.....
	1909	10	63.1	.274	17.46	.....	2	.....	.....	.....	.....	8	.....	.....	.....	.....
	1910	10	63.1	.282	17.96	.....	.....	.....	2	.....	.....	8	.....	.....	.....	.....
	1911	10	63.1	.280	17.81	.....	.....	.....	2	.....	.....	8	.....	.....	.....	.....
	1912	6	62.2	.241	15.10	.....	.....	.....	2	.....	4	.....	.....	.....	.....	.....
Pittsburgh:																
3 plants	1907	16	64.4	.261	16.81	4	.....	.....	.....	.....	8	2	2	.....	.....	.....
	1908	13	65.5	.262	17.14	.....	.....	1	2	5	1	4	.....	.....	.....	.....
	1909	17	65.6	.275	18.00	.....	.....	.....	.....	4	10	3	.....	.....	.....	.....
	1910	25	64.5	.344	22.18	.....	.....	.....	.....	.....	2	19	2	2	.....	.....
	1911	15	65.3	.376	24.52	.....	.....	.....	.....	.....	1	10	2	2	.....	.....
	1912	18	64.4	.277	17.86	.....	.....	.....	2	4	6	6	.....	.....	.....	.....
G. L. and M. W.:																
1 plant	1911	10	57.2	.236	13.41	.....	.....	.....	3	.....	7	.....	.....	.....	.....	.....
	1912	12	56.8	.272	15.50	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....

HOOK UPS: 18-INCH.

Eastern:																
1 plant	1907	1	57.5	$0.164	$9.43	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	1908	2	53.8	.139	7.44	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1909	2	53.8	.160	8.57	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....
	1910	2	53.8	.160	8.60	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
4 plants	1910	13	59.2	.170	10.09	2	3	4	2	2	.....	.....	.....	.....	.....	.....
	1911	13	59.2	.160	9.38	[1]4	4	1	1	3	.....	.....	.....	.....	.....	.....
	1912	16	57.5	.184	10.56	2	2	4	1	7	.....	.....	.....	.....	.....	.....
G. L. and M. W.:																
1 plant	1907	8	62.8	.247	15.51	.....	.....	2	.....	3	3	.....	.....	.....	.....	.....
	1908	8	62.8	.202	12.69	.....	2	.....	.....	6	.....	.....	.....	.....	.....	.....
	1909	8	62.8	.213	13.35	.....	2	.....	.....	6	.....	.....	.....	.....	.....	.....
	1910	7	62.8	.332	20.85	.....	.....	.....	1	.....	.....	6	.....	.....	.....	.....
	1911	8	62.8	.321	20.13	.....	.....	.....	2	.....	.....	6	.....	.....	.....	.....
	1912	8	62.8	.282	17.67	.....	.....	.....	2	.....	.....	6	.....	.....	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOOK UPS: ALL SIZES.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
3 plants	1907	13	62.9	$0.262	$16.63	.....	.....	3	.....	.....	10	.....	.....	.....	.....	.....
	1908	14	62.0	.258	16.26	1	1	2	.....	.....	2	8	.....	.....	.....	.....
	1909	14	62.0	.255	16.04	.....	3	1	.....	.....	2	8	.....	.....	.....	.....
	1910	14	62.0	.265	16.67	.....	.....	2	2	.....	2	8	.....	.....	.....	.....
7 plants	1910	46	63.7	.206	13.16	2	4	13	12	4	3	8	.....	.....	.....	.....
	1911	44	63.6	.205	13.11	[1] 4	7	3	11	8	3	8	.....	.....	.....	.....
	1912	45	62.0	.205	12.74	2	4	6	11	14	4	4	.....	.....	.....	.....
Pittsburgh:																
4 plants	1907	30	66.4	.253	16.76	4	.....	.....	.....	12	10	2	2	.....	.....	.....
	1908	25	68.0	.221	14.89	.....	2	7	4	7	1	4	.....	.....	.....	.....
	1909	29	67.6	.252	16.95	.....	.....	.....	4	8	14	3	.....	.....	.....	.....
	1910	39	65.8	.307	20.14	.....	.....	.....	.....	8	8	19	2	2	.....	.....
7 plants	1910	80	60.7	.291	17.40	.....	.....	.....	6	16	26	28	2	2	.....	.....
	1911	62	61.5	.277	16.78	.....	.....	4	14	4	13	23	2	2	.....	.....
	1912	67	61.3	.251	15.09	.....	.....	.....	18	15	19	15	.....	.....	.....	.....
G. L. and M. W.:																
5 plants	1907	49	62.7	.278	17.80	.....	.....	6	4	3	20	16	.....	.....	.....	.....
	1908	45	64.9	.216	14.12	.....	2	14	.....	22	3	4	.....	.....	.....	.....
	1909	39	65.6	.227	14.89	.....	2	6	2	22	4	3	.....	.....	.....	.....
	1910	40	66.6	.312	21.16	.....	.....	.....	9	4	4	9	14	.....	.....	.....
6 plants	1910	48	66.8	.302	20.49	.....	.....	.....	9	4	12	9	14	.....	.....	.....
	1911	38	66.3	.260	17.37	.....	.....	3	8	13	.....	14	.....	.....	.....	.....
7 plants	1911	48	64.4	.255	16.54	.....	.....	3	11	13	7	14	.....	.....	.....	.....
	1912	55	63.6	.284	18.43	.....	.....	10	6	.....	22	9	8	.....	.....	.....

ROLL HANDS, OTHER: 8-INCH.

Eastern:																
2 plants	1910	5	56.4	$0.229	$13.07	.....	2	.....	.....	.....	3	.....	.....	.....	.....	.....
	1911	5	54.3	.219	12.02	.....	.....	1	1	1	2	.....	.....	.....	.....	.....
	1912	5	54.3	.227	12.48	.....	.....	1	1	1	2	.....	.....	.....	.....	.....
Pittsburgh:																
4 plants	1907	16	64.3	.271	17.43	.....	2	.....	2	2	3	7	.....	.....	.....	.....
	1908	16	64.3	.257	16.38	[2] 3	1	.....	.....	4	3	3	2	.....	.....	.....
	1909	16	64.1	.255	16.22	2	1	1	.....	6	1	3	2	.....	.....	.....
	1910	16	64.1	.280	17.74	2	2	.....	.....	2	4	3	2	1	.....	.....
6 plants	1910	24	60.1	.270	15.98	[1] 4	2	.....	.....	2	7	6	2	1	.....	.....
	1911	24	59.7	.275	16.26	[3] 2	2	2	.....	2	6	8	2	.....	.....	.....
	1912	24	59.7	.265	15.76	[4] 5	1	.....	.....	3	7	6	1	1	.....	.....
G. L. and M. W.:																
1 plant	1907	4	68.0	.166	11.29	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
	1908	4	69.0	.158	10.90	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1909	4	69.0	.158	10.90	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1910	4	69.0	.168	11.59	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
	1911	4	69.0	.167	11.52	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
	1912	4	69.0	.167	11.52	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....

[1] Including 2 employees earning 10 and under 12 cents per hour.
[2] Including 1 employee earning 10 and under 12 cents per hour.
[3] Earning 10 and under 12 cents per hour.
[4] Including 3 employees earning 10 and under 12 cents per hour

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: 9-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1910	2	60.0	$0.225	$13.50	....	....	....	....	2	....	....	....	....	....	....
	1911	1	63.0	.129	8.13	1	....	....	....	....	....	....	....	....	....	....
	1912	2	63.0	.127	8.00	2	....	....	....	....	....	....	....	....	....	....
Pittsburgh:																
1 plant	1907	2	66.0	.185	12.21	....	....	....	2	....	....	....	....	....	....	....
	1908	2	66.0	.146	9.60	....	2	....	....	....	....	....	....	....	....	....
	1909	2	65.5	.167	10.94	....	....	2	....	....	....	....	....	....	....	....
	1910	2	65.5	.166	10.87	....	....	2	....	....	....	....	....	....	....	....
3 plants	1910	17	53.1	.295	15.08	....	2	2	....	....	1	9	3	....	....	....
	1911	18	52.5	.252	13.16	1	1	2	....	9	....	3	2	....	....	....
	1912	18	52.5	.289	15.07	....	1	3	....	2	7	3	....	2	....	....
G.L.and M.W.:																
2 plants	1907	16	58.9	.229	12.99	....	....	8	....	....	6	2	....	....	....	....
	1908	16	59.7	.233	13.37	....	....	8	....	....	6	2	....	....	....	....
	1909	16	59.7	.229	13.15	....	....	8	....	....	6	2	....	....	....	....
	1910	16	59.7	.243	13.98	....	....	....	8	....	6	2	....	....	....	....
	1911	16	59.7	.238	13.65	....	....	8	....	....	6	2	....	....	....	....
	1912	16	59.7	.238	13.65	....	....	8	....	....	6	2	....	....	....	....

ROLL HANDS, OTHER: 10-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1910	4	52.5	$0.159	$8.35	....	4	....	....	....	....	....	....	....	....	....
	1911	4	48.8	.187	9.10	....	....	1	3	....	....	....	....	....	....	....
	1912	4	48.8	.195	9.52	....	....	1	1	2	....	....	....	....	....	....
Pittsburgh:																
4 plants	1907	29	70.4	.388	27.24	....	....	....	....	1	....	22	1	5	....	....
	1908	29	70.4	.327	22.89	....	....	....	....	12	5	5	3	4	....	....
	1909	29	70.0	.346	24.04	....	....	....	....	1	15	6	3	3	1	....
	1910	29	70.0	.409	28.38	....	....	....	....	....	2	17	4	2	2	2
6 plants	1910	35	69.6	.382	26.43	....	....	....	2	....	6	17	4	2	2	2
	1911	35	68.9	.343	23.59	....	1	....	3	....	16	5	6	1	3	....
	1912	35	68.9	.369	25.31	....	....	....	....	3	16	4	8	....	2	2

ROLL HANDS, OTHER: 12-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
1 plant	1907	4	64.5	$0.198	$12.74	....	....	....	2	2	....	....	....	....	....	....
	1908	4	64.5	.211	13.61	....	....	....	....	4	....	....	....	....	....	....
	1909	4	64.5	.204	13.16	....	....	....	2	2	....	....	....	....	....	....
	1910	4	64.5	.202	13.03	....	....	....	2	2	....	....	....	....	....	....
2 plants	1910	6	61.3	.207	12.68	....	....	....	2	4	....	....	....	....	....	....
	1911	5	62.6	.202	12.68	....	....	....	2	3	....	....	....	....	....	....
	1912	5	62.6	.214	13.40	....	....	....	....	5	....	....	....	....	....	....
Pittsburgh:																
2 plants	1907	4	68.0	.213	14.39	....	....	....	2	2	....	....	....	....	....	....
	1908	3	70.7	.208	14.63	....	....	....	2	1	....	....	....	....	....	....
	1909	3	70.3	.208	14.57	....	....	....	2	1	....	....	....	....	....	....
	1910	4	67.8	.218	14.70	....	....	....	....	4	....	....	....	....	....	....
5 plants	1910	11	63.3	.254	15.33	....	....	....	3	4	1	3	....	....	....	....
	1911	9	62.7	.278	16.42	....	....	2	....	3	1	1	2	....	....	....
	1912	10	62.4	.247	14.90	....	....	2	....	4	1	3	....	....	....	....
G.L.and M.W.:																
1 plant	1907	16	72.0	.198	14.27	....	....	14	....	....	....	....	2	....	....	....
	1908	14	72.0	.186	13.37	....	12	....	....	....	....	....	2	....	....	....
	1909	14	72.0	.212	15.24	....	....	....	12	....	....	2	....	....	....	....
	1910	14	72.0	.354	25.51	....	....	....	....	....	....	12	....	2	....	....
2 plants	1910	16	71.6	.335	24.01	....	....	....	2	....	....	12	....	2	....	....
	1911	18	71.7	.257	18.41	....	....	....	2	14	....	....	2	....	....	....
	1912	18	71.7	.350	25.12	....	....	....	2	....	....	14	....	....	2	....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: 13-INCH, 14-INCH, AND 15-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over
Eastern:																
1 plant	1910	5	72.0	$0.274	$19.73						5					
	1911	4	72.0	.299	21.53						4					
	1912	4	72.0	.293	21.10						4					
Pittsburgh:																
2 plants	1910	24	60.0	.314	17.57				10			2	12			
	1911	24	60.0	.263	14.86			10		1	1	12				
	1912	21	61.7	.263	15.23			10			2	9				
ROLL HANDS, OTHER: 16-INCH.																
Eastern:																
1 plant	1907	2	64.5	$0.258	$16.64						2					
	1908	2	64.5	.276	17.80						2					
	1909	2	64.5	.256	16.51						2					
	1910	2	64.5	.256	16.51						2					
	1911	2	64.5	.286	18.45						2					
	1912	1	64.5	.265	17.09						1					
Pittsburgh:																
1 plant	1907	2	64.5	.405	25.89							1	1			
	1908	2	64.5	.386	24.61							1	1			
	1909	2	64.5	.463	29.42							1		1		
	1910	2	64.5	.492	31.74								1	1		
	1911	2	64.5	.510	32.81								1	1		
	1912	2	64.5	.459	29.72								2			
ROLL HANDS, OTHER: 18-INCH.																
Eastern:																
3 plants	1910	5	58.8	$0.198	$11.70				4	1						
	1911	4	59.8	.201	11.84		1	1		1	1					
	1912	5	57.8	.226	13.02					4	1					
G. L. and M. W.:																
1 plant	1907	2	62.8	.237	14.84					1	1					
	1908	2	62.8	.181	11.33			1	1							
	1909	2	62.8	.200	12.55				1	1						
	1910	2	62.8	.296	18.57						2					
	1911	2	62.8	.366	22.97							2				
	1912	2	62.8	.257	16.13						2					
ROLL HANDS, OTHER: ALL SIZES.																
Eastern:																
1 plant	1907	6	64.5	$0.218	$14.04				2	2	2					
	1908	6	64.5	.233	15.01					4	2					
	1909	6	64.5	.221	14.28				2	2	2					
	1910	6	64.5	.220	14.19				2	2	2					
6 plants	1910	29	60.8	.219	13.52		6		6	7	10					
	1911	25	59.9	.222	13.54	1	1	3	6	5	9					
	1912	26	59.5	.223	13.46	2		2	2	12	8					
Pittsburgh:																
5 plants	1907	53	68.0	.333	22.69		2		6	5	3	30	2	5		
	1908	52	68.2	.294	19.96	[1] 3	3		2	17	8	9	6	4		
	1909	52	67.8	.308	20.79	2	1	3	2	8	16	10	5	4	1	
	1910	53	67.7	.349	23.60	2	2	2		6	6	20	7	4	2	2
9 plants	1910	113	62.3	.320	19.64	[2] 4	4	2	15	6	15	37	22	4	2	2
	1911	112	61.8	.294	18.06	[2] 3	4	16	3	15	24	29	13	2	3	
	1912	110	62.2	.304	18.76	[3] 5	2	15		12	33	25	11	3	2	

[1] Including 1 employee earning 10 and under 12 cents per hour.
[2] Including 2 employees earning 10 and under 12 cents per hour.
[3] Including 3 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: ALL SIZES—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
G. L. and M. W.:																
3 plants	1907	38	65.6	$0.210	$13.45	.....	.....	26	.....	1	7	2	2	.....	.....	.....
	1908	36	65.7	.203	12.98	.....	16	9	1	.....	6	2	2	.....	.....	.....
	1909	36	65.7	.213	13.68	.....	4	8	13	1	6	4	.....	.....	.....	.....
	1910	36	65.7	.281	18.45	.....	.....	4	8	.....	8	14	.....	2	.....	.....
	1910	38	65.8	.276	18.19	.....	.....	4	10	.....	8	14	.....	2	.....	.....
	1911	40	66.2	.246	16.04	.....	.....	12	2	14	6	4	2	.....	.....	.....
	1912	40	66.2	.282	18.72	.....	.....	12	2	.....	8	16	.....	.....	2	.....

HOTBED MEN.

Eastern:																
3 plants	1907	46	59.8	$0.161	$9.67	.....	32	6	1	7	.....	.....	.....	.....	.....	.....
	1908	48	59.4	.162	9.67	.....	33	9	.....	6	.....	.....	.....	.....	.....	.....
	1909	48	59.4	.167	9.94	20	8	7	.....	13	.....	.....	.....	.....	.....	.....
	1910	41	59.6	.180	10.73	.....	16	11	6	8	.....	.....	.....	.....	.....	.....
8 plants	1910	108	60.3	.183	11.05	4	46	15	13	23	6	1	.....	.....	.....	.....
	1911	95	59.0	.176	10.42	2	44	24	7	11	4	3	.....	.....	.....	.....
	1912	109	58.4	.180	10.49	8	29	33	12	17	9	1	.....	.....	.....	.....
Pittsburgh:																
6 plants	1907	144	64.2	.216	13.84	[1] 14	10	18	26	42	14	20	.....	.....	.....	.....
	1908	132	64.4	.195	12.42	[2] 17	4	29	36	26	13	7	.....	.....	.....	.....
	1909	138	64.4	.202	12.83	[3] 18	2	32	25	37	9	15	.....	.....	.....	.....
	1910	154	63.7	.240	14.94	[4] 12	4	21	18	46	30	2	19	2	.....	.....
10 plants	1910	244	62.0	.221	13.50	[5] 38	14	33	34	53	43	8	19	2	.....	.....
	1911	226	61.6	.201	12.32	[6] 38	20	40	46	40	17	19	4	2	.....	.....
	1912	232	61.5	.204	12.43	[7] 39	9	28	46	64	27	19	.....	.....	.....	.....
G. L. and M. W.:																
6 plants	1907	112	63.7	.165	10.55	[8] 4	66	23	5	11	3	.....	.....	.....	.....	.....
	1908	119	63.5	.154	9.80	[9] 10	79	26	1	3	.....	.....	.....	.....	.....	.....
	1909	100	63.7	.156	8.97	[9] 14	60	14	8	4	.....	.....	.....	.....	.....	.....
	1910	107	64.0	.174	11.14	[9] 10	18	55	12	4	6	2	.....	.....	.....	.....
7 plants	1910	148	66.4	.177	11.79	[9] 10	18	79	24	7	8	2	.....	.....	.....	.....
	1911	113	65.3	.176	11.50	[9] 10	14	61	6	14	6	2	.....	.....	.....	.....
8 plants	1911	129	64.5	.174	11.25	[9] 10	26	61	10	14	6	2	.....	.....	.....	.....
	1912	120	65.1	.180	11.78	[9] 10	4	69	11	20	2	4	.....	.....	.....	.....

[1] Including 10 employees earning 10 and under 12 cents per hour.
[2] Including 6 employees earning 8 and under 9 cents and 4 employees earning 9 and under 10 cents per hour.
[3] Including 6 employees earning 9 and under 10 cents and 6 employees earning 10 and under 12 cents per hour.
[4] Including 6 employees earning 9 and under 10 cents and 4 employees earning 10 and under 12 cents per hour.
[5] Including 6 employees earning 9 and under 10 cents and 16 employees earning 10 and under 12 cents per hour.
[6] Including 21 employees earning 10 and under 12 cents per hour.
[7] Including 3 employees earning 8 and under 9 cents, 5 employees earning 9 and under 10 cents, and 17 employees earning 10 and under 12 cents per hour.
[8] Earning 10 and under 12 cents per hour.
[9] Including 2 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

SHEARMEN.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Eastern:																
3 plants	1907	16	60.3	$0.166	$10.04	.....	1	12	3	....	.....	.....	.....	.....	....	.....
	1908	18	60.3	.166	10.00	.....	1	14	3	....	.....	.....	.....	.....	....	.....
	1909	18	60.3	.173	10.42	.....	5	8	3	....	2	.....	.....	.....	....	.....
	1910	18	60.3	.167	10.10	.....	7	5	6	....	.....	.....	.....	.....	....	.....
8 plants	1910	38	59.0	.197	11.53	2	11	8	6	5	2	4	.....	.....	....	.....
	1911	37	58.8	.199	11.38	2	7	12	8	2	2	2	2	.....	....	.....
	1912	39	58.5	.207	11.73	2	5	12	8	6	2	1	2	1	....	.....
Pittsburgh:																
6 plants	1907	36	67.5	.305	20.57	.....	....	3	1	8	4	18	.....	.....	2	.....
	1908	33	68.2	.253	17.29	2	....	3	2	11	10	4	.....	.....	1	.....
	1909	34	67.8	.268	18.27	.....	1	3	1	13	7	7	1	.....	1	.....
	1910	38	67.4	.298	20.04	.....	2	.....	2	3	15	14	1	1	....	.....
10 plants	1910	71	63.5	.321	19.90	.....	2	.....	2	11	24	21	7	1	....	3
	1911	67	62.5	.293	17.91	.....	1	2	5	15	21	16	4	3	....	.....
	1912	70	62.5	.294	18.12	.....	....	2	4	20	20	16	4	4	....	.....
G. L. and M. W.:																
6 plants	1907	42	64.3	.233	14.79	.....	....	2	16	12	8	2	.....	2	....	.....
	1908	41	64.8	.207	13.33	.....	....	7	16	11	5	2	.....	.....	....	.....
	1909	41	65.4	.211	13.68	.....	....	2	23	7	7	2	.....	.....	....	.....
	1910	41	64.8	.236	15.10	.....	....	3	16	11	3	6	2	.....	....	.....
7 plants	1910	47	66.4	.230	15.05	.....	....	3	22	11	3	6	2	.....	....	.....
	1911	47	65.2	.241	15.48	.....	....	3	28	6	2	2	4	2	....	.....
	1912	45	65.7	.232	14.99	.....	....	3	26	5	3	8	.....	.....	....	.....

SHEARMEN'S HELPERS.

Eastern:																
3 plants	1907	35	63.0	$0.142	$8.96	[1] 14	15	6	....	.....	.....	.....	.....	.....	....	.....
	1908	40	62.6	.143	8.96	[1] 15	19	6	....	.....	.....	.....	.....	.....	....	.....
	1909	40	62.6	.143	8.90	[2] 19	17	2	....	2	.....	.....	.....	.....	....	.....
	1910	40	62.6	.148	9.24	[3] 10	22	6	2	.....	.....	.....	.....	.....	....	.....
6 plants	1910	62	65.0	.145	9.41	[3] 24	25	11	2	.....	.....	.....	.....	.....	....	.....
	1911	58	63.8	.143	9.12	[1] 26	21	11	....	.....	.....	.....	.....	.....	....	.....
	1912	55	63.0	.150	9.38	[1] 20	16	12	7	.....	.....	.....	.....	.....	....	.....
Pittsburgh:																
6 plants	1907	75	66.5	.193	12.86	[3] 8	10	23	6	18	8	2	.....	.....	....	.....
	1908	65	68.2	.187	12.71	[3] 4	8	25	6	19	1	2	.....	.....	....	.....
	1909	73	70.0	.187	12.99	[4] 4	10	28	9	19	1	2	.....	.....	....	.....
	1910	107	65.9	.206	13.56	2	16	22	9	44	12	2	.....	.....	....	.....
10 plants	1910	204	63.0	.208	13.06	[5] 14	16	36	25	83	16	14	.....	.....	....	.....
	1911	194	62.6	.190	11.80	[6] 19	13	79	20	45	16	2	.....	.....	....	.....
	1912	206	62.6	.196	12.28	[7] 14	14	51	19	88	18	2	.....	.....	....	.....

[1] Including 5 employees earning 10 and under 12 cents per hour.
[2] Including 10 employees earning 10 and under 12 cents per hour.
[3] Including 2 employees earning 10 and under 12 cents per hour.
[4] Including 4 employees earning 10 and under 12 cents per hour.
[5] Including 6 employees earning 8 and under 9 cents and 6 employees earning 10 and under 12 cents per hour.
[6] Including 6 employees earning 10 and under 12 cents per hour.
[7] Including 2 employees earning 9 and under 10 cents and 6 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE III.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Concluded.

BAR MILLS—Continued.

SHEARMEN'S HELPERS—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Number of employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
G. L. and M. W.:																
6 plants	1907	91	66.5	$0.171	$11.27	.....	51	20	6	10	4	.....	.....	.....	.....	.....
	1908	67	66.4	.163	10.73	.....	47	2	14	2	2	.....	.....	.....	.....	.....
	1909	72	67.1	.165	10.96	16	36	2	8	6	4	.....	.....	.....	.....	.....
	1910	68	65.9	.171	11.17	.....	17	41	2	4	4	.....	.....	.....	.....	.....
7 plants	1910	89	68.5	.169	11.45	.....	17	62	2	4	4	.....	.....	.....	.....	.....
	1911	107	66.1	.175	11.50	.....	23	66	2	12	2	.....	2	.....	.....	.....
	1912	97	67.3	.179	11.93	.....	.....	79	2	6	8	2	.....	.....	.....	.....

BUNDLERS.

Pittsburgh:																
5 plants	1907	41	66.9	$0.202	$13.53	.....	.....	10	13	16	1	1	.....	.....	.....	.....
	1908	41	66.9	.174	11.68	2	12	15	8	3	1	.....	.....	.....	.....	.....
	1909	41	66.8	.186	12.42	.....	4	13	18	6	.....	.....	.....	.....	.....	.....
	1910	41	67.1	.213	14.23	.....	2	9	2	26	2	.....	.....	.....	.....	.....
6 plants	1910	77	66.1	.207	13.69	.....	2	9	24	40	2	.....	.....	.....	.....	.....
	1911	81	63.5	.193	12.28	.....	1	16	32	30	2	.....	.....	.....	.....	.....
7 plants	1911	131	62.0	.197	12.20	.....	1	16	32	80	2	.....	.....	.....	.....	.....
	1912	132	62.0	.193	11.94	.....	.....	16	90	24	2	.....	.....	.....	.....	.....

LABORERS.

Eastern:																
2 plants	1907	26	60.0	$0.132	$7.92	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1908	37	60.0	.131	7.88	37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1909	39	60.0	.131	7.87	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1910	65	60.0	.138	8.26	40	25	.....	.....	.....	.....	.....	.....	.....	.....	.....
3 plants	1910	95	60.0	.147	8.82	40	25	30	.....	.....	.....	.....	.....	.....	.....	.....
	1911	75	57.9	.148	8.53	34	10	31	.....	.....	.....	.....	.....	.....	.....	.....
4 plants	1911	109	58.6	.145	8.49	34	44	31	.....	.....	.....	.....	.....	.....	.....	.....
	1912	97	58.3	.142	8.27	34	45	18	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh:																
5 plants	1907	218	69.6	.154	10.70	1	166	51	.....	.....	.....	.....	.....	.....	.....	.....
	1908	136	65.1	.157	10.21	2	81	53	.....	.....	.....	.....	.....	.....	.....	.....
	1909	216	69.7	.151	10.52	4	178	34	.....	.....	.....	.....	.....	.....	.....	.....
	1910	236	70.0	.163	11.39	.....	.....	236	.....	.....	.....	.....	.....	.....	.....	.....
8 plants	1910	265	70.7	.161	11.38	11	11	243	.....	.....	.....	.....	.....	.....	.....	.....
	1911	192	68.6	.163	11.15	10	9	173	.....	.....	.....	.....	.....	.....	.....	.....
	1912	213	68.7	.163	11.16	10	9	194	.....	.....	.....	.....	.....	.....	.....	.....
G. L. and M. W.:																
3 plants	1907	52	67.1	.159	10.65	.....	7	45	.....	.....	.....	.....	.....	.....	.....	.....
	1908	54	67.4	.158	10.61	.....	9	45	.....	.....	.....	.....	.....	.....	.....	.....
	1909	69	66.4	.157	10.37	7	4	58	.....	.....	.....	.....	.....	.....	.....	.....
	1910	123	65.6	.169	11.05	.....	6	117	.....	.....	.....	.....	.....	.....	.....	.....
4 plants	1910	151	67.6	.167	11.24	.....	34	117	.....	.....	.....	.....	.....	.....	.....	.....
	1911	88	67.1	.166	11.14	.....	7	81	.....	.....	.....	.....	.....	.....	.....	.....
5 plants	1911	89	67.2	.166	11.14	.....	8	81	.....	.....	.....	.....	.....	.....	.....	.....
	1912	114	67.2	.167	11.23	.....	.....	114	.....	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912.

BAR MILLS—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Stockers:											
8 plants	1907	93	64.4	.....	8	.....	8	65	8	4	.....
	1908	90	64.1	.....	10	.....	8	59	13	.....	.....
	1909	88	64.2	.....	8	.....	8	69	3	.....	.....
	1910	87	64.3	.....	8	.....	7	69	3	.....	.....
13 plants	1910	170	59.0	27	42	.....	7	86	8	.....	.....
	1911	164	59.6	27	28	13	20	70	6	.....	.....
15 plants	1911	211	60.9	27	28	13	44	72	27	.....	.....
	1912	217	60.9	27	32	4	59	67	28	.....	.....
Heaters:											
15 plants	1907	121	63.9	3	6	10	3	85	12	.....	2
	1908	112	63.9	3	14	6	2	68	17	.....	2
	1909	112	64.0	3	14	6	2	78	5	2	2
	1910	142	64.2	3	16	4	.....	103	10	4	2
25 plants	1910	217	62.9	18	25	4	16	126	22	4	2
	1911	180	62.6	18	26	6	2	107	17	2	2
26 plants	1911	184	62.7	18	26	6	2	111	17	2	2
	1912	199	62.4	18	12	31	2	114	18	2	2
Heaters' helpers:											
14 plants	1907	167	65.3	3	8	12	4	108	26	6	.....
	1908	153	65.1	3	16	8	4	86	32	4	.....
	1909	151	65.0	3	16	8	4	112	2	6	.....
	1910	166	65.2	3	16	8	4	124	3	4	4
24 plants	1910	295	62.6	48	23	8	23	154	31	4	4
	1911	281	62.5	48	26	12	7	150	30	8	.....
25 plants	1911	293	62.7	48	26	12	7	162	30	8	.....
	1912	319	62.2	45	29	44	6	161	30	4	.....
Chargers and helpers:											
12 plants	1907	104	65.5	.....	6	4	5	71	16	2	.....
	1908	102	65.6	.....	6	4	5	67	20	.....	.....
	1909	107	65.9	.....	6	4	4	80	8	5	.....
	1910	110	66.3	.....	6	4	4	86	10	.....	.....
18 plants	1910	179	65.3	12	10	4	12	106	35	.....	.....
	1911	177	65.1	12	11	10	5	106	33	.....	.....
19 plants	1911	185	64.8	12	15	10	5	110	33	.....	.....
	1912	182	65.0	9	17	6	6	111	33	.....	.....
Drag downs:											
11 plants	1907	86	64.4	.....	8	8	.....	52	16	2	.....
	1908	82	63.9	.....	16	4	.....	43	19	.....	.....
	1909	83	64.0	.....	16	4	.....	58	3	2	.....
	1910	89	64.0	.....	16	4	.....	62	3	4	.....
19 plants	1910	132	65.1	.....	20	4	4	75	25	4	.....
	1911	123	64.9	.....	23	5	.....	68	25	2	.....
20 plants	1911	127	64.7	.....	25	5	.....	70	25	2	.....
	1912	130	64.3	.....	27	6	.....	70	25	2	.....
Roll engineers:											
13 plants	1907	58	72.3	.....	.....	.....	.....	31	5	18	4
	1908	56	71.4	.....	.....	.....	.....	28	10	16	2
	1909	56	71.5	.....	.....	.....	.....	30	6	18	2
	1910	58	71.7	.....	.....	.....	.....	32	4	19	3
22 plants	1910	99	72.0	.....	.....	.....	3	40	26	23	7
	1911	95	70.4	.....	.....	.....	3	54	13	23	2
	1912	97	70.0	.....	4	.....	1	51	12	27	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Rollers, 8-inch:											
7 plants	1907	16	62.5	.....	3	3	2	6	1	1	.....
	1908	16	62.6	.....	3	3	2	6	1	1	.....
	1909	16	62.5	.....	3	3	2	7	1	.....	.....
	1910	15	62.7	.....	4	1	2	8	.....	.....	.....
11 plants	1910	28	59.0	6	6	2	2	12	.....	.....	.....
	1911	29	58.0	6	7	4	2	9	1	.....	.....
	1912	29	58.0	6	7	4	2	9	1	.....	.....
Rollers, 9-inch:											
6 plants	1907	12	66.7	.....	.....	.....	3	7	2	.....	.....
	1908	11	67.7	.....	.....	.....	2	7	2	.....	.....
	1909	11	67.1	.....	.....	.....	2	8	1	.....	.....
	1910	12	67.0	.....	.....	.....	1	10	1	.....	.....
11 plants	1910	24	63.2	3	1	.....	5	12	3	.....	.....
	1911	22	63.5	3	1	.....	4	11	3	.....	.....
	1912	23	63.1	3	1	.....	5	11	3	.....	.....
Rollers, 10-inch:											
5 plants	1907	12	67.3	.....	.....	2	2	4	2	2	.....
	1908	12	67.3	.....	.....	2	2	4	2	2	.....
	1909	12	67.0	.....	.....	2	2	5	3	.....	.....
	1910	12	67.0	.....	.....	2	2	7	1	.....	.....
7 plants	1910	18	65.0	.....	4	.....	2	9	3	.....	.....
	1911	18	63.6	.....	5	.....	2	6	5	.....	.....
	1912	18	63.6	.....	5	.....	2	6	5	.....	.....
Rollers, 12-inch:											
7 plants	1907	15	68.1	.....	.....	.....	2	6	7	.....	.....
	1908	13	69.9	.....	.....	.....	.....	6	7	.....	.....
	1909	13	69.8	.....	.....	.....	.....	8	5	.....	.....
	1910	15	68.5	.....	.....	.....	1	9	5	.....	.....
13 plants	1910	27	64.4	3	2	.....	3	12	7	.....	.....
	1911	24	64.9	3	1	1	.....	12	7	.....	.....
	1912	26	64.3	3	2	1	1	12	7	.....	.....
Rollers, 13-inch, 14-inch, and 15-inch:											
3 plants	1910	7	60.6	3	.....	.....	.....	2	2	.....	.....
	1911	7	60.6	3	.....	.....	.....	2	2	.....	.....
	1912	7	60.6	3	.....	.....	.....	2	2	.....	.....
Rollers, 16-inch:											
4 plants	1907	7	63.3	.....	.....	2	1	4	.....	.....	.....
	1908	7	63.3	.....	.....	2	1	4	.....	.....	.....
	1909	7	63.3	.....	.....	2	1	4	.....	.....	.....
	1910	9	62.3	.....	.....	3	1	5	.....	.....	.....
5 plants	1910	11	62.6	.....	.....	3	2	6	.....	.....	.....
	1911	8	63.9	.....	.....	2	1	5	.....	.....	.....
6 plants	1911	12	62.8	.....	2	2	1	7	.....	.....	.....
	1912	12	62.4	.....	2	2	2	6	.....	.....	.....
Rollers, 18-inch:											
2 plants	1907	3	61.0	.....	.....	1	1	1	.....	.....	.....
	1908	4	58.3	.....	2	.....	1	1	.....	.....	.....
	1909	4	58.3	.....	2	.....	1	1	.....	.....	.....
	1910	4	58.3	.....	2	.....	.....	2	.....	.....	.....
5 plants	1910	9	60.8	.....	2	.....	2	5	.....	.....	.....
	1911	8	60.3	.....	2	1	1	4	.....	.....	.....
	1912	9	59.1	.....	4	.....	1	4	.....	.....	.....
Rollers, all sizes:											
13 plants	1907	65	65.5	.....	3	8	11	28	12	3	.....
	1908	63	65.7	.....	5	7	8	28	12	3	.....
	1909	63	65.5	.....	5	7	8	33	10	.....	.....
	1910	67	65.2	.....	6	6	7	41	7	.....	.....
22 plants	1910	124	62.4	15	15	5	16	58	15	.....	.....
	1911	116	62.0	15	16	8	10	49	18	.....	.....
23 plants	1911	120	62.0	15	18	8	10	51	18	.....	.....
	1912	124	61.7	15	21	7	13	50	18	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Roughers, 8-inch:											
7 plants	1907	44	61.2	.....	15	8	.....	15	6	.....	.....
	1908	44	61.2	.....	15	8	.....	15	6	.....	.....
	1909	44	61.0	.....	15	8	.....	21	.....	.....	.....
	1910	41	61.2	.....	15	5	.....	21	.....	.....	.....
11 plants	1910	84	57.5	24	19	8	.....	33	.....	.....	.....
	1911	81	56.0	24	25	11	.....	21	.....	.....	.....
	1912	79	56.0	24	23	11	.....	21	.....	.....	.....
Roughers, 9-inch:											
7 plants	1907	58	56.3	22	8	.....	.....	28	.....	.....	.....
	1908	54	60.4	12	8	.....	.....	30	4	.....	.....
	1909	54	56.5	21	8	.....	.....	21	4	.....	.....
	1910	58	56.9	22	8	.....	.....	24	4	.....	.....
12 plants	1910	88	58.2	28	10	.....	10	30	10	.....	.....
	1911	83	57.4	27	17	.....	.....	30	9	.....	.....
	1912	84	57.2	27	20	.....	.....	28	9	.....	.....
Roughers, 10-inch:											
5 plants	1907	33	64.4	3	.....	8	.....	8	14	.....	.....
	1908	37	65.2	3	.....	8	.....	8	18	.....	.....
	1909	37	65.0	3	.....	8	.....	26	.....	.....	.....
	1910	38	64.8	3	.....	9	.....	26	.....	.....	.....
7 plants	1910	51	64.8	3	8	.....	.....	34	6	.....	.....
	1911	51	63.3	3	12	.....	.....	30	6	.....	.....
	1912	51	63.3	3	12	.....	.....	30	6	.....	.....
Roughers, 12-inch:											
8 plants	1907	62	64.5	9	.....	3	.....	26	24	.....	.....
	1908	55	64.1	9	6	.....	.....	14	26	.....	.....
	1909	54	67.7	.....	6	.....	.....	38	10	.....	.....
	1910	58	67.5	.....	6	.....	.....	40	12	.....	.....
14 plants	1910	89	64.6	6	16	.....	4	45	18	.....	.....
	1911	81	65.3	6	10	3	.....	45	17	.....	.....
	1912	85	64.4	6	16	.....	.....	47	16	.....	.....
Roughers, 13-inch, 14-inch, and 15-inch:											
1 plant	1907	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
	1908	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
	1909	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
	1910	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
5 plants	1910	48	61.5	12	.....	.....	12	18	6	.....	.....
	1911	46	61.2	12	.....	.....	12	16	6	.....	.....
	1912	47	61.4	12	.....	.....	12	17	6	.....	.....
Roughers, 16-inch:											
5 plants	1907	36	63.0	.....	.....	8	.....	28	.....	.....	.....
	1908	32	63.1	.....	.....	8	.....	24	.....	.....	.....
	1909	34	63.4	.....	.....	8	.....	26	.....	.....	.....
	1910	42	62.2	.....	.....	14	.....	28	.....	.....	.....
	1911	34	63.4	.....	.....	8	.....	26	.....	.....	.....
6 plants	1911	42	62.3	.....	4	8	.....	30	.....	.....	.....
	1912	40	61.8	.....	4	8	.....	28	.....	.....	.....
Roughers, 18-inch:											
2 plants	1907	7	62.0	.....	.....	1	.....	6	.....	.....	.....
	1908	8	60.5	.....	2	.....	.....	6	.....	.....	.....
	1909	8	60.5	.....	2	.....	.....	6	.....	.....	.....
	1910	8	60.5	.....	2	.....	.....	6	.....	.....	.....
5 plants	1910	23	59.4	.....	8	.....	6	9	.....	.....	.....
	1911	19	60.3	.....	4	3	.....	12	.....	.....	.....
	1912	22	58.9	.....	10	.....	.....	12	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Roughers, all sizes:											
15 plants	1907	252	61.5	34	23	28	12	111	44	.....	.....
	1908	242	62.5	24	31	24	12	97	54	.....	.....
	1909	243	62.4	24	31	24	12	138	14	.....	.....
	1910	257	62.3	25	31	28	12	145	16	.....	.....
25 plants	1910	425	61.0	73	61	22	32	197	40	.....	.....
	1911	395	60.6	72	68	25	12	180	38	.....	.....
26 plants	1911	403	60.5	72	72	25	12	184	38	.....	.....
	1912	408	60.2	72	85	19	12	183	37	.....	.....
Catchers, 8-inch:											
3 plants	1907	18	56.6	.....	8	10	.....	.....	.....	.....	.....
	1908	18	56.6	.....	8	10	.....	.....	.....	.....	.....
	1909	18	56.6	.....	8	10	.....	.....	.....	.....	.....
	1910	17	56.4	.....	8	9	.....	.....	.....	.....	.....
6 plants	1910	26	54.3	6	10	10	.....	.....	.....	.....	.....
	1911	27	54.1	6	10	11	.....	.....	.....	.....	.....
	1912	25	54.1	6	8	11	.....	.....	.....	.....	.....
Catchers, 9-inch:											
2 plants	1907	12	58.0	.....	8	.....	.....	4	.....	.....	.....
	1908	12	58.0	.....	8	.....	.....	4	.....	.....	.....
	1909	12	58.0	.....	8	.....	.....	4	.....	.....	.....
	1910	12	58.0	.....	8	.....	.....	4	.....	.....	.....
4 plants	1910	17	56.5	3	8	.....	2	4	.....	.....	.....
	1911	17	56.8	3	8	.....	.....	6	.....	.....	.....
	1912	15	55.7	3	8	.....	.....	4	.....	.....	.....
Catchers, 10-inch:											
1 plant	1907	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
	1908	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
	1909	10	71.5	.....	.....	.....	.....	10	.....	.....	.....
	1910	10	71.5	.....	.....	.....	.....	10	.....	.....	.....
3 plants	1910	16	66.8	.....	4	.....	.....	10	2	.....	.....
	1911	16	65.9	.....	4	.....	.....	10	2	.....	.....
	1912	16	65.9	.....	4	.....	.....	10	2	.....	.....
Catchers, 12-inch:											
5 plants	1907	16	65.6	.....	.....	2	.....	10	4	.....	.....
	1908	17	64.1	.....	4	.....	.....	9	4	.....	.....
	1909	17	63.9	.....	4	.....	.....	13	.....	.....	.....
	1910	18	63.7	.....	4	.....	.....	14	.....	.....	.....
10 plants	1910	28	62.5	3	4	.....	2	17	2	.....	.....
	1911	27	62.1	3	5	1	.....	16	2	.....	.....
	1912	29	61.7	3	7	.....	.....	17	2	.....	.....
Catchers, 13-inch, 14-inch, and 15-inch:											
3 plants	1910	7	61.7	3	.....	.....	.....	.....	4	.....	.....
	1911	7	61.7	3	.....	.....	.....	.....	4	.....	.....
	1912	7	61.7	3	.....	.....	.....	.....	4	.....	.....
Catchers, 16-inch:											
4 plants	1907	10	64.5	.....	.....	.....	1	9	.....	.....	.....
	1908	9	65.0	.....	.....	.....	.....	9	.....	.....	.....
	1909	9	65.0	.....	.....	.....	.....	9	.....	.....	.....
	1910	12	64.6	.....	.....	.....	.....	12	.....	.....	.....
	1911	9	65.0	.....	.....	.....	.....	9	.....	.....	.....
	1912	9	64.5	.....	.....	.....	.....	9	.....	.....	.....
Catchers, 18-inch:											
2 plants	1907	3	61.0	.....	.....	1	.....	2	.....	.....	.....
	1908	4	58.3	.....	2	.....	.....	2	.....	.....	.....
	1909	4	58.3	.....	2	.....	.....	2	.....	.....	.....
	1910	4	58.3	.....	2	.....	.....	2	.....	.....	.....
5 plants	1910	9	58.6	.....	4	.....	2	3	.....	.....	.....
	1911	8	59.0	.....	3	1	.....	4	.....	.....	.....
	1912	9	58.0	.....	5	.....	.....	4	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Catchers, all sizes:											
11 plants	1907	69	62.5	.....	16	13	1	25	14	.....	.....
	1908	70	62.0	.....	22	10	.....	24	14	.....	.....
	1909	70	61.9	.....	22	10	.....	38	.....	.....	.....
	1910	73	62.0	.....	22	9	.....	42	.....	.....	.....
20 plants	1910	115	60.2	15	30	10	6	46	8	.....	.....
	1911	111	59.9	15	30	13	.....	45	8	.....	.....
	1912	110	59.7	15	32	11	.....	44	8	.....	.....
Stranders, 8-inch:											
7 plants	1907	56	62.6	.....	6	20	.....	22	8	.....	.....
	1908	56	62.8	.....	6	20	.....	22	8	.....	.....
	1909	56	62.7	.....	6	20	.....	30	.....	.....	.....
	1910	54	62.8	.....	6	18	.....	30	.....	.....	.....
11 plants	1910	75	61.6	6	8	19	.....	42	.....	.....	.....
	1911	73	60.4	6	12	25	.....	30	.....	.....	.....
	1912	73	60.4	6	14	21	.....	32	.....	.....	.....
Stranders, 9-inch:											
6 plants	1907	41	56.2	18	.....	.....	.....	23	.....	.....	.....
	1908	39	56.4	18	.....	.....	.....	19	2	.....	.....
	1909	39	56.3	18	.....	.....	.....	19	2	.....	.....
	1910	39	56.3	18	.....	.....	.....	19	2	.....	.....
10 plants	1910	64	59.1	18	3	.....	10	25	8	.....	.....
	1911	62	58.6	18	9	.....	.....	27	8	.....	.....
	1912	61	58.0	18	12	.....	.....	23	8	.....	.....
Stranders, 10-inch:											
5 plants	1907	43	55.1	21	.....	4	.....	8	10	.....	.....
	1908	43	55.1	21	.....	4	.....	8	10	.....	.....
	1909	43	55.0	21	.....	4	.....	18	.....	.....	.....
	1910	43	55.0	21	.....	4	.....	18	.....	.....	.....
7 plants	1910	57	57.7	21	4	.....	.....	26	6	.....	.....
	1911	57	56.7	21	8	.....	.....	22	6	.....	.....
	1912	57	56.7	21	8	.....	.....	22	6	.....	.....
Stranders, 12-inch:											
3 plants	1907	13	69.0	.....	.....	.....	.....	5	8	.....	.....
	1908	14	70.4	.....	.....	.....	.....	4	10	.....	.....
	1909	14	70.4	.....	.....	.....	.....	4	10	.....	.....
	1910	16	69.1	.....	.....	.....	.....	6	10	.....	.....
9 plants	1910	48	64.4	3	10	.....	2	13	20	.....	.....
	1911	40	65.3	3	7	1	.....	9	20	.....	.....
	1912	43	64.7	3	6	6	.....	8	20	.....	.....
Stranders and planishers, 13-inch, 14-inch, and 15-inch:											
1 plant	1907	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
	1908	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
	1909	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
	1910	26	60.0	.....	.....	.....	26	.....	.....	.....	.....
	1911	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
	1912	22	60.0	.....	.....	.....	22	.....	.....	.....	.....
Stranders, 16-inch:											
1 plant	1907	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
2 plants	1911	10	57.0	.....	8	.....	.....	2	.....	.....	.....
	1912	10	57.0	.....	8	.....	.....	2	.....	.....	.....
Stranders, all sizes:											
13 plants	1907	175	59.5	39	6	24	20	60	26	.....	.....
	1908	174	59.7	39	6	24	20	55	30	.....	.....
	1909	174	59.7	39	6	24	20	73	12	.....	.....
	1910	180	59.7	39	6	22	26	75	12	.....	.....
21 plants	1910	272	60.6	48	25	19	38	108	34	.....	.....
	1911	254	59.9	48	36	26	20	90	34	.....	.....
22 plants	1911	262	59.8	48	44	26	20	90	34	.....	.....
	1912	266	59.6	48	48	27	22	87	34	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Finishers, 8-inch:											
6 plants	1907	14	64.5	.....	1	3	2	5	3	.....	.....
	1908	14	64.8	.....	2	2	1	6	3	.....	.....
	1909	14	64.7	.....	2	2	1	9	.....	.....	.....
	1910	13	65.1	.....	2	1	.....	10	.....	.....	.....
9 plants	1910	24	60.6	6	2	2	.....	14	.....	.....	.....
	1911	25	59.6	6	3	5	1	10	.....	.....	.....
	1912	25	59.6	6	4	3	1	11	.....	.....	.....
Finishers, 9-inch:											
5 plants	1907	15	66.8	.....	.....	.....	2	11	2	.....	.....
	1908	14	67.9	.....	.....	.....	1	11	2	.....	.....
	1909	14	67.8	.....	.....	.....	1	12	1	.....	.....
	1910	14	67.8	.....	.....	.....	.....	13	1	.....	.....
9 plants	1910	24	64.3	3	1	.....	2	15	3	.....	.....
	1911	23	63.8	3	3	.....	1	13	3	.....	.....
	1912	24	63.4	3	4	.....	1	13	3	.....	.....
Finishers, 10-inch:											
4 plants	1907	10	68.0	.....	.....	2	.....	2	6	.....	.....
	1908	10	68.0	.....	.....	2	.....	2	6	.....	.....
	1909	10	67.7	.....	.....	2	.....	7	1	.....	.....
	1910	10	67.7	.....	.....	2	.....	8	.....	.....	.....
5 plants	1910	12	69.3	.....	.....	.....	.....	10	2	.....	.....
	1911	12	68.4	.....	1	.....	.....	8	3	.....	.....
	1912	12	68.4	.....	1	.....	.....	8	3	.....	.....
Finishers, 12-inch:											
4 plants	1907	12	69.3	.....	.....	.....	1	5	6	.....	.....
	1908	11	70.5	.....	.....	.....	.....	5	6	.....	.....
	1909	11	70.4	.....	.....	.....	.....	7	4	.....	.....
	1910	12	69.5	.....	.....	.....	1	9	2	.....	.....
8 plants	1910	20	65.8	3	.....	.....	1	12	4	.....	.....
	1911	19	65.2	3	1	1	.....	8	6	.....	.....
10 plants	1911	22	63.7	3	4	1	.....	8	6	.....	.....
	1912	24	63.0	3	5	2	1	7	6	.....	.....
Finishers, 13-inch, 14-inch, and 15-inch:											
1 plant	1907	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
	1908	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
	1909	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
	1910	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
4 plants	1910	15	64.0	3	.....	.....	4	.....	8	.....	.....
	1911	15	64.0	3	.....	.....	4	.....	8	.....	.....
	1912	15	64.0	3	.....	.....	4	.....	8	.....	.....
Finishers, 16-inch:											
2 plants	1907	8	62.8	.....	.....	2	.....	6	.....	.....	.....
	1908	8	62.8	.....	.....	2	.....	6	.....	.....	.....
	1909	8	62.8	.....	.....	2	.....	6	.....	.....	.....
	1910	9	62.2	.....	.....	3	.....	6	.....	.....	.....
3 plants	1910	11	62.5	.....	.....	3	1	7	.....	.....	.....
	1911	11	63.5	.....	.....	2	.....	9	.....	.....	.....
4 plants	1911	19	61.1	.....	4	2	.....	13	.....	.....	.....
	1912	20	61.1	.....	4	2	.....	14	.....	.....	.....
Finishers, 18-inch:											
1 plant	1907	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	62.8	.....	.....	.....	1	1	.....	.....	.....
	1909	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
3 plants	1910	5	61 9	.....	.....	.....	2	3	.....	.....	.....
	1911	5	60.7	.....	.....	1	2	2	.....	.....	.....
	1912	6	58.9	.....	2	.....	2	2	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—						
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Finishers, all sizes:											
10 plants	1907	65	65.9	.....	1	7	9	31	17	.....	.....
	1908	63	66.4	.....	2	6	7	31	17	.....	.....
	1909	63	66.2	.....	2	6	6	43	6	.....	.....
	1910	64	66.1	.....	2	6	5	48	3	.....	.....
17 plants	1910	111	64.0	15	3	5	10	61	17	.....	.....
	1911	110	63.4	15	8	9	8	50	20	.....	.....
19 plants	1911	121	62.8	15	15	9	8	54	20	.....	.....
	1912	126	62.5	15	20	7	9	55	20	.....	.....
Hook ups, 12-inch:											
6 plants	1907	49	64.8	9	.....	.....	.....	16	24	.....	.....
	1908	37	69.1	3	.....	.....	.....	6	28	.....	.....
	1909	37	68.9	3	.....	.....	.....	14	20	.....	.....
	1910	37	69.9	.....	.....	.....	.....	19	18	.....	.....
13 plants	1910	69	62.8	18	4	.....	2	23	22	.....	.....
	1911	53	63.4	12	4	2	.....	19	16	.....	.....
	1912	56	62.5	12	7	2	.....	20	15	.....	.....
Hook ups, 13-inch, 14-inch, and 15-inch:											
1 plant	1907	8	60.0	.....	.....	.....	8	.....	.....	.....	.....
	1908	14	60.0	.....	.....	.....	14	.....	.....	.....	.....
	1909	8	60.0	.....	.....	.....	8	.....	.....	.....	.....
	1910	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
5 plants	1910	50	64.2	9	.....	.....	12	8	21	.....	.....
	1911	45	64.2	9	.....	.....	9	7	20	.....	.....
	1912	51	63.8	9	.....	.....	14	8	20	.....	.....
Hook ups, 16-inch:											
5 plants	1907	26	63.9	.....	.....	2	.....	24	.....	.....	.....
	1908	23	64.4	.....	.....	2	.....	21	.....	.....	.....
	1909	27	64.7	.....	.....	2	.....	25	.....	.....	.....
	1910	35	64.1	.....	.....	2	.....	33	.....	.....	.....
	1911	25	64.4	.....	.....	2	.....	23	.....	.....	.....
6 plants	1911	35	62.4	.....	6	2	.....	27	.....	.....	.....
	1912	36	61.5	.....	8	2	.....	26	.....	.....	.....
Hook ups, 18-inch:											
2 plants	1907	9	62.2	.....	.....	1	.....	8	.....	.....	.....
	1908	10	61.0	.....	2	.....	.....	8	.....	.....	.....
	1909	10	61.0	.....	2	.....	.....	8	.....	.....	.....
	1910	9	60.8	.....	2	.....	.....	7	.....	.....	.....
5 plants	1910	20	60.4	.....	4	.....	6	10	.....	.....	.....
	1911	21	60.5	.....	4	3	.....	14	.....	.....	.....
	1912	24	59.2	.....	10	.....	.....	14	.....	.....	.....
Hook ups, all sizes:											
12 plants	1907	92	63.9	9	.....	3	8	48	24	.....	.....
	1908	84	65.3	3	2	2	14	35	28	.....	.....
	1909	82	65.7	3	2	2	8	47	20	.....	.....
	1910	93	65.6	.....	2	2	12	59	18	.....	.....
20 plants	1910	174	63.2	27	8	2	20	74	43	.....	.....
	1911	144	63.4	21	8	7	9	63	36	.....	.....
21 plants	1911	154	63.0	21	14	7	9	67	36	.....	.....
	1912	167	62.2	21	25	4	14	68	35	.....	.....
Roll hands, other, 8-inch:											
5 plants	1907	20	65.1	.....	2	2	1	11	4	.....	.....
	1908	20	65.3	.....	2	2	1	11	4	.....	.....
	1909	20	65.1	.....	2	2	1	15	.....	.....	.....
	1910	20	65.1	.....	1	4	1	14	.....	.....	.....
9 plants	1910	33	60.6	6	3	7	1	16	.....	.....	.....
	1911	33	60.0	6	3	9	1	14	.....	.....	.....
	1912	33	60.0	6	4	7	1	15	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

NUMBER—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Roll hands, other, 9-inch:											
3 plants	1907	18	59.7	6	.....	.....	.....	12	.....	.....	.....
	1908	18	60.4	6	.....	.....	.....	12	.....	.....	.....
	1909	18	60.3	6	.....	.....	.....	12	.....	.....	.....
	1910	18	60.3	6	.....	.....	.....	12	.....	.....	.....
6 plants	1910	35	56.5	18	.....	.....	2	15	.....	.....	.....
	1911	35	56.1	18	2	.....	.....	15	.....	.....	.....
	1912	36	56.3	18	2	.....	.....	16	.....	.....	.....
Roll hands, other, 10-inch:											
4 plants	1907	29	70.4	.....	.....	.....	2	5	22	.....	.....
	1908	29	70.4	.....	.....	.....	2	5	22	.....	.....
	1909	29	70.0	.....	.....	.....	2	27	.....	.....	.....
	1910	29	70.0	.....	.....	.....	1	28	.....	.....	.....
7 plants	1910	39	67.8	.....	4	.....	1	32	2	.....	.....
	1911	39	66.8	.....	6	.....	2	29	2	.....	.....
	1912	39	66.8	.....	6	.....	2	29	2	.....	.....
Roll hands, other, 12-inch:											
4 plants	1907	24	70.1	.....	.....	.....	.....	6	18	.....	.....
	1908	21	70.4	.....	.....	.....	.....	5	16	.....	.....
	1909	21	70.3	.....	.....	.....	.....	7	14	.....	.....
	1910	22	69.9	.....	.....	.....	.....	8	14	.....	.....
9 plants	1910	33	67.0	3	2	.....	.....	11	17	.....	.....
	1911	32	67.7	3	1	.....	.....	10	18	.....	.....
	1912	33	67.5	3	1	.....	.....	11	18	.....	.....
Roll hands, other, 13-inch, 14-inch, and 15-inch:											
3 plants	1910	29	62.1	12	.....	.....	.....	.....	17	.....	.....
	1911	28	61.7	12	.....	.....	.....	.....	16	.....	.....
	1912	25	63.4	9	.....	.....	.....	.....	16	.....	.....
Roll hands, other, 16-inch:											
2 plants	1907	4	64.5	.....	.....	.....	1	3	.....	.....	.....
	1908	4	64.5	.....	.....	.....	1	3	.....	.....	.....
	1909	4	64.5	.....	.....	.....	1	3	.....	.....	.....
	1910	4	64.5	.....	.....	.....	1	3	.....	.....	.....
	1911	4	64.5	.....	.....	.....	1	3	.....	.....	.....
	1912	3	64.5	.....	.....	.....	1	2	.....	.....	.....
Roll hands, other, 18-inch:											
1 plant	1907	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
4 plants	1910	7	59.9	.....	2	.....	2	3	.....	.....	.....
	1911	6	60.8	.....	1	1	.....	4	.....	.....	.....
	1912	7	59.2	.....	3	.....	.....	4	.....	.....	.....
Roll hands, other, all sizes:											
9 plants	1907	97	66.8	6	2	2	4	39	44	.....	.....
	1908	94	67.0	6	2	2	4	38	42	.....	.....
	1909	94	66.8	6	2	2	4	66	14	.....	.....
	1910	95	66.7	6	1	4	3	67	14	.....	.....
18 plants	1910	180	62.8	39	11	7	7	80	36	.....	.....
	1911	177	62.5	39	13	10	4	75	36	.....	.....
	1912	176	62.7	36	16	7	4	77	36	.....	.....
Hotbed men:											
15 plants	1907	302	63.3	12	8	54	42	130	56	.....	.....
	1908	299	63.2	12	12	52	57	104	62	.....	.....
	1909	286	63.3	12	12	52	42	154	14	.....	.....
	1910	302	63.3	15	12	45	47	163	20	.....	.....
25 plants	1910	500	62.9	57	32	48	71	216	59	17	.....
	1911	434	62.0	54	39	63	29	207	42	.....	.....
26 plants	1911	450	61.9	54	45	63	29	217	42	.....	.....
	1912	461	61.7	54	61	60	25	209	52	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were— 48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Shearmen:											
15 plants	1907	94	64.8	.....	6	8	15	48	17	.....	.....
	1908	92	65.1	.....	6	8	17	42	19	.....	.....
	1909	93	65.3	.....	6	8	17	55	3	4	.....
	1910	97	65.0	.....	6	7	18	60	6	.....	.....
25 plants	1910	156	63.3	15	18	7	22	72	16	6	.....
	1911	151	62.5	15	16	18	18	68	16	.....	.....
	1912	154	62.4	15	18	19	19	63	18	2	.....
Shearmen's helpers:											
15 plants	1907	201	65.9	.....	8	4	21	125	41	2	.....
	1908	172	66.2	.....	8	4	22	101	29	8	.....
	1909	185	67.3	.....	8	4	26	110	8	29	.....
	1910	215	65.3	.....	8	3	39	140	25	.....	.....
23 plants	1910	355	64.7	45	8	3	43	158	77	21	.....
	1911	359	63.8	48	8	20	37	181	65	.....	.....
	1912	358	63.9	48	12	20	35	166	65	12	.....
Bundlers:											
5 plants	1907	41	66.9	.....	.....	.....	.....	31	10	.....	.....
	1908	41	66.9	.....	.....	.....	.....	31	10	.....	.....
	1909	41	66.8	.....	.....	.....	.....	41	.....	.....	.....
	1910	41	67.1	.....	.....	.....	.....	41	.....	.....	.....
6 plants	1910	77	66.1	.....	.....	.....	.....	77	.....	.....	.....
	1911	81	63.5	.....	.....	36	.....	45	.....	.....	.....
7 plants	1911	131	62.0	.....	.....	86	.....	45	.....	.....	.....
	1912	132	62.0	.....	.....	86	.....	46	.....	.....	.....
Laborers:											
10 plants	1907	296	68.3	.....	.....	1	51	140	74	24	6
	1908	227	64.8	.....	.....	2	94	108	18	.....	5
	1909	324	67.8	.....	.....	2	76	137	88	13	8
	1910	424	67.2	.....	.....	9	119	113	176	.....	7
15 plants	1910	511	67.8	.....	.....	9	149	128	183	24	[1] 18
	1911	355	66.0	.....	31	3	70	175	70	4	2
17 plants	1911	390	65.5	.....	31	3	104	175	71	4	2
	1912	424	65.9	.....	18	41	69	204	84	5	3

PER CENT.

Stockers:											
8 plants	1907	93	64.4	.....	8.6	.....	8.6	69.9	8.6	4.3	.....
	1908	90	64.1	.....	11.1	.....	8.9	65.6	14.4	.....	.....
	1909	88	64.2	.....	9.1	.....	9.1	78.4	3.4	.....	.....
	1910	87	64.3	.....	9.2	.....	8.0	79.3	3.4	.....	.....
13 plants	1910	170	59.0	15.9	24.7	.....	4.1	50.6	4.7	.....	.....
	1911	164	59.6	16.5	17.1	7.9	12.2	42.7	3.7	.....	.....
15 plants	1911	211	60.9	12.8	13.3	6.2	20.9	34.1	12.8	.....	.....
	1912	217	60.9	12.4	14.7	1.8	27.2	30.9	12.9	.....	.....
Heaters:											
15 plants	1907	121	63.9	2.5	5.0	8.3	2.5	70.2	9.9	.....	1.7
	1908	112	63.9	2.7	12.5	5.4	1.8	60.7	15.2	.....	1.8
	1909	112	64.0	2.7	12.5	5.4	1.8	69.6	4.5	1.8	1.8
	1910	142	64.2	2.1	11.3	2.8	.....	72.5	7.0	2.8	1.4
25 plants	1910	217	62.9	8.3	11.5	1.8	7.4	58.1	10.1	1.8	.9
	1911	180	62.6	10.0	14.4	3.3	1.1	59.4	9.4	1.1	1.1
26 plants	1911	184	62.7	9.8	14.1	3.3	1.1	60.3	9.2	1.1	1.1
	1912	199	62.4	9.0	6.0	15.6	1.0	57.3	9.0	1.0	1.0

[1] Including 4 employees whose full-time hours per week were 84½ and 2 employees whose full-time hours per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Heaters' helpers:											
14 plants	1907	167	65.3	1.8	4.8	7.2	2.4	64.7	15.6	3.6	.....
	1908	153	65.1	2.0	10.5	5.2	2.6	56.2	20.9	2.6	.....
	1909	151	65.0	2.0	10.6	5.3	2.6	74.2	1.3	4.0	.....
	1910	166	65.2	1.8	9.6	4.8	2.4	74.7	1.8	2.4	2.4
24 plants	1910	295	62.6	16.3	7.8	2.7	7.8	52.2	10.5	1.4	1.4
	1911	281	62.5	17.1	9.3	4.3	2.5	53.4	10.7	2.8	.....
25 plants	1911	293	62.7	16.4	8.9	4.1	2.4	55.3	10.2	2.7	.....
	1912	319	62.2	14.1	9.1	13.8	1.9	50.5	9.4	1.3	.....
Chargers and helpers:											
12 plants	1907	104	65.5	.....	5.8	3.8	4.8	68.3	15.4	1.9	.....
	1908	102	65.6	.....	5.9	3.9	4.9	65.7	19.6	.....	.....
	1909	107	65.9	.....	5.6	3.7	3.7	74.8	7.5	4.7	.....
	1910	110	66.3	.....	5.5	3.6	3.6	78.2	9.1	.....	.....
18 plants	1910	179	65.3	6.7	5.6	2.2	6.7	59.2	19.6	.....	.....
	1911	177	65.1	6.8	6.2	5.6	2.8	59.9	18.6	.....	.....
19 plants	1911	185	64.8	6.5	8.1	5.4	2.7	59.5	17.8	.....	.....
	1912	182	65.0	4.9	9.3	3.3	3.3	61.0	18.1	.....	.....
Drag downs:											
11 plants	1907	86	64.4	.....	9.3	9.3	.....	60.5	18.6	2.3	.....
	1908	82	63.9	.....	19.5	4.9	.....	52.4	23.2	.....	.....
	1909	83	64.0	.....	19.3	4.8	.....	69.9	3.6	2.4	.....
	1910	89	64.0	.....	18.0	4.5	.....	69.7	3.4	4.5	.....
19 plants	1910	132	65.1	.....	15.2	3.0	3.0	56.8	18.9	3.0	.....
	1911	123	64.9	.....	18.7	4.1	.....	55.3	20.3	1.6	.....
20 plants	1911	127	64.7	.....	19.7	3.9	.....	55.1	19.7	1.6	.....
	1912	130	64.3	.....	20.8	4.6	.....	53.8	19.2	1.5	.....
Roll engineers:											
13 plants	1907	58	72.3	.....	.....	.....	.....	53.4	8.6	31.0	6.9
	1908	56	71.4	.....	.....	.....	.....	50.0	17.9	28.6	3.6
	1909	56	71.5	.....	.....	.....	.....	53.6	10.7	32.1	3.6
	1910	58	71.7	.....	.....	.....	.....	55.2	6.9	32.8	5.2
22 plants	1910	99	72.0	.....	.....	.....	3.0	40.4	26.3	23.2	7.1
	1911	95	70.4	.....	.....	.....	3.2	56.8	13.7	24.2	2.1
	1912	97	70.0	.....	4.1	.....	1.0	52.6	12.4	27.8	2.1
Rollers, 8-inch:											
7 plants	1907	16	62.5	.....	18.8	18.8	12.5	37.5	6.3	6.3	.....
	1908	16	62.6	.....	18.8	18.8	12.5	37.5	6.3	6.3	.....
	1909	16	62.5	.....	18.8	18.8	12.5	43.8	6.3	.....	.....
	1910	15	62.7	.....	26.7	6.7	13.3	53.3	.....	.....	.....
11 plants	1910	28	59.0	21.4	21.4	7.1	7.1	42.9	.....	.....	.....
	1911	29	58.0	20.7	24.1	13.8	6.9	31.0	3.4	.....	.....
	1912	29	58.0	20.7	24.1	13.8	6.9	31.0	3.4	.....	.....
Rollers, 9-inch:											
6 plants	1907	12	66.7	.....	.....	.....	25.0	58.3	16.7	.....	.....
	1908	11	67.7	.....	.....	.....	18.2	63.6	18.2	.....	.....
	1909	11	67.1	.....	.....	.....	18.2	72.7	9.1	.....	.....
	1910	12	67.0	.....	.....	.....	8.3	83.3	8.3	.....	.....
11 plants	1910	24	63.2	12.5	4.2	.....	20.8	50.0	12.5	.....	.....
	1911	22	63.5	13.6	4.5	.....	18.2	50.0	13.6	.....	.....
	1912	23	63.1	13.0	4.3	.....	21.7	47.8	13.0	.....	.....
Rollers, 10-inch:											
5 plants	1907	12	67.3	.....	.....	16.7	16.7	33.3	16.7	16.7	.....
	1908	12	67.3	.....	.....	16.7	16.7	33.3	16.7	16.7	.....
	1909	12	67.0	.....	.....	16.7	16.7	41.7	25.0	.....	.....
	1910	12	67.0	.....	.....	16.7	16.7	58.3	8.3	.....	.....
7 plants	1910	18	65.0	.....	22.2	.....	11.1	50.0	16.7	.....	.....
	1911	18	63.6	.....	27.8	.....	11.1	33.3	27.8	.....	.....
	1912	18	63.6	.....	27.8	.....	11.1	33.3	27.8	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Rollers, 12-inch:											
7 plants	1907	15	68.1	.....	.....	.....	13.3	40.0	46.7	.....	.....
	1908	13	69.9	.....	.....	.....	.....	46.2	53.8	.....	.....
	1909	13	69.8	.....	.....	.....	.....	61.5	38.5	.....	.....
	1910	15	68.5	.....	.....	.....	6.7	60.0	33.3	.....	.....
13 plants	1910	27	64.4	11.1	7.4	.....	11.1	44.4	25.9	.....	.....
	1911	24	64.9	12.5	4.2	4.2	.....	50.0	29.2	.....	.....
	1912	26	64.3	11.5	7.7	3.8	3.8	46.2	26.9	.....	.....
Rollers, 13-inch, 14-inch, and 15-inch:											
3 plants	1910	7	60.6	42.9	.....	.....	.....	28.6	28.6	.....	.....
	1911	7	60.6	42.9	.....	.....	.....	28.6	28.6	.....	.....
	1912	7	60.6	42.9	.....	.....	.....	28.6	28.6	.....	.....
Rollers, 16-inch:											
4 plants	1907	7	63.3	.....	.....	28.6	14.3	57.1	.....	.....	.....
	1908	7	63.3	.....	.....	28.6	14.3	57.1	.....	.....	.....
	1909	7	63.3	.....	.....	28.6	14.3	57.1	.....	.....	.....
	1910	9	62.3	.....	.....	33.3	11.1	55.6	.....	.....	.....
5 plants	1910	11	62.6	.....	.....	27.3	18.2	54.5	.....	.....	.....
	1911	8	63.9	.....	.....	25.0	12.5	62.5	.....	.....	.....
6 plants	1911	12	62.8	.....	16.7	16.7	8.3	58.3	.....	.....	.....
	1912	12	62.4	.....	16.7	16.7	16.7	50.0	.....	.....	.....
Rollers, 18-inch:											
2 plants	1907	3	61.0	.....	.....	33.3	33.3	33.3	.....	.....	.....
	1908	4	58.3	.....	50.0	.....	25.0	25.0	.....	.....	.....
	1909	4	58.3	.....	50.0	.....	25.0	25.0	.....	.....	.....
	1910	4	58.3	.....	50.0	.....	.....	50.0	.....	.....	.....
5 plants	1910	9	60.8	.....	22.2	.....	22.2	55.6	.....	.....	.....
	1911	8	60.3	.....	25.0	12.5	12.5	50.0	.....	.....	.....
	1912	9	59.1	.....	44.4	.....	11.1	44.4	.....	.....	.....
Rollers, all sizes:											
13 plants	1907	65	65.5	.....	4.6	12.3	16.9	43.1	18.5	4.6	.....
	1908	63	65.7	.....	7.9	11.1	12.7	44.4	19.0	4.8	.....
	1909	63	65.5	.....	7.9	11.1	12.7	52.4	15.9	.....	.....
	1910	67	65.2	.....	9.0	9.0	10.4	61.2	10.4	.....	.....
22 plants	1910	124	62.4	12.1	12.1	4.0	12.9	46.8	12.1	.....	.....
	1911	116	62.0	12.9	13.8	6.9	8.6	42.2	15.5	.....	.....
23 plants	1911	120	62.0	12.5	15.0	6.7	8.3	42.5	15.0	.....	.....
	1912	124	61.7	12.1	16.9	5.6	10.5	40.3	14.5	.....	.....
Roughers, 8-inch:											
7 plants	1907	44	61.2	.....	34.1	18.2	.....	34.1	13.6	.....	.....
	1908	44	61.2	.....	34.1	18.2	.....	34.1	13.6	.....	.....
	1909	44	61.0	.....	34.1	18.2	.....	47.7	.....	.....	.....
	1910	41	61.2	.....	36.6	12.2	.....	51.2	.....	.....	.....
11 plants	1910	84	57.5	28.6	22.6	9.5	.....	39.3	.....	.....	.....
	1911	81	56.0	29.6	30.9	13.6	.....	25.9	.....	.....	.....
	1912	79	56.0	30.4	29.1	13.9	.....	26.6	.....	.....	.....
Roughers, 9-inch:											
7 plants	1907	58	56.3	37.9	13.8	.....	.....	48.3	.....	.....	.....
	1908	54	60.4	22.2	14.8	.....	.....	55.6	7.4	.....	.....
	1909	54	56.5	38.9	14.8	.....	.....	38.9	7.4	.....	.....
	1910	58	56.9	37.9	13.8	.....	.....	41.4	6.9	.....	.....
12 plants	1910	88	58.2	31.8	11.4	.....	11.4	34.1	11.4	.....	.....
	1911	83	57.4	32.5	20.5	.....	.....	36.1	10.8	.....	.....
	1912	84	57.2	32.1	23.8	.....	.....	33.3	10.7	.....	.....
Roughers, 10-inch:											
5 plants	1907	33	64.4	9.1	.....	24.2	.....	24.2	42.4	.....	.....
	1908	37	65.2	8.1	.....	21.6	.....	21.6	48.6	.....	.....
	1909	37	65.0	8.1	.....	21.6	.....	70.3	.....	.....	.....
	1910	38	64.8	7.9	.....	23.7	.....	68.4	.....	.....	.....
7 plants	1910	51	64.8	5.9	15.7	.....	.....	66.7	11.8	.....	.....
	1911	51	63.3	5.9	23.5	.....	.....	58.8	11.8	.....	.....
	1912	51	63.3	5.9	23.5	.....	.....	58.8	11.8	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Roughers, 12-inch:											
8 plants	1907	62	64.5	14.5	.....	4.8	.....	41.9	38.7	.....	.....
	1908	55	64.1	16.4	10.9	.....	.....	25.5	47.3	.....	.....
	1909	54	67.7	.....	11.1	.....	.....	70.4	18.5	.....	.....
	1910	58	67.5	.....	10.3	.....	.....	69.0	20.7	.....	.....
14 plants	1910	89	64.6	6.7	18.0	.....	4.5	50.6	20.2	.....	.....
	1911	81	65.3	7.4	12.3	3.7	.....	55.6	21.0	.....	.....
	1912	85	64.4	7.1	18.8	.....	.....	55.3	18.8	.....	.....
Roughers, 13-inch, 14-inch, and 15-inch:											
1 plant	1907	12	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1908	12	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1909	12	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1910	12	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
5 plants	1910	48	61.5	25.0	.....	.....	25.0	37.5	12.5	.....	.....
	1911	46	61.2	26.1	.....	.....	26.1	34.8	13.0	.....	.....
	1912	47	61.4	25.5	.....	.....	25.5	36.2	12.8	.....	.....
Roughers, 16-inch:											
5 plants	1907	36	63.0	.....	.....	22.2	.....	77.8	.....	.....	.....
	1908	32	63.1	.....	.....	25.0	.....	75.0	.....	.....	.....
	1909	34	63.4	.....	.....	23.5	.....	76.5	.....	.....	.....
	1910	42	62.2	.....	.....	33.3	.....	66.7	.....	.....	.....
	1911	34	63.4	.....	.....	23.5	.....	76.5	.....	.....	.....
6 plants	1911	42	62.3	.....	9.5	19.0	.....	71.4	.....	.....	.....
	1912	40	61.8	.....	10.0	20.0	.....	70.0	.....	.....	.....
Roughers, 18-inch:											
2 plants	1907	7	62.0	.....	.....	14.3	.....	85.7	.....	.....	.....
	1908	8	60.5	.....	25.0	.....	.....	75.0	.....	.....	.....
	1909	8	60.5	.....	25.0	.....	.....	75.0	.....	.....	.....
	1910	8	60.5	.....	25.0	.....	.....	75.0	.....	.....	.....
5 plants	1910	23	59.4	.....	34.8	.....	26.1	39.1	.....	.....	.....
	1911	19	60.3	.....	21.1	15.8	.....	63.2	.....	.....	.....
	1912	22	58.9	.....	45.5	.....	.....	54.5	.....	.....	.....
Roughers, all sizes:											
15 plants	1907	252	61.5	13.5	9.1	11.1	4.8	44.0	17.5	.....	.....
	1908	242	62.5	9.9	12.8	9.9	5.0	40.1	22.3	.....	.....
	1909	243	62.4	9.9	12.8	9.9	4.9	56.8	5.8	.....	.....
	1910	257	62.3	9.7	12.1	10.9	4.7	56.4	6.2	.....	.....
25 plants	1910	425	61.0	17.2	14.4	5.2	7.5	46.4	9.4	.....	.....
	1911	395	60.6	18.2	17.2	6.3	3.0	45.6	9.6	.....	.....
26 plants	1911	403	60.5	17.9	17.9	6.2	3.0	45.7	9.4	.....	.....
	1912	408	60.2	17.6	20.8	4.7	2.9	44.9	9.1	.....	.....
Catchers, 8-inch:											
3 plants	1907	18	56.6	.....	44.4	55.6	.....	.....	.....	.....	.....
	1908	18	56.6	.....	44.4	55.6	.....	.....	.....	.....	.....
	1909	18	56.6	.....	44.4	55.6	.....	.....	.....	.....	.....
	1910	17	56.4	.....	47.1	52.9	.....	.....	.....	.....	.....
6 plants	1910	26	54.3	23.1	38.5	38.5	.....	.....	.....	.....	.....
	1911	27	54.1	22.2	37.0	40.7	.....	.....	.....	.....	.....
	1912	25	54.1	24.0	32.0	44.0	.....	.....	.....	.....	.....
Catchers, 9-inch:											
2 plants	1907	12	58.0	.....	66.7	.....	.....	33.3	.....	.....	.....
	1908	12	58.0	.....	66.7	.....	.....	33.3	.....	.....	.....
	1909	12	58.0	.....	66.7	.....	.....	33.3	.....	.....	.....
	1910	12	58.0	.....	66.7	.....	.....	33.3	.....	.....	.....
4 plants	1910	17	56.5	17.6	47.1	.....	11.8	23.5	.....	.....	.....
	1911	17	56.8	17.6	47.1	.....	.....	35.3	.....	.....	.....
	1912	15	55.7	20.0	53.3	.....	.....	26.7	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Catchers, 10-inch:											
1 plant	1907	10	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1908	10	72.0	.....	.....	.....	.....	.....	100.0	.....	.....
	1909	10	71.5	.....	.....	.....	.....	100.0	.....	.....	.....
	1910	10	71.5	.....	.....	.....	.....	100.0	.....	.....	.....
3 plants	1910	16	66.8	.....	25.0	.....	.....	62.5	12.5	.....	.....
	1911	16	65.9	.....	25.0	.....	.....	62.5	12.5	.....	.....
	1912	16	65.9	.....	25.0	.....	.....	62.5	12.5	.....	.....
Catchers, 12-inch:											
5 plants	1907	16	65.6	.....	.....	12.5	.....	62.5	25.0	.....	.....
	1908	17	64.1	.....	23.5	.....	.....	52.9	23.5	.....	.....
	1909	17	63.9	.....	23.5	.....	.....	76.5	.....	.....	.....
	1910	18	63.7	.....	22.2	.....	.....	77.8	.....	.....	.....
10 plants	1910	28	62.5	10.7	14.3	.....	7.1	60.7	7.1	.....	.....
	1911	27	62.1	11.1	18.5	3.7	.....	59.3	7.4	.....	.....
	1912	29	61.7	10.3	24.1	.....	.....	58.6	6.9	.....	.....
Catchers, 13-inch, 14-inch, and 15-inch:											
3 plants	1910	7	61.7	42.9	.....	.....	.....	.....	57.1	.....	.....
	1911	7	61.7	42.9	.....	.....	.....	.....	57.1	.....	.....
	1912	7	61.7	42.9	.....	.....	.....	.....	57.1	.....	.....
Catchers, 16-inch:											
4 plants	1907	10	64.5	.....	.....	.....	10.0	90.0	.....	.....	.....
	1908	9	65.0	.....	.....	.....	.....	100.0	.....	.....	.....
	1909	9	65.0	.....	.....	.....	.....	100.0	.....	.....	.....
	1910	12	64.6	.....	.....	.....	.....	100.0	.....	.....	.....
	1911	9	65.0	.....	.....	.....	.....	100.0	.....	.....	.....
	1912	9	64.5	.....	.....	.....	.....	100.0	.....	.....	.....
Catchers, 18-inch:											
2 plants	1907	3	61.0	.....	.....	33.3	.....	66.7	.....	.....	.....
	1908	4	58.3	.....	50.0	.....	.....	50.0	.....	.....	.....
	1909	4	58.3	.....	50.0	.....	.....	50.0	.....	.....	.....
	1910	4	58.3	.....	50.0	.....	.....	50.0	.....	.....	.....
5 plants	1910	9	58.6	.....	44.4	.....	22.2	33.3	.....	.....	.....
	1911	8	59.0	.....	37.5	12.5	.....	50.0	.....	.....	.....
	1912	9	58.0	.....	55.6	.....	.....	44.4	.....	.....	.....
Catchers, all sizes:											
11 plants	1907	69	62.5	.....	23.2	18.8	1.4	36.2	20.3	.....	.....
	1908	70	62.0	.....	31.4	14.3	.....	34.3	20.0	.....	.....
	1909	70	61.9	.....	31.4	14.3	.....	54.3	.....	.....	.....
	1910	73	62.0	.....	30.1	12.3	.....	57.5	.....	.....	.....
20 plants	1910	115	60.2	13.0	26.1	8.7	5.2	40.0	7.0	.....	.....
	1911	111	59.9	13.5	27.0	11.7	.....	40.5	7.2	.....	.....
	1912	110	59.7	13.6	29.1	10.0	.....	40.0	7.3	.....	.....
Stranders, 8-inch:											
7 plants	1907	56	62.6	.....	10.7	35.7	.....	39.3	14.3	.....	.....
	1908	56	62.3	.....	10.7	35.7	.....	39.3	14.3	.....	.....
	1909	56	62.7	.....	10.7	35.7	.....	53.6	.....	.....	.....
	1910	54	62.8	.....	11.1	33.3	.....	55.6	.....	.....	.....
11 plants	1910	75	61.6	8.0	10.7	25.3	.....	56.0	.....	.....	.....
	1911	73	60.4	8.2	16.4	34.2	.....	41.1	.....	.....	.....
	1912	73	60.4	8.2	19.2	28.8	.....	43.8	.....	.....	.....
Stranders, 9-inch:											
6 plants	1907	41	56.2	43.9	.....	.....	.....	56.1	.....	.....	.....
	1908	39	56.4	46.2	.....	.....	.....	48.7	5.1	.....	.....
	1909	39	56.3	46.2	.....	.....	.....	48.7	5.1	.....	.....
	1910	39	56.3	46.2	.....	.....	.....	48.7	5.1	.....	.....
10 plants	1910	64	59.1	28.1	4.7	.....	15.6	39.1	12.5	.....	.....
	1911	62	58.6	29.0	14.5	.....	.....	43.5	12.9	.....	.....
	1912	61	58.0	29.5	19.7	.....	.....	37.7	13.1	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Stranders, 10-inch:											
5 plants	1907	43	55.1	48.8	.....	9.3	.....	18.6	23.3	.....	.....
	1908	43	55.1	48.8	.....	9.3	.....	18.6	23.3	.....	.....
	1909	43	55.0	48.8	.....	9.3	.....	41.9	.....	.....	.....
	1910	43	55.0	48.8	.....	9.3	.....	41.9	.....	.....	.....
7 plants	1910	57	57.7	36.8	7.0	.....	.....	45.6	10.5	.....	.....
	1911	57	56.7	36.8	14.0	.....	.....	38.6	10.5	.....	.....
	1912	57	56.7	36.8	14.0	.....	.....	38.6	10.5	.....	.....
Stranders, 12-inch:											
3 plants	1907	13	69.0	.....	.....	.....	.....	38.5	61.5	.....	.....
	1908	14	70.4	.....	.....	.....	.....	28.6	71.4	.....	.....
	1909	14	70.4	.....	.....	.....	.....	28.6	71.4	.....	.....
	1910	16	69.1	.....	.....	.....	.....	37.5	62.5	.....	.....
9 plants	1910	48	64.4	6.3	20.8	.....	4.2	27.1	41.7	.....	.....
	1911	40	65.3	7.5	17.5	2.5	.....	22.5	50.0	.....	.....
	1912	43	64.7	7.0	14.0	14.0	.....	18.6	46.5	.....	.....
Stranders, 13-inch, 14-inch, and 15-inch:											
1 plant	1907	20	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1908	20	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1909	20	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1910	26	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1911	20	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1912	22	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
Stranders, 16-inch:											
1 plant	1907	2	65.0	.....	.....	.....	.....	100.0	.....	.....	.....
	1908	2	65.0	.....	.....	.....	.....	100.0	.....	.....	.....
	1909	2	65.0	.....	.....	.....	.....	100.0	.....	.....	.....
	1910	2	65.0	.....	.....	.....	.....	100.0	.....	.....	.....
	1911	2	65.0	.....	.....	.....	.....	100.0	.....	.....	.....
2 plants	1911	10	57.0	.....	80.0	.....	.....	20.0	.....	.....	.....
	1912	10	57.0	.....	80.0	.....	.....	20.0	.....	.....	.....
Stranders, all sizes:											
13 plants	1907	175	59.5	22.3	3.4	13.7	11.4	34.3	14.9	.....	.....
	1908	174	59.7	22.4	3.4	13.8	11.5	31.6	17.2	.....	.....
	1909	174	59.7	22.4	3.4	13.8	11.5	42.0	6.9	.....	.....
	1910	180	59.7	21.7	3.3	12.2	14.4	41.7	6.7	.....	.....
21 plants	1910	272	60.6	17.6	9.2	7.0	14.0	39.7	12.5	.....	.....
	1911	254	59.9	18.9	14.2	10.2	7.9	35.4	13.4	.....	.....
22 plants	1911	262	59.8	18.3	16.8	9.9	7.6	34.4	13.0	.....	.....
	1912	266	59.6	18.0	18.0	10.2	8.3	32.7	12.8	.....	.....
Finishers, 8-inch:											
6 plants	1907	14	64.5	.....	7.1	21.4	14.3	35.7	21.4	.....	.....
	1908	14	64.8	.....	14.3	14.3	7.1	42.9	21.4	.....	.....
	1909	14	64.7	.....	14.3	14.3	7.1	64.3	.....	.....	.....
	1910	13	65.1	.....	15.4	7.7	.....	76.9	.....	.....	.....
9 plants	1910	24	60.6	25.0	8.3	8.3	.....	58.3	.....	.....	.....
	1911	25	59.6	24.0	12.0	20.0	4.0	40.0	.....	.....	.....
	1912	25	59.6	24.0	16.0	12.0	4.0	44.0	.....	.....	.....
Finishers, 9-inch:											
5 plants	1907	15	66.8	.....	.....	.....	13.3	73.3	13.3	.....	.....
	1908	14	67.9	.....	.....	.....	7.1	78.6	14.3	.....	.....
	1909	14	67.8	.....	.....	.....	7.1	85.7	7.1	.....	.....
	1910	14	67.8	.....	.....	.....	.....	92.9	7.1	.....	.....
9 plants	1910	24	64.3	12.5	4.2	.....	8.3	62.5	12.5	.....	.....
	1911	23	63.8	13.0	13.0	.....	4.3	56.5	13.0	.....	.....
	1912	24	63.4	12.5	16.7	.....	4.2	54.2	12.5	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were— 48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Finishers, 10-inch:											
4 plants	1907	10	68.0	.....	.....	20.0	.....	20.0	60.0	.....	.....
	1908	10	68.0	.....	.....	20.0	.....	20.0	60.0	.....	.....
	1909	10	67.7	.....	.....	20.0	.....	70.0	10.0	.....	.....
	1910	10	67.7	.....	.....	20.0	.....	80.0	.....	.....	.....
5 plants	1910	12	69.3	.....	.....	.....	.....	83.3	16.7	.....	.....
	1911	12	68.4	.....	8.3	.....	.....	66.7	25.0	.....	.....
	1912	12	68.4	.....	8.3	.....	.....	66.7	25.0	.....	.....
Finishers, 12-inch:											
4 plants	1907	12	69.3	.....	.....	.....	8.3	41.7	50.0	.....	.....
	1908	11	70.5	.....	.....	.....	.....	45.5	54.5	.....	.....
	1909	11	70.4	.....	.....	.....	.....	63.6	36.4	.....	.....
	1910	12	69.5	.....	.....	.....	8.3	75.0	16.7	.....	.....
8 plants	1910	20	65.8	15.0	.....	.....	5.0	60.0	20.0	.....	.....
	1911	19	65.2	15.8	5.3	5.3	.....	42.1	31.6	.....	.....
10 plants	1911	22	63.7	13.6	18.2	4.5	.....	36.4	27.3	.....	.....
	1912	24	63.0	12.5	20.8	8.3	4.2	29.2	25.0	.....	.....
Finishers, 13-inch, 14-inch, and 15-inch:											
1 plant	1907	4	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1908	4	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1909	4	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1910	4	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
4 plants	1910	15	64.0	20.0	.....	.....	26.7	.....	53.3	.....	.....
	1911	15	64.0	20.0	.....	.....	26.7	.....	53.3	.....	.....
	1912	15	64.0	20.0	.....	.....	26.7	.....	53.3	.....	.....
Finishers, 16-inch:											
2 plants	1907	8	62.8	.....	.....	25.0	.....	75.0	.....	.....	.....
	1908	8	62.8	.....	.....	25.0	.....	75.0	.....	.....	.....
	1909	8	62.8	.....	.....	25.0	.....	75.0	.....	.....	.....
	1910	9	62.2	.....	.....	33.3	.....	66.7	.....	.....	.....
3 plants	1910	11	62.5	.....	.....	27.3	9.1	63.6	.....	.....	.....
	1911	11	63.5	.....	.....	18.2	.....	81.8	.....	.....	.....
4 plants	1911	19	61.1	.....	21.1	10.5	.....	68.4	.....	.....	.....
	1912	20	61.1	.....	20.0	10.0	.....	70.0	.....	.....	.....
Finishers, 18-inch:											
1 plant	1907	2	62.8	.....	.....	.....	.....	100.0	.....	.....	.....
	1908	2	62.8	.....	.....	.....	50.0	50.0	.....	.....	.....
	1909	2	62.8	.....	.....	.....	.....	100.0	.....	.....	.....
	1910	2	62.8	.....	.....	.....	.....	100.0	.....	.....	.....
3 plants	1910	5	61.9	.....	.....	.....	40.0	60.0	.....	.....	.....
	1911	5	60.7	.....	.....	20.0	40.0	40.0	.....	.....	.....
	1912	6	58.9	.....	33.3	.....	33.3	33.3	.....	.....	.....
Finishers, all sizes:											
10 plants	1907	65	65.9	.....	1.5	10.8	13.8	47.7	26.2	.....	.....
	1908	63	66.4	.....	3.2	9.5	11.1	49.2	27.0	.....	.....
	1909	63	66.2	.....	3.2	9.5	9.5	68.3	9.5	.....	.....
	1910	64	66.1	.....	3.1	9.4	7.8	75.0	4.7	.....	.....
17 plants	1910	111	64.0	13.5	2.7	4.5	9.0	55.0	15.3	.....	.....
	1911	110	63.4	13.6	7.3	8.2	7.3	45.5	18.2	.....	.....
19 plants	1911	121	62.8	12.4	12.4	7.4	6.6	44.6	16.5	.....	.....
	1912	126	62.5	11.9	15.9	5.6	7.1	43.7	15.9	.....	.....
Hook ups, 12-inch:											
6 plants	1907	49	64.8	18.4	.....	.....	.....	32.7	49.0	.....	.....
	1908	37	69.1	8.1	.....	.....	.....	16.2	75.7	.....	.....
	1909	37	68.9	8.1	.....	.....	.....	37.8	54.1	.....	.....
	1910	37	69.9	.....	.....	.....	.....	51.4	48.6	.....	.....
13 plants	1910	69	62.8	26.1	5.8	.....	2.9	33.3	31.9	.....	.....
	1911	53	63.4	22.6	7.5	3.8	.....	35.8	30.2	.....	.....
	1912	56	62.5	21.4	12.5	3.6	.....	35.7	26.8	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS 1907 TO 1912—Con.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Hook ups, 13-inch, 14-inch, and 15-inch:											
1 plant	1907	8	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1908	14	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1909	8	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
	1910	12	60.0	.....	.....	.....	100.0	.....	.....	.....	.....
5 plants	1910	50	64.2	18.0	.....	.....	24.0	16.0	42.0	.....	.....
	1911	45	64.2	20.0	.....	.....	20.0	15.6	44.4	.....	.....
	1912	51	63.8	17.6	.....	.....	27.5	15.7	39.2	.....	.....
Hook ups, 16-inch:											
5 plants	1907	26	63.9	.....	.....	7.7	.....	92.3	.....	.....	.....
	1908	23	64.4	.....	.....	8.7	.....	91.3	.....	.....	.....
	1909	27	64.7	.....	.....	7.4	.....	92.6	.....	.....	.....
	1910	35	64.1	.....	.....	5.7	.....	94.3	.....	.....	.....
	1911	25	64.4	.....	.....	8.0	.....	92.0	.....	.....	.....
6 plants	1911	35	62.4	.....	17.1	5.7	.....	77.1	.....	.....	.....
	1912	36	61.5	.....	22.2	5.6	.....	72.2	.....	.....	.....
Hook ups, 18-inch:											
2 plants	1907	9	62.2	.....	.....	11.1	.....	88.9	.....	.....	.....
	1908	10	61.0	.....	20.0	.....	.....	80.0	.....	.....	.....
	1909	10	61.0	.....	20.0	.....	.....	80.0	.....	.....	.....
	1910	9	60.8	.....	22.2	.....	.....	77.8	.....	.....	.....
5 plants	1910	20	60.4	.....	20.0	.....	30.0	50.0	.....	.....	.....
	1911	21	60.5	.....	19.0	14.3	.....	66.7	.....	.....	.....
	1912	24	59.2	.....	41.7	.....	.....	58.3	.....	.....	.....
Hook ups, all sizes:											
12 plants	1907	92	63.9	9.8	.....	3.3	8.7	52.2	26.1	.....	.....
	1908	84	65.3	3.6	2.4	2.4	16.7	41.7	33.3	.....	.....
	1909	82	65.7	3.7	2.4	2.4	9.8	57.3	24.4	.....	.....
	1910	93	65.6	.....	2.2	2.2	12.9	63.4	19.4	.....	.....
20 plants	1910	174	63.2	15.5	4.6	1.1	11.5	42.5	24.7	.....	.....
	1911	144	63.4	14.6	5.6	4.9	6.3	43.8	25.0	.....	.....
21 plants	1911	154	63.0	13.6	9.1	4.5	5.8	43.5	23.4	.....	.....
	1912	167	62.2	12.6	15.0	2.4	8.4	40.7	21.0	.....	.....
Roll hands, other, 8-inch:											
5 plants	1907	20	65.1	.....	10.0	10.0	5.0	55.0	20.0	.....	.....
	1908	20	65.3	.....	10.0	10.0	5.0	55.0	20.0	.....	.....
	1909	20	65.1	.....	10.0	10.0	5.0	75.0	.....	.....	.....
	1910	20	65.1	.....	5.0	20.0	5.0	70.0	.....	.....	.....
9 plants	1910	33	60.6	18.2	9.1	21.2	3.0	48.5	.....	.....	.....
	1911	33	60.0	18.2	9.1	27.3	3.0	42.4	.....	.....	.....
	1912	33	60.0	18.2	12.1	21.2	3.0	45.5	.....	.....	.....
Roll hands, other, 9-inch:											
3 plants	1907	18	59.7	33.3	.....	.....	.....	66.7	.....	.....	.....
	1908	18	60.4	33.3	.....	.....	.....	66.7	.....	.....	.....
	1909	18	60.3	33.3	.....	.....	.....	66.7	.....	.....	.....
	1910	18	60.3	33.3	.....	.....	.....	66.7	.....	.....	.....
6 plants	1910	35	56.5	51.4	.....	.....	5.7	42.9	.....	.....	.....
	1911	35	56.1	51.4	5.7	.....	.....	42.9	.....	.....	.....
	1912	36	56.3	50.0	5.6	.....	.....	44.4	.....	.....	.....
Roll hands, other, 10-inch:											
4 plants	1907	29	70.4	.....	.....	.....	6.9	17.2	75.9	.....	.....
	1908	29	70.4	.....	.....	.....	6.9	17.2	75.9	.....	.....
	1909	29	70.0	.....	.....	.....	6.9	93.1	.....	.....	.....
	1910	29	70.0	.....	.....	.....	3.4	96.6	.....	.....	.....
7 plants	1910	39	67.8	.....	10.3	.....	2.6	82.1	5.1	.....	.....
	1911	39	66.8	.....	15.4	.....	5.1	74.4	5.1	.....	.....
	1912	39	66.8	.....	15.4	.....	5.1	74.4	5.1	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were— 48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Roll hands, other, 12-inch:											
4 plants	1907	24	70.1	.....	.....	.....	.....	25.0	75.0	.....	.....
	1908	21	70.4	.....	.....	.....	.....	23.8	76.2	.....	.....
	1909	21	70.3	.....	.....	.....	.....	33.3	66.7	.....	.....
	1910	22	69.9	.....	.....	.....	.....	36.4	63.6	.....	.....
9 plants	1910	33	67.0	9.1	6.1	.....	.....	33.3	51.5	.....	.....
	1911	32	67.7	9.4	3.1	.....	.....	31.3	56.3	.....	.....
	1912	33	67.5	9.1	3.0	.....	.....	33.3	54.5	.....	.....
Roll hands, other, 13-inch, 14-inch, and 15-inch:											
3 plants	1910	29	62.1	41.4	.....	.....	.....	.....	58.6	.....	.....
	1911	28	61.7	42.9	.....	.....	.....	.....	57.1	.....	.....
	1912	25	63.4	36.0	.....	.....	.....	.....	64.0	.....	.....
Roll hands, other, 16-inch:											
2 plants	1907	4	64.5	.....	.....	.....	25.0	75.0	.....	.....	.....
	1908	4	64.5	.....	.....	.....	25.0	75.0	.....	.....	.....
	1909	4	64.5	.....	.....	.....	25.0	75.0	.....	.....	.....
	1910	4	64.5	.....	.....	.....	25.0	75.0	.....	.....	.....
	1911	4	64.5	.....	.....	.....	25.0	75.0	.....	.....	.....
	1912	3	64.5	.....	.....	.....	33.3	66.7	.....	.....	.....
Roll hands, other, 18-inch:											
1 plant	1907	2	62.8	.....	.....	.....	.....	100.0	.....	.....	.....
	1908	2	62.8	.....	.....	.....	.....	100.0	.....	.....	.....
	1909	2	62.8	.....	.....	.....	.....	100.0	.....	.....	.....
	1910	2	62.8	.....	.....	.....	.....	100.0	.....	.....	.....
4 plants	1910	7	59.9	.....	28.6	.....	28.6	42.9	.....	.....	.....
	1911	6	60.8	.....	16.7	16.7	.....	66.7	.....	.....	.....
	1912	7	59.2	.....	42.9	.....	.....	57.1	.....	.....	.....
Roll hands, other, all sizes:											
9 plants	1907	97	66.8	6.2	2.1	2.1	4.1	40.2	45.4	.....	.....
	1908	94	67.0	6.4	2.1	2.1	4.3	40.4	44.7	.....	.....
	1909	94	66.8	6.4	2.1	2.1	4.3	70.2	14.9	.....	.....
	1910	95	66.7	6.3	1.1	4.2	3.2	70.5	14.7	.....	.....
18 plants	1910	180	62.8	21.7	6.1	3.9	3.9	44.4	20.0	.....	.....
	1911	177	62.5	22.0	7.3	5.6	2.3	42.4	20.3	.....	.....
	1912	176	62.7	20.5	9.1	4.0	2.3	43.8	20.5	.....	.....
Hotbed men:											
15 plants	1907	302	63.3	4.0	2.6	17.9	13.9	43.0	18.5	.....	.....
	1908	299	63.2	4.0	4.0	17.4	19.1	34.8	20.7	.....	.....
	1909	286	63.3	4.2	4.2	18.2	14.7	53.8	4.9	.....	.....
	1910	302	63.3	5.0	4.0	14.9	15.6	54.0	6.6	.....	.....
25 plants	1910	500	62.9	11.4	6.4	9.6	14.2	43.2	11.8	3.4	.....
	1911	434	62.0	12.4	9.0	14.5	6.7	47.7	9.7	.....	.....
26 plants	1911	450	61.9	12.0	10.0	14.0	6.4	48.2	9.3	.....	.....
	1912	461	61.7	11.7	13.2	13.0	5.4	45.3	11.3	.....	.....
Shearmen:											
15 plants	1907	94	64.8	.....	6.4	8.5	16.0	51.1	18.1	.....	.....
	1908	92	65.1	.....	6.5	8.7	18.5	45.7	20.7	.....	.....
	1909	93	65.3	.....	6.5	8.6	18.3	59.1	3.2	4.3	.....
	1910	97	65.0	.....	6.2	7.2	18.6	61.9	6.2	.....	.....
25 plants	1910	156	63.3	9.6	11.5	4.5	14.1	46.2	10.3	3.8	.....
	1911	151	62.5	9.9	10.6	11.9	11.9	45.0	10.6	.....	.....
	1912	154	62.4	9.7	11.7	12.3	12.3	40.9	11.7	1.3	.....
Shearmen's helpers:											
15 plants	1907	201	65.9	.....	4.0	2.0	10.4	62.2	20.4	1.0	.....
	1908	172	66.2	.....	4.7	2.3	12.8	58.7	16.9	4.7	.....
	1909	185	67.3	.....	4.3	2.2	14.1	59.5	4.3	15.7	.....
	1910	215	65.3	.....	3.7	1.4	18.1	65.1	11.6	.....	.....
23 plants	1910	355	64.7	12.7	2.3	.8	12.1	44.5	21.7	5.9	.....
	1911	359	63.8	13.4	2.2	5.6	10.3	50.4	18.1	.....	.....
	1912	358	63.9	13.4	3.4	5.6	9.8	46.4	18.2	3.4	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE IV.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Con.

BAR MILLS—Continued.

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Bundlers:											
5 plants	1907	41	66.9	.....	.....	.....	.....	75.6	24.4	.....	.....
	1908	41	66.9	.....	.....	.....	.....	75.6	24.4	.....	.....
	1909	41	66.8	.....	.....	.....	.....	100.0	.....	.....	.....
	1910	41	67.1	.....	.....	.....	.....	100.0	.....	.....	.....
6 plants	1910	77	66.1	.....	.....	.....	.....	100.0	.....	.....	.....
	1911	81	63.5	.....	.....	44.4	.....	55.6	.....	.....	.....
7 plants	1911	131	62.0	.....	.....	65.6	.....	34.4	.....	.....	.....
	1912	132	62.0	.....	.....	65.2	.....	34.8	.....	.....	.....
Laborers:											
10 plants	1907	296	68.3	.....	.....	.3	17.2	47.3	25.0	8.1	2.0
	1908	227	64.8	.....	.....	.9	41.4	47.6	7.9	.....	2.2
	1909	324	67.8	.....	.....	.6	23.5	42.3	27.2	4.0	2.5
	1910	424	67.2	.....	.....	2.1	28.1	26.7	41.5	.....	1.7
15 plants	1910	511	67.8	.....	.....	1.8	29.2	25.0	35.8	4.7	[1] 3.5
	1911	355	66.0	.....	8.7	.8	19.7	49.3	19.7	1.1	.6
17 plants	1911	390	65.5	.....	7.9	.8	26.7	44.9	18.2	1.0	.5
	1912	424	65.9	.....	4.2	9.7	16.3	48.1	19.8	1.2	.7

[1] Including 0.8 per cent whose full-time hours per week were 84½, and 0.4 per cent whose full-time hours, per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912.

BAR MILLS—Continued.

STOCKERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	2	16	62.3	.....	.....	.....	8	8	.....	.....	.....
Pittsburgh	2	22	69.6	.....	.....	.....	.....	10	8	4	.....
Great Lakes and Middle West	4	55	62.9	.....	8	.....	.....	47	.....	.....	.....
Total	8	93	64.4	.....	8	.....	8	65	8	4	.....
1908.											
Eastern	2	16	62.3	.....	.....	.....	8	8	.....	.....	.....
Pittsburgh	2	20	68.3	.....	.....	.....	.....	10	10	.....	.....
Great Lakes and Middle West	4	54	63.1	.....	10	.....	.....	41	3	.....	.....
Total	8	90	64.1	.....	10	.....	8	59	13	.....	.....
1909.											
Eastern	2	16	62.3	.....	.....	.....	8	8	.....	.....	.....
Pittsburgh	2	20	68.0	.....	.....	.....	.....	20	.....	.....	.....
Great Lakes and Middle West	4	52	63.4	.....	8	.....	.....	41	3	.....	.....
Total	8	88	64.2	.....	8	.....	8	69	3	.....	.....
1910.											
Eastern	6	72	57.6	.....	34	.....	7	26	5	.....	.....
Pittsburgh	3	47	56.5	27	.....	.....	.....	20	.....	.....	.....
Great Lakes and Middle West	4	51	63.3	.....	8	.....	.....	40	3	.....	.....
Total	13	170	59.0	27	42	.....	7	86	8	.....	.....
1911.											
Eastern	6	65	59.1	.....	18	13	20	10	4	.....	.....
Pittsburgh	5	93	61.0	27	.....	.....	24	21	21	.....	.....
Great Lakes and Middle West	4	53	62.9	.....	10	.....	.....	41	2	.....	.....
Total	15	211	60.9	27	28	13	44	72	27	.....	.....
1912.											
Eastern	6	71	59.1	.....	22	4	35	6	4	.....	.....
Pittsburgh	5	92	61.0	27	.....	.....	24	20	21	.....	.....
Great Lakes and Middle West	4	54	63.1	.....	10	.....	.....	41	3	.....	.....
Total	15	217	60.9	27	32	4	59	67	28	.....	.....

HEATERS.

1907.											
Eastern	3	22	62.1	.....	.....	4	.....	18	.....	.....	.....
Pittsburgh	6	61	64.6	3	.....	4	1	41	12	.....	.....
Great Lakes and Middle West	6	38	63.7	.....	6	2	2	26	.....	.....	2
Total	15	121	63.9	3	6	10	3	85	12	.....	2
1908.											
Eastern	3	26	60.2	.....	8	.....	.....	18	.....	.....	.....
Pittsburgh	6	53	65.3	3	.....	4	.....	34	12	.....	.....
Great Lakes and Middle West	6	33	64.5	.....	6	2	2	16	5	.....	2
Total	15	112	63.9	3	14	6	2	68	17	.....	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HEATERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1909.											
Eastern	3	26	60.2	.....	8	.....	.....	18	.....	.....	.....
Pittsburgh	6	53	65.5	3	.....	4	.....	44	.....	2	.....
Great Lakes and Middle West	6	33	64.5	.....	6	2	2	16	5	.....	2
Total	15	112	64.0	3	14	6	2	78	5	2	2
1910.											
Eastern	8	65	60.7	.....	17	.....	16	28	4	.....	.....
Pittsburgh	10	114	63.3	18	.....	4	.....	80	8	4	.....
Great Lakes and Middle West	7	38	65.7	.....	8	.....	.....	18	10	.....	2
Total	25	217	62.9	18	25	4	16	126	22	4	2
1911.											
Eastern	8	57	61.9	.....	14	.....	.....	39	4	.....	.....
Pittsburgh	10	88	62.3	18	6	4	.....	50	8	2	.....
Great Lakes and Middle West	8	39	64.9	.....	6	2	2	22	5	.....	2
Total	26	184	62.7	18	26	6	2	111	17	2	2
1912.											
Eastern	8	65	61.2	.....	.....	25	.....	36	4	.....	.....
Pittsburgh	10	94	62.0	18	6	4	.....	56	8	2	.....
Great Lakes and Middle West	8	40	65.1	.....	6	2	2	22	6	.....	2
Total	26	199	62.4	18	12	31	2	114	18	2	2

HEATERS' HELPERS.

1907.											
Eastern	3	32	62.5	.....	.....	8	.....	24	.....	.....	.....
Pittsburgh	5	89	66.8	3	.....	4	.....	54	22	6	.....
Great Lakes and Middle West	6	46	64.2	.....	8	.....	4	30	4	.....	.....
Total	14	167	65.3	3	8	12	4	108	26	6	.....
1908.											
Eastern	3	36	61.1	.....	8	4	.....	24	.....	.....	.....
Pittsburgh	5	73	67.3	3	.....	4	.....	36	26	4	.....
Great Lakes and Middle West	6	44	64.6	.....	8	.....	4	26	6	.....	.....
Total	14	153	65.1	3	16	8	4	86	32	4	.....
1909.											
Eastern	3	36	61.1	.....	8	4	.....	24	.....	.....	.....
Pittsburgh	5	73	67.2	3	.....	4	.....	62	.....	4	.....
Great Lakes and Middle West	6	42	64.5	.....	8	.....	4	26	2	2	.....
Total	14	151	65.0	3	16	8	4	112	2	6	.....
1910.											
Eastern	8	90	62.1	.....	15	4	19	44	8	.....	.....
Pittsburgh	9	154	62.0	48	.....	4	.....	78	20	.....	4
Great Lakes and Middle West	7	51	65.6	.....	8	.....	4	32	3	4	.....
Total	24	295	62.6	48	23	8	23	154	31	4	4

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HEATERS' HELPERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.											
Eastern	8	81	62.4	.....	16	2	3	52	8	.....	.....
Pittsburgh	9	150	61.6	48	2	10	.....	66	20	4	.....
Great Lakes and Middle West	8	62	65.8	.....	8	.....	4	44	2	4	.....
Total	25	293	62.7	48	26	12	7	162	30	8	.....
1912.											
Eastern	8	104	61.1	.....	18	36	2	40	8	.....	.....
Pittsburgh	9	155	61.7	45	3	8	.....	77	20	2	.....
Great Lakes and Middle West	8	60	65.5	.....	8	.....	4	44	2	2	.....
Total	25	319	62.2	45	29	44	6	161	30	4	.....

CHARGERS AND HELPERS.

1907.											
Eastern	1	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	6	58	66.6	.....	.....	4	1	39	12	2	.....
Great Lakes and Middle West	5	42	64.1	.....	6	.....	4	28	4	.....	.....
Total	12	104	65.5	.....	6	4	5	71	16	2	.....
1908.											
Eastern	1	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	6	56	66.5	.....	.....	4	1	35	16	.....	.....
Great Lakes and Middle West	5	42	64.5	.....	6	.....	4	28	4	.....	.....
Total	12	102	65.6	.....	6	4	5	67	20	.....	.....
1909.											
Eastern	1	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	6	57	66.6	.....	.....	4	.....	48	.....	5	.....
Great Lakes and Middle West	5	46	65.2	.....	6	.....	4	28	8	.....	.....
Total	12	107	65.9	.....	6	4	4	80	8	5	.....
1910.											
Eastern	3	16	59.9	.....	4	.....	8	4	.....	.....	.....
Pittsburgh	9	105	65.9	12	.....	4	.....	64	25	.....	.....
Great Lakes and Middle West	6	58	65.9	.....	6	.....	4	38	10	.....	.....
Total	18	179	65.3	12	10	4	12	106	35	.....	.....
1911.											
Eastern	3	16	61.7	.....	3	.....	1	12	.....	.....	.....
Pittsburgh	9	105	65.1	12	2	10	.....	56	25	.....	.....
Great Lakes and Middle West	7	64	65.0	.....	10	.....	4	42	8	.....	.....
Total	19	185	64.8	12	15	10	5	110	33	.....	.....
1912.											
Eastern	3	15	61.2	.....	3	.....	2	10	.....	.....	.....
Pittsburgh	9	103	65.5	9	4	6	.....	59	25	.....	.....
Great Lakes and Middle West	7	64	65.0	.....	10	.....	4	42	8	.....	.....
Total	19	182	65.0	9	17	6	6	111	33	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

DRAG DOWNS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	3	16	61.4	.....	.....	8	.....	8	.....	.....	.....
Pittsburgh	5	48	67.6	.....	.....	.....	.....	30	16	2	.....
Great Lakes and Middle West	3	22	59.7	.....	8	.....	.....	14	.....	.....	.....
Total	11	86	64.4	.....	8	8	.....	52	16	2	.....
1908.											
Eastern	3	20	59.2	.....	8	4	.....	8	.....	.....	.....
Pittsburgh	5	43	68.0	.....	.....	.....	.....	27	16	.....	.....
Great Lakes and Middle West	3	19	59.6	.....	8	.....	.....	8	3	.....	.....
Total	11	82	63.9	.....	16	4	.....	43	19	.....	.....
1909.											
Eastern	3	20	59.2	.....	8	4	.....	8	.....	.....	.....
Pittsburgh	5	44	68.1	.....	.....	.....	.....	42	.....	2	.....
Great Lakes and Middle West	3	19	59.6	.....	8	.....	.....	8	3	.....	.....
Total	11	83	64.0	.....	16	4	.....	58	3	2	.....
1910.											
Eastern	7	35	61.1	.....	12	4	4	9	6	.....	.....
Pittsburgh	8	76	68.2	.....	.....	.....	.....	56	16	4	.....
Great Lakes and Middle West	4	21	60.4	.....	8	.....	.....	10	3	.....	.....
Total	19	132	65.1	.....	20	4	4	75	25	4	.....
1911.											
Eastern	7	32	61.6	.....	11	3	.....	12	6	.....	.....
Pittsburgh	8	70	67.7	.....	4	2	.....	46	16	2	.....
Great Lakes and Middle West	5	25	60.0	.....	10	.....	.....	12	3	.....	.....
Total	20	127	64.7	.....	25	5	.....	70	25	2	.....
1912.											
Eastern	7	33	60.9	.....	13	4	.....	10	6	.....	.....
Pittsburgh	8	72	67.4	.....	4	2	.....	48	16	2	.....
Great Lakes and Middle West	5	25	60.0	.....	10	.....	.....	12	3	.....	.....
Total	20	130	64.3	.....	27	6	.....	70	25	2	.....

ROLL ENGINEERS.

1907.											
Eastern	2	5	72.0	.....	.....	.....	.....	.....	5	.....	.....
Pittsburgh	6	31	73.8	.....	.....	.....	.....	15	.....	14	2
Great Lakes and Middle West	5	22	70.3	.....	.....	.....	.....	16	.....	4	2
Total	13	58	72.3	.....	.....	.....	.....	31	5	18	4
1908.											
Eastern	2	6	70.0	.....	.....	.....	.....	2	4	.....	.....
Pittsburgh	6	30	71.6	.....	.....	.....	.....	14	4	12	.....
Great Lakes and Middle West	5	20	71.6	.....	.....	.....	.....	12	2	4	2
Total	13	56	71.4	.....	.....	.....	.....	28	10	16	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL ENGINEERS—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1909.											
Eastern	2	6	70.0	.....	.....	.....	.....	2	4	.....	.....
Pittsburgh	6	30	71.8	.....	.....	.....	.....	16	.....	14	.....
Great Lakes and Middle West	5	20	71.6	.....	.....	.....	.....	12	2	4	2
Total	13	56	71.5	.....	.....	.....	.....	30	6	18	2
1910.											
Eastern	6	19	71.6	.....	.....	.....	3	6	6	.....	4
Pittsburgh	10	58	72.1	.....	.....	.....	.....	20	20	18	.....
Great Lakes and Middle West	6	22	72.1	.....	.....	.....	.....	14	.....	5	3
Total	22	99	72.0	.....	.....	.....	3	40	26	23	7
1911.											
Eastern	6	17	69.0	.....	.....	.....	3	4	8	2	.....
Pittsburgh	10	56	70.2	.....	.....	.....	.....	36	4	16	.....
Great Lakes and Middle West	6	22	71.8	.....	.....	.....	.....	14	1	5	2
Total	22	95	70.4	.....	.....	.....	3	54	13	23	2
1912.											
Eastern	6	18	66.7	.....	4	.....	1	4	7	2	.....
Pittsburgh	10	57	70.3	.....	.....	.....	.....	35	4	18	.....
Great Lakes and Middle West	6	22	72.1	.....	.....	.....	.....	12	1	7	2
Total	22	97	70.0	.....	4	.....	1	51	12	27	2

ROLLERS: 8-INCH.

1907.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	4	10	63.7	.....	2	.....	2	4	1	1	.....
Great Lakes and Middle West	2	4	61.0	.....	1	1	.....	2	.....	.....	.....
Total	7	16	62.5	.....	3	3	2	6	1	1	.....
1908.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	4	10	63.7	.....	2	.....	2	4	1	1	.....
Great Lakes and Middle West	2	4	61.5	.....	1	1	.....	2	.....	.....	.....
Total	7	16	62.6	.....	3	3	2	6	1	1	.....
1909.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	4	10	63.5	.....	2	.....	2	5	1	.....	.....
Great Lakes and Middle West	2	4	61.5	.....	1	1	.....	2	.....	.....	.....
Total	7	16	62.5	.....	3	3	2	7	1	.....	.....
1910.											
Eastern	3	4	55.8	.....	2	2	.....	.....	.....	.....	.....
Pittsburgh	6	20	59.2	6	2	.....	2	10	.....	.....	.....
Great Lakes and Middle West	2	4	61.5	.....	2	.....	.....	2	.....	.....	.....
Total	11	28	59.0	6	6	2	2	12	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 8-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.											
Eastern	3	5	54.8	.....	2	3	.....	.....	.....	.....	.....
Pittsburgh	6	20	58.1	6	4	.....	2	7	1	.....	.....
Great Lakes and Middle West	2	4	61.5	.....	1	1	.....	2	.....	.....	.....
Total	11	29	58.0	6	7	4	2	9	1	.....	.....
1912.											
Eastern	3	5	54.8	.....	2	3	.....	.....	.....	.....	.....
Pittsburgh	6	20	58.1	6	4	.....	2	7	1	.....	.....
Great Lakes and Middle West	2	4	61.5	.....	1	1	.....	2	.....	.....	.....
Total	11	29	58.0	6	7	4	2	9	1	.....	.....

ROLLERS: 9-INCH.

1907.											
Pittsburgh	3	4	67.5	.....	.....	.....	1	2	1	.....	.....
Great Lakes and Middle West	3	8	66.3	.....	.....	.....	2	5	1	.....	.....
Total	6	12	66.7	.....	.....	.....	3	7	2	.....	.....
1908.											
Pittsburgh	3	4	67.5	.....	.....	.....	1	2	1	.....	.....
Great Lakes and Middle West	3	7	67.8	.....	.....	.....	1	5	1	.....	.....
Total	6	11	67.7	.....	.....	.....	2	7	2	.....	.....
1909.											
Pittsburgh	3	4	66.0	.....	.....	.....	1	3	.....	.....	.....
Great Lakes and Middle West	3	7	67.8	.....	.....	.....	1	5	1	.....	.....
Total	6	11	67.1	.....	.....	.....	2	8	1	.....	.....
1910.											
Eastern	2	5	59.0	.....	1	.....	4	.....	.....	.....	.....
Pittsburgh	6	12	62.3	3	.....	.....	1	6	2	.....	.....
Great Lakes and Middle West	3	7	67.8	.....	.....	.....	.....	6	1	.....	.....
Total	11	24	63.2	3	1	.....	5	12	3	.....	.....
1911.											
Eastern	2	4	61.5	.....	.....	.....	2	2	.....	.....	.....
Pittsburgh	6	11	61.5	3	1	.....	1	4	2	.....	.....
Great Lakes and Middle West	3	7	67.8	.....	.....	.....	1	5	1	.....	.....
Total	11	22	63.5	3	1	.....	4	11	3	.....	.....
1912.											
Eastern	2	5	61.2	.....	.....	.....	3	2	.....	.....	.....
Pittsburgh	6	11	61.0	3	1	.....	1	4	2	.....	.....
Great Lakes and Middle West	3	7	67.8	.....	.....	.....	1	5	1	.....	.....
Total	11	23	63.1	3	1	.....	5	11	3	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 10-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	4	10	68.9	.....	.....	.....	2	4	2	2	.....
Total	5	12	67.3	.....	.....	2	2	4	2	2	.....
1908.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	4	10	68.9	.....	.....	.....	2	4	2	2	.....
Total	5	12	67.3	.....	.....	2	2	4	2	2	.....
1909.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	4	10	68.6	.....	.....	.....	2	5	3	.....	.....
Total	5	12	67.0	.....	.....	2	2	5	3	.....	.....
1910.											
Eastern	1	4	52.5	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	6	14	68.6	.....	.....	.....	2	9	3	.....	.....
Total	7	18	65.0	.....	4	.....	2	9	3	.....	.....
1911.											
Eastern	1	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	6	14	67.8	.....	1	.....	2	6	5	.....	.....
Total	7	18	63.6	.....	5	.....	2	6	5	.....	.....
1912.											
Eastern	1	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	6	14	67.8	.....	1	.....	2	6	5	.....	.....
Total	7	18	63.6	.....	5	.....	2	6	5	.....	.....

ROLLERS: 12-INCH.

1907.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	3	7	68.7	.....	.....	.....	1	2	4	.....	.....
Great Lakes and Middle West	3	6	68.7	.....	.....	.....	1	2	3	.....	.....
Total	7	15	68.1	.....	.....	.....	2	6	7	.....	.....
1908.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	3	6	71.0	.....	.....	.....	.....	2	4	.....	.....
Great Lakes and Middle West	3	5	70.8	.....	.....	.....	.....	2	3	.....	.....
Total	7	13	69.9	.....	.....	.....	.....	6	7	.....	.....
1909.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	3	6	70.7	.....	.....	.....	.....	4	2	.....	.....
Great Lakes and Middle West	3	5	70.8	.....	.....	.....	.....	2	3	.....	.....
Total	7	13	69.8	.....	.....	.....	.....	8	5	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 12-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	4	7	60.4	.....	2	.....	2	3	.....	.....	.....
Pittsburgh	6	15	64.1	3	.....	.....	1	7	4	.....	.....
Great Lakes and Middle West	3	5	70.8	.....	.....	.....	.....	2	3	.....	.....
Total	13	27	64.4	3	2	.....	3	12	7	.....	.....
1911.											
Eastern	4	6	63.0	.....	.....	1	.....	5	.....	.....	.....
Pittsburgh	6	13	63.5	3	1	.....	.....	5	4	.....	.....
Great Lakes and Middle West	3	5	70.8	.....	.....	.....	.....	2	3	.....	.....
Total	13	24	64.9	3	1	1	.....	12	7	.....	.....
1912.											
Eastern	4	7	61.1	.....	1	1	.....	5	.....	.....	.....
Pittsburgh	6	14	63.6	3	1	.....	1	5	4	.....	.....
Great Lakes and Middle West	3	5	70.8	.....	.....	.....	.....	2	3	.....	.....
Total	13	26	64.3	3	2	1	1	12	7	.....	.....
ROLLERS: 13-INCH, 14-INCH, AND 15-INCH.											
1910.											
Pittsburgh	2	5	57.6	3	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	1	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
Total	3	7	60.6	3	.....	.....	.....	2	2	.....	.....
1911.											
Pittsburgh	2	5	57.6	3	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	1	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
Total	3	7	60.6	3	.....	.....	.....	2	2	.....	.....
1912.											
Pittsburgh	2	5	57.6	3	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West	1	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
Total	3	7	60.6	3	.....	.....	.....	2	2	.....	.....
ROLLERS: 16-INCH.											
1907.											
Eastern	2	4	61.0	.....	.....	2	.....	2	.....	.....	.....
Pittsburgh	2	3	66.3	.....	.....	.....	1	2	.....	.....	.....
Total	4	7	63.3	.....	.....	2	1	4	.....	.....	.....
1908.											
Eastern	2	4	61.0	.....	.....	2	.....	2	.....	.....	.....
Pittsburgh	2	3	66.3	.....	.....	.....	1	2	.....	.....	.....
Total	4	7	63.3	.....	.....	2	1	4	.....	.....	.....
1909.											
Eastern	2	4	61.0	.....	.....	2	.....	2	.....	.....	.....
Pittsburgh	2	3	66.3	.....	.....	.....	1	2	.....	.....	.....
Total	4	7	63.3	.....	.....	2	1	4	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 16-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	2	5	60.3	.....	.....	3	.....	2	.....	.....	.....
Pittsburgh	3	6	64.5	.....	.....	.....	2	4	.....	.....	.....
Total	5	11	62.6	.....	.....	3	2	6	.....	.....	.....
1911.											
Eastern	2	4	61.0	.....	.....	2	.....	2	.....	.....	.....
Pittsburgh	3	4	66.8	.....	.....	.....	1	3	.....	.....	.....
Great Lakes and Middle West	1	4	60.5	.....	2	.....	.....	2	.....	.....	.....
Total	6	12	62.8	.....	2	2	1	7	.....	.....	.....
1912.											
Eastern	2	3	59.8	.....	.....	2	.....	1	.....	.....	.....
Pittsburgh	3	5	65.4	.....	.....	.....	2	3	.....	.....	.....
Great Lakes and Middle West	1	4	60.5	.....	2	.....	.....	2	.....	.....	.....
Total	6	12	62.4	.....	2	2	2	6	.....	.....	.....

ROLLERS: 18-INCH.

1907.											
Eastern	1	1	57.5	.....	.....	1	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	1	1	.....	.....	.....
Total	2	3	61.0	.....	.....	1	1	1	.....	.....	.....
1908.											
Eastern	1	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	1	1	.....	.....	.....
Total	2	4	58.3	.....	2	.....	1	1	.....	.....	.....
1909.											
Eastern	1	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	1	1	.....	.....	.....
Total	2	4	58.3	.....	2	.....	1	1	.....	.....	.....
1910.											
Eastern	4	7	60.2	.....	2	.....	2	3	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total	5	9	60.8	.....	2	.....	2	5	.....	.....	.....
1911.											
Eastern	4	6	59.4	.....	2	1	.....	3	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	1	1	.....	.....	.....
Total	5	8	60.3	.....	2	1	1	4	.....	.....	.....
1912.											
Eastern	4	7	58.1	.....	4	.....	.....	3	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	1	1	.....	.....	.....
Total	5	9	59.1	.....	4	.....	1	4	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: ALL SIZES.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	3	11	60.7	.....	.....	7	.....	4	.....	.....	.....
Pittsburgh	6	34	66.9	.....	2	.....	7	14	8	3	.....
Great Lakes and Middle West	4	20	65.6	.....	1	1	4	10	4	.....	.....
Total	13	65	65.5	.....	3	8	11	28	12	3	.....
1908.											
Eastern	3	12	59.8	.....	2	6	.....	4	.....	.....	.....
Pittsburgh	6	33	67.3	.....	2	.....	6	14	8	3	.....
Great Lakes and Middle West	4	18	66.7	.....	1	1	2	10	4	.....	.....
Total	13	63	65.7	.....	5	7	8	28	12	3	.....
1909.											
Eastern	3	12	59.8	.....	2	6	.....	4	.....	.....	.....
Pittsburgh	6	33	66.9	.....	2	.....	6	19	6	.....	.....
Great Lakes and Middle West	4	18	66.7	.....	1	1	2	10	4	.....	.....
Total	13	63	65.5	.....	5	7	8	33	10	.....	.....
1910.											
Eastern	7	32	58.6	.....	11	5	8	8	.....	.....	.....
Pittsburgh	10	72	62.9	15	2	.....	8	36	11	.....	.....
Great Lakes and Middle West	5	20	66.8	.....	2	.....	.....	14	4	.....	.....
Total	22	124	62.4	15	15	5	16	58	15	.....	.....
1911.											
Eastern	7	29	58.4	.....	8	7	2	12	.....	.....	.....
Pittsburgh	10	67	62.2	15	7	.....	6	25	14	.....	.....
Great Lakes and Middle West	6	24	65.8	.....	3	1	2	14	4	.....	.....
Total	23	120	62.0	15	18	8	10	51	18	.....	.....
1912.											
Eastern	7	31	57.7	.....	11	6	3	11	.....	.....	.....
Pittsburgh	10	69	62.1	15	7	.....	8	25	14	.....	.....
Great Lakes and Middle West	6	24	65.8	.....	3	1	2	14	4	.....	.....
Total	23	124	61.7	15	21	7	13	50	18	.....	.....

ROUGHERS: 8-INCH.

1907.											
Eastern	1	6	59.3	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh	4	24	65.7	.....	1	2	.....	15	6	.....	.....
Great Lakes and Middle West	2	14	54.3	.....	14	.....	.....	.....	.....	.....	.....
Total	7	44	61.2	.....	15	8	.....	15	6	.....	.....
1908.											
Eastern	1	6	59.3	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh	4	24	65.7	.....	1	2	.....	15	6	.....	.....
Great Lakes and Middle West	2	14	54.3	.....	14	.....	.....	.....	.....	.....	.....
Total	7	44	61.2	.....	15	8	.....	15	6	.....	.....
1909.											
Eastern	1	6	52.3	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh	4	24	65.4	.....	1	2	.....	21	.....	.....	.....
Great Lakes and Middle West	2	14	54.3	.....	14	.....	.....	.....	.....	.....	.....
Total	7	44	61.0	.....	15	8	.....	21	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 8-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	3	10	56.5	.....	4	6	.....	.....	.....	.....	.....
Pittsburgh	6	60	58.4	24	1	2	.....	33	.....	.....	.....
Great Lakes and Middle West	2	14	54.3	.....	14	.....	.....	.....	.....	.....	.....
Total	11	84	57.5	24	19	8	.....	33	.....	.....	.....
1911.											
Eastern	3	13	55.7	.....	4	9	.....	.....	.....	.....	.....
Pittsburgh	6	54	56.5	24	7	2	.....	21	.....	.....	.....
Great Lakes and Middle West	2	14	54.3	.....	14	.....	.....	.....	.....	.....	.....
Total	11	81	56.0	24	25	11	.....	21	.....	.....	.....
1912.											
Eastern	3	13	55.7	.....	4	9	.....	.....	.....	.....	.....
Pittsburgh	6	51	56.5	24	7	2	.....	21	.....	.....	.....
Great Lakes and Middle West	2	12	54.3	.....	12	.....	.....	.....	.....	.....	.....
Total	11	79	56.0	24	23	11	.....	21	.....	.....	.....

ROUGHERS: 9-INCH.

1907.											
Pittsburgh	3	14	66.3	.....	.....	.....	.....	14	.....	.....	.....
Great Lakes and Middle West	4	44	53.1	22	8	.....	.....	14	.....	.....	.....
Total	7	58	56.3	22	8	.....	.....	28	.....	.....	.....
1908.											
Pittsburgh	3	13	66.2	.....	.....	.....	.....	13	.....	.....	.....
Great Lakes and Middle West	4	41	58.6	12	8	.....	.....	17	4	.....	.....
Total	7	54	60.4	12	8	.....	.....	30	4	.....	.....
1909.											
Pittsburgh	3	13	65.9	.....	.....	.....	.....	13	.....	.....	.....
Great Lakes and Middle West	4	41	53.6	21	8	.....	.....	8	4	.....	.....
Total	7	54	56.5	21	8	.....	.....	21	4	.....	.....
1910.											
Eastern	2	12	59.2	.....	2	.....	10	.....	.....	.....	.....
Pittsburgh	6	34	63.9	6	.....	.....	.....	22	6	.....	.....
Great Lakes and Middle West	4	42	53.4	22	8	.....	.....	8	4	.....	.....
Total	12	88	58.2	28	10	.....	10	30	10	.....	.....
1911.											
Eastern	2	12	59.0	.....	6	.....	.....	6	.....	.....	.....
Pittsburgh	6	31	62.4	6	3	.....	.....	16	6	.....	.....
Great Lakes and Middle West	4	40	53.1	21	8	.....	.....	8	3	.....	.....
Total	12	83	57.4	27	17	.....	.....	30	9	.....	.....
1912.											
Eastern	2	15	58.2	.....	9	.....	.....	6	.....	.....	.....
Pittsburgh	6	29	62.2	6	3	.....	.....	14	6	.....	.....
Great Lakes and Middle West	4	40	53.1	21	8	.....	.....	8	3	.....	.....
Total	12	84	57.2	27	20	.....	.....	28	9	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 10-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	1	8	59.3	.....	.....	8	.....	.....	.....	.....	.....
Pittsburgh	4	25	66.1	3	.....	.....	.....	8	14	.....	.....
Total	5	33	64.4	3	.....	8	.....	8	14	.....	.....
1908.											
Eastern	1	8	59.3	.....	.....	8	.....	.....	.....	.....	.....
Pittsburgh	4	29	66.9	3	.....	.....	.....	8	18	.....	.....
Total	5	37	65.2	3	.....	8	.....	8	18	.....	.....
1909.											
Eastern	1	8	59.3	.....	.....	8	.....	.....	.....	.....	.....
Pittsburgh	4	29	66.6	3	.....	.....	.....	26	.....	.....	.....
Total	5	37	65.0	3	.....	8	.....	26	.....	.....	.....
1910.											
Eastern	1	8	52.5	.....	8	.....	.....	.....	.....	.....	.....
Pittsburgh	6	43	67.0	3	.....	.....	.....	34	6	.....	.....
Total	7	51	64.8	3	8	.....	.....	34	6	.....	.....
1911.											
Eastern	1	8	48.8	.....	8	.....	.....	.....	.....	.....	.....
Pittsburgh	6	43	66.0	3	4	.....	.....	30	6	.....	.....
Total	7	51	63.3	3	12	.....	.....	30	6	.....	.....
1912.											
Eastern	1	8	48.8	.....	8	.....	.....	.....	.....	.....	.....
Pittsburgh	6	43	66.0	3	4	.....	.....	30	6	.....	.....
Total	7	51	63.3	3	12	.....	.....	30	6	.....	.....

ROUGHERS: 12-INCH.

1907.											
Eastern	2	9	62.2	.....	.....	3	.....	6	.....	.....	.....
Pittsburgh	3	26	69.1	.....	.....	.....	.....	10	16	.....	.....
Great Lakes and Middle West	3	27	60.9	9	.....	.....	.....	10	8	.....	.....
Total	8	62	64.5	9	.....	3	.....	26	24	.....	.....
1908.											
Eastern	2	12	59.1	.....	6	.....	.....	6	.....	.....	.....
Pittsburgh	3	24	70.2	.....	.....	.....	.....	8	16	.....	.....
Great Lakes and Middle West	3	19	59.7	9	.....	.....	.....	.....	10	.....	.....
Total	8	55	64.1	9	6	.....	.....	14	26	.....	.....
1909.											
Eastern	2	12	59.1	.....	6	.....	.....	6	.....	.....	.....
Pittsburgh	3	24	69.8	.....	.....	.....	.....	24	.....	.....	.....
Great Lakes and Middle West	3	18	70.7	.....	.....	.....	.....	8	10	.....	.....
Total	8	54	67.7	.....	6	.....	.....	38	10	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 12-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	5	29	58.3	.....	16	.....	4	9	.....	.....	.....
Pittsburgh	6	40	66.0	6	.....	.....	.....	28	6	.....	.....
Great Lakes and Middle West	3	20	70.8	.....	.....	.....	.....	8	12	.....	.....
Total	14	89	64.6	6	16	.....	4	45	18	.....	.....
1911.											
Eastern	5	24	59.4	.....	9	3	.....	12	.....	.....	.....
Pittsburgh	6	38	66.2	6	1	.....	.....	25	6	.....	.....
Great Lakes and Middle West	3	19	70.7	.....	.....	.....	.....	8	11	.....	.....
Total	14	81	65.3	6	10	3	.....	45	17	.....	.....
1912.											
Eastern	5	27	58.4	.....	15	.....	.....	12	.....	.....	.....
Pittsburgh	6	40	65.7	6	1	.....	.....	27	6	.....	.....
Great Lakes and Middle West	3	18	70.7	.....	.....	.....	.....	8	10	.....	.....
Total	14	85	64.4	6	16	.....	.....	47	16	.....	.....

ROUGHERS: 13-INCH, 14-INCH, AND 15-INCH.

1907.											
Great Lakes and Middle West	1	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
1908.											
Great Lakes and Middle West	1	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
1909.											
Great Lakes and Middle West	1	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
1910.											
Eastern	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Pittsburgh	2	16	54.0	12	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	2	30	64.8	.....	.....	.....	12	18	.....	.....	.....
Total	5	48	61.5	12	.....	.....	12	18	6	.....	.....
1911.											
Eastern	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Pittsburgh	2	16	54.0	12	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	2	28	64.6	.....	.....	.....	12	16	.....	.....	.....
Total	5	46	61.2	12	.....	.....	12	16	6	.....	.....
1912.											
Eastern	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Pittsburgh	2	16	54.0	12	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	2	29	64.7	.....	.....	.....	12	17	.....	.....	.....
Total	5	47	61.4	12	.....	.....	12	17	6	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 16-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	2	14	60.5	.....	.....	8	.....	6	.....	.....	.....
Pittsburgh	3	22	64.5	.....	.....	.....	.....	22	.....	.....	.....
Total	5	36	63.0	.....	.....	8	.....	28	.....	.....	.....
1908.											
Eastern	2	14	60.5	.....	.....	8	.....	6	.....	.....	.....
Pittsburgh	3	18	65.1	.....	.....	.....	.....	18	.....	.....	.....
Total	5	32	63.1	.....	.....	8	.....	24	.....	.....	.....
1909.											
Eastern	2	14	60.5	.....	.....	8	.....	6	.....	.....	.....
Pittsburgh	3	20	65.4	.....	.....	.....	.....	20	.....	.....	.....
Total	5	34	63.4	.....	.....	8	.....	26	.....	.....	.....
1910.											
Eastern	2	20	59.6	.....	.....	14	.....	6	.....	.....	.....
Pittsburgh	3	22	64.5	.....	.....	.....	.....	22	.....	.....	.....
Total	5	42	62.2	.....	.....	14	.....	28	.....	.....	.....
1911.											
Eastern	2	14	60.5	.....	.....	8	.....	6	.....	.....	.....
Pittsburgh	3	20	65.4	.....	.....	.....	.....	20	.....	.....	.....
Great Lakes and Middle West	1	8	57.8	.....	4	.....	.....	4	.....	.....	.....
Total	6	42	62.3	.....	4	8	.....	30	.....	.....	.....
1912.											
Eastern	2	10	58.9	.....	.....	8	.....	2	.....	.....	.....
Pittsburgh	3	22	64.5	.....	.....	.....	.....	22	.....	.....	.....
Great Lakes and Middle West	1	8	57.8	.....	4	.....	.....	4	.....	.....	.....
Total	6	40	61.8	.....	4	8	.....	28	.....	.....	.....

ROUGHERS: 18-INCH.

1907.											
Eastern	1	1	57.5	.....	.....	1	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	6	62.8	.....	.....	.....	.....	6	.....	.....	.....
Total	2	7	62.0	.....	.....	1	.....	6	.....	.....	.....
1908.											
Eastern	1	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	6	62.8	.....	.....	.....	.....	6	.....	.....	.....
Total	2	8	60.5	.....	2	.....	.....	6	.....	.....	.....
1909.											
Eastern	1	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	6	62.8	.....	.....	.....	.....	6	.....	.....	.....
Total	2	8	60.5	.....	2	.....	.....	6	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued

ROUGHERS: 18-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	4	17	58.2	.....	8	.....	6	3	.....	.....	.....
Great Lakes and Middle West	1	6	62.8	.....	.....	.....	.....	6	.....	.....	.....
Total	5	23	59.4	.....	8	.....	6	9	.....	.....	.....
1911.											
Eastern	4	13	59.2	.....	4	3	.....	6	.....	.....	.....
Great Lakes and Middle West	1	6	62.8	.....	.....	.....	.....	6	.....	.....	.....
Total	5	19	60.3	.....	4	3	.....	12	.....	.....	.....
1912.											
Eastern	4	16	57.5	.....	10	.....	.....	6	.....	.....	.....
Great Lakes and Middle West	1	6	62.8	.....	.....	.....	.....	6	.....	.....	.....
Total	5	22	58.9	.....	10	.....	.....	12	.....	.....	.....
ROUGHERS: ALL SIZES.											
1907.											
Eastern	3	38	60.4	.....	.....	26	.....	12	.....	.....	.....
Pittsburgh	6	111	66.4	3	1	2	.....	69	36	.....	.....
Great Lakes and Middle West	6	103	56.7	31	22	.....	12	30	8	.....	.....
Total	15	252	61.5	34	23	28	12	111	44	.....	.....
1908.											
Eastern	3	42	59.4	.....	8	22	.....	12	.....	.....	.....
Pittsburgh	6	108	67.0	3	1	2	.....	62	40	.....	.....
Great Lakes and Middle West	6	92	58.6	21	22	.....	12	23	14	.....	.....
Total	15	242	62.5	24	31	24	12	97	54	.....	.....
1909.											
Eastern	3	42	59.4	.....	8	22	.....	12	.....	.....	.....
Pittsburgh	6	110	66.7	3	1	2	.....	104	.....	.....	.....
Great Lakes and Middle West	6	91	58.5	21	22	.....	12	22	14	.....	.....
Total	15	243	62.4	24	31	24	12	138	14	.....	.....
1910.											
Eastern	8	98	58.3	.....	38	20	20	18	2	.....	.....
Pittsburgh	10	215	62.7	51	1	2	.....	139	22	.....	.....
Great Lakes and Middle West	7	112	60.2	22	22	.....	12	40	16	.....	.....
Total	25	425	61.0	73	61	22	32	197	40	.....	.....
1911.											
Eastern	8	86	58.3	.....	31	23	.....	30	2	.....	.....
Pittsburgh	10	202	61.9	51	15	2	.....	112	22	.....	.....
Great Lakes and Middle West	8	115	59.8	21	26	.....	12	42	14	.....	.....
Total	26	403	60.5	72	72	25	12	184	38	.....	.....
1912.											
Eastern	8	91	57.3	.....	46	17	.....	26	2	.....	.....
Pittsburgh	10	204	61.8	51	15	2	.....	114	22	.....	.....
Great Lakes and Middle West	8	113	59.8	21	24	.....	12	43	13	.....	.....
Total	26	408	60.2	72	85	19	12	183	37	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 8-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	1	8	58.0	.....	.....	8	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
Total	3	18	56.6	.....	8	10	.....	.....	.....	.....	.....
1908.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	1	8	58.0	.....	.....	8	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
Total	3	18	56.6	.....	8	10	.....	.....	.....	.....	.....
1909.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	1	8	58.0	.....	.....	8	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
Total	3	18	56.6	.....	8	10	.....	.....	.....	.....	.....
1910.											
Eastern	3	4	55.8	.....	2	2	.....	.....	.....	.....	.....
Pittsburgh	2	14	53.7	6	.....	8	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
Total	6	26	54.3	6	10	10	.....	.....	.....	.....	.....
1911.											
Eastern	3	5	54.8	.....	2	3	.....	.....	.....	.....	.....
Pittsburgh	2	14	53.7	6	.....	8	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
Total	6	27	54.1	6	10	11	.....	.....	.....	.....	.....
1912.											
Eastern	3	5	54.8	.....	2	3	.....	.....	.....	.....	.....
Pittsburgh	2	14	53.7	6	.....	8	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	6	54.5	.....	6	.....	.....	.....	.....	.....	.....
Total	6	25	54.1	6	8	11	.....	.....	.....	.....	.....

CATCHERS: 9-INCH.

1907.											
Pittsburgh	1	4	65.0	.....	.....	.....	.....	4	.....	.....	.....
Great Lakes and Middle West	1	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
Total	2	12	58.0	.....	8	.....	.....	4	.....	.....	.....
1908.											
Pittsburgh	1	4	65.0	.....	.....	.....	.....	4	.....	.....	.....
Great Lakes and Middle West	1	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
Total	2	12	58.0	.....	8	.....	.....	4	.....	.....	.....
1909.											
Pittsburgh	1	4	65.0	.....	.....	.....	.....	4	.....	.....	.....
Great Lakes and Middle West	1	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
Total	2	12	58.0	.....	8	.....	.....	4	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 9-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	1	2	60.0	.....	.....	.....	2	.....	.....	.....	.....
Pittsburgh	2	7	57.7	3	.....	.....	.....	4	.....	.....	.....
Great Lakes and Middle West	1	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
Total	4	17	56.5	3	8	.....	2	4	.....	.....	.....
1911.											
Eastern	1	2	63.0	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	2	7	57.7	3	.....	.....	.....	4	.....	.....	.....
Great Lakes and Middle West	1	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
Total	4	17	56.8	3	8	.....	.....	6	.....	.....	.....
1912.											
Eastern	1	2	63.0	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	2	5	54.8	3	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	1	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
Total	4	15	55.7	3	8	.....	.....	4	.....	.....	.....

CATCHERS: 10-INCH.

1907.											
Pittsburgh	1	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
1908.											
Pittsburgh	1	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
1909.											
Pittsburgh	1	10	71.5	.....	.....	.....	.....	10	.....	.....	.....
1910.											
Eastern	1	4	52.5	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	2	12	71.6	.....	.....	.....	.....	10	2	.....	.....
Total	3	16	66.8	.....	4	.....	.....	10	2	.....	.....
1911.											
Eastern	1	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	2	12	71.6	.....	.....	.....	.....	10	2	.....	.....
Total	3	16	65.9	.....	4	.....	.....	10	2	.....	.....
1912.											
Eastern	1	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	2	12	71.6	.....	.....	.....	.....	10	2	.....	.....
Total	3	16	65.9	.....	4	.....	.....	10	2	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 12-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	2	6	62.2	.....	.....	2	.....	4	.....	.....	.....
Pittsburgh	3	10	67.6	.....	.....	.....	.....	6	4	.....	.....
Total	5	16	65.6	.....	.....	2	.....	10	4	.....	.....
1908.											
Eastern	2	8	59.1	.....	4	.....	.....	4	.....	.....	.....
Pittsburgh	3	9	68.4	.....	.....	.....	.....	5	4	.....	.....
Total	5	17	64.1	.....	4	.....	.....	9	4	.....	.....
1909.											
Eastern	2	8	59.1	.....	4	.....	.....	4	.....	.....	.....
Pittsburgh	3	9	68.2	.....	.....	.....	.....	9	.....	.....	.....
Total	5	17	63.9	.....	4	.....	.....	13	.....	.....	.....
1910.											
Eastern	4	11	59.7	.....	4	.....	2	5	.....	.....	.....
Pittsburgh	6	17	64.2	3	.....	.....	.....	12	2	.....	.....
Total	10	28	62.5	3	4	.....	2	17	2	.....	.....
1911.											
Eastern	4	11	59.7	.....	4	1	.....	6	.....	.....	.....
Pittsburgh	6	16	63.8	3	1	.....	.....	10	2	.....	.....
Total	10	27	62.1	3	5	1	.....	16	2	.....	.....
1912.											
Eastern	4	12	58.9	.....	6	.....	.....	6	.....	.....	.....
Pittsburgh	6	17	63.6	3	1	.....	.....	11	2	.....	.....
Total	10	29	61.7	3	7	.....	.....	17	2	.....	.....

CATCHERS: 13-INCH, 14-INCH, AND 15-INCH.

1910.											
Eastern	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Pittsburgh	2	5	57.6	3	.....	.....	.....	.....	2	.....	.....
Total	3	7	61.7	3	.....	.....	.....	.....	4	.....	.....
1911.											
Eastern	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Pittsburgh	2	5	57.6	3	.....	.....	.....	.....	2	.....	.....
Total	3	7	61.7	3	.....	.....	.....	.....	4	.....	.....
1912.											
Eastern	1	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Pittsburgh	2	5	57.6	3	.....	.....	.....	.....	2	.....	.....
Total	3	7	61.7	3	.....	.....	.....	.....	4	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 16-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	3	8	64.5	.....	.....	.....	1	7	.....	.....	.....
Total	4	10	64.5	.....	.....	.....	1	9	.....	.....	.....
1908.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	3	7	65.1	.....	.....	.....	.....	7	.....	.....	.....
Total	4	9	65.0	.....	.....	.....	.....	9	.....	.....	.....
1909.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	3	7	65.1	.....	.....	.....	.....	7	.....	.....	.....
Total	4	9	65.0	.....	.....	.....	.....	9	.....	.....	.....
1910.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	3	10	64.6	.....	.....	.....	.....	10	.....	.....	.....
Total	4	12	64.6	.....	.....	.....	.....	12	.....	.....	.....
1911.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	3	7	65.1	.....	.....	.....	.....	7	.....	.....	.....
Total	4	9	65.0	.....	.....	.....	.....	9	.....	.....	.....
1912.											
Eastern	1	1	64.5	.....	.....	.....	.....	1	.....	.....	.....
Pittsburgh	3	8	64.5	.....	.....	.....	.....	8	.....	.....	.....
Total	4	9	64.5	.....	.....	.....	.....	9	.....	.....	.....

CATCHERS: 18-INCH.

1907.											
Eastern	1	1	57.5	.....	.....	1	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total	2	3	61.0	.....	.....	1	.....	2	.....	.....	.....
1908.											
Eastern	1	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total	2	4	58.3	.....	2	.....	.....	2	.....	.....	.....
1909.											
Eastern	1	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total	2	4	58.3	.....	2	.....	.....	2	.....	.....	.....
1910.											
Eastern	4	7	57.4	.....	4	.....	2	1	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total	5	9	58.6	.....	4	.....	2	3	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 18-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.											
Eastern	4	6	57.8	.....	3	1	.....	2	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total	5	8	59.0	.....	3	1	.....	4	.....	.....	.....
1912.											
Eastern	4	7	56.6	.....	5	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total	5	9	58.0	.....	5	.....	.....	4	.....	.....	.....

CATCHERS: ALL SIZES.

1907.											
Eastern	3	11	61.6	.....	.....	5	.....	6	.....	.....	.....
Pittsburgh	6	40	65.9	.....	.....	8	1	17	14	.....	.....
Great Lakes and Middle West	2	18	55.4	.....	16	.....	.....	2	.....	.....	.....
Total	11	69	62.5	.....	16	13	1	25	14	.....	.....
1908.											
Eastern	3	14	59.1	.....	6	2	.....	6	.....	.....	.....
Pittsburgh	6	38	66.2	.....	.....	8	.....	16	14	.....	.....
Great Lakes and Middle West	2	18	55.4	.....	16	.....	.....	2	.....	.....	.....
Total	11	70	62.0	.....	22	10	.....	24	14	.....	.....
1909.											
Eastern	3	14	59.1	.....	6	2	.....	6	.....	.....	.....
Pittsburgh	6	38	66.0	.....	.....	8	.....	30	.....	.....	.....
Great Lakes and Middle West	2	18	55.4	.....	16	.....	.....	2	.....	.....	.....
Total	11	70	61.9	.....	22	10	.....	38	.....	.....	.....
1910.											
Eastern	8	32	58.9	.....	14	2	6	8	2	.....	.....
Pittsburgh	10	65	62.2	15	.....	8	.....	36	6	.....	.....
Great Lakes and Middle West	2	18	55.4	.....	16	.....	.....	2	.....	.....	.....
Total	20	115	60.2	15	30	10	6	46	8	.....	.....
1911.											
Eastern	8	32	58.5	.....	13	5	.....	12	2	.....	.....
Pittsburgh	10	61	62.0	15	1	8	.....	31	6	.....	.....
Great Lakes and Middle West	2	18	55.4	.....	16	.....	.....	2	.....	.....	.....
Total	20	111	59.9	15	30	13	.....	45	8	.....	.....
1912.											
Eastern	8	33	57.8	.....	17	3	.....	11	2	.....	.....
Pittsburgh	10	61	61.8	15	1	8	.....	31	6	.....	.....
Great Lakes and Middle West	2	16	55.5	.....	14	.....	.....	2	.....	.....	.....
Total	20	110	59.7	15	32	11	.....	44	8	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 8-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	1	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
Pittsburgh	4	40	63.5	.....	.....	16	.....	16	8	.....	.....
Great Lakes and Middle West	2	12	61.0	.....	6	.....	.....	6	.....	.....	.....
Total	7	56	62.6	.....	6	20	.....	22	8	.....	.....
1908.											
Eastern	1	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
Pittsburgh	4	40	63.5	.....	.....	16	.....	16	8	.....	.....
Great Lakes and Middle West	2	12	61.5	.....	6	.....	.....	6	.....	.....	.....
Total	7	56	62.8	.....	6	20	.....	22	8	.....	.....
1909.											
Eastern	1	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
Pittsburgh	4	40	63.4	.....	.....	16	.....	24	.....	.....	.....
Great Lakes and Middle West	2	12	61.5	.....	6	.....	.....	6	.....	.....	.....
Total	7	56	62.7	.....	6	20	.....	30	.....	.....	.....
1910.											
Eastern	3	5	56.5	.....	2	3	.....	.....	.....	.....	.....
Pittsburgh	6	58	62.1	6	.....	16	.....	36	.....	.....	.....
Great Lakes and Middle West	2	12	61.5	.....	6	.....	.....	6	.....	.....	.....
Total	11	75	61.6	6	8	19	.....	42	.....	.....	.....
1911.											
Eastern	3	7	56.1	.....	2	5	.....	.....	.....	.....	.....
Pittsburgh	6	54	60.7	6	4	20	.....	24	.....	.....	.....
Great Lakes and Middle West	2	12	61.5	.....	6	.....	.....	6	.....	.....	.....
Total	11	73	60.4	6	12	25	.....	30	.....	.....	.....
1912.											
Eastern	3	7	56.1	.....	2	5	.....	.....	.....	.....	.....
Pittsburgh	6	54	60.7	6	6	16	.....	26	.....	.....	.....
Great Lakes and Middle West	2	12	61.5	.....	6	.....	.....	6	.....	.....	.....
Total	11	73	60.4	6	14	21	.....	32	.....	.....	.....

STRANDERS: 9-INCH.

1907.											
Pittsburgh	3	11	65.5	.....	.....	.....	.....	11	.....	.....	.....
Great Lakes and Middle West	3	30	52.9	18	.....	.....	.....	12	.....	.....	.....
Total	6	41	56.2	18	.....	.....	.....	23	.....	.....	.....
1908.											
Pittsburgh	3	11	65.5	.....	.....	.....	.....	11	.....	.....	.....
Great Lakes and Middle West	3	28	52.8	18	.....	.....	.....	8	2	.....	.....
Total	6	39	56.4	18	.....	.....	.....	19	2	.....	.....
1909.											
Pittsburgh	3	11	65.4	.....	.....	.....	.....	11	.....	.....	.....
Great Lakes and Middle West	3	28	52.8	18	.....	.....	.....	8	2	.....	.....
Total	6	39	56.3	18	.....	.....	.....	19	2	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 9-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	2	13	58.8	.....	3	.....	10	.....	.....	.....	.....
Pittsburgh	5	23	67.0	.....	.....	.....	.....	17	6	.....	.....
Great Lakes and Middle West	3	28	52.8	18	.....	.....	.....	8	2	.....	.....
Total	10	64	59.1	18	3	.....	10	25	8	.....	.....
1911.											
Eastern	2	10	58.2	.....	6	.....	.....	4	.....	.....	.....
Pittsburgh	5	24	65.7	.....	3	.....	.....	15	6	.....	.....
Great Lakes and Middle West	3	28	52.8	18	.....	.....	.....	8	2	.....	.....
Total	10	62	58.6	18	9	.....	.....	27	8	.....	.....
1912.											
Eastern	2	13	57.5	.....	9	.....	.....	4	.....	.....	.....
Pittsburgh	5	20	65.8	.....	3	.....	.....	11	6	.....	.....
Great Lakes and Middle West	3	28	52.8	18	.....	.....	.....	8	2	.....	.....
Total	10	61	58.0	18	12	.....	.....	23	8	.....	.....

STRANDERS: 10-INCH.

1907.											
Eastern	1	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
Pittsburgh	4	39	54.7	21	.....	.....	.....	8	10	.....	.....
Total	5	43	55.1	21	.....	4	.....	8	10	.....	.....
1908.											
Eastern	1	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
Pittsburgh	4	39	54.7	21	.....	.....	.....	8	10	.....	.....
Total	5	43	55.1	21	.....	4	.....	8	10	.....	.....
1909.											
Eastern	1	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
Pittsburgh	4	39	54.5	21	.....	.....	.....	18	.....	.....	.....
Total	5	43	55.0	21	.....	4	.....	18	.....	.....	.....
1910.											
Eastern	1	4	52.5	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	6	53	58.1	21	.....	.....	.....	26	6	.....	.....
Total	7	57	57.7	21	4	.....	.....	26	6	.....	.....
1911.											
Eastern	1	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	6	53	57.3	21	4	.....	.....	22	6	.....	.....
Total	7	57	56.7	21	8	.....	.....	22	6	.....	.....
1912.											
Eastern	1	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	6	53	57.3	21	4	.....	.....	22	6	.....	.....
Total	7	57	56.7	21	8	.....	.....	22	6	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 12-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	3	64.0	.....	.....	.....	.....	3	.....	.....	.....
Great Lakes and Middle West	1	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
Total	3	13	69.0	.....	.....	.....	.....	5	8	.....	.....
1908.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	1	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
Total	3	14	70.4	.....	.....	.....	.....	4	10	.....	.....
1909.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	1	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
Total	3	14	70.4	.....	.....	.....	.....	4	10	.....	.....
1910.											
Eastern	4	15	57.5	.....	10	.....	2	3	.....	.....	.....
Pittsburgh	4	23	65.7	3	.....	.....	.....	10	10	.....	.....
Great Lakes and Middle West	1	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
Total	9	48	64.4	3	10	.....	2	13	20	.....	.....
1911.											
Eastern	4	9	59.2	.....	4	1	.....	4	.....	.....	.....
Pittsburgh	4	21	64.6	3	3	.....	.....	5	10	.....	.....
Great Lakes and Middle West	1	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
Total	9	40	65.3	3	7	1	.....	9	20	.....	.....
1912.											
Eastern	4	10	58.3	.....	6	.....	.....	4	.....	.....	.....
Pittsburgh	4	23	64.2	3	.....	6	.....	4	10	.....	.....
Great Lakes and Middle West	1	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
Total	9	43	64.7	3	6	6	.....	8	20	.....	.....

STRANDERS: 13-INCH, 14-INCH, AND 15-INCH.

1907.											
Great Lakes and Middle West	1	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
1908.											
Great Lakes and Middle West	1	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
1909.											
Great Lakes and Middle West	1	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
1910.											
Great Lakes and Middle West	1	26	60.0	.....	.....	.....	26	.....	.....	.....	.....
1911.											
Great Lakes and Middle West	1	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
1912.											
Great Lakes and Middle West	1	22	60.0	.....	.....	.....	22	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 16-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Pittsburgh	1	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
1908.											
Pittsburgh	1	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
1909.											
Pittsburgh	1	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
1910.											
Pittsburgh	1	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
1911.											
Pittsburgh	1	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	1	8	55.0	.....	8	.....	.....	.....	.....	.....	.....
Total	2	10	57.0	.....	8	.....	.....	2	.....	.....	.....
1912.											
Pittsburgh	1	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	1	8	55.0	.....	8	.....	.....	.....	.....	.....	.....
Total	2	10	57.0	.....	8	.....	.....	2	.....	.....	.....

STRANDERS: ALL SIZES.

1907.											
Eastern	2	10	60.3	.....	.....	8	.....	2	.....	.....	.....
Pittsburgh	6	95	60.1	21	.....	16	.....	40	18	.....	.....
Great Lakes and Middle West	5	70	58.5	18	6	.....	20	18	8	.....	.....
Total	13	175	59.5	39	6	24	20	60	26	.....	.....
1908.											
Eastern	2	10	60.3	.....	.....	8	.....	2	.....	.....	.....
Pittsburgh	6	94	60.2	21	.....	16	.....	39	18	.....	.....
Great Lakes and Middle West	5	70	59.1	18	6	.....	20	14	12	.....	.....
Total	13	174	59.7	39	6	24	20	55	30	.....	.....
1909.											
Eastern	2	10	60.3	.....	.....	8	.....	2	.....	.....	.....
Pittsburgh	6	94	60.1	21	.....	16	.....	57	.....	.....	.....
Great Lakes and Middle West	5	70	59.1	18	6	.....	20	14	12	.....	.....
Total	13	174	59.7	39	6	24	20	73	12	.....	.....
1910.											
Eastern	6	37	57.3	.....	19	3	12	3	.....	.....	.....
Pittsburgh	10	159	62.0	30	.....	16	.....	91	22	.....	.....
Great Lakes and Middle West	5	76	59.2	18	6	.....	26	14	12	.....	.....
Total	21	272	60.6	48	25	19	38	108	34	.....	.....
1911.											
Eastern	6	30	56.8	.....	16	6	.....	8	.....	.....	.....
Pittsburgh	10	154	60.9	30	14	20	.....	68	22	.....	.....
Great Lakes and Middle West	6	78	58.7	18	14	.....	20	14	12	.....	.....
Total	22	262	59.8	48	44	26	20	90	34	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: ALL SIZES—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1912.											
Eastern	6	34	56.4	.....	21	5	.....	8	.....	.....	.....
Pittsburgh	10	152	60.8	30	13	22	.....	65	22	.....	.....
Great Lakes and Middle West	6	80	58.7	18	14	.....	22	14	12	.....	.....
Total	22	266	59.6	48	48	27	22	87	34	.....	.....

FINISHERS: 8-INCH.

1907.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	3	6	67.5	.....	.....	.....	2	1	3	.....	.....
Great Lakes and Middle West	2	6	63.3	.....	1	1	.....	4	.....	.....	.....
Total	6	14	64.5	.....	1	3	2	5	3	.....	.....
1908.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	3	6	67.5	.....	.....	.....	1	2	3	.....	.....
Great Lakes and Middle West	2	6	64.0	.....	2	.....	.....	4	.....	.....	.....
Total	6	14	64.8	.....	2	2	1	6	3	.....	.....
1909.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	3	6	67.2	.....	.....	.....	1	5	.....	.....	.....
Great Lakes and Middle West	2	6	64.0	.....	2	.....	.....	4	.....	.....	.....
Total	6	14	64.7	.....	2	2	1	9	.....	.....	.....
1910.											
Eastern	2	2	59.1	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	5	16	59.4	6	.....	.....	.....	10	.....	.....	.....
Great Lakes and Middle West	2	6	64.0	.....	2	.....	.....	4	.....	.....	.....
Total	9	24	60.6	6	2	2	.....	14	.....	.....	.....
1911.											
Eastern	2	3	58.8	.....	.....	3	.....	.....	.....	.....	.....
Pittsburgh	5	16	58.1	6	1	2	1	6	.....	.....	.....
Great Lakes and Middle West	2	6	64.0	.....	2	.....	.....	4	.....	.....	.....
Total	9	25	59.6	6	3	5	1	10	.....	.....	.....
1912.											
Eastern	2	3	58.8	.....	.....	3	.....	.....	.....	.....	.....
Pittsburgh	5	16	58.1	6	2	.....	1	7	.....	.....	.....
Great Lakes and Middle West	2	6	64.0	.....	2	.....	.....	4	.....	.....	.....
Total	9	25	59.6	6	4	3	1	11	.....	.....	.....

FINISHERS: 9-INCH.

1907.											
Pittsburgh	2	3	66.7	.....	.....	.....	1	1	1	.....	.....
Great Lakes and Middle West	3	12	66.9	.....	.....	.....	1	10	1	.....	.....
Total	5	15	66.8	.....	.....	.....	2	11	2	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 9-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1908.											
Pittsburgh	2	3	66.7	.....	.....	.....	1	1	1	.....	.....
Great Lakes and Middle West	3	11	68.2	.....	.....	.....	.....	10	1	.....	.....
Total	5	14	67.9	.....	.....	.....	1	11	2	.....	.....
1909.											
Pittsburgh	2	3	66.3	.....	.....	.....	1	2	.....	.....	.....
Great Lakes and Middle West	3	11	68.2	.....	.....	.....	.....	10	1	.....	.....
Total	5	14	67.8	.....	.....	.....	1	12	1	.....	.....
1910.											
Eastern	1	3	58.3	.....	1	.....	2	.....	.....	.....	.....
Pittsburgh	5	10	61.7	3	.....	.....	.....	5	2	.....	.....
Great Lakes and Middle West	3	11	68.2	.....	.....	.....	.....	10	1	.....	.....
Total	9	24	64.3	3	1	.....	2	15	3	.....	.....
1911.											
Eastern	1	2	55.0	.....	2	.....	.....	.....	.....	.....	.....
Pittsburgh	5	10	60.6	3	1	.....	1	3	2	.....	.....
Great Lakes and Middle West	3	11	68.2	.....	.....	.....	.....	10	1	.....	.....
Total	9	23	63.8	3	3	.....	1	13	3	.....	.....
1912.											
Eastern	1	3	55.0	.....	3	.....	.....	.....	.....	.....	.....
Pittsburgh	5	10	60.6	3	1	.....	1	3	2	.....	.....
Great Lakes and Middle West	3	11	68.2	.....	.....	.....	.....	10	1	.....	.....
Total	9	24	63.4	3	4	.....	1	13	3	.....	.....

FINISHERS: 10-INCH.

1907.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	3	8	70.1	.....	.....	.....	.....	2	6	.....	.....
Total	4	10	68.0	.....	.....	2	.....	2	6	.....	.....
1908.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	3	8	70.1	.....	.....	.....	.....	2	6	.....	.....
Total	4	10	68.0	.....	.....	2	.....	2	6	.....	.....
1909.											
Eastern	1	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	3	8	69.8	.....	.....	.....	.....	7	1	.....	.....
Total	4	10	67.7	.....	.....	2	.....	7	1	.....	.....
1910.											
Pittsburgh	5	12	69.3	.....	.....	.....	.....	10	2	.....	.....
1911.											
Pittsburgh	5	12	68.4	.....	1	.....	.....	8	3	.....	.....
1912.											
Pittsburgh	5	12	68.4	.....	1	.....	.....	8	3	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 12-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Pittsburgh	2	6	69.3	.....	.....	.....	1	1	4	.....	.....
Great Lakes and Middle West	2	6	69.3	.....	.....	.....	.....	4	2	.....	.....
Total	4	12	69.3	.....	.....	.....	1	5	6	.....	.....
1908.											
Pittsburgh	2	5	71.2	.....	.....	.....	.....	1	4	.....	.....
Great Lakes and Middle West	2	6	70.0	.....	.....	.....	.....	4	2	.....	.....
Total	4	11	70.5	.....	.....	.....	.....	5	6	.....	.....
1909.											
Pittsburgh	2	5	70.8	.....	.....	.....	.....	3	2	.....	.....
Great Lakes and Middle West	2	6	70.0	.....	.....	.....	.....	4	2	.....	.....
Total	4	11	70.4	.....	.....	.....	.....	7	4	.....	.....
1910.											
Eastern	1	1	64.0	.....	.....	.....	.....	1	.....	.....	.....
Pittsburgh	5	13	64.0	3	.....	.....	1	7	2	.....	.....
Great Lakes and Middle West	2	6	70.0	.....	.....	.....	.....	4	2	.....	.....
Total	8	20	65.8	3	.....	.....	1	12	4	.....	.....
1911.											
Eastern	3	4	55.1	.....	3	1	.....	.....	.....	.....	.....
Pittsburgh	5	12	63.4	3	1		.....	4	4	.....	.....
Great Lakes and Middle West	2	6	70.0	.....	.....	.....	.....	4	2	.....	.....
Total	10	22	63.7	3	4	1	.....	8	6	.....	.....
1912.											
Eastern	3	5	54.1	.....	5	.....	.....	.....	.....	.....	.....
Pittsburgh	5	13	63.2	3	.....	2	1	3	4	.....	.....
Great Lakes and Middle West	2	6	70.0	.....	.....	.....	.....	4	2	.....	.....
Total	10	24	63.0	3	5	2	1	7	6	.....	.....

FINISHERS: 13-INCH, 14-INCH, AND 15-INCH.

1907.											
Great Lakes and Middle West	1	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
1908.											
Great Lakes and Middle West	1	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
1909.											
Great Lakes and Middle West	1	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
1910.											
Eastern	1	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Pittsburgh	2	7	61.7	3	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	1	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
Total	4	15	64.0	3	.....	.....	4	.....	8	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 13-INCH, 14-INCH, AND 15-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.											
Eastern	1	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Pittsburgh	2	7	61.7	3	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	1	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
Total	4	15	64.0	3	.....	.....	4	.....	8	.....	.....
1912.											
Eastern	1	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Pittsburgh	2	7	61.7	3	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West	1	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
Total	4	15	64.0	3	.....	.....	4	.....	8	.....	.....

FINISHERS: 16-INCH.

1907.											
Eastern	1	2	57.5	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	1	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
Total	2	8	62.8	.....	.....	2	.....	6	.....	.....	.....
1908.											
Eastern	1	2	57.5	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	1	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
Total	2	8	62.8	.....	.....	2	.....	6	.....	.....	.....
1909.											
Eastern	1	2	57.5	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	1	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
Total	2	8	62.8	.....	.....	2	.....	6	.....	.....	.....
1910.											
Eastern	1	3	57.5	.....	.....	3	.....	.....	.....	.....	.....
Pittsburgh	2	8	64.4	.....	.....	.....	1	7	.....	.....	.....
Total	3	11	62.5	.....	.....	3	1	7	.....	.....	.....
1911.											
Eastern	1	2	57.5	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	2	9	64.9	.....	.....	.....	.....	9	.....	.....	.....
Great Lakes and Middle West	1	8	57.8	.....	4	.....	.....	4	.....	.....	.....
Total	4	19	61.1	.....	4	2	.....	13	.....	.....	.....
1912.											
Eastern	1	2	57.5	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh	2	10	64.4	.....	.....	.....	.....	10	.....	.....	.....
Great Lakes and Middle West	1	8	57.8	.....	4	.....	.....	4	.....	.....	.....
Total	4	20	61.1	.....	4	2	.....	14	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 18-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Great Lakes and Middle West...	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
1908.											
Great Lakes and Middle West...	1	2	62.8	.....	.....	.....	1	1	.....	.....	.....
1909.											
Great Lakes and Middle West...	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
1910.											
Eastern.....	2	3	61.3	.....	.....	.....	2	1	.....	.....	.....
Great Lakes and Middle West...	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total.....	3	5	61.9	.....	.....	.....	2	3	.....	.....	.....
1911.											
Eastern.....	2	3	59.3	.....	.....	1	2	.....	.....	.....	.....
Great Lakes and Middle West...	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total.....	3	5	60.7	.....	.....	1	2	2	.....	.....	.....
1912.											
Eastern.....	2	4	57.0	.....	2	.....	2	.....	.....	.....	.....
Great Lakes and Middle West...	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total.....	3	6	58.9	.....	2	.....	2	2	.....	.....	.....

FINISHERS: ALL SIZES.

1907.											
Eastern.....	1	6	58.7	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh.....	4	29	67.9	.....	.....	.....	4	11	14	.....	.....
Great Lakes and Middle West...	5	30	65.5	.....	1	1	5	20	3	.....	.....
Total.....	10	65	65.9	.....	1	7	9	31	17	.....	.....
1908.											
Eastern.....	1	6	58.7	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh.....	4	28	68.2	.....	.....	.....	2	12	14	.....	.....
Great Lakes and Middle West...	5	29	66.2	.....	2	.....	5	19	3	.....	.....
Total.....	10	63	66.4	.....	2	6	7	31	17	.....	.....
1909.											
Eastern.....	1	6	58.7	.....	.....	6	.....	.....	.....	.....	.....
Pittsburgh.....	4	28	67.9	.....	.....	.....	2	23	3	.....	.....
Great Lakes and Middle West...	5	29	66.2	.....	2	.....	4	20	3	.....	.....
Total.....	10	63	66.2	.....	2	6	6	43	6	.....	.....
1910.											
Eastern.....	4	16	62.6	.....	1	5	4	2	4	.....	.....
Pittsburgh.....	8	66	63.3	15	.....	.....	2	39	10	.....	.....
Great Lakes and Middle West...	5	29	66.2	.....	2	.....	4	20	3	.....	.....
Total.....	17	111	64.0	15	3	5	10	61	17	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: ALL SIZES—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1911.											
Eastern	5	18	60.4	.....	5	7	2	.....	4	.....	.....
Pittsburgh	8	66	62.6	15	4	2	2	30	13	.....	.....
Great Lakes and Middle West	6	37	64.4	.....	6	.....	4	24	3	.....	.....
Total	19	121	62.8	15	15	9	8	54	20	.....	.....
1912.											
Eastern	5	21	59.2	.....	10	5	2	.....	4	.....	.....
Pittsburgh	8	68	62.5	15	4	2	3	31	13	.....	.....
Great Lakes and Middle West	6	37	64.4	.....	6	.....	4	24	3	.....	.....
Total	19	126	62.5	15	20	7	9	55	20	.....	.....

HOOK UPS: 12-INCH.

1907.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	2	14	68.6	.....	.....	.....	.....	6	8	.....	.....
Great Lakes and Middle West	3	33	63.3	9	.....	.....	.....	8	16	.....	.....
Total	6	49	64.8	9	.....	.....	.....	16	24	.....	.....
1908.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	2	12	70.7	.....	.....	.....	.....	4	8	.....	.....
Great Lakes and Middle West	3	23	68.6	3	.....	.....	.....	.....	20	.....	.....
Total	6	37	69.1	3	.....	.....	.....	6	28	.....	.....
1909.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	2	12	70.3	.....	.....	.....	.....	12	.....	.....	.....
Great Lakes and Middle West	3	23	68.6	3	.....	.....	.....	.....	20	.....	.....
Total	6	37	68.9	3	.....	.....	.....	14	20	.....	.....
1910.											
Eastern	5	10	59.5	.....	4	.....	2	4	.....	.....	.....
Pittsburgh	5	38	58.9	18	.....	.....	.....	16	4	.....	.....
Great Lakes and Middle West	3	21	71.6	.....	.....	.....	.....	3	18	.....	.....
Total	13	69	62.8	18	4	.....	2	23	22	.....	.....
1911.											
Eastern	5	9	59.3	.....	3	2	.....	4	.....	.....	.....
Pittsburgh	5	30	60.9	12	1	.....	.....	13	4	.....	.....
Great Lakes and Middle West	3	14	71.6	.....	.....	.....	.....	2	12	.....	.....
Total	13	53	63.4	12	4	2	.....	19	16	.....	.....
1912.											
Eastern	5	11	57.6	.....	7	.....	.....	4	.....	.....	.....
Pittsburgh	5	32	60.6	12	.....	2	.....	14	4	.....	.....
Great Lakes and Middle West	3	13	71.5	.....	.....	.....	.....	2	11	.....	.....
Total	13	56	62.5	12	7	2	.....	20	15	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOOK UPS: 13-INCH, 14-INCH, AND 15-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Great Lakes and Middle West...	1	8	60.0	.....	.....	.....	8	.....	.....	.....	.....
1908.											
Great Lakes and Middle West...	1	14	60.0	.....	.....	.....	14	.....	.....	.....	.....
1909.											
Great Lakes and Middle West...	1	8	60.0	.....	.....	.....	8	.....	.....	.....	.....
1910.											
Eastern	1	13	72.0	.....	.....	.....	.....	.....	13	.....	.....
Pittsburgh	2	17	59.3	9	.....	.....	.....	.....	8	.....	.....
Great Lakes and Middle West...	2	20	63.2	.....	.....	.....	12	8	.....	.....	.....
Total	5	50	64.2	9	.....	.....	12	8	21	.....	.....
1911.											
Eastern	1	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Pittsburgh	2	17	59.3	9	.....	.....	.....	.....	8	.....	.....
Great Lakes and Middle West...	2	16	63.5	.....	.....	.....	9	7	.....	.....	.....
Total	5	45	64.2	9	.....	.....	9	7	20	.....	.....
1912.											
Eastern	1	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Pittsburgh	2	17	59.3	9	.....	.....	.....	.....	8	.....	.....
Great Lakes and Middle West...	2	22	62.9	.....	.....	.....	14	8	.....	.....	.....
Total	5	51	63.8	9	.....	.....	14	8	20	.....	.....

HOOK UPS: 16-INCH.

1907.											
Eastern	2	10	63.1	.....	.....	2	.....	8	.....	.....	.....
Pittsburgh	3	16	64.4	.....	.....	.....	.....	16	.....	.....	.....
Total	5	26	63.9	.....	.....	2	.....	24	.....	.....	.....
1908.											
Eastern	2	10	63.1	.....	.....	2	.....	8	.....	.....	.....
Pittsburgh	3	13	65.5	.....	.....	.....	.....	13	.....	.....	.....
Total	5	23	64.4	.....	.....	2	.....	21	.....	.....	.....
1909.											
Eastern	2	10	63.1	.....	.....	2	.....	8	.....	.....	.....
Pittsburgh	3	17	65.6	.....	.....	.....	.....	17	.....	.....	.....
Total	5	27	64.7	.....	.....	2	.....	25	.....	.....	.....
1910.											
Eastern	2	10	63.1	.....	.....	2	.....	8	.....	.....	.....
Pittsburgh	3	25	64.5	.....	.....	.....	.....	25	.....	.....	.....
Total	5	35	64.1	.....	.....	2	.....	33	.....	.....	.....
1911.											
Eastern	2	10	63.1	.....	.....	2	.....	8	.....	.....	.....
Pittsburgh	3	15	65.3	.....	.....	.....	.....	15	.....	.....	.....
Great Lakes and Middle West...	1	10	57.2	.....	6	.....	.....	4	.....	.....	.....
Total	6	35	62.4	.....	6	2	.....	27	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOOK UPS: 16-INCH—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees, whose full-time hours per week were—						
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1912.											
Eastern	2	6	62.2	.....	.....	2	.....	4	.....	.....	.....
Pittsburgh	3	18	64.4	.....	.....	.....	.....	18	.....	.....	.....
Great Lakes and Middle West	1	12	56.8	.....	8	.....	.....	4	.....	.....	.....
Total	6	36	61.5	.....	8	2	.....	26	.....	.....	.....

HOOK UPS: 18-INCH.

1907.											
Eastern	1	1	57.5	.....	.....	1	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	8	62.8	.....	.....	.....	.....	8	.....	.....	.....
Total	2	9	62.2	.....	.....	1	.....	8	.....	.....	.....
1908.											
Eastern	1	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	8	62.8	.....	.....	.....	.....	8	.....	.....	.....
Total	2	10	61.0	.....	2	.....	.....	8	.....	.....	.....
1909.											
Eastern	1	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
Great Lakes and Middle West	1	8	62.8	.....	.....	.....	.....	8	.....	.....	.....
Total	2	10	61.0	.....	2	.....	.....	8	.....	.....	.....
1910.											
Eastern	4	13	59.2	.....	4	.....	6	3	.....	.....	.....
Great Lakes and Middle West	1	7	62.8	.....	.....	.....	.....	7	.....	.....	.....
Total	5	20	60.4	.....	4	.....	6	10	.....	.....	.....
1911.											
Eastern	4	13	59.2	.....	4	3	.....	6	.....	.....	.....
Great Lakes and Middle West	1	8	62.8	.....	.....	.....	.....	8	.....	.....	.....
Total	5	21	60.5	.....	4	3	.....	14	.....	.....	.....
1912.											
Eastern	4	16	57.5	.....	10	.....	.....	6	.....	.....	.....
Great Lakes and Middle West	1	8	62.8	.....	.....	.....	.....	8	.....	.....	.....
Total	5	24	59.2	.....	10	.....	.....	14	.....	.....	.....

HOOK UPS: ALL SIZES.

1907.											
Eastern	3	13	62.9	.....	.....	3	.....	10	.....	.....	.....
Pittsburgh	4	30	66.4	.....	.....	.....	.....	22	8	.....	.....
Great Lakes and Middle West	5	49	62.7	9	.....	.....	8	16	16	.....	.....
Total	12	92	63.9	9	.....	3	8	48	24	.....	.....
1908.											
Eastern	3	14	62.0	.....	2	2	.....	10	.....	.....	.....
Pittsburgh	4	25	68.0	.....	.....	.....	.....	17	8	.....	.....
Great Lakes and Middle West	5	45	64.9	3	.....	.....	14	8	20	.....	.....
Total	12	84	65.3	3	2	2	14	35	28	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOOK UPS: ALL SIZES—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1909.											
Eastern	3	14	62.0	.....	2	2	.....	10	.....	.....	.....
Pittsburgh	4	29	67.6	.....	.....	.....	.....	29	.....	.....	.....
Great Lakes and Middle West	5	39	65.6	3	.....	.....	8	8	20	.....	.....
Total	12	82	65.7	3	2	2	8	47	20	.....	.....
1910.											
Eastern	7	46	63.7	.....	8	2	8	15	13	.....	.....
Pittsburgh	7	80	60.7	27	.....	.....	.....	41	12	.....	.....
Great Lakes and Middle West	6	48	66.8	.....	.....	.....	12	18	18	.....	.....
Total	20	174	63.2	27	8	2	20	74	43	.....	.....
1911.											
Eastern	7	44	63.6	.....	7	7	.....	18	12	.....	.....
Pittsburgh	7	62	61.5	21	1	.....	.....	28	12	.....	.....
Great Lakes and Middle West	7	48	64.4	.....	6	.....	9	21	12	.....	.....
Total	21	154	63.0	21	14	7	9	67	36	.....	.....
1912.											
Eastern	7	45	62.0	.....	17	2	.....	14	12	.....	.....
Pittsburgh	7	67	61.3	21	.....	2	.....	32	12	.....	.....
Great Lakes and Middle West	7	55	63.6	.....	8	.....	14	22	11	.....	.....
Total	21	167	62.2	21	25	4	14	68	35	.....	.....
ROLL HANDS, OTHER: 8-INCH.											
1907.											
Pittsburgh	4	16	64.3	.....	2	2	1	7	4	.....	.....
Great Lakes and Middle West	1	4	68.0	.....	.....	.....	.....	4	.....	.....	.....
Total	5	20	65.1	.....	2	2	1	11	4	.....	.....
1908.											
Pittsburgh	4	16	64.3	.....	2	2	1	7	4	.....	.....
Great Lakes and Middle West	1	4	69.0	.....	.....	.....	.....	4	.....	.....	.....
Total	5	20	65.3	.....	2	2	1	11	4	.....	.....
1909.											
Pittsburgh	4	16	64.1	.....	2	2	1	11	.....	.....	.....
Great Lakes and Middle West	1	4	69.0	.....	.....	.....	.....	4	.....	.....	.....
Total	5	20	65.1	.....	2	2	1	15	.....	.....	.....
1910.											
Eastern	2	5	56.4	.....	2	3	.....	.....	.....	.....	.....
Pittsburgh	6	24	60.1	6	1	4	1	12	.....	.....	.....
Great Lakes and Middle West	1	4	69.0	.....	.....	.....	.....	4	.....	.....	.....
Total	9	33	60.6	6	3	7	1	16	.....	.....	.....
1911.											
Eastern	2	5	54.3	.....	2	3	.....	.....	.....	.....	.....
Pittsburgh	6	24	59.7	6	1	6	1	10	.....	.....	.....
Great Lakes and Middle West	1	4	69.0	.....	.....	.....	.....	4	.....	.....	.....
Total	9	33	60.0	6	3	9	1	14	.....	.....	.....
1912.											
Eastern	2	5	54.3	.....	2	3	.....	.....	.....	.....	.....
Pittsburgh	6	24	59.7	6	2	4	1	11	.....	.....	.....
Great Lakes and Middle West	1	4	69.0	.....	.....	.....	.....	4	.....	.....	.....
Total	9	33	60.0	6	4	7	1	15	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: 9-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Pittsburgh	1	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	2	16	58.9	6	.....	.....	.....	10	.....	.....	.....
Total	3	18	59.7	6	.....	.....	.....	12	.....	.....	.....
1908.											
Pittsburgh	1	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	2	16	59.7	6	.....	.....	.....	10	.....	.....	.....
Total	3	18	60.4	6	.....	.....	.....	12	.....	.....	.....
1909.											
Pittsburgh	1	2	65.5	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	2	16	59.7	6	.....	.....	.....	10	.....	.....	.....
Total	3	18	60.3	6	.....	.....	.....	12	.....	.....	.....
1910.											
Eastern	1	2	60.0	.....	.....	.....	2	.....	.....	.....	.....
Pittsburgh	3	17	53.1	12	.....	.....	.....	5	.....	.....	.....
Great Lakes and Middle West	2	16	59.7	6	.....	.....	.....	10	.....	.....	.....
Total	6	35	56.5	18	.....	.....	2	15	.....	.....	.....
1911.											
Eastern	1	1	63.0	.....	.....	.....	.....	1	.....	.....	.....
Pittsburgh	3	18	52.5	12	2	.....	.....	4	.....	.....	.....
Great Lakes and Middle West	2	16	59.7	6	.....	.....	.....	10	.....	.....	.....
Total	6	35	56.1	18	2	.....	.....	15	.....	.....	.....
1912.											
Eastern	1	2	63.0	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	3	18	52.5	12	2	.....	.....	4	.....	.....	.....
Great Lakes and Middle West	2	16	59.7	6	.....	.....	.....	10	.....	.....	.....
Total	6	36	56.3	18	2	.....	.....	16	.....	.....	.....

ROLL HANDS, OTHER: 10-INCH.

1907.											
Pittsburgh	4	29	70.4	.....	.....	.....	2	5	22	.....	.....
1908.											
Pittsburgh	4	29	70.4	.....	.....	.....	2	5	22	.....	.....
1909.											
Pittsburgh	4	29	70.0	.....	.....	.....	2	27	.....	.....	.....
1910.											
Eastern	1	4	52.5	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	6	35	69.6	.....	.....	.....	1	32	2	.....	.....
Total	7	39	67.8	.....	4	.....	1	32	2	.....	.....
1911.											
Eastern	1	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	6	35	68.9	.....	2	.....	2	29	2	.....	.....
Total	7	39	66.8	.....	6	.....	2	29	2	.....	.....
1912.											
Eastern	1	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh	6	35	68.9	.....	2	.....	2	29	2	.....	.....
Total	7	39	66.8	.....	6	.....	2	29	2	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: 12-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	1	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	2	4	68.0	.....	.....	.....	.....	2	2	.....	.....
Great Lakes and Middle West	1	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
Total	4	24	70.1	.....	.....	.....	.....	6	18	.....	.....
1908.											
Eastern	1	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	2	3	70.7	.....	.....	.....	.....	1	2	.....	.....
Great Lakes and Middle West	1	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
Total	4	21	70.4	.....	.....	.....	.....	5	16	.....	.....
1909.											
Eastern	1	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
Pittsburgh	2	3	70.3	.....	.....	.....	.....	3	.....	.....	.....
Great Lakes and Middle West	1	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
Total	4	21	70.3	.....	.....	.....	.....	7	14	.....	.....
1910.											
Eastern	2	6	61.3	.....	2	.....	.....	4	.....	.....	.....
Pittsburgh	5	11	63.3	3	.....	.....	.....	5	3	.....	.....
Great Lakes and Middle West	2	16	71.6	.....	.....	.....	.....	2	14	.....	.....
Total	9	33	67.0	3	2	.....	.....	11	17	.....	.....
1911.											
Eastern	2	5	62.6	.....	1	.....	.....	4	.....	.....	.....
Pittsburgh	5	9	62.7	3	.....	.....	.....	4	2	.....	.....
Great Lakes and Middle West	2	18	71.7	.....	.....	.....	.....	2	16	.....	.....
Total	9	32	67.7	3	1	.....	.....	10	18	.....	.....
1912.											
Eastern	2	5	62.6	.....	1	.....	.....	4	.....	.....	.....
Pittsburgh	5	10	62.4	3	.....	.....	.....	5	2	.....	.....
Great Lakes and Middle West	2	18	71.7	.....	.....	.....	.....	2	16	.....	.....
Total	9	33	67.5	3	1	.....	.....	11	18	.....	.....

ROLL HANDS, OTHER: 13-INCH, 14-INCH, AND 15-INCH.

1910.											
Eastern	1	5	72.0	.....	.....	.....	.....	.....	5	.....	.....
Pittsburgh	2	24	60.0	12	.....	.....	.....	.....	12	.....	.....
Total	3	29	62.1	12	.....	.....	.....	.....	17	.....	.....
1911.											
Eastern	1	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Pittsburgh	2	24	60.0	12	.....	.....	.....	.....	12	.....	.....
Total	3	28	61.7	12	.....	.....	.....	.....	16	.....	.....
1912.											
Eastern	1	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Pittsburgh	2	21	61.7	9	.....	.....	.....	.....	12	.....	.....
Total	3	25	63.4	9	.....	.....	.....	.....	16	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: 16-INCH.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	64.5	.....	.....	.....	1	1	.....	.....	.....
Total	2	4	64.5	.....	.....	.....	1	3	.....	.....	.....
1908.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	64.5	.....	.....	.....	1	1	.....	.....	.....
Total	2	4	64.5	.....	.....	.....	1	3	.....	.....	.....
1909.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	64.5	.....	.....	.....	1	1	.....	.....	.....
Total	2	4	64.5	.....	.....	.....	1	3	.....	.....	.....
1910.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	64.5	.....	.....	.....	1	1	.....	.....	.....
Total	2	4	64.5	.....	.....	.....	1	3	.....	.....	.....
1911.											
Eastern	1	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh	1	2	64.5	.....	.....	.....	1	1	.....	.....	.....
Total	2	4	64.5	.....	.....	.....	1	3	.....	.....	.....
1912.											
Eastern	1	1	64.5	.....	.....	.....	.....	1	.....	.....	.....
Pittsburgh	1	2	64.5	.....	.....	.....	1	1	.....	.....	.....
Total	2	3	64.5	.....	.....	.....	1	2	.....	.....	.....

ROLL HANDS, OTHER: 18-INCH.

1907.											
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
1908.											
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
1909.											
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
1910.											
Eastern	3	5	58.8	.....	2	.....	2	1	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total	4	7	59.9	.....	2	.....	2	3	.....	.....	.....
1911.											
Eastern	3	4	59.8	.....	1	1	.....	2	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total	4	6	60.8	.....	1	1	.....	4	.....	.....	.....
1912.											
Eastern	3	5	57.8	.....	3	.....	.....	2	.....	.....	.....
Great Lakes and Middle West	1	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
Total	4	7	59.2	.....	3	.....	.....	4	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: ALL SIZES.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	1	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
Pittsburgh	5	53	68.0	.....	2	2	4	17	28	.....	.....
Great Lakes and Middle West	3	38	65.6	6	.....	.....	.....	16	16	.....	.....
Total	9	97	66.8	6	2	2	4	39	44	.....	.....
1908.											
Eastern	1	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
Pittsburgh	5	52	68.2	.....	2	2	4	16	28	.....	.....
Great Lakes and Middle West	3	36	65.7	6	.....	.....	.....	16	14	.....	.....
Total	9	94	67.0	6	2	2	4	38	42	.....	.....
1909.											
Eastern	1	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
Pittsburgh	5	52	67.8	.....	2	2	4	44	.....	.....	.....
Great Lakes and Middle West	3	36	65.7	6	.....	.....	.....	16	14	.....	.....
Total	9	94	66.8	6	2	2	4	66	14	.....	.....
1910.											
Eastern	6	29	60.8	.....	10	3	4	7	5	.....	.....
Pittsburgh	9	113	62.3	33	1	4	3	55	17	.....	.....
Great Lakes and Middle West	3	38	65.8	6	.....	.....	.....	18	14	.....	.....
Total	18	180	62.8	39	11	7	7	80	36	.....	.....
1911.											
Eastern	6	25	59.9	.....	8	4	.....	9	4	.....	.....
Pittsburgh	9	112	61.8	33	5	6	4	48	16	.....	.....
Great Lakes and Middle West	3	40	66.2	6	.....	.....	.....	18	16	.....	.....
Total	18	177	62.5	39	13	10	4	75	36	.....	.....
1912.											
Eastern	6	26	59.5	.....	10	3	.....	9	4	.....	.....
Pittsburgh	9	110	62.2	30	6	4	4	50	16	.....	.....
Great Lakes and Middle West	3	40	66.2	6	.....	.....	.....	18	16	.....	.....
Total	18	176	62.7	36	16	7	4	77	36	.....	.....

HOTBED MEN.

1907.											
Eastern	3	46	59.8	.....	.....	34	.....	12	.....	.....	.....
Pittsburgh	6	144	64.2	12	.....	20	.....	68	44	.....	.....
Great Lakes and Middle West	6	112	63.7	.....	8	.....	42	50	12	.....	.....
Total	15	302	63.3	12	8	54	42	130	56	.....	.....
1908.											
Eastern	3	48	59.4	.....	4	32	.....	12	.....	.....	.....
Pittsburgh	6	132	64.4	12	.....	20	.....	56	44	.....	.....
Great Lakes and Middle West	6	119	63.5	.....	8	.....	57	36	18	.....	.....
Total	15	299	63.2	12	12	52	57	104	62	.....	.....
1909.											
Eastern	3	48	59.4	.....	4	32	.....	12	.....	.....	.....
Pittsburgh	6	138	64.4	12	.....	20	.....	106	.....	.....	.....
Great Lakes and Middle West	6	100	63.7	.....	8	.....	42	36	14	.....	.....
Total	15	286	63.3	12	12	52	42	154	14	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOTBED MEN—Concluded.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1910.											
Eastern	8	108	60.3	.....	24	28	24	19	13	.....	.....
Pittsburgh	10	244	62.0	57	.....	20	.....	141	26	.....	.....
Great Lakes and Middle West	7	148	66.4	.....	8	.....	47	56	20	17	.....
Total	25	500	62.9	57	32	48	71	216	59	17	.....
1911.											
Eastern	8	95	59.0	.....	22	39	.....	28	6	.....	.....
Pittsburgh	10	226	61.6	54	9	24	.....	119	20	.....	.....
Great Lakes and Middle West	8	129	64.5	.....	14	.....	29	70	16	.....	.....
Total	26	450	61.9	54	45	63	29	217	42	.....	.....
1912.											
Eastern	8	109	58.4	.....	38	36	.....	29	6	.....	.....
Pittsburgh	10	232	61.5	54	9	24	.....	125	20	.....	.....
Great Lakes and Middle West	8	120	65.1	.....	14	.....	25	55	26	.....	.....
Total	26	461	61.7	54	61	60	25	209	52	.....	.....

SHEARMEN.

1907.											
Eastern	3	16	60.3	.....	.....	8	4	4	.....	.....	.....
Pittsburgh	6	36	67.5	.....	.....	.....	3	20	13	.....	.....
Great Lakes and Middle West	6	42	64.3	.....	6	.....	8	24	4	.....	.....
Total	15	94	64.8	.....	6	8	15	48	17	.....	.....
1908.											
Eastern	3	18	60.3	.....	.....	8	6	4	.....	.....	.....
Pittsburgh	6	33	68.2	.....	.....	.....	2	18	13	.....	.....
Great Lakes and Middle West	6	41	64.8	.....	6	.....	9	20	6	.....	.....
Total	15	92	65.1	.....	6	8	17	42	19	.....	.....
1909.											
Eastern	3	18	60.3	.....	.....	8	6	4	.....	.....	.....
Pittsburgh	6	34	67.8	.....	.....	.....	2	31	1	.....	.....
Great Lakes and Middle West	6	41	65.4	.....	6	.....	9	20	2	4	.....
Total	15	93	65.3	.....	6	8	17	55	3	4	.....
1910.											
Eastern	8	38	59.0	.....	12	7	12	5	2	.....	.....
Pittsburgh	10	71	63.5	15	.....	.....	1	47	8	.....	.....
Great Lakes and Middle West	7	47	66.4	.....	6	.....	9	20	6	6	.....
Total	25	156	63.3	15	18	7	22	72	16	6	.....
1911.											
Eastern	8	37	58.8	.....	10	8	7	10	2	.....	.....
Pittsburgh	10	67	62.5	15	.....	10	2	32	8	.....	.....
Great Lakes and Middle West	7	47	65.2	.....	6	.....	9	26	6	.....	.....
Total	25	151	62.5	15	16	18	18	68	16	.....	.....
1912.											
Eastern	8	39	58.5	.....	12	9	7	9	2	.....	.....
Pittsburgh	10	70	62.5	15	.....	10	3	34	8	.....	.....
Great Lakes and Middle West	7	45	65.7	.....	6	.....	9	20	8	2	.....
Total	25	154	62.4	15	18	19	19	63	18	2	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

SHEARMEN'S HELPERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	3	35	63.0	.....	.....	4	7	24	.....	.....	.....
Pittsburgh	6	75	66.5	.....	.....	.....	.....	65	8	2	.....
Great Lakes and Middle West	6	91	66.5	.....	8	.....	14	36	33	.....	.....
Total	15	201	65.9	.....	8	4	21	125	41	2	.....
1908.											
Eastern	3	40	62.6	.....	.....	4	12	24	.....	.....	.....
Pittsburgh	6	65	68.2	.....	.....	.....	.....	49	10	6	.....
Great Lakes and Middle West	6	67	66.4	.....	8	.....	10	28	19	2	.....
Total	15	172	66.2	.....	8	4	22	101	29	8	.....
1909.											
Eastern	3	40	62.6	.....	.....	4	12	24	.....	.....	.....
Pittsburgh	6	73	70.0	.....	.....	.....	.....	58	.....	15	.....
Great Lakes and Middle West	6	72	67.1	.....	8	.....	14	28	8	14	.....
Total	15	185	67.3	.....	8	4	26	110	8	29	.....
1910.											
Eastern	6	62	65.0	.....	.....	3	24	21	14	.....	.....
Pittsburgh	10	204	63.0	45	.....	.....	.....	121	38	.....	.....
Great Lakes and Middle West	7	89	68.5	.....	8	.....	19	16	25	21	.....
Total	23	355	64.7	45	8	3	43	158	77	21	.....
1911.											
Eastern	6	58	63.8	.....	.....	6	12	40	.....	.....	.....
Pittsburgh	10	194	62.6	48	.....	14	1	95	36	.....	.....
Great Lakes and Middle West	7	107	66.1	.....	8	.....	24	46	29	.....	.....
Total	23	359	63.8	48	8	20	37	181	65	.....	.....
1912.											
Eastern	6	55	63.0	.....	4	6	12	33	.....	.....	.....
Pittsburgh	10	206	62.6	48	.....	14	1	105	38	.....	.....
Great Lakes and Middle West	7	97	67.3	.....	8	.....	22	28	27	12	.....
Total	23	358	63.9	48	12	20	35	166	65	12	.....

BUNDLERS.

1907.											
Pittsburgh	5	41	66.9	.....	.....	.....	.....	31	10	.....	.....
1908.											
Pittsburgh	5	41	66.9	.....	.....	.....	.....	31	10	.....	.....
1909.											
Pittsburgh	5	41	66.8	.....	.....	.....	.....	41	.....	.....	.....
1910.											
Pittsburgh	6	77	66.1	.....	.....	.....	.....	77	.....	.....	.....
1911.											
Pittsburgh	7	131	62.0	.....	.....	86	.....	45	.....	.....	.....
1912.											
Pittsburgh	7	132	62.0	.....	.....	86	.....	46	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE V.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY DISTRICTS, 1907 TO 1912—Concluded.

BAR MILLS—Continued.

LABORERS.

Year and district.	Number of plants.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
1907.											
Eastern	2	26	60.0	.....	.....	.....	26	.....	.....	.....	.....
Pittsburgh	5	218	69.6	.....	.....	1	23	95	74	24	1
Great Lakes and Middle West	3	52	67.1	.....	.....	.....	2	45	.....	.....	5
Total	10	296	68.3	.....	.....	1	51	140	74	24	6
1908.											
Eastern	2	37	60.0	.....	.....	.....	37	.....	.....	.....	.....
Pittsburgh	5	136	65.1	.....	.....	2	55	61	18	.....	.....
Great Lakes and Middle West	3	54	67.4	.....	.....	.....	2	47	.....	.....	5
Total	10	227	64.8	.....	.....	2	94	108	18	.....	5
1909.											
Eastern	2	39	60.0	.....	.....	.....	39	.....	.....	.....	.....
Pittsburgh	5	216	69.7	.....	.....	1	23	90	88	9	5
Great Lakes and Middle West	3	69	66.4	.....	.....	1	14	47	.....	4	3
Total	10	324	67.8	.....	.....	2	76	137	88	13	8
1910.											
Eastern	3	95	60.0	.....	.....	.....	95	.....	.....	.....	.....
Pittsburgh	8	265	70.7	.....	.....	.....	31	36	183	4	[1] 11
Great Lakes and Middle West	4	151	67.6	.....	.....	9	23	92	.....	20	7
Total	15	511	67.8	.....	.....	9	149	128	183	24	[1] 18
1911.											
Eastern	4	109	58.6	.....	31	.....	78	.....	.....	.....	.....
Pittsburgh	8	192	68.6	.....	.....	2	24	97	65	4	.....
Great Lakes and Middle West	5	89	67.2	.....	.....	1	2	78	6	.....	2
Total	17	390	65.5	.....	31	3	104	175	71	4	2
1912.											
Eastern	4	97	58.3	.....	18	38	41	.....	.....	.....	.....
Pittsburgh	8	213	68.7	.....	.....	2	26	107	72	5	1
Great Lakes and Middle West	5	114	67.2	.....	.....	1	2	97	12	.....	2
Total	17	424	65.9	.....	18	41	69	204	84	5	3

[1] Including 4 employees whose full-time hours per week were 84½, and 2 employees whose full-time hours per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912.

BAR MILLS—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

STOCKERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—						
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
2 plants	1907	16	62.3	.....	.....	.....	8	8	.....	.....	.....
	1908	16	62.3	.....	.....	.....	8	8	.....	.....	.....
	1909	16	62.3	.....	.....	.....	8	8	.....	.....	.....
	1910	16	62.8	.....	.....	.....	7	9	.....	.....	.....
6 plants	1910	72	57.6	.....	34	.....	7	26	5	.....	.....
	1911	65	59.1	.....	18	13	20	10	4	.....	.....
	1912	71	59.1	.....	22	4	35	6	4	.....	.....
Pittsburgh:											
2 plants	1907	22	69.6	.....	.....	.....	.....	10	8	4	.....
	1908	20	68.3	.....	.....	.....	.....	10	10	.....	.....
	1909	20	68.0	.....	.....	.....	.....	20	.....	.....	.....
	1910	20	68.0	.....	.....	.....	.....	20	.....	.....	.....
3 plants	1910	47	56.5	27	.....	.....	.....	20	.....	.....	.....
	1911	46	56.3	27	.....	.....	.....	19	.....	.....	.....
5 plants	1911	93	61.0	27	.....	.....	24	21	21	.....	.....
	1912	92	61.0	27	.....	.....	24	20	21	.....	.....
Great Lakes and Middle West:											
4 plants	1907	55	62.9	.....	8	.....	.....	47	.....	.....	.....
	1908	54	63.1	.....	10	.....	.....	41	3	.....	.....
	1909	52	63.4	.....	8	.....	.....	41	3	.....	.....
	1910	51	63.3	.....	8	.....	.....	40	3	.....	.....
	1911	53	62.9	.....	10	.....	.....	41	2	.....	.....
	1912	54	63.1	.....	10	.....	.....	41	3	.....	.....

HEATERS.

Eastern:											
3 plants	1907	22	62.1	.....	.....	4	.....	18	.....	.....	.....
	1908	26	60.2	.....	8	.....	.....	18	.....	.....	.....
	1909	26	60.2	.....	8	.....	.....	18	.....	.....	.....
	1910	27	60.2	.....	8	.....	.....	19	.....	.....	.....
8 plants	1910	65	60.7	.....	17	.....	16	28	4	.....	.....
	1911	57	61.9	.....	14	.....	.....	39	4	.....	.....
	1912	65	61.2	.....	.....	25	.....	36	4	.....	.....
Pittsburgh:											
6 plants	1907	61	64.6	3	.....	4	1	41	12	.....	.....
	1908	53	65.3	3	.....	4	.....	34	12	.....	.....
	1909	53	65.5	3	.....	4	.....	44	.....	2	.....
	1910	79	65.0	3	.....	4	.....	68	.....	4	.....
10 plants	1910	114	63.3	18	.....	4	.....	80	8	4	.....
	1911	88	62.3	18	6	4	.....	50	8	2	.....
	1912	94	62.0	18	6	4	.....	56	8	2	.....
Great Lakes and Middle West:											
6 plants	1907	38	63.7	.....	6	2	2	26	.....	.....	2
	1908	33	64.5	.....	6	2	2	16	5	.....	2
	1909	33	64.5	.....	6	2	2	16	5	.....	2
	1910	36	65.5	.....	8	.....	.....	16	10	.....	2
7 plants	1910	38	65.7	.....	8	.....	.....	18	10	.....	2
	1911	35	64.7	.....	6	2	2	18	5	.....	2
8 plants	1911	39	64.9	.....	6	2	2	22	5	.....	2
	1912	40	65.1	.....	6	2	2	22	6	.....	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HEATERS' HELPERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
3 plants	1907	32	62.5	.....	.....	8	.....	24	.....	.....	.....
	1908	36	61.1	.....	8	4	.....	24	.....	.....	.....
	1909	36	61.1	.....	8	4	.....	24	.....	.....	.....
	1910	38	61.1	.....	8	4	.....	26	.....	.....	.....
8 plants	1910	90	62.1	.....	15	4	19	44	8	.....	.....
	1911	81	62.4	.....	16	2	3	52	8	.....	.....
	1912	104	61.1	.....	18	36	2	40	8	.....	.....
Pittsburgh:											
5 plants	1907	89	66.8	3	.....	4	.....	54	22	6	.....
	1908	73	67.3	3	.....	4	.....	36	26	4	.....
	1909	73	67.2	3	.....	4	.....	62	.....	4	.....
	1910	83	67.0	3	.....	4	.....	72	.....	.....	4
9 plants	1910	154	62.0	48	.....	4	.....	78	20	.....	4
	1911	150	61.6	48	2	10	.....	66	20	4	.....
	1912	155	61.7	45	3	8	.....	77	20	2	.....
Great Lakes and Middle West:											
6 plants	1907	46	64.2	.....	8	.....	4	30	4	.....	.....
	1908	44	64.6	.....	8	.....	4	26	6	.....	.....
	1909	42	64.5	.....	8	.....	4	26	2	2	.....
	1910	45	65.3	.....	8	.....	4	26	3	4	.....
7 plants	1910	51	65.6	.....	8	.....	4	32	3	4	.....
	1911	50	65.5	.....	8	.....	4	32	2	4	.....
8 plants	1911	62	65.8	.....	8	.....	4	44	2	4	.....
	1912	60	65.5	.....	8	.....	4	44	2	2	.....

CHARGERS AND HELPERS.

Eastern:											
1 plant	1907	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
	1908	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
	1909	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
	1910	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
3 plants	1910	16	59.9	.....	4	.....	8	4	.....	.....	.....
	1911	16	61.7	.....	3	.....	1	12	.....	.....	.....
	1912	15	61.2	.....	3	.....	2	10	.....	.....	.....
Pittsburgh:											
6 plants	1907	58	66.6	.....	.....	4	1	39	12	2	.....
	1908	56	66.5	.....	.....	4	1	35	16	.....	.....
	1909	57	66.6	.....	.....	4	.....	48	.....	5	.....
	1910	58	67.1	.....	.....	4	.....	54	.....	.....	.....
9 plants	1910	105	65.9	12	.....	4	.....	64	25	.....	.....
	1911	105	65.1	12	2	10	.....	56	25	.....	.....
	1912	103	65.5	9	4	6	.....	59	25	.....	.....
Great Lakes and Middle West:											
5 plants	1907	42	64.1	.....	6	.....	4	28	4	.....	.....
	1908	42	64.5	.....	6	.....	4	28	4	.....	.....
	1909	46	65.2	.....	6	.....	4	28	8	.....	.....
	1910	48	65.4	.....	6	.....	4	28	10	.....	.....
6 plants	1910	58	65.9	.....	6	.....	4	38	10	.....	.....
	1911	56	66.1	.....	6	.....	4	38	8	.....	.....
7 plants	1911	64	65.0	.....	10	.....	4	42	8	.....	.....
	1912	64	65.0	.....	10	.....	4	42	8	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

DRAG DOWNS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
3 plants	1907	16	61.4	.....	.....	8	.....	8	.....	.....	.....
	1908	20	59.2	.....	8	4	.....	8	.....	.....	.....
	1909	20	59.2	.....	8	4	.....	8	.....	.....	.....
	1910	20	59.2	.....	8	4	.....	8	.....	.....	.....
7 plants	1910	35	61.1	.....	12	4	4	9	6	.....	.....
	1911	32	61.6	.....	11	3	.....	12	6	.....	.....
	1912	33	60.9	.....	13	4	.....	10	6	.....	.....
Pittsburgh:											
5 plants	1907	48	67.6	.....	.....	.....	.....	30	16	2	.....
	1908	43	68.0	.....	.....	.....	.....	27	16	.....	.....
	1909	44	68.1	.....	.....	.....	.....	42	.....	2	.....
	1910	50	67.7	.....	.....	.....	.....	46	.....	4	.....
8 plants	1910	76	68.2	.....	.....	.....	.....	56	16	4	.....
	1911	70	67.7	.....	4	2	.....	46	16	2	.....
	1912	72	67.4	.....	4	2	.....	48	16	2	.....
Great Lakes and Middle West:											
3 plants	1907	22	59.7	.....	8	.....	.....	14	.....	.....	.....
	1908	19	59.6	.....	8	.....	.....	8	3	.....	.....
	1909	19	59.6	.....	8	.....	.....	8	3	.....	.....
	1910	19	59.6	.....	8	.....	.....	8	3	.....	.....
4 plants	1910	21	60.4	.....	8	.....	.....	10	3	.....	.....
	1911	21	60.4	.....	8	.....	.....	10	3	.....	.....
5 plants	1911	25	60.0	.....	10	.....	.....	12	3	.....	.....
	1912	25	60.0	.....	10	.....	.....	12	3	.....	.....

ROLL ENGINEERS.

Eastern:											
2 plants	1907	5	72.0	.....	.....	.....	.....	.....	5	.....	.....
	1908	6	70.0	.....	.....	.....	.....	2	4	.....	.....
	1909	6	70.0	.....	.....	.....	.....	2	4	.....	.....
	1910	6	70.0	.....	.....	.....	.....	2	4	.....	.....
6 plants	1910	19	71.6	.....	.....	.....	3	6	6	.....	4
	1911	17	69.0	.....	.....	.....	3	4	8	2	.....
	1912	18	66.7	.....	4	.....	1	4	7	2	.....
Pittsburgh:											
6 plants	1907	31	73.8	.....	.....	.....	.....	15	.....	14	2
	1908	30	71.6	.....	.....	.....	.....	14	4	12	.....
	1909	30	71.8	.....	.....	.....	.....	16	.....	14	.....
	1910	32	71.5	.....	.....	.....	.....	18	.....	14	.....
10 plants	1910	58	72.1	.....	.....	.....	.....	20	20	18	.....
	1911	56	70.2	.....	.....	.....	.....	36	4	16	.....
	1912	57	70.3	.....	.....	.....	.....	35	4	18	.....
Great Lakes and Middle West:											
5 plants	1907	22	70.3	.....	.....	.....	.....	16	.....	4	2
	1908	20	71.6	.....	.....	.....	.....	12	2	4	2
	1909	20	71.6	.....	.....	.....	.....	12	2	4	2
	1910	20	72.5	.....	.....	.....	.....	12	.....	5	3
6 plants	1910	22	72.1	.....	.....	.....	.....	14	.....	5	3
	1911	22	71.8	.....	.....	.....	.....	14	1	5	2
	1912	22	72.1	.....	.....	.....	.....	12	1	7	2

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 8-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
1 plant	1907	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1908	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1910	1	59.3	.....	.....	1	.....	.....	.....	.....	.....
3 plants	1910	4	55.8	.....	2	2	.....	.....	.....	.....	.....
	1911	5	54.8	.....	2	3	.....	.....	.....	.....	.....
	1912	5	54.8	.....	2	3	.....	.....	.....	.....	.....
Pittsburgh:											
4 plants	1907	10	63.7	.....	2	.....	2	4	1	1	.....
	1908	10	63.7	.....	2	.....	2	4	1	1	.....
	1909	10	63.5	.....	2	.....	2	5	1	.....	.....
	1910	10	63.5	.....	2	.....	2	6	.....	.....	.....
6 plants	1910	20	59.2	6	2	.....	2	10	.....	.....	.....
	1911	20	58.1	6	4	.....	2	7	1	.....	.....
	1912	20	58.1	6	4	.....	2	7	1	.....	.....
Great Lakes and Middle West:											
2 plants	1907	4	61.0	.....	1	1	.....	2	.....	.....	.....
	1908	4	61.5	.....	1	1	.....	2	.....	.....	.....
	1909	4	61.5	.....	1	1	.....	2	.....	.....	.....
	1910	4	61.5	.....	2	.....	.....	2	.....	.....	.....
	1911	4	61.5	.....	1	1	.....	2	.....	.....	.....
	1912	4	61.5	.....	1	1	.....	2	.....	.....	.....

ROLLERS: 9-INCH.

Eastern:											
2 plants	1910	5	59.0	.....	1	.....	4	.....	.....	.....	.....
	1911	4	61.5	.....	.....	.....	2	2	.....	.....	.....
	1912	5	61.2	.....	.....	.....	3	2	.....	.....	.....
Pittsburgh:											
3 plants	1907	4	67.5	.....	.....	.....	1	2	1	.....	.....
	1908	4	67.5	.....	.....	.....	1	2	1	.....	.....
	1909	4	66.0	.....	.....	.....	1	3	.....	.....	.....
	1910	5	65.8	.....	.....	.....	1	4	.....	.....	.....
6 plants	1910	12	62.3	3	.....	.....	1	6	2	.....	.....
	1911	11	61.5	3	1	.....	1	4	2	.....	.....
	1912	11	61.0	3	1	.....	1	4	2	.....	.....
Great Lakes and Middle West:											
3 plants	1907	8	66.3	.....	.....	.....	2	5	1	.....	.....
	1908	7	67.8	.....	.....	.....	1	5	1	.....	.....
	1909	7	67.8	.....	.....	.....	1	5	1	.....	.....
	1910	7	67.8	.....	.....	.....	.....	6	1	.....	.....
	1911	7	67.8	.....	.....	.....	1	5	1	.....	.....
	1912	7	67.8	.....	.....	.....	1	5	1	.....	.....

ROLLERS: 10-INCH.

Eastern:											
1 plant	1907	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1908	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1910	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
1 plant	1910	4	52.5	.....	4	.....	.....	.....	.....	.....	.....
	1911	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
	1912	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh:											
4 plants	1907	10	68.9	.....	.....	.....	2	4	2	2	.....
	1908	10	68.9	.....	.....	.....	2	4	2	2	.....
	1909	10	68.6	.....	.....	.....	2	5	3	.....	.....
	1910	10	68.6	.....	.....	.....	2	7	1	.....	.....
6 plants	1910	14	68.6	.....	.....	.....	2	9	3	.....	.....
	1911	14	67.8	.....	1	.....	2	6	5	.....	.....
	1912	14	67.8	.....	1	.....	2	6	5	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 12-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
1 plant	1907	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
4 plants	1910	7	60.4	.....	2	.....	2	3	.....	.....	.....
	1911	6	63.0	.....	.....	1	.....	5	.....	.....	.....
	1912	7	61.1	.....	1	1	.....	5	.....	.....	.....
Pittsburgh:											
3 plants	1907	7	68.7	.....	.....	.....	1	2	4	.....	.....
	1908	6	71.0	.....	.....	.....	.....	2	4	.....	.....
	1909	6	70.7	.....	.....	.....	.....	4	2	.....	.....
	1910	8	68.0	.....	.....	.....	1	5	2	.....	.....
6 plants	1910	15	64.1	3	.....	.....	1	7	4	.....	.....
	1911	13	63.5	3	1	.....	.....	5	4	.....	.....
	1912	14	63.6	3	1	.....	1	5	4	.....	.....
Great Lakes and Middle West:											
3 plants	1907	6	68.7	.....	.....	.....	1	2	3	.....	.....
	1908	5	70.8	.....	.....	.....	.....	2	3	.....	.....
	1909	5	70.8	.....	.....	.....	.....	2	3	.....	.....
	1910	5	70.8	.....	.....	.....	.....	2	3	.....	.....
	1911	5	70.8	.....	.....	.....	.....	2	3	.....	.....
	1912	5	70.8	.....	.....	.....	.....	2	3	.....	.....

ROLLERS: 13-INCH, 14-INCH, AND 15-INCH.

Pittsburgh:											
2 plants	1910	5	57.6	3	.....	.....	.....	.....	2	.....	.....
	1911	5	57.6	3	.....	.....	.....	.....	2	.....	.....
	1912	5	57.6	3	.....	.....	.....	.....	2	.....	.....
Great Lakes and Middle West:											
1 plant	1910	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	68.0	.....	.....	.....	.....	2	.....	.....	.....

ROLLERS: 16-INCH.

Eastern:											
2 plants	1907	4	61.0	.....	.....	2	.....	2	.....	.....	.....
	1908	4	61.0	.....	.....	2	.....	2	.....	.....	.....
	1909	4	61.0	.....	.....	2	.....	2	.....	.....	.....
	1910	5	60.3	.....	.....	3	.....	2	.....	.....	.....
	1911	4	61.0	.....	.....	2	.....	2	.....	.....	.....
	1912	3	59.8	.....	.....	2	.....	1	.....	.....	.....
Pittsburgh:											
2 plants	1907	3	66.3	.....	.....	.....	1	2	.....	.....	.....
	1908	3	66.3	.....	.....	.....	1	2	.....	.....	.....
	1909	3	66.3	.....	.....	.....	1	2	.....	.....	.....
	1910	4	64.8	.....	.....	.....	1	3	.....	.....	.....
3 plants	1910	6	64.5	.....	.....	.....	2	4	.....	.....	.....
	1911	4	66.8	.....	.....	.....	1	3	.....	.....	.....
	1912	5	65.4	.....	.....	.....	2	3	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1911	4	60.5	.....	2	.....	.....	2	.....	.....	.....
	1912	4	60.5	.....	2	.....	.....	2	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLLERS: 18-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
1 plant	1907	1	57.5	.....	.....	1	.....	.....	.....	.....	.....
	1908	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
	1909	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
	1910	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
4 plants	1910	7	60.2	.....	2	.....	2	3	.....	.....	.....
	1911	6	59.4	.....	2	1	.....	3	.....	.....	.....
	1912	7	58.1	.....	4	.....	.....	3	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1907	2	62.8	.....	.....	.....	1	1	.....	.....	.....
	1908	2	62.8	.....	.....	.....	1	1	.....	.....	.....
	1909	2	62.8	.....	.....	.....	1	1	.....	.....	.....
	1910	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	62.8	.....	.....	.....	1	1	.....	.....	.....
	1912	2	62.8	.....	.....	.....	1	1	.....	.....	.....

ROLLERS: ALL SIZES.

Eastern:											
3 plants	1907	11	60.7	.....	.....	7	.....	4	.....	.....	.....
	1908	12	59.8	.....	2	6	.....	4	.....	.....	.....
	1909	12	59.8	.....	2	6	.....	4	.....	.....	.....
	1910	12	59.6	.....	2	6	.....	4	.....	.....	.....
7 plants	1910	32	58.6	.....	11	5	8	8	.....	.....	.....
	1911	29	58.4	.....	8	7	2	12	.....	.....	.....
	1912	31	57.7	.....	11	6	3	11	.....	.....	.....
Pittsburgh:											
6 plants	1907	34	66.9	.....	2	.....	7	14	8	3	.....
	1908	33	67.3	.....	2	.....	6	14	8	3	.....
	1909	33	66.9	.....	2	.....	6	19	6	.....	.....
	1910	37	66.3	.....	2	.....	7	25	3	.....	.....
10 plants	1910	72	62.9	15	2	.....	8	36	11	.....	.....
	1911	67	62.2	15	7	.....	6	25	14	.....	.....
	1912	69	62.1	15	7	.....	8	25	14	.....	.....
Great Lakes and Middle West:											
4 plants	1907	20	65.6	.....	1	1	4	10	4	.....	.....
	1908	18	66.7	.....	1	1	2	10	4	.....	.....
	1909	18	66.7	.....	1	1	2	10	4	.....	.....
	1910	18	66.7	.....	2	.....	.....	12	4	.....	.....
5 plants	1910	20	66.8	.....	2	.....	.....	14	4	.....	.....
	1911	20	66.8	.....	1	1	2	12	4	.....	.....
6 plants	1911	24	65.8	.....	3	1	2	14	4	.....	.....
	1912	24	65.8	.....	3	1	2	14	4	.....	.....

ROUGHERS: 8-INCH.

Eastern:											
1 plant	1907	6	59.3	.....	.....	6	.....	.....	.....	.....	.....
	1908	6	59.3	.....	.....	6	.....	.....	.....	.....	.....
	1909	6	59.3	.....	.....	6	.....	.....	.....	.....	.....
	1910	3	59.3	.....	.....	3	.....	.....	.....	.....	.....
3 plants	1910	10	56.5	.....	4	6	.....	.....	.....	.....	.....
	1911	13	55.7	.....	4	9	.....	.....	.....	.....	.....
	1912	13	55.7	.....	4	9	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 8-INCH—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
4 plants	1907	24	65.7	.....	1	2	.....	15	6	.....	.....
	1908	24	65.7	.....	1	2	.....	15	6	.....	.....
	1909	24	65.4	.....	1	2	.....	21	.....	.....	.....
	1910	24	65.4	.....	1	2	.....	21	.....	.....	.....
6 plants	1910	60	58.4	24	1	2	.....	33	.....	.....	.....
	1911	54	56.5	24	7	2	.....	21	.....	.....	.....
	1912	54	56.5	24	7	2	.....	21	.....	.....	.....
Great Lakes and Middle West:											
2 plants	1907	14	54.3	.....	14	.....	.....	.....	.....	.....	.....
	1908	14	54.3	.....	14	.....	.....	.....	.....	.....	.....
	1909	14	54.3	.....	14	.....	.....	.....	.....	.....	.....
	1910	14	54.3	.....	14	.....	.....	.....	.....	.....	.....
	1911	14	54.3	.....	14	.....	.....	.....	.....	.....	.....
	1912	12	54.3	.....	12	.....	.....	.....	.....	.....	.....

ROUGHERS: 9-INCH.

Eastern:											
2 plants	1910	12	59.2	.....	2	.....	10	.....	.....	.....	.....
	1911	12	59.0	.....	6	.....	.....	6	.....	.....	.....
	1912	15	58.2	.....	9	.....	.....	6	.....	.....	.....
Pittsburgh:											
3 plants	1907	14	66.3	.....	.....	.....	.....	14	.....	.....	.....
	1908	13	66.2	.....	.....	.....	.....	13	.....	.....	.....
	1909	13	65.9	.....	.....	.....	.....	13	.....	.....	.....
	1910	16	66.3	.....	.....	.....	.....	16	.....	.....	.....
6 plants	1910	34	63.9	6	.....	.....	.....	22	6	.....	.....
	1911	31	62.4	6	3	.....	.....	16	6	.....	.....
	1912	29	62.2	6	3	.....	.....	14	6	.....	.....
Great Lakes and Middle West:											
4 plants	1907	44	53.1	22	8	.....	.....	14	.....	.....	.....
	1908	41	58.6	12	8	.....	.....	17	4	.....	.....
	1909	41	53.6	21	8	.....	.....	8	4	.....	.....
	1910	42	53.4	22	8	.....	.....	8	4	.....	.....
	1911	40	53.1	21	8	.....	.....	8	3	.....	.....
	1912	40	53.1	21	8	.....	.....	8	3	.....	.....

ROUGHERS: 10-INCH.

Eastern:											
1 plant	1907	8	59.3	.....	.....	8	.....	.....	.....	.....	.....
	1908	8	59.3	.....	.....	8	.....	.....	.....	.....	.....
	1909	8	59.3	.....	.....	8	.....	.....	.....	.....	.....
	1910	9	59.3	.....	.....	9	.....	.....	.....	.....	.....
1 plant	1910	8	52.5	.....	8	.....	.....	.....	.....	.....	.....
	1911	8	48.8	.....	8	.....	.....	.....	.....	.....	.....
	1912	8	48.8	.....	8	.....	.....	.....	.....	.....	.....
Pittsburgh:											
4 plants	1907	25	66.1	3	.....	.....	.....	8	14	.....	.....
	1908	29	66.9	3	.....	.....	.....	8	18	.....	.....
	1909	29	66.6	3	.....	.....	.....	26	.....	.....	.....
	1910	29	66.6	3	.....	.....	.....	26	.....	.....	.....
6 plants	1910	43	67.0	3	.....	.....	.....	34	6	.....	.....
	1911	43	66.0	3	4	.....	.....	30	6	.....	.....
	1912	43	66.0	3	4	.....	.....	30	6	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 12-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
2 plants	1907	9	62.2	.....	.....	3	.....	6	.....	.....	.....
	1908	12	59.1	.....	6	.....	.....	6	.....	.....	.....
	1909	12	59.1	.....	6	.....	.....	6	.....	.....	.....
	1910	12	59.1	.....	6	.....	.....	6	.....	.....	.....
5 plants	1910	29	58.3	.....	16	.....	4	9	.....	.....	.....
	1911	24	59.4	.....	9	3	.....	12	.....	.....	.....
	1912	27	58.4	.....	15	.....	.....	12	.....	.....	.....
Pittsburgh:											
3 plants	1907	26	69.1	.....	.....	.....	.....	10	16	.....	.....
	1908	24	70.2	.....	.....	.....	.....	8	16	.....	.....
	1909	24	69.8	.....	.....	.....	.....	24	.....	.....	.....
	1910	26	68.8	.....	.....	.....	.....	26	.....	.....	.....
6 plants	1910	40	66.0	6	.....	.....	.....	28	6	.....	.....
	1911	38	66.2	6	1	.....	.....	25	6	.....	.....
	1912	40	65.7	6	1	.....	.....	27	6	.....	.....
Great Lakes and Middle West:											
3 plants	1907	27	60.9	9	.....	.....	.....	10	8	.....	.....
	1908	19	59.7	9	.....	.....	.....	.....	10	.....	.....
	1909	18	70.7	.....	.....	.....	.....	8	10	.....	.....
	1910	20	70.8	.....	.....	.....	.....	8	12	.....	.....
	1911	19	70.7	.....	.....	.....	.....	8	11	.....	.....
	1912	18	70.7	.....	.....	.....	.....	8	10	.....	.....

ROUGHERS: 13-INCH, 14-INCH, AND 15-INCH.

Eastern:											
1 plant	1910	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
	1911	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
	1912	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Pittsburgh:											
2 plants	1910	16	54.0	12	.....	.....	.....	.....	4	.....	.....
	1911	16	54.0	12	.....	.....	.....	.....	4	.....	.....
	1912	16	54.0	12	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West:											
1 plant	1907	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
	1908	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
	1909	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
	1910	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
2 plants	1910	30	64.8	.....	.....	.....	12	18	.....	.....	.....
	1911	28	64.6	.....	.....	.....	12	16	.....	.....	.....
	1912	29	64.7	.....	.....	.....	12	17	.....	.....	.....

ROUGHERS: 16-INCH.

Eastern:											
2 plants	1907	14	60.5	.....	.....	8	.....	6	.....	.....	.....
	1908	14	60.5	.....	.....	8	.....	6	.....	.....	.....
	1909	14	60.5	.....	.....	8	.....	6	.....	.....	.....
	1910	20	59.6	.....	.....	14	.....	6	.....	.....	.....
	1911	14	60.5	.....	.....	8	.....	6	.....	.....	.....
	1912	10	58.9	.....	.....	8	.....	2	.....	.....	.....
Pittsburgh:											
3 plants	1907	22	64.5	.....	.....	.....	.....	22	.....	.....	.....
	1908	18	65.1	.....	.....	.....	.....	18	.....	.....	.....
	1909	20	65.4	.....	.....	.....	.....	20	.....	.....	.....
	1910	22	64.5	.....	.....	.....	.....	22	.....	.....	.....
	1911	20	65.4	.....	.....	.....	.....	20	.....	.....	.....
	1912	22	64.5	.....	.....	.....	.....	22	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1911	8	57.8	.....	4	.....	.....	4	.....	.....	.....
	1912	8	57.8	.....	4	.....	.....	4	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROUGHERS: 18-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
1 plant	1907	1	57.5	.....	.....	1	.....	.....	.....	.....	.....
	1908	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
	1909	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
	1910	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
4 plants	1910	17	58.2	.....	8	.....	6	3	.....	.....	.....
	1911	13	59.2	.....	4	3	.....	6	.....	.....	.....
	1912	16	57.5	.....	10	.....	.....	6	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1907	6	62.8	.....	.....	.....	.....	6	.....	.....	.....
	1908	6	62.8	.....	.....	.....	.....	6	.....	.....	.....
	1909	6	62.8	.....	.....	.....	.....	6	.....	.....	.....
	1910	6	62.8	.....	.....	.....	.....	6	.....	.....	.....
	1911	6	62.8	.....	.....	.....	.....	6	.....	.....	.....
	1912	6	62.8	.....	.....	.....	.....	6	.....	.....	.....

ROUGHERS: ALL SIZES.

Eastern:											
3 plants	1907	38	60.4	.....	.....	26	.....	12	.....	.....	.....
	1908	42	59.4	.....	8	22	.....	12	.....	.....	.....
	1909	42	59.4	.....	8	22	.....	12	.....	.....	.....
	1910	46	59.1	.....	8	26	.....	12	.....	.....	.....
8 plants	1910	98	58.3	.....	38	20	20	18	2	.....	.....
	1911	86	58.3	.....	31	23	.....	30	2	.....	.....
	1912	91	57.3	.....	46	17	.....	26	2	.....	.....
Pittsburgh:											
6 plants	1907	111	66.4	3	1	2	.....	69	36	.....	.....
	1908	108	67.0	3	1	2	.....	62	40	.....	.....
	1909	110	66.7	3	1	2	.....	104	.....	.....	.....
	1910	117	66.4	3	1	2	.....	111	.....	.....	.....
10 plants	1910	215	62.7	51	1	2	.....	139	22	.....	.....
	1911	202	61.9	51	15	2	.....	112	22	.....	.....
	1912	204	61.8	51	15	2	.....	114	22	.....	.....
Great Lakes and Middle West:											
6 plants	1907	103	56.7	31	22	.....	12	30	8	.....	.....
	1908	92	58.6	21	22	.....	12	23	14	.....	.....
	1909	91	58.5	21	22	.....	12	22	14	.....	.....
	1910	94	58.7	22	22	.....	12	22	16	.....	.....
7 plants	1910	112	60.2	22	22	.....	12	40	16	.....	.....
	1911	107	59.9	21	22	.....	12	38	14	.....	.....
8 plants	1911	115	59.8	21	26	.....	12	42	14	.....	.....
	1912	113	59.8	21	24	.....	12	43	13	.....	.....

CATCHERS: 8-INCH.

Eastern:											
1 plant	1907	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1908	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1910	1	59.3	.....	.....	1	.....	.....	.....	.....	.....
3 plants	1910	4	55.8	.....	2	2	.....	.....	.....	.....	.....
	1911	5	54.8	.....	2	3	.....	.....	.....	.....	.....
	1912	5	54.8	.....	2	3	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 8-INCH—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
1 plant	1907	8	58.0	.....	.....	8	.....	.....	.....	.....	.....
	1908	8	58.0	.....	.....	8	.....	.....	.....	.....	.....
	1909	8	58.0	.....	.....	8	.....	.....	.....	.....	.....
	1910	8	58.0	.....	.....	8	.....	.....	.....	.....	.....
2 plants	1910	14	53.7	6	.....	8	.....	.....	.....	.....	.....
	1911	14	53.7	6	.....	8	.....	.....	.....	.....	.....
	1912	14	53.7	6	.....	8	.....	.....	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1907	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
	1908	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
	1909	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
	1910	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
	1911	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
	1912	6	54.5	.....	6	.....	.....	.....	.....	.....	.....

CATCHERS: 9-INCH.

Eastern:											
1 plant	1910	2	60.0	.....	.....	.....	2	.....	.....	.....	.....
	1911	2	63.0	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	63.0	.....	.....	.....	.....	2	.....	.....	.....
Pittsburgh:											
1 plant	1907	4	65.0	.....	.....	.....	.....	4	.....	.....	.....
	1908	4	65.0	.....	.....	.....	.....	4	.....	.....	.....
	1909	4	65.0	.....	.....	.....	.....	4	.....	.....	.....
	1910	4	65.0	.....	.....	.....	.....	4	.....	.....	.....
2 plants	1910	7	57.7	3	.....	.....	.....	4	.....	.....	.....
	1911	7	57.7	3	.....	.....	.....	4	.....	.....	.....
	1912	5	54.8	3	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1907	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
	1908	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
	1909	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
	1910	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
	1911	8	54.5	.....	8	.....	.....	.....	.....	.....	.....
	1912	8	54.5	.....	8	.....	.....	.....	.....	.....	.....

CATCHERS: 10-INCH.

Eastern:											
1 plant	1910	4	52.5	.....	4	.....	.....	.....	.....	.....	.....
	1911	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
	1912	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh:											
1 plant	1907	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
	1908	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
	1909	10	71.5	.....	.....	.....	.....	10	.....	.....	.....
	1910	10	71.5	.....	.....	.....	.....	10	.....	.....	.....
2 plants	1910	12	71.6	.....	.....	.....	.....	10	2	.....	.....
	1911	12	71.6	.....	.....	.....	.....	10	2	.....	.....
	1912	12	71.6	.....	.....	.....	.....	10	2	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: 12-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
2 plants	1907	6	62.2	.....	.....	2	.....	4	.....	.....	.....
	1908	8	59.1	.....	4	.....	.....	4	.....	.....	.....
	1909	8	59.1	.....	4	.....	.....	4	.....	.....	.....
	1910	8	59.1	.....	4	.....	.....	4	.....	.....	.....
4 plants	1910	11	59.7	.....	4	.....	2	5	.....	.....	.....
	1911	11	59.7	.....	4	1	.....	6	.....	.....	.....
	1912	12	58.9	.....	6	.....	.....	6	.....	.....	.....
Pittsburgh:											
3 plants	1907	10	67.6	.....	.....	.....	.....	6	4	.....	.....
	1908	9	68.4	.....	.....	.....	.....	5	4	.....	.....
	1909	9	68.2	.....	.....	.....	.....	9	.....	.....	.....
	1910	10	67.4	.....	.....	.....	.....	10	.....	.....	.....
6 plants	1910	17	64.2	3	.....	.....	.....	12	2	.....	.....
	1911	16	63.8	3	1	.....	.....	10	2	.....	.....
	1912	17	63.6	3	1	.....	.....	11	2	.....	.....

CATCHERS: 13-INCH, 14-INCH AND 15-INCH.

Eastern:											
1 plant	1910	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
	1911	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
	1912	2	72.0	.....	.....	.....	.....	.....	2	.....	.....
Pittsburgh:											
2 plants	1910	5	57.6	3	.....	.....	.....	.....	2	.....	.....
	1911	5	57.6	3	.....	.....	.....	.....	2	.....	.....
	1912	5	57.6	3	.....	.....	.....	.....	2	.....	.....

CATCHERS: 16-INCH.

Eastern:											
1 plant	1907	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1912	1	64.5	.....	.....	.....	.....	1	.....	.....	.....
Pittsburgh:											
3 plants	1907	8	64.5	.....	.....	.....	1	7	.....	.....	.....
	1908	7	65.1	.....	.....	.....	.....	7	.....	.....	.....
	1909	7	65.1	.....	.....	.....	.....	7	.....	.....	.....
	1910	10	64.6	.....	.....	.....	.....	10	.....	.....	.....
	1911	7	65.1	.....	.....	.....	.....	7	.....	.....	.....
	1912	8	64.5	.....	.....	.....	.....	8	.....	.....	.....

CATCHERS: 18-INCH.

Eastern:											
1 plant	1907	1	57.5	.....	.....	1	.....	.....	.....	.....	.....
	1908	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
	1909	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
	1910	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
4 plants	1910	7	57.4	.....	4	.....	2	1	.....	.....	.....
	1911	6	57.8	.....	3	1	.....	2	.....	.....	.....
	1912	7	56.6	.....	5	.....	.....	2	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1907	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	62.8	.....	.....	.....	.....	2	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

CATCHERS: ALL SIZES.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
3 plants	1907	11	61.6	.....	.....	5	.....	6	.....	.....	.....
	1908	14	59.1	.....	6	2	.....	6	.....	.....	.....
	1909	14	59.1	.....	6	2	.....	6	.....	.....	.....
	1910	13	59.1	.....	6	1	.....	6	.....	.....	.....
8 plants	1910	32	58.9	.....	14	2	6	8	2	.....	.....
	1911	32	58.5	.....	13	5	.....	12	2	.....	.....
	1912	33	57.8	.....	17	3	.....	11	2	.....	.....
Pittsburgh:											
6 plants	1907	40	65.9	.....	.....	8	1	17	14	.....	.....
	1908	38	66.2	.....	.....	8	.....	16	14	.....	.....
	1909	38	66.0	.....	.....	8	.....	30	.....	.....	.....
	1910	42	65.7	.....	.....	8	.....	34	.....	.....	.....
10 plants	1910	65	62.2	15	.....	8	.....	36	6	.....	.....
	1911	61	62.0	15	1	8	.....	31	6	.....	.....
	1912	61	61.8	15	1	8	.....	31	6	.....	.....
Great Lakes and Middle West:											
2 plants	1907	18	55.4	.....	16	.....	.....	2	.....	.....	.....
	1908	18	55.4	.....	16	.....	.....	2	.....	.....	.....
	1909	18	55.4	.....	16	.....	.....	2	.....	.....	.....
	1910	18	55.4	.....	16	.....	.....	2	.....	.....	.....
	1911	18	55.4	.....	16	.....	.....	2	.....	.....	.....
	1912	16	55.5	.....	14	.....	.....	2	.....	.....	.....

STRANDERS: 8-INCH.

Eastern:											
1 plant	1907	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
	1908	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
	1909	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
	1910	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
3 plants	1910	5	56.5	.....	2	3	.....	.....	.....	.....	.....
	1911	7	56.1	.....	2	5	.....	.....	.....	.....	.....
	1912	7	56.1	.....	2	5	.....	.....	.....	.....	.....
Pittsburgh:											
4 plants	1907	40	63.5	.....	.....	16	.....	16	8	.....	.....
	1908	40	63.5	.....	.....	16	.....	16	8	.....	.....
	1909	40	63.4	.....	.....	16	.....	24	.....	.....	.....
	1910	40	63.4	.....	.....	16	.....	24	.....	.....	.....
6 plants	1910	58	62.1	6	.....	16	.....	36	.....	.....	.....
	1911	54	60.7	6	4	20	.....	24	.....	.....	.....
	1912	54	60.7	6	6	16	.....	26	.....	.....	.....
Great Lakes and Middle West:											
2 plants	1907	12	61.0	.....	6	.....	.....	6	.....	.....	.....
	1908	12	61.5	.....	6	.....	.....	6	.....	.....	.....
	1909	12	61.5	.....	6	.....	.....	6	.....	.....	.....
	1910	12	61.5	.....	6	.....	.....	6	.....	.....	.....
	1911	12	61.5	.....	6	.....	.....	6	.....	.....	.....
	1912	12	61.5	.....	6	.....	.....	6	.....	.....	.....

STRANDERS: 9-INCH.

Eastern:											
2 plants	1910	13	58.8	.....	3	.....	10	.....	.....	.....	.....
	1911	10	58.2	.....	6	.....	.....	4	.....	.....	.....
	1912	13	57.5	.....	9	.....	.....	4	.....	.....	.....
Pittsburgh:											
3 plants	1907	11	65.5	.....	.....	.....	.....	11	.....	.....	.....
	1908	11	65.5	.....	.....	.....	.....	11	.....	.....	.....
	1909	11	65.4	.....	.....	.....	.....	11	.....	.....	.....
	1910	11	65.4	.....	.....	.....	.....	11	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 9-INCH—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh—Concluded.											
5 plants	1910	23	67.0	.....	.....	.....	.....	17	6	.....	.....
	1911	24	65.7	.....	3	.....	.....	15	6	.....	.....
	1912	20	65.8	.....	3	.....	.....	11	6	.....	.....
Great Lakes and Middle West:											
3 plants	1907	30	52.9	18	.....	.....	.....	12	.....	.....	.....
	1908	28	52.8	18	.....	.....	.....	8	2	.....	.....
	1909	28	52.8	18	.....	.....	.....	8	2	.....	.....
	1910	28	52.8	18	.....	.....	.....	8	2	.....	.....
	1911	28	52.8	18	.....	.....	.....	8	2	.....	.....
	1912	28	52.8	18	.....	.....	.....	8	2	.....	.....
STRANDERS: 10-INCH.											
Eastern:											
1 plant	1907	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
	1908	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
	1909	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
	1910	4	59.3	.....	.....	4	.....	.....	.....	.....	.....
1 plant	1910	4	52.5	.....	4	.....	.....	.....	.....	.....	.....
	1911	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
	1912	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh:											
4 plants	1907	39	54.7	21	.....	.....	.....	8	10	.....	.....
	1908	39	54.7	21	.....	.....	.....	8	10	.....	.....
	1909	39	54.5	21	.....	.....	.....	18	.....	.....	.....
	1910	39	54.5	21	.....	.....	.....	18	.....	.....	.....
6 plants	1910	53	58.1	21	.....	.....	.....	26	6	.....	.....
	1911	53	57.3	21	4	.....	.....	22	6	.....	.....
	1912	53	57.3	21	4	.....	.....	22	6	.....	.....
STRANDERS: 12-INCH.											
Eastern:											
1 plant	1907	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
4 plants	1910	15	57.5	.....	10	.....	2	3	.....	.....	.....
	1911	9	59.2	.....	4	1	.....	4	.....	.....	.....
	1912	10	58.3	.....	6	.....	.....	4	.....	.....	.....
Pittsburgh:											
1 plant	1907	3	64.0	.....	.....	.....	.....	3	.....	.....	.....
	1908	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	68.0	.....	.....	.....	.....	2	.....	.....	.....
	1910	4	64.0	.....	.....	.....	.....	4	.....	.....	.....
4 plants	1910	23	65.7	3	.....	.....	.....	10	10	.....	.....
	1911	21	64.6	3	3	.....	.....	5	10	.....	.....
	1912	23	64.2	3	.....	6	.....	4	10	.....	.....
Great Lakes and Middle West:											
1 plant	1907	8	72.0	.....	.....	.....	.....	.....	8	.....	.....
	1908	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
	1909	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
	1910	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
	1911	10	72.0	.....	.....	.....	.....	.....	10	.....	.....
	1912	10	72.0	.....	.....	.....	.....	.....	10	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

STRANDERS: 13-INCH, 14-INCH, AND 15-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Great Lakes and Middle West:											
1 plant	1907	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
	1908	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
	1909	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
	1910	26	60.0	.....	.....	.....	26	.....	.....	.....	.....
	1911	20	60.0	.....	.....	.....	20	.....	.....	.....	.....
	1912	22	60.0	.....	.....	.....	22	.....	.....	.....	.....

STRANDERS: 16-INCH.

Pittsburgh:											
1 plant	1907	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	65.0	.....	.....	.....	.....	2	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1911	8	55.0	.....	8	.....	.....	.....	.....	.....	.....
	1912	8	55.0	.....	8	.....	.....	.....	.....	.....	.....

STRANDERS: ALL SIZES.

Eastern:											
2 plants	1907	10	60.3	.....	.....	8	.....	2	.....	.....	.....
	1908	10	60.3	.....	.....	8	.....	2	.....	.....	.....
	1909	10	60.3	.....	.....	8	.....	2	.....	.....	.....
	1910	8	60.6	.....	.....	6	.....	2	.....	.....	.....
6 plants	1910	37	57.3	.....	19	3	12	3	.....	.....	.....
	1911	30	56.8	.....	16	6	.....	8	.....	.....	.....
	1912	34	56.4	.....	21	5	.....	8	.....	.....	.....
Pittsburgh:											
6 plants	1907	95	60.1	21	.....	16	.....	40	18	.....	.....
	1908	94	60.2	21	.....	16	.....	39	18	.....	.....
	1909	94	60.1	21	.....	16	.....	57	.....	.....	.....
	1910	96	60.1	21	.....	16	.....	59	.....	.....	.....
10 plants	1910	159	62.0	30	.....	16	.....	91	22	.....	.....
	1911	154	60.9	30	14	20	.....	68	22	.....	.....
	1912	152	60.8	30	13	22	.....	65	22	.....	.....
Great Lakes and Middle West:											
5 plants	1907	70	58.5	18	6	.....	20	18	8	.....	.....
	1908	70	59.1	18	6	.....	20	14	12	.....	.....
	1909	70	59.1	18	6	.....	20	14	12	.....	.....
	1910	76	59.2	18	6	.....	26	14	12	.....	.....
	1911	70	59.1	18	6	.....	20	14	12	.....	.....
6 plants	1911	78	58.7	18	14	.....	20	14	12	.....	.....
	1912	80	58.7	18	14	.....	22	14	12	.....	.....

FINISHERS: 8-INCH.

Eastern:											
1 plant	1907	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1908	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1910	1	59.3	.....	.....	1	.....	.....	.....	.....	.....
2 plants	1910	2	59.1	.....	.....	2	.....	.....	.....	.....	.....
	1911	3	58.8	.....	.....	3	.....	.....	.....	.....	.....
	1912	3	58.8	.....	.....	3	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 8-INCH—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
3 plants	1907	6	67.5	.....	.....	.....	2	1	3	.....	.....
	1908	6	67.5	.....	.....	.....	1	2	3	.....	.....
	1909	6	67.2	.....	.....	.....	1	5	.....	.....	.....
	1910	6	67.2	.....	.....	.....	.....	6	.....	.....	.....
5 plants	1910	16	59.4	6	.....	.....	.....	10	.....	.....	.....
	1911	16	58.1	6	1	2	1	6	.....	.....	.....
	1912	16	58.1	6	2	.....	1	7	.....	.....	.....
Great Lakes and Middle West:											
2 plants	1907	6	63.3	.....	1	1	.....	4	.....	.....	.....
	1908	6	64.0	.....	2	.....	.....	4	.....	.....	.....
	1909	6	64.0	.....	2	.....	.....	4	.....	.....	.....
	1910	6	64.0	.....	2	.....	.....	4	.....	.....	.....
	1911	6	64.0	.....	2	.....	.....	4	.....	.....	.....
	1912	6	64.0	.....	2	.....	.....	4	.....	.....	.....

FINISHERS: 9-INCH.

Eastern:											
1 plant	1910	3	58.3	.....	1	.....	2	.....	.....	.....	.....
	1911	2	55.0	.....	2	.....	.....	.....	.....	.....	.....
	1912	3	55.0	.....	3	.....	.....	.....	.....	.....	.....
Pittsburgh:											
2 plants	1907	3	66.7	.....	.....	.....	1	1	1	.....	.....
	1908	3	66.7	.....	.....	.....	1	1	1	.....	.....
	1909	3	66.3	.....	.....	.....	1	2	.....	.....	.....
	1910	3	66.3	.....	.....	.....	.....	3	.....	.....	.....
5 plants	1910	10	61.7	3	.....	.....	.....	5	2	.....	.....
	1911	10	60.6	3	1	.....	1	3	2	.....	.....
	1912	10	60.6	3	1	.....	1	3	2	.....	.....
Great Lakes and Middle West:											
3 plants	1907	12	66.9	.....	.....	.....	1	10	1	.....	.....
	1908	11	68.2	.....	.....	.....	.....	10	1	.....	.....
	1909	11	68.2	.....	.....	.....	.....	10	1	.....	.....
	1910	11	68.2	.....	.....	.....	.....	10	1	.....	.....
	1911	11	68.2	.....	.....	.....	.....	10	1	.....	.....
	1912	11	68.2	.....	.....	.....	.....	10	1	.....	.....

FINISHERS: 10-INCH.

Eastern:											
1 plant	1907	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1908	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
	1910	2	59.3	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh:											
3 plants	1907	8	70.1	.....	.....	.....	.....	2	6	.....	.....
	1908	8	70.1	.....	.....	.....	.....	2	6	.....	.....
	1909	8	69.8	.....	.....	.....	.....	7	1	.....	.....
	1910	8	69.8	.....	.....	.....	.....	8	.....	.....	.....
5 plants	1910	12	69.3	.....	.....	.....	.....	10	2	.....	.....
	1911	12	68.4	.....	1	.....	.....	8	3	.....	.....
	1912	12	68.4	.....	1	.....	.....	8	3	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 12-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
1 plant	1910	1	64.0	.....	.....	.....	.....	1	.....	.....	.....
	1911	1	58.0	.....	.....	1	.....	.....	.....	.....	.....
3 plants	1911	4	55.1	.....	3	1	.....	.....	.....	.....	.....
	1912	5	54.1	.....	5	.....	.....	.....	.....	.....	.....
Pittsburgh:											
2 plants	1907	6	69.3	.....	.....	.....	1	1	4	.....	.....
	1908	5	71.2	.....	.....	.....	.....	1	4	.....	.....
	1909	5	70.8	.....	.....	.....	.....	3	2	.....	.....
	1910	6	69.0	.....	.....	.....	1	5	.....	.....	.....
5 plants	1910	13	64.0	3	.....	.....	1	7	2	.....	.....
	1911	12	63.4	3	1	.....	.....	4	4	.....	.....
	1912	13	63.2	3	.....	2	1	3	4	.....	.....
Great Lakes and Middle West:											
2 plants	1907	6	69.3	.....	.....	.....	.....	4	2	.....	.....
	1908	6	70.0	.....	.....	.....	.....	4	6	.....	.....
	1909	6	70.0	.....	.....	.....	.....	4	2	.....	.....
	1910	6	70.0	.....	.....	.....	.....	4	2	.....	.....
	1911	6	70.0	.....	.....	.....	.....	4	2	.....	.....
	1912	6	70.0	.....	.....	.....	.....	4	2	.....	.....

FINISHERS: 13-INCH, 14-INCH, AND 15-INCH.

Eastern:											
1 plant	1910	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1911	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1912	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Pittsburgh:											
2 plants	1910	7	61.7	3	.....	.....	.....	.....	4	.....	.....
	1911	7	61.7	3	.....	.....	.....	.....	4	.....	.....
	1912	7	61.7	3	.....	.....	.....	.....	4	.....	.....
Great Lakes and Middle West:											
1 plant	1907	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
	1908	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
	1909	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
	1910	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
	1911	4	60.0	.....	.....	.....	4	.....	.....	.....	.....
	1912	4	60.0	.....	.....	.....	4	.....	.....	.....	.....

FINISHERS: 16-INCH.

Eastern:											
1 plant	1907	2	57.5	.....	.....	2	.....	.....	.....	.....	.....
	1908	2	57.5	.....	.....	2	.....	.....	.....	.....	.....
	1909	2	57.5	.....	.....	2	.....	.....	.....	.....	.....
	1910	3	57.5	.....	.....	3	.....	.....	.....	.....	.....
	1911	2	57.5	.....	.....	2	.....	.....	.....	.....	.....
	1912	2	57.5	.....	.....	2	.....	.....	.....	.....	.....
Pittsburgh:											
1 plant	1907	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
	1908	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
	1909	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
	1910	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
2 plants	1910	8	64.4	.....	.....	.....	1	7	.....	.....	.....
	1911	9	64.9	.....	.....	.....	.....	9	.....	.....	.....
	1912	10	64.4	.....	.....	.....	.....	10	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1911	8	57.8	.....	4	.....	.....	4	.....	.....	.....
	1912	8	57.8	.....	4	.....	.....	4	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

FINISHERS: 18-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
2 plants	1910	3	61.3	.....	.....	.....	2	1	.....	.....	.....
	1911	3	59.3	.....	.....	1	2	.....	.....	.....	.....
	1912	4	57.0	.....	2	.....	2	.....	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1907	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	62.8	.....	.....	.....	1	1	.....	.....	.....
	1909	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	62.8	.....	.....	.....	.....	2	.....	.....	.....

FINISHERS: ALL SIZES.

Eastern:											
1 plant	1907	6	58.7	.....	.....	6	.....	.....	.....	.....	.....
	1908	6	58.7	.....	.....	6	.....	.....	.....	.....	.....
	1909	6	58.7	.....	.....	6	.....	.....	.....	.....	.....
	1910	6	58.4	.....	.....	6	.....	.....	.....	.....	.....
4 plants	1910	16	62.6	.....	1	5	4	2	4	.....	.....
	1911	15	61.7	.....	2	7	2	.....	4	.....	.....
5 plants	1911	18	60.4	.....	5	7	2	.....	4	.....	.....
	1912	21	59.2	.....	10	5	2	.....	4	.....	.....
Pittsburgh:											
4 plants	1907	29	67.9	.....	.....	.....	4	11	14	.....	.....
	1908	28	68.2	.....	.....	.....	2	12	14	.....	.....
	1909	28	67.9	.....	.....	.....	2	23	3	.....	.....
	1910	29	67.6	.....	.....	.....	1	28	.....	.....	.....
8 plants	1910	66	63.3	15	.....	.....	2	39	10	.....	.....
	1911	66	62.6	15	4	2	2	30	13	.....	.....
	1912	68	62.5	15	4	2	3	31	13	.....	.....
Great Lakes and Middle West:											
5 plants	1907	30	65.5	.....	1	1	5	20	3	.....	.....
	1908	29	66.2	.....	2	.....	5	19	3	.....	.....
	1909	29	66.2	.....	2	.....	4	20	3	.....	.....
	1910	29	66.2	.....	2	.....	4	20	3	.....	.....
	1911	29	66.2	.....	2	.....	4	20	3	.....	.....
6 plants	1911	37	64.4	.....	6	.....	4	24	3	.....	.....
	1912	37	64.4	.....	6	.....	4	24	3	.....	.....

HOOK UPS: 12-INCH.

Eastern:											
1 plant	1907	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
5 plants	1910	10	59.5	.....	4	.....	2	4	.....	.....	.....
	1911	9	59.3	.....	3	2	.....	4	.....	.....	.....
	1912	11	57.6	.....	7	.....	.....	4	.....	.....	.....
Pittsburgh:											
2 plants	1907	14	68.6	.....	.....	.....	.....	6	8	.....	.....
	1908	12	70.7	.....	.....	.....	.....	4	8	.....	.....
	1909	12	70.3	.....	.....	.....	.....	12	.....	.....	.....
	1910	14	68.3	.....	.....	.....	.....	14	.....	.....	.....
5 plants	1910	38	58.9	18	.....	.....	.....	16	4	.....	.....
	1911	30	60.9	12	1	.....	.....	13	4	.....	.....
	1912	32	60.6	12	.....	2	.....	14	4	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOOK UPS: 12-INCH—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Great Lakes and Middle West:											
3 plants	1907	33	63.3	9	.....	.....	.....	8	16	.....	.....
	1908	23	68.6	3	.....	.....	.....	.....	20	.....	.....
	1909	23	68.6	3	.....	.....	.....	.....	20	.....	.....
	1910	21	71.6	.....	.....	.....	.....	3	18	.....	.....
	1911	14	71.6	.....	.....	.....	.....	2	12	.....	.....
	1912	13	71.5	.....	.....	.....	.....	2	11	.....	.....
HOOK UPS: 13-INCH, 14-INCH, AND 15-INCH.											
Eastern:											
1 plant	1910	13	72.0	.....	.....	.....	.....	.....	13	.....	.....
	1911	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
	1912	12	72.0	.....	.....	.....	.....	.....	12	.....	.....
Pittsburgh:											
2 plants	1910	17	59.3	9	.....	.....	.....	.....	8	.....	.....
	1911	17	59.3	9	.....	.....	.....	.....	8	.....	.....
	1912	17	59.3	9	.....	.....	.....	.....	8	.....	.....
Great Lakes and Middle West:											
1 plant	1907	8	60.0	.....	.....	.....	8	.....	.....	.....	.....
	1908	14	60.0	.....	.....	.....	14	.....	.....	.....	.....
	1909	8	60.0	.....	.....	.....	8	.....	.....	.....	.....
	1910	12	60.0	.....	.....	.....	12	.....	.....	.....	.....
2 plants	1910	20	63.2	.....	.....	.....	12	8	.....	.....	.....
	1911	16	63.5	.....	.....	.....	9	7	.....	.....	.....
	1912	22	62.9	.....	.....	.....	14	8	.....	.....	.....
HOOK UPS: 16-INCH.											
Eastern:											
2 plants	1907	10	63.1	.....	.....	2	.....	8	.....	.....	.....
	1908	10	63.1	.....	.....	2	.....	8	.....	.....	.....
	1909	10	63.1	.....	.....	2	.....	8	.....	.....	.....
	1910	10	63.1	.....	.....	2	.....	8	.....	.....	.....
	1911	10	63.1	.....	.....	2	.....	8	.....	.....	.....
	1912	6	62.2	.....	.....	2	.....	4	.....	.....	.....
Pittsburgh:											
3 plants	1907	16	64.4	.....	.....	.....	.....	16	.....	.....	.....
	1908	13	65.5	.....	.....	.....	.....	13	.....	.....	.....
	1909	17	65.6	.....	.....	.....	.....	17	.....	.....	.....
	1910	25	64.5	.....	.....	.....	.....	25	.....	.....	.....
	1911	15	65.3	.....	.....	.....	.....	15	.....	.....	.....
	1912	18	64.4	.....	.....	.....	.....	18	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1911	10	57.2	.....	6	.....	.....	4	.....	.....	.....
	1912	12	56.8	.....	8	.....	.....	4	.....	.....	.....
HOOK UPS: 18-INCH.											
Eastern:											
1 plant	1907	1	57.5	.....	.....	1	.....	.....	.....	.....	.....
	1908	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
	1909	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
	1910	2	53.8	.....	2	.....	.....	.....	.....	.....	.....
4 plants	1910	13	59.2	.....	4	.....	6	3	.....	.....	.....
	1911	13	59.2	.....	4	3	.....	6	.....	.....	.....
	1912	16	57.5	.....	10	.....	.....	6	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1907	8	62.8	.....	.....	.....	.....	8	.....	.....	.....
	1908	8	62.8	.....	.....	.....	.....	8	.....	.....	.....
	1909	8	62.8	.....	.....	.....	.....	8	.....	.....	.....
	1910	7	62.8	.....	.....	.....	.....	7	.....	.....	.....
	1911	8	62.8	.....	.....	.....	.....	8	.....	.....	.....
	1912	8	62.8	.....	.....	.....	.....	8	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

HOOK UPS: ALL SIZES.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
3 plants	1907	13	62.9	.....	.....	3	.....	10	.....	.....	.....
	1908	14	62.0	.....	2	2	.....	10	.....	.....	.....
	1909	14	62.0	.....	2	2	.....	10	.....	.....	.....
	1910	14	62.0	.....	2	2	.....	10	.....	.....	.....
7 plants	1910	46	63.7	.....	8	2	8	15	13	.....	.....
	1911	44	63.6	.....	7	7	.....	18	12	.....	.....
	1912	45	62.0	.....	17	2	.....	14	12	.....	.....
Pittsburgh:											
4 plants	1907	30	66.4	.....	.....	.....	.....	22	8	.....	.....
	1908	25	68.0	.....	.....	.....	.....	17	8	.....	.....
	1909	29	67.6	.....	.....	.....	.....	29	.....	.....	.....
	1910	39	65.8	.....	.....	.....	.....	39	.....	.....	.....
7 plants	1910	80	60.7	27	.....	.....	.....	41	12	.....	.....
	1911	62	61.5	21	1	.....	.....	28	12	.....	.....
	1912	67	61.3	21	.....	2	.....	32	12	.....	.....
Great Lakes and Middle West:											
5 plants	1907	49	62.7	9	.....	.....	8	16	16	.....	.....
	1908	45	64.9	3	.....	.....	14	8	20	.....	.....
	1909	39	65.6	3	.....	.....	8	8	20	.....	.....
	1910	40	66.6	.....	.....	.....	12	10	18	.....	.....
6 plants	1910	48	66.8	.....	.....	.....	12	18	18	.....	.....
	1911	38	66.3	.....	.....	.....	9	17	12	.....	.....
7 plants	1911	48	64.4	.....	6	.....	9	21	12	.....	.....
	1912	55	63.6	.....	8	.....	14	22	11	.....	.....

ROLL HANDS, OTHER: 8-INCH.

Eastern:											
2 plants	1910	5	56.4	.....	2	3	.....	.....	.....	.....	.....
	1911	5	54.3	.....	2	3	.....	.....	.....	.....	.....
	1912	5	54.3	.....	2	3	.....	.....	.....	.....	.....
Pittsburgh:											
4 plants	1907	16	64.3	.....	2	2	1	7	4	.....	.....
	1908	16	64.3	.....	2	2	1	7	4	.....	.....
	1909	16	64.1	.....	2	2	1	11	.....	.....	.....
	1910	16	64.1	.....	1	4	1	10	.....	.....	.....
6 plants	1910	24	60.1	6	1	4	1	12	.....	.....	.....
	1911	24	59.7	6	1	6	1	10	.....	.....	.....
	1912	24	59.7	6	2	4	1	11	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1907	4	68.0	.....	.....	.....	.....	4	.....	.....	.....
	1908	4	69.0	.....	.....	.....	.....	4	.....	.....	.....
	1909	4	69.0	.....	.....	.....	.....	4	.....	.....	.....
	1910	4	69.0	.....	.....	.....	.....	4	.....	.....	.....
	1911	4	69.0	.....	.....	.....	.....	4	.....	.....	.....
	1912	4	69.0	.....	.....	.....	.....	4	.....	.....	.....

ROLL HANDS, OTHER: 9-INCH.

Eastern:											
1 plant	1910	2	60.0	.....	.....	.....	2	.....	.....	.....	.....
	1911	1	63.0	.....	.....	.....	.....	1	.....	.....	.....
	1912	2	63.0	.....	.....	.....	.....	2	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: 9-INCH—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pittsburgh:											
1 plant	1907	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	66.0	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	65.5	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	65.5	.....	.....	.....	.....	2	.....	.....	.....
3 plants	1910	17	53.1	12	.....	.....	.....	5	.....	.....	.....
	1911	18	52.5	12	2	.....	.....	4	.....	.....	.....
	1912	18	52.5	12	2	.....	.....	4	.....	.....	.....
Great Lakes and Middle West:											
2 plants	1907	16	58.9	6	.....	.....	.....	10	.....	.....	.....
	1908	16	59.7	6	.....	.....	.....	10	.....	.....	.....
	1909	16	59.7	6	.....	.....	.....	10	.....	.....	.....
	1910	16	59.7	6	.....	.....	.....	10	.....	.....	.....
	1911	16	59.7	6	.....	.....	.....	10	.....	.....	.....
	1912	16	59.7	6	.....	.....	.....	10	.....	.....	.....

ROLL HANDS, OTHER: 10-INCH.

Eastern:											
1 plant	1910	4	52.5	.....	4	.....	.....	.....	.....	.....	.....
	1911	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
	1912	4	48.8	.....	4	.....	.....	.....	.....	.....	.....
Pittsburgh:											
4 plants	1907	29	70.4	.....	.....	.....	2	5	22	.....	.....
	1908	29	70.4	.....	.....	.....	2	5	22	.....	.....
	1909	29	70.0	.....	.....	.....	2	27	.....	.....	.....
	1910	29	70.0	.....	.....	.....	1	28	.....	.....	.....
6 plants	1910	35	69.6	.....	.....	.....	1	32	2	.....	.....
	1911	35	68.9	.....	2	.....	2	29	2	.....	.....
	1912	35	68.9	.....	2	.....	2	29	2	.....	.....

ROLL HANDS, OTHER: 12-INCH.

Eastern:											
1 plant	1907	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
	1908	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
	1909	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
	1910	4	64.5	.....	.....	.....	.....	4	.....	.....	.....
2 plants	1910	6	61.3	.....	2	.....	.....	4	.....	.....	.....
	1911	5	62.6	.....	1	.....	.....	4	.....	.....	.....
	1912	5	62.6	.....	1	.....	.....	4	.....	.....	.....
Pittsburgh:											
2 plants	1907	4	68.0	.....	.....	.....	.....	2	2	.....	.....
	1908	3	70.7	.....	.....	.....	.....	1	2	.....	.....
	1909	3	70.3	.....	.....	.....	.....	3	.....	.....	.....
	1910	4	67.8	.....	.....	.....	.....	4	.....	.....	.....
5 plants	1910	11	63.3	3	.....	.....	.....	5	3	.....	.....
	1911	9	62.7	3	.....	.....	.....	4	2	.....	.....
	1912	10	62.4	3	.....	.....	.....	5	2	.....	.....
Great Lakes and Middle West:											
1 plant	1907	16	72.0	.....	.....	.....	.....	.....	16	.....	.....
	1908	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
	1909	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
	1910	14	72.0	.....	.....	.....	.....	.....	14	.....	.....
2 plants	1910	16	71.6	.....	.....	.....	.....	2	14	.....	.....
	1911	18	71.7	.....	.....	.....	.....	2	16	.....	.....
	1912	18	71.7	.....	.....	.....	.....	2	16	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 to 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: 13-INCH, 14-INCH, AND 15-INCH.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were— 48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
1 plant	1910	5	72.0	.....	.....	.....	.....	.....	5	.....	.....
	1911	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
	1912	4	72.0	.....	.....	.....	.....	.....	4	.....	.....
Pittsburgh:											
2 plants	1910	24	60.0	12	.....	.....	.....	.....	12	.....	.....
	1911	24	60.0	12	.....	.....	.....	.....	12	.....	.....
	1912	21	61.7	9	.....	.....	.....	.....	12	.....	.....

ROLL HANDS, OTHER: 16-INCH.

Eastern:											
1 plant	1907	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	64.5	.....	.....	.....	.....	2	.....	.....	.....
	1912	1	64.5	.....	.....	.....	.....	1	.....	.....	.....
Pittsburgh:											
1 plant	1907	2	64.5	.....	.....	.....	1	1	.....	.....	.....
	1908	2	64.5	.....	.....	.....	1	1	.....	.....	.....
	1909	2	64.5	.....	.....	.....	1	1	.....	.....	.....
	1910	2	64.5	.....	.....	.....	1	1	.....	.....	.....
	1911	2	64.5	.....	.....	.....	1	1	.....	.....	.....
	1912	2	64.5	.....	.....	.....	1	1	.....	.....	.....

ROLL HANDS, OTHER: 18-INCH.

Eastern:											
3 plants	1910	5	58.8	.....	2	.....	2	1	.....	.....	.....
	1911	4	59.8	.....	1	1	.....	2	.....	.....	.....
	1912	5	57.8	.....	3	.....	.....	2	.....	.....	.....
Great Lakes and Middle West:											
1 plant	1907	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1908	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1909	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1910	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1911	2	62.8	.....	.....	.....	.....	2	.....	.....	.....
	1912	2	62.8	.....	.....	.....	.....	2	.....	.....	.....

ROLL HANDS, OTHER: ALL SIZES.

Eastern:											
1 plant	1907	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
	1908	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
	1909	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
	1910	6	64.5	.....	.....	.....	.....	6	.....	.....	.....
6 plants	1910	29	60.8	.....	10	3	4	7	5	.....	.....
	1911	25	59.9	.....	8	4	.....	9	4	.....	.....
	1912	26	59.5	.....	10	3	.....	9	4	.....	.....
Pittsburgh:											
5 plants	1907	53	68.0	.....	2	2	4	17	28	.....	.....
	1908	52	68.2	.....	2	2	4	16	28	.....	.....
	1909	52	67.7	.....	2	2	4	44	.....	.....	.....
	1910	53	67.7	.....	1	4	3	45	.....	.....	.....
9 plants	1910	113	62.3	33	1	4	3	55	17	.....	.....
	1911	112	61.8	33	5	6	4	48	16	.....	.....
	1912	110	62.2	30	6	4	4	50	16	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

ROLL HANDS, OTHER: ALL SIZES—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Great Lakes and Middle West:											
3 plants	1907	38	65.6	6	.....	.....	.....	16	16	.....	.....
	1908	36	65.7	6	.....	.....	.....	16	14	.....	.....
	1909	36	65.7	6	.....	.....	.....	16	14	.....	.....
	1910	36	65.7	6	.....	.....	.....	16	14	.....	.....
	1910	38	65.8	6	.....	.....	.....	18	14	.....	.....
	1911	40	66.2	6	.....	.....	.....	18	16	.....	.....
	1912	40	66.2	6	.....	.....	.....	18	16	.....	.....
HOTBED MEN.											
Eastern:											
3 plants	1907	46	59.8	.....	.....	34	.....	12	.....	.....	.....
	1908	48	59.4	.....	4	32	.....	12	.....	.....	.....
	1909	48	59.4	.....	4	32	.....	12	.....	.....	.....
	1910	41	59.6	.....	4	25	.....	12	.....	.....	.....
8 plants	1910	108	60.3	.....	24	28	24	19	13	.....	.....
	1911	95	59.0	.....	22	39	.....	28	6	.....	.....
	1912	109	58.4	.....	38	36	.....	29	6	.....	.....
Pittsburgh:											
6 plants	1907	144	64.2	12	.....	20	.....	68	44	.....	.....
	1908	132	64.4	12	.....	20	.....	56	44	.....	.....
	1909	138	64.4	12	.....	20	.....	106	.....	.....	.....
	1910	154	63.7	15	.....	20	.....	119	.....	.....	.....
10 plants	1910	244	62.0	57	.....	20	.....	141	26	.....	.....
	1911	226	61.6	54	9	24	.....	119	20	.....	.....
	1912	232	61.5	54	9	24	.....	125	20	.....	.....
Great Lakes and Middle West:											
6 plants	1907	112	63.7	.....	8	.....	42	50	12	.....	.....
	1908	119	63.5	.....	8	.....	57	36	18	.....	.....
	1909	100	63.7	.....	8	.....	42	36	14	.....	.....
	1910	107	64.0	.....	8	.....	47	32	20	.....	.....
7 plants	1910	148	66.4	.....	8	.....	47	56	20	17	.....
	1911	113	65.3	.....	8	.....	29	60	16	.....	.....
8 plants	1911	129	64.5	.....	14	.....	29	70	16	.....	.....
	1912	120	65.1	.....	14	.....	25	55	26	.....	.....
SHEARMEN.											
Eastern:											
3 plants	1907	16	60.3	.....	.....	8	4	4	.....	.....	.....
	1908	18	60.3	.....	.....	8	6	4	.....	.....	.....
	1909	18	60.3	.....	.....	8	6	4	.....	.....	.....
	1910	18	60.3	.....	.....	7	8	3	.....	.....	.....
8 plants	1910	38	59.0	.....	12	7	12	5	2	.....	.....
	1911	37	58.8	.....	10	8	7	10	2	.....	.....
	1912	39	58.5	.....	12	9	7	9	2	.....	.....
Pittsburgh:											
6 plants	1907	36	67.5	.....	.....	.....	3	20	13	.....	.....
	1908	33	68.2	.....	.....	.....	2	18	13	.....	.....
	1909	34	67.8	.....	.....	.....	2	31	1	.....	.....
	1910	38	67.4	.....	.....	.....	1	37	.....	.....	.....
10 plants	1910	71	63.5	15	.....	.....	1	47	8	.....	.....
	1911	67	62.5	15	.....	10	2	32	8	.....	.....
	1912	70	62.5	15	.....	10	3	34	8	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 TO 1912—Continued.

BAR MILLS—Continued.

SHEARMEN—Concluded.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Great Lakes and Middle West:											
6 plants	1907	42	64.3	.....	6	.....	8	24	4	.....	.....
	1908	41	64.8	.....	6	.....	9	20	6	.....	.....
	1909	41	65.4	.....	6	.....	9	20	2	4	.....
	1910	41	64.8	.....	6	.....	9	20	6	.....	.....
7 plants	1910	47	66.4	.....	6	.....	9	20	6	6	.....
	1911	47	65.2	.....	6	.....	9	26	6	.....	.....
	1912	45	65.7	.....	6	.....	9	20	8	2	.....
SHEARMEN'S HELPERS.											
Eastern:											
3 plants	1907	35	63.0	.....	.....	4	7	24	.....	.....	.....
	1908	40	62.6	.....	.....	4	12	24	.....	.....	.....
	1909	40	62.6	.....	.....	4	12	24	.....	.....	.....
	1910	40	62.6	.....	.....	3	20	17	.....	.....	.....
6 plants	1910	62	65.0	.....	.....	3	24	21	14	.....	.....
	1911	58	63.8	.....	.....	6	12	40	.....	.....	.....
	1912	55	63.0	.....	4	6	12	33	.....	.....	.....
Pittsburgh:											
6 plants	1907	75	66.5	.....	.....	.....	.....	65	8	2	.....
	1908	65	68.2	.....	.....	.....	.....	49	10	6	.....
	1909	73	70.0	.....	.....	.....	.....	58	.....	15	.....
	1910	107	65.9	.....	.....	.....	.....	107	.....	.....	.....
10 plants	1910	204	63.0	45	.....	.....	.....	121	38	.....	.....
	1911	194	62.6	48	.....	14	1	95	36	.....	.....
	1912	206	62.6	48	.....	14	1	105	38	.....	.....
Great Lakes and Middle West:											
6 plants	1907	91	66.5	.....	8	.....	14	36	33	.....	.....
	1908	67	66.4	.....	8	.....	10	28	19	2	.....
	1909	72	67.1	.....	8	.....	14	28	8	14	.....
	1910	68	65.9	.....	8	.....	19	16	25	.....	.....
7 plants	1910	89	68.5	.....	8	.....	19	16	25	21	.....
	1911	107	66.1	.....	8	.....	24	46	29	.....	.....
	1912	97	67.3	.....	8	.....	22	28	27	12	.....
BUNDLERS.											
Pittsburgh:											
5 plants	1907	41	66.9	.....	.....	.....	.....	31	10	.....	.....
	1908	41	66.9	.....	.....	.....	.....	31	10	.....	.....
	1909	41	66.8	.....	.....	.....	.....	41	.....	.....	.....
	1910	41	67.1	.....	.....	.....	.....	41	.....	.....	.....
6 plants	1910	77	66.1	.....	.....	.....	.....	77	.....	.....	.....
	1911	81	63.5	.....	.....	36	.....	45	.....	.....	.....
7 plants	1911	131	62.0	.....	.....	86	.....	45	.....	.....	.....
	1912	132	62.0	.....	.....	86	.....	46	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE VI.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK IN EACH DISTRICT, BY YEARS, 1907 to 1912—Concluded.

BAR MILLS—Concluded.

LABORERS.

District, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Eastern:											
2 plants	1907	26	60.0	.....	.....	.....	26	.....	.....	.....	.....
	1908	37	60.0	.....	.....	.....	37	.....	.....	.....	.....
	1909	39	60.0	.....	.....	.....	39	.....	.....	.....	.....
	1910	65	60.0	.....	.....	.....	65	.....	.....	.....	.....
3 plants	1910	95	60.0	.....	.....	.....	95	.....	.....	.....	.....
	1911	75	57.9	.....	31	.....	44	.....	.....	.....	.....
4 plants	1911	109	58.6	.....	31	.....	78	.....	.....	.....	.....
	1912	97	58.3	.....	18	38	41	.....	.....	.....	.....
Pittsburgh:											
5 plants	1907	218	69.6	.....	.....	1	23	95	74	24	1
	1908	136	65.1	.....	.....	2	55	61	18	.....	.....
	1909	216	69.7	.....	.....	1	23	90	88	9	5
	1910	236	70.0	.....	.....	.....	31	29	176	.....	.....
8 plants	1910	265	70.7	.....	.....	.....	31	36	183	4	[1] 11
	1911	192	68.6	.....	.....	2	24	97	65	4	.....
	1912	213	68.7	.....	.....	2	26	107	72	5	1
Great Lakes and Middle West:											
3 plants	1907	52	67.1	.....	.....	.....	2	45	.....	.....	5
	1908	54	67.4	.....	.....	.....	2	47	.....	.....	5
	1909	69	66.4	.....	.....	1	14	47	.....	4	3
	1910	123	65.6	.....	.....	9	23	84	.....	.....	7
4 plants	1910	151	67.6	.....	.....	9	23	92	.....	20	7
	1911	88	67.1	.....	.....	1	2	78	5	.....	2
5 plants	1911	89	67.2	.....	.....	1	2	78	6	.....	2
	1912	114	67.2	.....	.....	1	2	97	12	.....	2

[1] Including 4 employees whose full-time hours per week were 84½, and 2 employees whose full-time hours per week were 91.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

SHEET MILLS.

SUMMARY.

Summary figures relating to the sheet-mill department of the iron and steel industry are given with figures for other departments in the introductory summary on pages 7 to 15. An explanation of the scope of the investigation and of the methods employed is given on pages 16 to 22.

Briefly summarized, the average full-time weekly earnings of employees in the sheet-mill department in 1912 were 11.9 per cent higher than in 1910 and 3.0 per cent higher than in 1911. The average full-time hours of labor per week in 1912 were 1.3 per cent lower than in 1910 and 0.2 per cent lower than in 1911. The average rate of wages or earnings per hour in 1912 was 12.6 per cent higher than in 1910 and 3.1 per cent higher than in 1911.

The most significant facts concerning the several occupations of the sheet-mill department are summarized in the table following. Data are presented for the years 1910, 1911, and 1912, and in all but one occupation for identical plants for those three years. In the occupation referred to, for one plant, figures for 1910 were not available; hence two reports are made for 1911, one comparable with 1910 and the other with 1912. Referring to the first occupation, laborers, comparison can be made of data for 9 identical plants from 1910 to 1912, inclusive. The first line of the table is read as follows: In 1910 the 9 sheet mills from which reports were obtained employed 347 laborers whose average full-time hours of work were 63.1 per week. For 4.1 per cent of the 347 laborers, the full-time hours per week were over 48 or under 60; for 64.3 per cent, 60 hours; for 12.7 per cent, over 60 or under 72; and for 19.1 per cent, 72 hours or over. The average rate of wages or earnings per hour of laborers in the year considered (1910) was $0.164. Of the total number 21.3 earned 14 or under 16 cents per hour, and 78.7 earned 16 or under 18 cents per hour. The average full-time weekly earnings were $10.35. The other lines of the table may be read in the same manner.

Referring to the last column of the table, it is seen that in 9 plants the average full-time weekly earnings of laborers were $10.35 in 1910. In 1911 there was an advance to $10.54 and in 1912 a further advance to $10.72. Comparing the average full-time weekly earnings for 1912 of the several occupations it is seen that the lowest average was that of laborers which was $10.72, and the highest that of rollers which was $60.41.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—SHEET MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 60	60	Over 60 and under 72	72 and over.		14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	
Laborers:														
9 plants	1910	347	63.1	.....	4.1	64.3	12.7	19.1	$0.164	21.3	78.7	.....	.....	$10.35
	1911	361	63.6	.....	4.7	52.9	24.9	17.4	.166	18.3	81.7	.....	.....	10.54
	1912	354	63.5	.....	3.7	54.2	25.7	16.4	.169	.6	99.4	.....	.....	10.72
Picklers:														
4 plants	1910	50	70.8	.....	.....	10.0	.....	90.0	.181	.....	56.0	28.0	16.0	12.75
	1911	49	71.8	.....	.....	10.2	.....	89.8	.172	.....	77.6	8.2	14.3	12.35
5 plants	1911	58	71.2	.....	.....	8.6	15.5	75.9	.177	.....	65.5	6.9	27.6	12.54
	1912	39	71.7	.....	.....	12.8	15.4	71.8	.186	.....	51.3	15.4	33.3	13.23

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 60	60	Over 60 and under 72	72 and over.		Under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 cts. and over.	
Openers:														
7 plants	1910	138	46.0	85.5	.....	.....	14.5	.....	.274	1.4	87.7	3.6	7.2	12.57
	1911	167	45.2	89.2	.....	.....	10.8	.....	.275	1.2	85.6	1.8	11.4	12.35
	1912	180	45.8	86.7	.....	.....	13.3	.....	.289	36.6	38.9	12.2	12.2	13.04
Shearmen's helpers:														
6 plants	1910	62	46.4	83.9	.....	.....	16.1	.....	.261	41.9	53.2	1.6	3.2	11.99
	1911	83	44.9	90.4	.....	.....	9.6	.....	.308	31.3	33.7	21.7	13.2	13.59
	1912	77	45.1	89.6	.....	.....	10.4	.....	.290	26.0	41.6	19.5	13.0	12.88

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 60	60	Over 60 and under 72	72 and over.		Under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 cts. and over.	
Doublers:														
9 plants	1910	210	42.7	100.0	.....	.....	.....	.....	.372	10.5	50.0	39.5	.....	15.86
	1911	252	42.7	100.0	.....	.....	.....	.....	.401	4.0	47.6	40.1	8.3	17.10
	1912	246	42.7	100.0	.....	.....	.....	.....	.412	1.6	30.5	62.2	5.7	17.58
Matchers:														
9 plants	1910	210	42.7	100.0	.....	.....	.....	.....	.387	10.5	37.6	51.9	.....	16.53
	1911	255	42.7	100.0	.....	.....	.....	.....	.418	5.9	42.7	33.3	18.0	17.83
	1912	249	42.7	100.0	.....	.....	.....	.....	.429	2.8	25.3	60.6	11.2	18.30
Sheet heaters' helpers:														
8 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.377	5.2	56.3	36.2	2.3	16.07
	1911	215	42.7	100.0	.....	.....	.....	.....	.436	.....	33.5	41.9	24.7	18.59
	1912	208	42.7	100.0	.....	.....	.....	.....	.439	.....	32.7	47.1	20.2	18.71

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 60	60	Over 60 and under 72	72 and over.		Under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.	
Catchers:														
9 plants	1910	215	42.7	100.0	.....	.....	.....	.....	.544	27.4	38.1	34.4	.....	23.19
	1911	258	42.7	100.0	.....	.....	.....	.....	.587	17.5	44.6	17.8	20.2	25.03
	1912	252	42.7	100.0	.....	.....	.....	.....	.603	20.6	15.5	51.6	12.3	25.71
Pair heaters:														
9 plants	1910	210	42.7	100.0	.....	.....	.....	.....	.466	49.9	49.0	1.0	.....	19.89
	1911	255	42.7	100.0	.....	.....	.....	.....	.502	54.1	27.1	17.6	1.2	21.42
	1912	249	42.7	100.0	.....	.....	.....	.....	.517	28.1	57.8	14.1	.....	22.06
Roughers:														
9 plants	1910	215	42.7	100.0	.....	.....	.....	.....	.558	21.8	39.1	39.1	.....	23.82
	1911	255	42.7	100.0	.....	.....	.....	.....	.603	5.5	56.5	17.6	20.4	25.71
	1912	252	42.7	100.0	.....	.....	.....	.....	.616	16.7	16.7	51.2	15.5	26.29

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS—1910 TO 1912, SHEET MILLS—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 60	60	Over 60 and under 72	72 and over.		Under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.	
Rollers:														
9 plants	1910	215	42.7	100.0	.....	.....	.....	.....	$1.242	1.9	2.3	3.7	92.1	$52.98
	1911	259	42.7	100.0	.....	.....	.....	.....	1.380	.....	.....	.4	99.6	58.89
	1912	252	42.7	100.0	.....	.....	.....	.....	1.416	.....	.....	.....	100.0	60.41
Shearmen:														
7 plants	1910	85	46.0	85.9	.....	.....	14.1	.....	.689	20.0	15.3	10.6	54.1	30.79
	1911	104	44.9	90.4	.....	.....	9.6	.....	.722	13.5	28.8	8.7	49.0	32.86
	1912	105	44.9	90.5	.....	.....	9.5	.....	.768	8.7	5.7	8.6	77.1	34.67
Sheet heaters:														
9 plants	1910	215	42.7	100.0	.....	.....	.....	.....	.883	.....	4.2	11.2	84.7	37.68
	1911	259	42.7	100.0	.....	.....	.....	.....	.911	.....	.....	14.7	85.3	38.88
	1912	253	42.7	100.0	.....	.....	.....	.....	.949	.....	.4	14.2	85.4	40.51

To aid in making a comparison of the data for the three years which will give an accurate measure of the changes throughout the period, relative or index numbers have been computed from the averages of the preceding table for the full-time hours per week, rates of wages per hour, and full-time weekly earnings of each occupation from 1910 to 1912, inclusive. Such figures appear in the table following.

These relative or index numbers are simply percentages from which the data for 1912 are taken as the base, or 100 per cent. The relative for each year is the per cent which the average for that year is of the average for 1912. For example, the relative full-time weekly earnings of pair heaters in 1910 were 90.2, as compared with 100 in 1912; that is, the full-time weekly earnings of pair heaters in 1910 were 90.2 per cent of the full-time weekly earnings in this occupation in 1912. The method of computing relative numbers is explained on page 21.

The table also shows for each occupation the per cent of increase or decrease in full-time hours per week, rates of wages per hour, and full-time weekly earnings in 1912, as compared with each specified year preceding. Thus the full-time weekly earnings of pair heaters in 1912 were 10.9 per cent higher than in 1910 and 3 per cent higher than in 1911.

In other columns of the table is shown the per cent of change in each year as compared with the year immediately preceding. Thus the full-time weekly earnings of pair heaters in 1911 were 7.6 per cent higher than in 1910, and in 1912, 3 per cent higher than in 1911. The other occupations and items of the table can be studied in like manner. The percentages of increase and decrease are computed from the relative numbers.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—SHEET MILLS.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
Pair heaters:									
1910	100.0	(1)	.....	90.1	+11.0	.....	90.2	+10.9	.....
1911	100.0	(1)	(1)	97.1	+ 3.0	+ 7.8	97.1	+ 3.0	+ 7.6
1912	100.0	.....	(1)	100.0	.....	+ 3.0	100.0	.....	+ 3.0
Rollers:									
1910	100.0	(1)	.....	87.7	+14.0	.....	87.7	+14.0	.....
1911	100.0	(1)	(1)	97.5	+ 2.6	+11.2	97.5	+ 2.6	+11.2
1912	100.0	.....	(1)	100.0	.....	+ 2.6	100.0	.....	+ 2.6
Roughers:									
1910	100.0	(1)	.....	90.6	+10.4	.....	90.6	+10.4	.....
1911	100.0	(1)	(1)	97.9	+ 2.1	+ 8.1	97.8	+ 2.2	+ 7.9
1912	100.0	.....	(1)	100.0	.....	+ 2.1	100.0	.....	+ 2.2
Catchers:									
1910	100.0	(1)	.....	90.2	+10.9	.....	90.2	+10.9	.....
1911	100.0	(1)	(1)	97.3	+ 2.8	+ 7.9	97.4	+ 2.7	+ 8.0
1912	100.0	.....	(1)	100.0	.....	+ 2.8	100.0	.....	+ 2.7
Matchers:									
1910	100.0	(1)	.....	90.2	+10.9	.....	90.3	+10.7	.....
1911	100.0	(1)	(1)	97.4	+ 2.7	+ 8.0	97.4	+ 2.7	+ 7.9
1912	100.0	.....	(1)	100.0	.....	+ 2.7	100.0	.....	+ 2.7
Doublers:									
1910	100.0	(1)	.....	90.3	+10.7	.....	90.2	+10.9	.....
1911	100.0	(1)	(1)	97.3	+ 2.8	+ 7.8	97.3	+ 2.8	+ 7.9
1912	100.0	.....	(1)	100.0	.....	+ 2.8	100.0	.....	+ 2.8
Sheet heaters:									
1910	100.0	(1)	.....	93.0	+ 7.5	.....	93.0	+ 7.5	.....
1911	100.0	(1)	(1)	96.0	+ 4.2	+ 3.2	96.0	+ 4.2	+ 3.2
1912	100.0	.....	(1)	100.0	.....	+ 4.2	100.0	.....	+ 4.2
Sheet heaters' helpers:									
1910	100.0	(1)	.....	85.9	+16.4	.....	85.9	+16.4	.....
1911	100.0	(1)	(1)	99.3	+ .7	+15.6	99.4	+ .6	+15.7
1912	100.0	.....	(1)	100.0	.....	+ .7	100.0	.....	+ .6
Shearmen:									
1910	102.4	−2.3	.....	89.7	+11.5	.....	88.8	+12.6	.....
1911	100.0	(1)	−2.3	94.0	+ 6.4	+ 4.8	94.8	+ 5.5	+ 6.8
1912	100.0	.....	(1)	100.0	.....	+ 6.4	100.0	.....	+ 5.5
Shearmen's helpers:									
1910	102.9	−2.8	.....	90.0	+11.1	.....	93.1	+ 7.4	.....
1911	99.6	+ .4	−3.2	106.2	− 5.8	+18.0	105.5	− 5.2	+13.3
1912	100.0	.....	+ .4	100.0	.....	− 5.8	100.0	.....	− 5.2
Openers:									
1910	100.4	− .4	.....	94.8	+ 5.5	.....	96.4	+ 3.7	.....
1911	98.7	+1.3	−1.7	95.2	+ 5.0	+ .4	94.7	+ 5.6	− 1.8
1912	100.0	.....	+1.3	100.0	.....	+ 5.0	100.0	.....	+ 5.6
Picklers:									
1910	97.9	+2.1	.....	100.1	− .1	.....	97.9	+ 2.1	.....
1911	99.3	+ .7	+1.4	95.2	+ 5.0	− 4.9	94.8	+ 5.5	− 3.2
1912	100.0	.....	+ .7	100.0	.....	+ 5.0	100.0	.....	+ 5.5
Laborers:									
1910	99.4	+ .6	.....	97.0	+ 3.1	.....	96.5	+ 3.6	.....
1911	100.2	− .2	+ .8	98.2	+ 1.8	+ 1.2	98.3	+ 1.7	+ 1.9
1912	100.0	.....	− .2	100.0	.....	+ 1.8	100.0	.....	+ 1.7

[1] No change.

A like table of relative numbers and percentages is next shown for the sheet-mill department as a whole, as determined by a combination of the data for the several principal productive occupations of

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

the department which are covered by this report. The method of computing the figures of this table is explained on page 22.

From the table under "weekly earnings" it is seen that the relative full-time weekly earnings of the department as a whole in 1910 were 89.4, as compared with 100 in 1912. In other words, the full-time weekly earnings in 1910 were 89.4 per cent of such earnings in 1912. The relative increases to 97.1 in 1911 and in 1912, the base year, the relative is 100.

The next column shows that full-time weekly earnings in 1912 were 11.9 per cent higher than in 1910 and 3.0 per cent higher than in 1911. The third column under "weekly earnings" shows the per cent of increase or decrease in full-time weekly earnings each year as compared with the year immediately preceding. Thus the full-time weekly earnings in 1911 were 8.6 per cent higher than in 1910 and in 1912 3.0 per cent higher than in 1911. The relative numbers and percentages for full-time hours per week and rates of wages per hour can be read in like manner.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, ALL OCCUPATIONS—SHEET MILLS.

Year.	Hours per week.			Wages per hour.			Weekly earnings.		
	Relative full-time hours per week.	Per cent of increase (+) or decrease (−) in—		Relative rate of wages per hour.	Per cent of increase (+) or decrease (−) in—		Relative full-time weekly earnings.	Per cent of increase (+) or decrease (−) in—	
		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.		1912 as compared with each specified year.	Each specified year as compared with year preceding.
1910	101.3	−1.3	.....	98.8	+12.6	.....	89.4	+11.9	.....
1911	100.2	− .2	−1.1	97.0	+ 3.1	+9.2	97.1	+ 3.0	+8.6
1912	100.0	.....	− .2	100.0	.....	+3.1	100.0	.....	+3.0

In considering weekly earnings it should be remembered that a reduction of hours tends to reduce weekly earnings, just as an increase in wages per hour, of course, tends to increase them. Still another influence on average weekly earnings for the department must be considered, that is, the change in the relative number of employees in the several occupations from year to year. It is obvious that an increase in the relative number of employees in the lower-paid occupations or a decrease in the relative number of those in the higher-paid ones would tend to lower the average for all occupations, just as an increase in the relative number of employees in the higher-paid occupations or a decrease in the relative number in the lower-paid ones would tend to increase the average.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

The number and per cent of employees in sheet-mill plants whose customary working time per week was 5 days or turns, or 6 days, or 7 days, or variations thereof, are shown in the following table. It will be noticed that the customary working time of over 80 per cent of the employees in this department was "5 days, 5 days, and 6 days in rotation." In all of the plants covered the regular turn employees were divided into three groups, each working 8 hours per turn, five turns per week, Monday to Friday, inclusive, with one crew working an extra turn Saturday morning. Each crew advanced one turn each week, this giving each crew the extra Saturday turn every third week.

All of the sheet-mill plants from which reports were obtained are in the Pittsburgh district.

NUMBER AND PER CENT OF EMPLOYEES WORKING EACH SPECIFIED NUMBER OF DAYS PER WEEK, BY YEARS, 1910 TO 1912—SHEET MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

Number of plants.	Year.	Number of employees.	Number of employees whose customary working time per week was—						Per cent of employees whose customary working time per week was—					
			5 days.	5 days and 6 days alternately.	5 days, 5 days, and 6 days in rotation.	6 days.	6 days and 7 days alternately.	7 days.	5 days.	5 days and 6 days alternately.	5 days, 5 days, and 6 days in rotation.	6 days.	6 days and 7 days alternately.	7 days.
Nine plants [1]	1910	2,346	2	46	1,907	380	.....	11	0.1	2.0	81.3	16.2	.....	0.5
	1911	2,772	2	40	2,326	391	.....	13	.1	1.4	83.9	14.1	.....	.5
	1911	2,781	2	40	2,326	400	.....	13	.1	1.4	83.6	14.4	.....	.5
	1912	2,716	2	46	2,281	370	4	13	.1	1.7	84.0	13.6	0.1	.5

[1] For one plant it was impossible to secure data for one occupation for 1910, hence the two reports for 1911.

In addition to the text tables presented in the summary, two general tables are presented for the sheet-mill department as follows:

Table I.—Average full-time weekly earnings and average and classified rates of wages per hour, by years, 1910 to 1912.

Table II.—Average and classified full-time hours of work per week, by years, 1910 to 1912.

In Tables I and II, in addition to actual data, percentages computed therefrom are given. The data from these two tables are summarized in the text table on pages 520 and 521.

A brief description of the function of the sheet mill is presented on page 25.

DESCRIPTION OF OCCUPATIONS.

The following description of occupations refers only to those occupations which appear in the tables of this report—these being nearly

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

all of the principal productive occupations in the sheet-mill department.

The order in which the occupations are given follows that of the processes of manufacture.

ROLLERS.

Duties.—The roller is in charge of all the processes of heating and rolling. He gives a helping hand whenever necessary, but usually his active duty begins when he takes the "packs" of heated sheets from the sheet heater or his helper and passes them through the finishing rolls to the catcher who returns them over the rolls, as many passes being made as are necessary. This finishes the rolling of the heavier gauges. When lighter gauges are required the packs are delivered a second time to the sheet heater, reheated, and returned to the roller who again passes them through the rolls until they are of the required gauge. It is during the finishing passes that the greatest skill is required. With a metallic measure the roller notes the lengthening of the sheets until that length is reached which owing to the thickness and length of the original sheet bar will give the required gauge. During the finishing passes the roller, or his helper, operates the screw which regulates the distance between the finishing rolls.

Nature of work.—The quality of the product depends very largely on the roller's skill in handling material and men, a skill which usually has been gained by long experience in the mill, working up from the lower positions. The actual work performed by him is very rapid and done under conditions of great heat.

PAIR HEATERS.

Duties.—In charge of the furnaces for heating sheet bars. The pair heater, assisted by the doubler, charges and draws the bars and drags them in pairs to the rougher at the roughing rolls. When the pair furnace is separate from the sheet furnace he fires the furnace and maintains the proper temperature. He also spells the doubler in operating the screws by which the distance between the roughing rolls is regulated.

Nature of work.—Heavy manual labor, with short rest periods.

ROUGHERS AND CATCHERS.

Duties.—The rougher with his tongs takes a pair of heated bars from the pair heater and passes them successively through the roughing rolls to the catcher, who places each on top of the top roll to be taken off by the rougher as the other is going through the rolls. This is repeated until the bars are sufficiently "broken down," when the rougher and catcher each take one to the finishing rolls where a similar rolling operation is repeated. The rougher then puts one sheet

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

on top of the other and passes the two together several times through the rolls, the catcher returning them as before.

Nature of work.—Rapid work and heavy, especially for the catcher, who with his tongs lifts the bars and sheets to the top of the rolls. These positions, like nearly all those of the heating and rolling crew, are usually filled by men of unusual strength and endurance.

MATCHERS.

Duties.—The matcher and rougher pull the two sheets apart after they have been rolled together, and then a number of sheets, depending on the desired gauge, are piled together by the matcher in a "pack" and delivered to the sheet heater. When the lighter gauges are desired, the packs, after the next rolling, are pulled apart again, this time by the matcher and doubler, and the required number piled together in a pack.

Nature of work.—Requires quickness and accuracy in opening the packs and matching the sheets. Hot and hard manual labor.

DOUBLERS.

Duties.—The doubler assists the pair heater in charging the bars into the pair furnace. He assists the matcher in matching sheets into packs for the lighter gauges, bends the packs transversely and with a machine stamps the bend flat and then delivers the doubled packs to the heater. He also drags the packs, after they have had the finishing passes through the rolls, to the shears.

Nature of work.—Diversified, rapid, and hot when doubling and matching, and heavy when dragging the finished packs to the shears.

SHEET HEATERS AND SHEET HEATERS' HELPERS.

Duties.—In charge of the heating furnace in which the sheets in packs (doubles, fours, or eights) are reheated for the finishing rolls. The heater with his helper fires the furnace, which includes shoveling the coal and keeping the grate bars clean. The heater and his helper charge and draw the packs and deliver them to the roller at the finishing rolls.

Nature of work.—Hard manual labor requiring strength and great skill in handling the packs of sheets. The heater and his helper work together, though at certain stages of the work their duties are exactly alike.

SHEARMEN.

Duties.—The shearman operates the squaring shears which shear the packs of cold sheets into proper sizes.

Nature of work.—Moderately heavy work, which requires skill gained only by experience.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

SHEARMEN'S HELPERS.

Duties.—Assists the shearman in placing the packs of sheets on the shear stands and holds them in place while they are sheared.

Nature of work.—Rather heavy work.

OPENERS.

Duties.—After the packs have been sheared the opener tears the sheets apart with specially shaped tongs. Difficult ones (stickers) are thrown aside for the special "sticker opener."

Nature of work.—Heavy and continuous work, necessitating the keeping of the body in a bent-over position almost constantly.

PICKLERS.

Duties.—Immerse the sheets in a hot solution of sulphuric acid—to remove all scale—either "by hand," using short tongs to keep the sheets separated, or by operating a machine which has racks or cradles to hold the sheets.

Nature of work.—Requires some skill, although done under the direction of a foreman.

LABORERS.

Duties.—Clean up scale and grease from pits, clean up yards, and all general labor not carried under a specific occupation.

Nature of work.—Diversified both as to difficulty and conditions under which it is done.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR, BY YEARS, 1910 TO 1912.

SHEET MILLS.

[All the plants reported are in the Pittsburgh district. The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pair heaters:																
9 plants	1910	210	42.7	$0.466	$19.89	.....	.....	.....	.....	3	3	37	62	103	2	.....
	1911	255	42.7	.502	21.42	.....	.....	.....	.....	.....	6	34	98	69	45	3
	1912	249	42.7	.517	22.06	.....	.....	.....	.....	.....	2	12	56	144	35	.....
Rollers:																
9 plants	1910	215	42.7	1.242	52.98	.....	.....	.....	.....	.....	.....	.....	4	5	8	198
	1911	259	42.7	1.380	58.89	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	258
	1912	252	42.7	1.416	60.41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	252
Roughers:																
9 plants	1910	215	42.7	.558	23.82	.....	.....	.....	.....	.....	.....	13	34	84	84	.....
	1911	255	42.7	.603	25.71	.....	.....	.....	.....	.....	.....	.....	14	144	45	52
	1912	252	42.7	.616	26.29	.....	.....	.....	.....	.....	.....	.....	42	42	129	39
Catchers:																
9 plants	1910	215	42.7	.544	23.19	.....	.....	.....	.....	.....	2	17	40	82	74	.....
	1911	258	42.7	.587	25.03	.....	.....	.....	.....	.....	.....	12	33	115	46	52
	1912	252	42.7	.603	25.71	.....	.....	.....	.....	.....	.....	4	48	39	130	31
Matchers:																
9 plants	1910	210	42.7	.387	16.53	.....	.....	.....	.....	4	18	79	109	.....	.....	.....
	1911	255	42.7	.418	17.83	.....	.....	.....	.....	5	10	109	85	46	.....	.....
	1912	249	42.7	.429	18.30	.....	.....	.....	.....	3	4	63	151	28	.....	.....
Doublers:																
9 plants	1910	210	42.7	.372	15.86	.....	.....	.....	.....	6	16	105	83	.....	.....	.....
	1911	252	42.7	.401	17.19	.....	.....	.....	.....	.....	10	120	101	21	.....	.....
	1912	246	42.7	.412	17.58	.....	.....	.....	.....	1	3	75	153	14	.....	.....
Sheet heaters:																
9 plants	1910	215	42.7	.883	37.68	.....	.....	.....	.....	.....	.....	.....	.....	9	24	182
	1911	259	42.7	.911	38.88	.....	.....	.....	.....	.....	.....	.....	.....	.....	38	221
	1912	253	42.7	.949	40.51	.....	.....	.....	.....	.....	.....	.....	.....	1	36	216
Sheet heaters' helpers:																
8 plants	1910	174	42.7	.377	16.07	.....	.....	.....	.....	.....	9	98	63	4	.....	.....
	1911	215	42.7	.436	18.59	.....	.....	.....	.....	.....	.....	72	90	51	1	1
	1912	208	42.7	.439	18.71	.....	.....	.....	.....	.....	.....	68	98	40	2	.....
Shearmen:																
7 plants	1910	85	46.0	.689	30.79	.....	.....	.....	.....	.....	.....	11	6	13	9	46
	1911	104	44.9	.722	32.86	.....	.....	.....	.....	.....	3	5	6	30	9	51
	1912	105	44.9	.768	34.67	.....	.....	.....	.....	1	1	1	6	6	9	81
Shearmen's helpers:																
6 plants	1910	62	46.4	.261	11.99	.....	.....	.....	.....	26	33	1	2	.....	.....	.....
	1911	83	44.9	.308	13.59	.....	.....	.....	.....	26	28	18	1	10	.....	.....
	1912	77	45.1	.290	12.88	.....	.....	.....	12	8	32	15	10	.....	.....	.....
Openers:																
7 plants	1910	138	46.0	.274	12.57	2	.....	.....	.....	.....	121	5	10	.....	.....	.....
	1911	167	45.2	.275	12.35	.....	.....	2	.....	.....	143	3	1	17	1	.....
	1912	180	45.8	.289	13.04	.....	.....	8	.....	58	70	22	8	14	.....	.....
Picklers:																
4 plants	1910	50	70.8	.181	12.75	.....	.....	28	14	8	.....	.....	.....	.....	.....	.....
	1911	49	71.8	.172	12.35	.....	.....	38	4	7	.....	.....	.....	.....	.....	.....
5 plants	1911	58	71.2	.177	12.54	.....	.....	38	4	16	.....	.....	.....	.....	.....	.....
	1912	39	71.7	.186	13.23	.....	.....	20	6	13	.....	.....	.....	.....	.....	.....
Laborers:																
9 plants	1910	347	63.1	.164	10.35	.....	74	273	.....	.....	.....	.....	.....	.....	.....	.....
	1911	361	63.6	.166	10.54	.....	66	295	.....	.....	.....	.....	.....	.....	.....	.....
	1912	354	63.5	.169	10.72	.....	2	352	.....	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR, BY YEARS, 1910 TO 1912—Concluded.

SHEET MILLS—Continued.

PER CENT.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.										
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Pair heaters:																
9 plants	1910	210	42.7	$0.466	$19.89	.....	.....	.....	.....	1.4	1.4	17.6	29.5	49.0	1.0	.....
	1911	255	42.7	.502	21.42	.....	.....	.....	.....	.....	2.4	13.3	38.4	27.1	17.6	1.2
	1912	249	42.7	.517	22.06	.....	.....	.....	.....	.....	.8	4.8	22.5	57.8	14.1	.....
Rollers:																
9 plants	1910	215	42.7	1.242	52.98	.....	.....	.....	.....	.....	.....	.....	1.9	2.3	3.7	92.1
	1911	259	42.7	1.380	58.89	.....	.....	.....	.....	.....	.....	.....	.....	.....	.4	99.6
	1912	252	42.7	1.416	60.41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100.0
Roughers:																
9 plants	1910	215	42.7	.558	23.82	.....	.....	.....	.....	.....	.....	6.0	15.8	39.1	39.1	.....
	1911	255	42.7	.603	25.71	.....	.....	.....	.....	.....	.....	.....	5.5	56.5	17.6	20.4
	1912	252	42.7	.616	26.29	.....	.....	.....	.....	.....	.....	.....	16.7	16.7	51.2	15.5
Catchers:																
9 plants	1910	215	42.7	.544	23.19	.....	.....	.....	.....	.....	.9	7.9	18.6	33.1	34.4	.....
	1911	258	42.7	.587	25.03	.....	.....	.....	.....	.....	.....	4.7	12.8	44.6	17.8	20.2
	1912	252	42.7	.603	25.71	.....	.....	.....	.....	.....	.....	1.6	19.0	15.5	51.6	12.3
Matchers:																
9 plants	1910	210	42.7	.387	16.53	.....	.....	.....	.....	1.9	8.6	37.6	51.9	.....	.....	.....
	1911	255	42.7	.418	17.83	.....	.....	.....	.....	2.0	3.9	42.7	33.3	18.0	.....	.....
	1912	249	42.7	.429	18.30	.....	.....	.....	.....	1.2	1.6	25.3	60.6	11.2	.....	.....
Doublers:																
9 plants	1910	210	42.7	.372	15.86	.....	.....	.....	.....	2.9	7.6	50.0	39.5	.....	.....	.....
	1911	252	42.7	.401	17.10	.....	.....	.....	.....	.....	4.0	47.6	40.1	8.3	.....	.....
	1912	246	42.7	.412	17.58	.....	.....	.....	.....	.4	1.2	30.5	62.2	5.7	.....	.....
Sheet heaters:																
9 plants	1910	215	42.7	.883	37.68	.....	.....	.....	.....	.....	.....	.....	.....	4.2	11.2	84.7
	1911	259	42.7	.911	38.88	.....	.....	.....	.....	.....	.....	.....	.....	.....	14.7	85.3
	1912	253	42.7	.949	40.51	.....	.....	.....	.....	.....	.....	.....	.....	.4	14.2	85.4
Sheet heaters' helpers:																
8 plants	1910	174	42.7	.377	16.07	.....	.....	.....	.....	.....	5.2	56.3	36.2	2.3	.....	.....
	1911	215	42.7	.436	18.59	.....	.....	.....	.....	.....	.....	33.5	41.9	23.7	.5	.5
	1912	208	42.7	.439	18.71	.....	.....	.....	.....	.....	.....	32.7	47.1	19.2	1.0	.....
Shearmen:																
7 plants	1910	85	46.0	.689	30.79	.....	.....	.....	.....	.....	.....	12.9	7.1	15.3	10.6	54 1
	1911	104	44.9	.722	32.86	.....	.....	.....	.....	.....	2.9	4.8	5.8	28.8	8.7	49.0
	1912	105	44.9	.768	34.67	.....	.....	.....	.....	1.0	1.0	1.0	5.7	5.7	8.6	77.1
Shearmen's helpers:																
6 plants	1910	62	46.4	.261	11.99	.....	.....	.....	.....	41.9	53.2	1.6	3.2	.....	.....	.....
	1911	83	44.9	.308	13.59	.....	.....	.....	.....	31.3	33.7	21.7	1.2	12.0	.....	.....
	1912	77	45.1	.290	12.88	.....	.....	.....	15.6	10.4	41.6	19.5	13.0	.....	.....	.....
Openers:																
7 plants	1910	138	46.0	.274	12.57	1.4	.....	.....	.....	.....	87.7	3.6	7.2	.....	.....	.....
	1911	167	45.2	.275	12.35	.....	.....	1.2	.....	.....	85.6	1.8	.6	10.2	.6	.....
	1912	180	45.8	.289	13.04	.....	.....	4.4	.....	32.2	38.9	12.2	4.4	7.8	.....	.....
Picklers:																
4 plants	1910	50	70.8	.181	12.75	.....	.....	56.0	28.0	16.0	.....	.....	.....	.....	.....	.....
	1911	49	71.8	.172	12.35	.....	.....	77.6	8.2	14.3	.....	.....	.....	.....	.....	.....
5 plants	1911	58	71.2	.177	12.54	.....	.....	65.5	6.9	27.6	.....	.....	.....	.....	.....	.....
	1912	39	71.7	.186	13.23	.....	.....	51.3	15.4	33.3	.....	.....	.....	.....	.....	.....
Laborers:																
9 plants	1910	347	63.1	.164	10.35	.....	21.3	78.7	.....	.....	.....	.....	.....	.....	.....	.....
	1911	361	63.6	.166	10.54	.....	18.3	81.7	.....	.....	.....	.....	.....	.....	.....	.....
	1912	354	63.5	.169	10.72	.....	.6	99.4	.....	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK, BY YEARS, 1910 TO 1912.

SHEET MILLS—Continued.

[All the plants reported are in the Pittsburgh district. The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pair heaters:											
9 plants	1910	210	42.7	210	.....	.....	.....	.....	.....	.....	.....
	1911	255	42.7	255	.....	.....	.....	.....	.....	.....	.....
	1912	249	42.7	249	.....	.....	.....	.....	.....	.....	.....
Rollers:											
9 plants	1910	215	42.7	215	.....	.....	.....	.....	.....	.....	.....
	1911	259	42.7	259	.....	.....	.....	.....	.....	.....	.....
	1912	252	42.7	252	.....	.....	.....	.....	.....	.....	.....
Roughers:											
9 plants	1910	215	42.7	215	.....	.....	.....	.....	.....	.....	.....
	1911	255	42.7	255	.....	.....	.....	.....	.....	.....	.....
	1912	252	42.7	252	.....	.....	.....	.....	.....	.....	.....
Catchers:											
9 plants	1910	215	42.7	215	.....	.....	.....	.....	.....	.....	.....
	1911	258	42.7	258	.....	.....	.....	.....	.....	.....	.....
	1912	252	42.7	252	.....	.....	.....	.....	.....	.....	.....
Matchers:											
9 plants	1910	210	42.7	210	.....	.....	.....	.....	.....	.....	.....
	1911	255	42.7	255	.....	.....	.....	.....	.....	.....	.....
	1912	249	42.7	249	.....	.....	.....	.....	.....	.....	.....
Doublers:											
9 plants	1910	210	42.7	210	.....	.....	.....	.....	.....	.....	.....
	1911	252	42.7	252	.....	.....	.....	.....	.....	.....	.....
	1912	246	42.7	246	.....	.....	.....	.....	.....	.....	.....
Sheet heaters:											
9 plants	1910	215	42.7	215	.....	.....	.....	.....	.....	.....	.....
	1911	259	42.7	259	.....	.....	.....	.....	.....	.....	.....
	1912	253	42.7	253	.....	.....	.....	.....	.....	.....	.....
Sheet heaters' helpers:											
8 plants	1910	174	42.7	174	.....	.....	.....	.....	.....	.....	.....
	1911	215	42.7	215	.....	.....	.....	.....	.....	.....	.....
	1912	208	42.7	208	.....	.....	.....	.....	.....	.....	.....
Shearmen:											
7 plants	1910	85	46.0	73	.....	.....	.....	12	.....	.....	.....
	1911	104	44.9	94	.....	.....	.....	10	.....	.....	.....
	1912	105	44.9	95	.....	.....	.....	10	.....	.....	.....
Shearmen's helpers:											
6 plants	1910	62	46.4	52	.....	.....	.....	10	.....	.....	.....
	1911	83	44.9	75	.....	.....	.....	8	.....	.....	.....
	1912	77	45.1	69	.....	.....	.....	8	.....	.....	.....
Openers:											
7 plants	1910	138	46.0	118	.....	.....	.....	20	.....	.....	.....
	1911	167	45.2	149	.....	.....	.....	18	.....	.....	.....
	1912	180	45.8	156	.....	.....	.....	24	.....	.....	.....
Picklers:											
4 plants	1910	50	70.8	.....	.....	.....	5	.....	45	.....	.....
	1911	49	71.8	.....	.....	.....	5	.....	40	.....	4
5 plants	1911	58	71.2	.....	.....	.....	5	9	40	.....	4
	1912	39	71.7	.....	.....	.....	5	6	22	.....	6
Laborers:											
9 plants	1910	347	63.1	.....	2	12	223	44	55	2	9
	1911	361	63.6	.....	4	13	191	90	56	.....	7
	1912	354	63.5	.....	2	11	192	91	54	4	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK, BY YEARS, 1910 TO 1912—Concluded.

SHEET MILLS—Concluded.

PER CENT.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Pair heaters:											
9 plants	1910	210	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	255	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	249	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Rollers:											
9 plants	1910	215	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	259	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	252	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Roughers:											
9 plants	1910	215	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	255	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	252	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Catchers:											
9 plants	1910	215	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	258	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	252	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Matchers:											
9 plants	1910	210	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	255	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	249	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Doublers:											
9 plants	1910	210	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	252	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	246	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Sheet heaters:											
9 plants	1910	215	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	259	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	253	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Sheet heaters' helpers:											
8 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	215	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	208	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Shearmen:											
7 plants	1910	85	46.0	85.9	.....	.....	.....	14.1	.....	.....	.....
	1911	104	44.9	90.4	.....	.....	.....	9.6	.....	.....	.....
	1912	105	44.9	90.5	.....	.....	.....	9.5	.....	.....	.....
Shearmen's helpers:											
6 plants	1910	62	46.4	83.9	.....	.....	.....	16.1	.....	.....	.....
	1911	83	44.9	90.4	.....	.....	.....	9.6	.....	.....	.....
	1912	77	45.1	89.6	.....	.....	.....	10.4	.....	.....	.....
Openers:											
7 plants	1910	138	46.0	85.5	.....	.....	.....	14.5	.....	.....	.....
	1911	167	45.2	89.2	.....	.....	.....	10.8	.....	.....	.....
	1912	180	45.8	86.7	.....	.....	.....	13.3	.....	.....	.....
Picklers:											
4 plants	1910	50	70.8	.....	.....	.....	10.0	.....	90.0	.....	.....
	1911	49	71.8	.....	.....	.....	10.2	.....	81.6	.....	8.2
5 plants	1911	58	71.2	.....	.....	.....	8.6	15.5	69.0	.....	6.9
	1912	39	71.7	.....	.....	.....	12.8	15.4	56.4	.....	15.4
Laborers:											
9 plants	1910	347	63.1	.....	0.6	3.5	64.3	12.7	15.9	0.6	2.6
	1911	361	63.6	.....	1.1	3.6	52.9	24.9	15.5	.....	1.9
	1912	354	63.5	.....	.6	3.1	54.2	25.7	15.3	1.1	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TINPLATE MILLS.

SUMMARY.

Summary figures relating to the tinplate-mill department of the iron and steel industry are given with figures for other departments in the introductory summary on pages 7 to 15. An explanation of the scope of the investigation and of the methods employed is given on pages 16 to 22.

Briefly summarized the average full-time weekly earnings of employees in the tinplate-mill department in 1912 were 13.3 per cent higher than in 1910 and 1.4 per cent higher than in 1911. The average full-time hours of labor per week in 1912 were 0.4 per cent lower than in 1910 and 0.2 per cent lower than in 1911. The average rate of wages or earnings per hour in 1912 was 13.5 per cent higher than in 1910 and 1.4 per cent higher than in 1911.

The most significant facts concerning the several occupations of the tinplate-mill department are summarized in the table following. Data are presented for the years 1910, 1911, and 1912. Two groups of data are given for 1911, one comparable with 1910 and the other with 1912, reports having been obtained from 5 plants for each of the three years and for one additional plant for 1911 and 1912.

Referring to the first occupation, assorters, female, comparison can be made of data for 4 identical plants in 1910 and 1911 and for 5 identical plants in 1911 and 1912. The first line of the table is read as follows: In 1910 the 4 tinplate mills from which reports were obtained employed 101 assorters, female, whose average full-time hours of work were 49.7 per week. For 45.5 per cent the full-time hours per week were 48 or under; for 7.9 per cent, over 48 or under 56; and for 46.5 per cent, 56 or under 60 hours. The average rate of wages or earnings per hour of assorters, female, in the year considered (1910), was $0.128. Of the total number 92.1 per cent earned under 14 cents per hour and the remaining 7.9 per cent 14 or under 16 cents per hour. The average full-time weekly earnings were $6.41. The other lines of the table may be read in the same manner.

Referring to the last column of the table, it is seen that in 4 plants the average full-time weekly earnings of assorters, female, were $6.41. In 1911 for the same 4 plants the average had increased to $6.97. In 1911 in 5 plants the average full-time weekly earnings were $7.03, increasing in 1912 to $7.39. Comparing the average full-time weekly

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

earnings for 1912 for the several occupations, it is seen that the lowest average was that of shearmen's helpers which was $7.18, and the highest that of rollers which was $46.87.

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—TINPLATE MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60		Under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 cts. and over.	
Assorters, female:														
4 plants	1910	101	49.7	45.5	7.9	46.5	.....	.....	$0.128	92.1	7.9	.....	.....	$6.41
	1911	112	50.2	41.1	8.0	50.9	.....	.....	.138	92.0	2.7	.....	5.4	6.97
5 plants	1911	120	50.7	38.3	7.5	54.2	.....	.....	.138	92.5	2.5	.....	5.0	7.03
	1912	127	51.4	37.0	3.9	59.1	.....	.....	.145	69.3	.8	26.8	3.1	7.39
Branners:														
2 plants	1910	12	67.8	.....	.....	.....	.....	100.0	.170	.....	.....	100.0	.....	11.52
	1911	20	67.7	.....	.....	.....	.....	100.0	.170	.....	.....	100.0	.....	11.50
	1912	16	67.7	.....	.....	.....	.....	100.0	.170	.....	.....	100.0	.....	11.51
Laborers:														
4 plants	1910	191	60.6	.....	.....	52.9	24.1	23.0	.165	.....	27.2	72.8	.....	9.97
	1911	201	60.4	.....	4.5	39.3	36.3	19.9	.163	3.0	30.8	66.2	.....	9.84
5 plants	1911	238	61.0	.....	3.8	33.2	37.8	25.2	.164	2.5	26.1	71.4	.....	10.01
	1912	239	61.3	.....	.4	34.7	40.6	24.2	.169	.....	4.2	95.8	.....	10.37
Shearmen's helpers:														
2 plants	1910	25	61.8	.....	.....	.....	80.0	20.0	.118	80.0	20.0	.....	.....	7.31
	1911	31	59.7	.....	.....	25.8	74.2	.....	.118	96.8	3.2	.....	.....	7.02
	1912	29	58.8	.....	24.1	.....	75.9	.....	.123	75.9	17.2	6.9	.....	7.18
										Under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 cts. and over.	
Assorters, male:														
1 plant	1911	2	55.0	.....	100.0	.....	.....	.....	.263	.....	100.0	.....	.....	14.44
	1912	2	55.0	.....	100.0	.....	.....	.....	.275	.....	50.0	50.0	.....	15.13
Doubler's helpers:														
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.324	.....	34.5	65.5	.....	13.82
	1911	179	42.7	100.0	.....	.....	.....	.....	.353	.....	.....	100.0	.....	15.05
6 plants	1911	191	42.7	100.0	.....	.....	.....	.....	.351	.....	.....	100.0	.....	14.97
	1912	193	42.7	100.0	.....	.....	.....	.....	.370	.....	1.0	87.0	11.9	15.81
Openers, male:														
3 plants	1910	94	57.5	.....	16.0	84.0	.....	.....	.221	100.0	.....	.....	.....	12.72
	1911	76	57.3	.....	25.0	75.0	.....	.....	.262	25.0	75.0	.....	.....	15.02
4 plants	1911	84	57.3	.....	22.6	77.4	.....	.....	.266	22.6	77.4	.....	.....	15.24
	1912	89	57.5	.....	15.7	84.3	.....	.....	.298	.....	39.3	60.7	.....	17.12
Openers, female:														
2 plants	1910	13	45.5	76.9	23.1	.....	.....	.....	.244	69.2	30.8	.....	.....	11.08
	1911	17	44.1	88.2	11.8	.....	.....	.....	.231	100.0	.....	.....	.....	10.22
1 plant	1911	15	42.7	100.0	.....	.....	.....	.....	.230	100.0	.....	.....	.....	9.81
	1912	18	42.7	100.0	.....	.....	.....	.....	.209	72.2	27.8	.....	.....	8.93
Risers:														
2 plants	1910	34	44.1	88.2	11.8	.....	.....	.....	.262	50.0	29.4	20.6	.....	11.51
	1911	39	45.0	84.6	5.1	10.3	.....	.....	.279	46.2	15.4	38.5	.....	12.51
3 plants	1911	42	44.8	85.7	4.8	9.5	.....	.....	.275	50.0	14.3	35.7	.....	12.30
	1912	30	50.1	40.0	60.0	.....	.....	.....	.239	66.6	23.3	10.0	.....	11.98
Screw boys:														
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.308	16.6	16.7	66.7	....	13.15
	1911	186	42.7	100.0	.....	.....	.....	.....	.342	3.2	18.8	77.4	.5	14.61
6 plants	1911	198	42.7	100.0	.....	.....	.....	.....	.345	3.0	17.7	78.8	.5	14.72
	1912	221	42.7	100.0	.....	.....	.....	.....	.352	5	19.0	38.9	41.6	15.03

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND RATES OF WAGES PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS IN EACH OF THE PRINCIPAL OCCUPATIONS, 1910 TO 1912—TINPLATE MILLS—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Per cent of employees whose full-time hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				Average full-time weekly earnings.
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60		Under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 cts. and over.	
Catchers:														
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	$0.427	41.9	4.6	53.4	.....	$18.23
	1911	186	42.7	100.0	.....	.....	.....	.....	.481	35.0	11.3	53.8	.....	20.52
6 plants	1911	198	42.7	100.0	.....	.....	.....	.....	.487	32.8	10.6	56.6	.....	20.79
	1912	239	42.7	100.0	.....	.....	.....	.....	.403	38.9	54.0	5.4	1.7	17.20
Heaters' helpers:														
4 plants	1910	165	42.7	100.0	.....	.....	.....	.....	.348	100.0	.....	.....	.....	14.84
	1911	154	42.7	100.0	.....	.....	.....	.....	.438	59.7	1.3	38.9	.....	18.71
5 plants	1911	166	42.7	100.0	.....	.....	.....	.....	.436	55.4	8.4	36.1	.....	18.60
	1912	109	42.7	100.0	.....	.....	.....	.....	.396	75.2	10.1	14.7	.....	16.92
Roughers:														
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.425	34.5	56.9	8.6	.....	18.14
	1911	184	42.7	100.0	.....	.....	.....	.....	.506	.....	43.5	56.5	.....	21.60
6 plants	1911	196	42.7	100.0	.....	.....	.....	.....	.507	.....	40.8	59.1	.....	21.63
	1912	216	42.7	100.0	.....	.....	.....	.....	.513	.5	38.4	59.3	1.9	21.89
Shearmen:														
5 plants	1910	58	52.7	53.4	12.1	.....	34.5	.....	.497	24.1	20.7	55.2	.....	25.68
	1911	61	53.1	50.8	11.5	.....	37.7	.....	.548	6.6	41.0	3.3	49.2	28.50
6 plants	1911	65	52.8	53.8	10.8	.....	35.4	.....	.555	6.2	38.5	3.1	52.3	28.72
	1912	72	51.8	59.7	9.7	.....	30.6	.....	.573	16.7	25.0	15.3	43.1	29.00
Tinners:														
4 plants	1910	224	42.9	98.2	1.8	.....	.....	.....	.402	53.9	43.3	1.3	1.3	17.27
	1911	262	43.0	97.7	.8	1.5	.....	.....	.439	27.1	68.7	2.7	1.5	18.92
5 plants	1911	283	43.0	97.9	.7	1.4	.....	.....	.429	32.5	63.6	2.5	1.4	18.48
	1912	294	43.4	93.9	6.1	.....	.....	.....	.444	40.8	24.1	33.3	1.7	19.28
										Under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.	
Doublers:														
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.632	19.6	16.7	13.2	50.6	26.97
	1911	193	42.7	100.0	.....	.....	.....	.....	.698	2.6	13.5	41.5	42.5	29.80
6 plants	1911	205	42.7	100.0	.....	.....	.....	.....	.706	2.4	12.7	39.0	45.9	30.13
	1912	247	42.7	100.0	.....	.....	.....	.....	.677	5.7	26.7	11.3	56.3	28.90
Heaters:														
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.648	20.1	19.0	7.5	53.4	27.63
	1911	203	42.7	100.0	.....	.....	.....	.....	.709	.....	10.8	60.6	28.6	30.24
6 plants	1911	215	42.7	100.0	.....	.....	.....	.....	.714	.....	10.2	57.2	32.6	30.47
	1912	314	42.7	100.0	.....	.....	.....	.....	.675	.....	23.6	57.6	18.8	28.78
Redippers:														
1 plant	1910	14	46.2	71.4	28.6	.....	.....	.....	.570	14.3	50.0	35.7	.....	26.56
	1911	17	47.2	70.6	5.9	23.5	.....	.....	.619	5.9	35.3	52.9	5.9	29.32
	1912	10	55.0	.....	100.0	.....	.....	.....	.592	10.0	30.0	60.0	.....	32.58
Rollers:														
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	1.025	.6	.6	2.9	96.0	43.73
	1911	189	42.7	100.0	.....	.....	.....	.....	1.103	.....	.....	.5	99.5	47.05
6 plants	1911	201	42.7	100.0	.....	.....	.....	.....	1.109	.....	.....	.5	99.5	47.33
	1912	229	42.7	100.0	.....	.....	.....	.....	1.097	.....	.....	.....	100.0	46.82

Owing to the change in the number of plants between 1910 and 1912 and the consequent difference in the averages for the two groups of plants in 1911, it is difficult to make a comparison of the actual data

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

for the three years which will give an accurate measure of the changes throughout the period. To aid in making such comparisons relative or index numbers have been computed from the averages of the preceding table for the full-time hours per week, rates of wages per hour, and full-time weekly earnings of each occupation from 1910 to 1912, inclusive. Such figures appear in the table following.

These relative or index numbers are simply percentages from which the data for 1912 are taken as the base, or 100 per cent. The relative for each year is the per cent which the average for that year is of the average for 1912. For example, the relative full-time weekly earnings of rollers in 1910 were 94.0 as compared with 100 in 1912, that is, the full-time weekly earnings of rollers in 1910 were 94.0 per cent of the full-time weekly earnings in this occupation in 1912. The method of computing the relative numbers is explained on page 21.

This table also shows for each occupation the per cent of increase or decrease in full-time hours per week, rates of wages per hour, and full-time weekly earnings in 1912 as compared with each specified year preceding. Thus the full-time weekly earnings of rollers in 1912 were 6.4 per cent higher than in 1910 and 1.1 per cent lower than in 1911.

In other columns of the table is shown the per cent of change in each year as compared with the year immediately preceding. Thus the full-time weekly earnings of rollers in 1911 were 7.6 per cent higher than in 1910 and in 1912 1.3 per cent lower than in 1911. The other occupations and items of the table can be studied in like manner. The percentages of increase and decrease are computed from the relative numbers.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS BY PRINCIPAL OCCUPATIONS—TINPLATE MILLS.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
Rollers:									
1910	100.0	(1)	.....	93.9	+ 6.5	.....	94.0	+ 6.4	.....
1911	100.0	(1)	(1)	101.1	− 1.1	+ 7.7	101.1	− 1.1	+ 7.6
1912	100.0	.....	(1)	100.0	.....	− 1.1	100.0	.....	− 1.1
Roughers:									
1910	100.0	(1)	.....	83.0	+20.5	.....	83.0	+20.5	.....
1911	100.0	(1)	(1)	98.8	+ 1.2	+19.0	98.8	+ 1.2	+19.0
1912	100.0	.....	(1)	100.0	.....	+ 1.2	100.0	.....	+ 1.2
Catchers:									
1910	100.0	(1)	.....	107.3	− 6.8	.....	107.4	− 6.9	.....
1911	100.0	(1)	(1)	120.8	−17.2	+12.6	120.9	−17.3	+12.6
1912	100.0	.....	(1)	100.0	.....	−17.2	100.0	.....	−17.3

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, BY PRINCIPAL OCCUPATIONS—TINPLATE MILLS—Concluded.

Occupation and year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
Screw boys:									
1910	100.0	(1)	.....	88.3	+13.3	.....	88.2	+13.4	.....
1911	100.0	(1)	(1)	98.0	+ 2.0	+11.0	97.9	+ 2.1	+11.0
1912	100.0	.....	(1)	100.0	.....	+ 2.0	100.0	.....	+ 2.1
Doublers:									
1910	100.0	(1)	.....	94.4	+ 5.9	.....	94.4	+ 5.9	.....
1911	100.0	(1)	(1)	104.3	− 4.1	+10.5	104.3	− 4.1	+10.5
1912	100.0	.....	(1)	100.0	.....	− 4.1	100.0	.....	− 4.1
Doublers' helpers:									
1910	100.0	(1)	.....	87.1	+14.8	.....	86.9	+15.1	.....
1911	100.0	(1)	(1)	94.9	+ 5.4	+ 9.0	94.7	+ 5.6	+ 9.0
1912	100.0	.....	(1)	100.0	.....	+ 5.4	100.0	.....	+ 5.6
Heaters:									
1910	100.0	(1)	.....	96.7	+ 3.4	.....	96.7	+ 3.4	.....
1911	100.0	(1)	(1)	105.8	− 5.5	+ 9.4	105.9	− 5.6	+ 9.5
1912	100.0	.....	(1)	100.0	.....	− 5.5	100.0	.....	− 5.6
Heaters' helpers:									
1910	100.0	(1)	.....	87.5	+14.3	.....	87.2	+14.7	.....
1911	100.0	(1)	(1)	110.1	− 9.2	+25.8	109.9	− 9.0	+26.0
1912	100.0	.....	(1)	100.0	.....	− 9.2	100.0	.....	− 9.0
Shearmen:									
1910	101.2	− 1.2	.....	87.8	+13.9	.....	89.2	+12.1	.....
1911	101.9	− 1.9	+ 0.7	96.9	+3.2	+10.4	99.0	+ 1.0	+11.0
1912	100.0	.....	− 1.9	100.0	.....	+ 3.2	100.0	.....	+ 1.0
Shearmen's helpers:									
1910	105.1	− 1.9	.....	95.9	+ 4.3	.....	101.8	− 1.8	.....
1911	101.5	+ 1.5	− 3.4	95.9	+ 4.3	(1)	97.8	+ 2.2	− 3.9
1912	100.0	.....	− 1.5	100.0	.....	+ 4.3	100.0	.....	+ 2.2
Openers, male:									
1910	100.0	(1)	.....	75.3	+32.8	.....	75.4	+32.6	.....
1911	99.7	+ .3	− .3	89.3	+12.0	+18.6	89.0	+12.4	+18.0
1912	100.0	.....	+ .3	100.0	.....	+12.0	100.0	.....	+12.4
Openers, female:									
1910	103.2	− 3.1	.....	116.2	−13.9	.....	119.1	−16.0	.....
1911	100.0	(1)	− 3.1	110.0	− 9.1	− 5.3	109.9	− 9.0	− 7.7
1912	100.0	.....	(1)	100.0	.....	− 9.1	100.0	.....	− 9.0
Tinners:									
1910	98.8	+ 1.2	.....	88.5	+13.0	.....	87.5	+14.3	.....
1911	99.1	+ .9	+ .3	96.6	+ 3.5	+ 9.2	95.9	+ 4.3	+ 9.6
1912	100.0	.....	+ .9	100.0	.....	+ 3.5	100.0	.....	+ 4.3
Redippers:									
1910	84.0	+19.0	.....	96.3	+ 3.8	.....	81.5	+22.7	.....
1911	85.8	+16.6	+ 2.1	104.6	− 4.4	+ 8.6	90.0	+11.1	+10.4
1912	100.0	.....	+16.6	100.0	.....	− 4.4	100.0	.....	+11.1
Risers:									
1910	87.6	+14.2	.....	108.1	− 7.5	.....	94.5	+ 5.8	.....
1911	89.4	+11.9	+ 2.1	115.1	−13.1	+ 6.5	102.7	− 2.6	+ 8.7
1912	100.0	.....	+11.9	100.0	.....	−13.1	100.0	.....	− 2.6
Branners:									
1910	100.1	− .1	.....	100.0	(1)	.....	100.1	− .1	.....
1911	100.0	(1)	− .1	100.0	(1)	(1)	99.9	+ .1	− .2
1912	100.0	.....	(1)	100.0	.....	(1)	100.0	.....	+ .1
Assorters, male:									
1910	.....	.....	.....	.....	.....	.....	.....	.....	.....
1911	100.0	(1)	.....	95.6	+ 4.6	.....	95.4	+ 4.8	.....
1912	100.0	.....	(1)	100.0	.....	+ 4.6	100.0	.....	+ 4.8
Assorters, female:									
1910	97.7	+ 2.4	.....	88.3	+13.3	.....	87.5	+14.3	.....
1911	98.6	+ 1.4	+ .9	95.2	+ 5.0	+ 7.8	95.1	+ 5.2	+ 8.7
1912	100.0	.....	+ 1.4	100.0	.....	+ 5.0	100.0	.....	+ 5.2
Laborers:									
1910	99.8	+ .2	.....	98.2	+ 1.8	.....	97.[1]	+ 2.2	.....
1911	99.5	+ .5	− .3	97.0	+ 3.1	− 1.2	96.5	+ 3.6	− 1.3
1912	100.0	.....	+ .5	100.0	.....	+ 3.1	100.0	.....	+ 3.6

[1] No change.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

A like table of relative numbers and percentages is next shown for the tinplate-mill department as a whole, as determined by a combination of the data for the several principal productive occupations of the department which are covered by this report. The method of computing the figures of this table is explained on page 22.

From this table under "weekly earnings" it is seen that the relative full-time weekly earnings of the department as a whole in 1910 were 88.3, as compared with 100 in 1912. In other words, the full-time weekly earnings in 1910 were 88.3 per cent of such earnings in 1912. The relative increases to 98.6 in 1911 and in 1912, the base year, the relative is 100. The next column shows the full-time weekly earnings in 1911 were 13.3 per cent higher than in 1910 and 1.4 per cent higher than in 1911. The third column under "weekly earnings" shows the per cent of increase or decrease in full-time weekly earnings each year as compared with the year immediately preceding. Thus, the full-time weekly earnings in 1911 were 11.7 per cent higher than in 1910 and in 1912 1.4 per cent higher than in 1911. The relative numbers and percentages for full-time hours per week and rates of wages per hour can be read in like manner.

RELATIVE FULL-TIME HOURS PER WEEK, RATES OF WAGES PER HOUR, AND FULL-TIME WEEKLY EARNINGS, 1910 TO 1912, TOGETHER WITH PER CENT OF INCREASE OR DECREASE IN SPECIFIED YEARS, ALL OCCUPATIONS—TINPLATE MILLS.

Year.	Hours per week.			Wages per hour.			Weekly earnings.		
		Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—			Per cent of increase (+) or decrease (−) in—	
	Relative full-time hours per week.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative rate of wages per hour.	1912 as compared with each specified year.	Each specified year as compared with year preceding.	Relative full-time weekly earnings.	1912 as compared with each specified year.	Each specified year as compared with year preceding.
1910	100.4	−0.4	.....	88.1	+13.5	.....	88.3	+13.3	.....
1911	100.2	− .2	−0.2	98.6	+ 1.4	+11.9	98.6	+ 1.4	+11.7
1912	100.0	.....	− .2	100.0	.....	+ 1.4	100.0	.....	+ 1.4

In considering weekly earnings it should be remembered that a reduction of hours tends to reduce weekly earnings, just as an increase in wages per hour, of course, tends to increase them. Still another influence on average weekly earnings for the department must be considered; that is, the change in the relative number of employees in the several occupations from year to year. It is obvious that an increase in the relative number of employees in the lower-paid occupations or a decrease in the relative number of those in the higher-paid ones would tend to lower the average for all occu-

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

pations, just as an increase in the relative number of employees in the higher-paid occupations or a decrease in the relative number in the lower-paid ones would tend to increase the average.

The number and per cent of employees in tinplate-mill plants whose customary working time per week was 5 days or turns, or 6 days, or 7 days, or variations thereof, are shown in the following table. It will be noticed that the customary working time of nearly 80 per cent of the employees in this department was "5 days, 5 days, and 6 days in rotation." In all of the plants covered the regular turn employees were divided into three crews, each working 8 hours per turn, 5 turns per week, Monday to Friday, inclusive, with one crew working an extra turn Saturday morning. Each crew advanced one turn each week, this giving each crew the extra Saturday turn every third week.

NUMBER AND PER CENT OF EMPLOYEES WORKING EACH SPECIFIED NUMBER OF DAYS PER WEEK, BY YEARS, 1910 TO 1912—TINPLATE MILLS.

[The figures set opposite each bracketed group of years are for identical plants.]

Number of plants.	Year.	Number of employees.	Number of employees whose customary working time per week was—					Per cent of employees whose customary working time per week was—				
			5 days.	5 and 6 days alternately.	5 days, 5 days, and 6 days in rotation.	6 days.	7 days.	5 days.	5 and 6 days alternately.	5 days, 5 days, and 6 days in rotation.	6 days.	7 days.
Five plants	1910	2,149	2	12	1,702	433	.....	0.1	0.6	79.2	20.1	.....
	1911	2,310	2	11	1,839	457	1	.1	.5	79.6	19.8	(1)
Six plants	1911	2,487	2	11	1,959	514	1	.1	.4	78.8	20.7	(1)
	1912	2,694	.....	41	2,128	525	.....	.....	1.5	79.0	19.5	.....

[1] Less than one-tenth of 1 per cent.

In addition to the text tables presented in the summary, two general tables are presented for the tinplate-mill department, as follows:

Table I.—Average full-time weekly earnings and average and classified rates of wages per hour, by years, 1910 to 1912.

Table II.—Average and classified full-time hours of work per week, by years, 1910 to 1912.

In Tables I and II, in addition to actual data, percentages computed therefrom are given. The data from these two tables are summarized in the text table on pages 533 and 534.

A brief description of the function of the tinplate mill is presented on page 25.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

DESCRIPTION OF OCCUPATIONS.

The following description of occupations refers only to those occupations which appear in the tables of this report—these being nearly all of the principal productive occupations in the tinplate-mill department.

The order in which the occupations are given follows that of the processes of manufacture.

ROLLERS.

Duties.—The roller alternates with the rougher, doing the second rolling when two sheets are being rolled, and giving the finishing passes to the pack of eight sheets, the fourth rolling of the steel. The sheets are passed through the rolls, caught by the catcher or his helper, and returned over the top of the roll. During the finishing passes the roller himself operates the screw which regulates the distance between the rolls and the gauge of the product. He gauges the length with a steel measuring rod and notifies the catcher when the sheets are finished.

Nature of work.—The roller is the practical foreman in charge of a hot mill unit which consists of furnaces and set of hot rolls, and of the operating crew. The work requires much skill and experience in handling materials and crew, gained usually by working up through the lower positions. The actual work of rolling is about evenly divided between the roller and his rougher. The material passes through four stages of heating and rolling—the roller usually working the metal during the second and fourth stages. The roller is held responsible for the successful operation and working condition of his mill and the quality of the product. His attention is required constantly. The work is performed at high speed.

ROUGHERS.

Duties.—The rougher works at the front of rolls and the catcher or catcher's helper at the back. A pair of heated tin bars is delivered to the rougher by the doubler or his helper and the two bars given in succession several passes through the rolls and then laid one on top of the other and given one or more passes, the catcher in each instance returning them over the top roll. After the last of these passes the rougher delivers the pair to the heater or his helper, who puts it in the sheet furnace and reheats. A number of pairs are given this preliminary rolling and charged in the sheet furnace. The next rolling is done by the roller. After this second rolling, and doubling and reheating, the heater or his helper returns the sheets to the rougher for a third rolling. The rougher again delivers the sheets to the doubler or his helper for redoubling.

Nature of work.—The rapid handling of tin bars and sheets requires constant attention and a knowledge of rolling nearly equal to

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

that of the roller himself. The rougher determines whether the pairs brought to him are properly heated and rejects them if they appear unequally and improperly heated.

CATCHERS.

Duties.—The catcher and his helper perform the same duties, alternating with each other. They catch the bars or sheets when passed through by the rougher or the roller, lift them and pass them back over the top of the rolls, and when finished make a neat pile of the packs ready for transfer to pack shears.

Nature of work.—The work is done, of course, at the same relative speed as that of the men at front of rolls, with the additional labor required to lift the material to top of rolls, and to remove and pile finished packs.

SCREW BOYS.

Duties.—The screw boy assists the doubler or doubler's helper in charging the pair heating furnace with tin bar. He operates the screw which regulates the distance between the rolls during the rolling of the bars and of the pair after being heated in the sheet furnace, pulls the pair off the rolls and delivers to doubler or doubler's helper for doubling. Operates the screw again during the rolling of the doubled sheets.

Nature of work.—Moderately light, but very rapid work, with a rest period during the time the roller makes the finishing passes and operates the screw himself.

DOUBLERS AND DOUBLERS' HELPERS.

Duties.—Fire the pair heating furnace and keep the grate bars clean, and, assisted by the screw boy, charge and superintend the heating of tin bar in this furnace. After two sheets have been rolled together open them with tongs, match and double them over, place in press and flatten the fold, then shear and trim the rough end and deliver to heater or heater's helper. Again after the doubled sheets have been rolled open them up and double a second time and deliver again to the heater or heater's helper.

Nature of work.—Requires some knowledge of heating steel, quick and accurate handling of the sheets in opening and doubling them, and care in shearing. The doubler and helper perform the same work and alternate with each other either at stated intervals or after handling a certain number of pairs.

HEATERS AND HEATERS' HELPERS.

Duties.—Fire and regulate the sheet furnace and keep grate bars clean. Receive the pairs of sheets after first rolling by rougher, charge them into furnace, reheat, remove, and deliver to roller for

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

second rolling. Receive doubled sheets from doubler or his helper after doubling and shearing, charge and reheat and deliver to rougher for third rolling. Receive sheets from doubler or his helper after redoubling, charge into furnace and reheat and deliver to roller for fourth rolling and finishing.

Nature of work.—Hard manual labor requiring sturdy physique and skill in handling and heat treating the sheets in their different stages of manufacture, first as a pair of sheets rolled together, then as four sheets after first doubling and again the short pack of eight sheets after redoubling. These men spell each other at certain stages, and at others work together.

SHEARMEN AND SHEARMEN'S HELPERS.

Duties.—The shearman has to square and trim the packs to a specified size. In order to supply him with sufficient work, he usually shears the rolled product of two mills, and is assisted by a helper in removing pack from pile and placing it on shear table, and in removing the sheared sheets and piling them again. The helper also takes away the scrap and throws it into scrap pit.

Nature of work.—Requires considerable attention at all times to get the maximum weight of finished sheets of specified size. Moderately heavy manual labor and continuous during turn.

OPENERS.

Duties.—The packs each containing 8 sheets rolled together having been sheared and cut in two represent 16 sheets which must be separated for further treatment. They are placed on benches in the opening department and there opened by men or women. The packs are first bent at one corner and piled edge up on the benches. The opener then grasps a pack of 8 sheets and, wearing a glove with block of lead fastened inside, strikes these corners, opening as a rule one sheet at a time. The opener then tears them apart and piles them flat with the opening corners matched. Sheets difficult to open are laid aside and usually opened by "sticker openers."

Nature of work.—The work is heavy, continuous during the turn, and requires great dexterity.

TINNERS.

Duties.—After the sheets have been opened, black pickled, annealed, cold rolled, annealed again and white pickled, they are removed to the tin house. The tinner, standing in front of the tinning machine, takes the sheets one at a time and feeds them downward into the machine which contains the molten tin.

Nature of work.—Light and steady, continuous work. Requires considerable dexterity in handling and feeding the sheets.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

REDIPPERS.

Duties.—As the plate rises, with its first coating of tin, it is received by the redipper who immediately dips it into another bath of molten tin, and feeds it down into the palm oil through two of three rolls that revolve at the top of this compartment.

Nature of work.—Light and steady, continuous work.

RISERS.

Duties.—When the plate is fed down into the palm oil by the redipper, the riser by means of a hook starts it upward again, and as it appears between the second and third revolving rolls, receives and places it on a rack.

Nature of work.—Light and steady continuous work, and usually done rapidly.

BRANNERS.

Duties.—There are two branners for each tinning machine. The first takes the plate from the rack where it was placed by the riser and works it back and forth in bran or "sharps" in the shallow box on the table before him and then places it in a rack in reach of a second branner who performs the same operation again, after which a "duster" wipes off with a soft sheepskin the bran dust that remained on the plate. Sometimes the branners both bran and dust the plates.

Nature of work.—Light manual labor.

ASSORTERS.

Duties.—Assorters are usually females. The finished tin plate is placed on a bench in front of the assorter who quickly lifts each sheet, estimates the weight and examines it on each side for flaws and improper coating. Assorters throw the sheets usually into four or more piles—those that are defective in one pile, and those that are perfect in other piles, as determined by their skill in estimating the slight differences in weight.

Nature of work.—Requires very quick hands and eyes, and great skill in determining weight. In mills where the assorters have to remove the assorted tin the work is heavy.

LABORERS.

Duties.—Clean up and do the many odd jobs around the mill.

Nature of work.—Chiefly light, and requiring only unskilled workmen.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR, BY YEARS, 1910 TO 1912.

TINPLATE MILLS.

[All the plants reported are in the Pittsburgh district. The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Rollers:																
5 plants	1910	174	42.7	$1.025	$43.73	.....	.....	.....	.....	.....	.....	.....	1	1	5	167
	1911	189	42.7	1.103	47.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	188
6 plants	1911	201	42.7	1.109	47.33	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	200
	1912	229	42.7	1.097	46.82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	229
Roughers:																
5 plants	1910	174	42.7	.425	18.14	.....	.....	.....	.....	.....	.....	60	99	15	.....	.....
	1911	184	42.7	.506	21.60	.....	.....	.....	.....	.....	.....	.....	80	104	.....	.....
6 plants	1911	196	42.7	.507	21.63	.....	.....	.....	.....	.....	.....	.....	80	116	.....	.....
	1912	216	42.7	.513	21.89	.....	.....	.....	.....	.....	.....	1	83	128	4	.....
Catchers:																
5 plants	1910	174	42.7	.427	18.23	.....	.....	1	2	9	22	39	8	93	.....	.....
	1911	186	42.7	.481	20.52	.....	.....	.....	.....	2	4	59	21	100	.....	.....
6 plants	1911	198	42.7	.487	20.79	.....	.....	.....	.....	2	4	59	21	112	.....	.....
	1912	239	42.7	.403	17.20	.....	.....	.....	.....	6	8	79	129	13	4	.....
Screw boys:																
5 plants	1910	174	42.7	.308	13.15	.....	.....	1	2	26	29	116	.....	.....	.....	.....
	1911	186	42.7	.342	14.61	.....	.....	.....	.....	6	35	144	1	.....	.....	.....
6 plants	1911	198	42.7	.345	14.72	.....	.....	.....	.....	6	35	156	1	.....	.....	.....
	1912	221	42.7	.352	15.03	.....	.....	.....	.....	1	42	86	92	.....	.....	.....
Doublers:																
5 plants	1910	174	42.7	.632	26.97	.....	.....	.....	.....	1	1	8	24	29	23	88
	1911	193	42.7	.698	29.80	.....	.....	.....	.....	.....	.....	.....	5	26	80	82
6 plants	1911	205	42.7	.706	30.13	.....	.....	.....	.....	.....	.....	.....	5	26	80	94
	1912	247	42.7	.677	28.90	.....	.....	.....	.....	.....	.....	.....	14	66	28	139
Doublers' helpers:																
5 plants	1910	174	42.7	.324	13.82	.....	.....	.....	.....	.....	60	114	.....	.....	.....	.....
	1911	179	42.7	.353	15.05	.....	.....	.....	.....	.....	.....	179	.....	.....	.....	.....
6 plants	1911	191	42.7	.351	14.97	.....	.....	.....	.....	.....	.....	191	.....	.....	.....	.....
	1912	193	42.7	.370	15.81	.....	.....	.....	.....	.....	2	168	23	.....	.....	.....
Heaters:																
5 plants	1910	174	42.7	.648	27.63	.....	.....	.....	.....	1	1	10	23	33	13	93
	1911	203	42.7	.709	30.24	.....	.....	.....	.....	.....	.....	.....	.....	22	123	58
6 plants	1911	215	42.7	.714	30.47	.....	.....	.....	.....	.....	.....	.....	.....	22	123	70
	1912	314	42.7	.675	28.78	.....	.....	.....	.....	.....	.....	.....	.....	74	181	59
Heaters' helpers:																
4 plants	1910	165	42.7	.348	14.84	.....	.....	.....	.....	.....	.....	165	.....	.....	.....	.....
	1911	154	42.7	.438	18.71	.....	.....	.....	.....	.....	.....	92	2	60	.....	.....
5 plants	1911	166	42.7	.436	18.60	.....	.....	.....	.....	.....	.....	92	14	60	.....	.....
	1912	109	42.7	.396	16.92	.....	.....	.....	.....	.....	.....	82	11	16	.....	.....
Shearmen:																
5 plants	1910	58	52.7	.497	25.68	.....	.....	.....	.....	.....	.....	14	12	32	.....	.....
	1911	61	53.1	.548	28.50	.....	.....	.....	.....	.....	.....	4	25	2	30	.....
6 plants	1911	65	52.8	.555	28.72	.....	.....	.....	.....	.....	.....	4	25	2	34	.....
	1912	72	51.8	.573	29.00	.....	.....	.....	.....	.....	.....	12	18	11	3	28
Shearmen's helpers:																
2 plants	1910	25	61.8	.118	7.31	[1] 20	5	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1911	31	59.7	.118	7.02	[2] 30	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1912	29	58.8	.123	7.18	[3] 22	5	2	.....	.....	.....	.....	.....	.....	.....	.....

[1] Including 13 employees earning 10 and under 12 cents per hour.
[2] Including 14 employees earning 10 and under 12 cents per hour.
[3] Including 10 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR, BY YEARS, 1910 TO 1912—Continued.

TINPLATE MILLS—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Openers, male:																
3 plants	1910	94	57.5	$0.221	$12.72	.....	.....	.....	19	75	.....	.....	.....	.....	.....	.....
	1911	76	57.3	.262	15.02	.....	.....	.....	.....	19	57	.....	.....	.....	.....	.....
4 plants	1911	84	57.3	.266	15.24	.....	.....	.....	.....	19	65	.....	.....	.....	.....	.....
	1912	89	57.5	.298	17.12	.....	.....	.....	.....	.....	35	54	.....	.....	.....	.....
Openers, female:																
2 plants	1910	13	45.5	.244	11.08	.....	.....	.....	.....	9	4	.....	.....	.....	.....	.....
	1911	17	44.1	.231	10.22	.....	.....	.....	.....	17	.....	.....	.....	.....	.....	.....
1 plant	1911	15	42.7	.230	9.81	.....	.....	.....	.....	15	.....	.....	.....	.....	.....	.....
	1912	18	42.7	.209	8.93	7	.....	.....	.....	6	5	.....	.....	.....	.....	.....
Tinners:																
4 plants	1910	224	42.9	.402	17.27	.....	.....	.....	.....	3	33	85	97	3	3	.....
	1911	262	43.0	.439	18.92	.....	.....	.....	.....	.....	2	69	180	7	4	.....
5 plants	1911	283	43.0	.429	18.48	.....	.....	.....	.....	.....	2	90	180	7	4	.....
	1912	294	43.4	.444	19.28	.....	.....	.....	.....	.....	6	114	71	98	5	.....
Redippers:																
1 plant	1910	14	46.2	.570	26.56	.....	.....	.....	.....	.....	.....	.....	2	7	5	.....
	1911	17	47.2	.619	29.32	.....	.....	.....	.....	.....	.....	.....	1	6	9	1
	1912	10	55.0	.592	32.58	.....	.....	.....	.....	.....	.....	.....	1	3	6	.....
Risers:																
2 plants	1910	34	44.1	.262	11.51	.....	.....	.....	.....	17	10	7	.....	.....	.....	.....
	1911	39	45.0	.279	12.51	.....	.....	.....	.....	18	6	15	.....	.....	.....	.....
3 plants	1911	42	44.8	.275	12.30	.....	.....	.....	.....	21	6	15	.....	.....	.....	.....
	1912	30	50.1	.239	11.98	.....	.....	.....	4	16	7	3	.....	.....	.....	.....
Branners:																
2 plants	1910	12	67.8	.170	11.52	.....	.....	12	.....	.....	.....	.....	.....	.....	.....	.....
	1911	20	67.7	.170	11.50	.....	.....	20	.....	.....	.....	.....	.....	.....	.....	.....
	1912	16	67.7	.170	11.51	.....	.....	16	.....	.....	.....	.....	.....	.....	.....	.....
Assorters, male:																
1 plant	1911	2	55.0	.263	14.44	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	1912	2	55.0	.275	15.13	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
Assorters, female:																
4 plants	1910	101	49.7	.128	6.41	[1] 93	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1911	112	50.2	.138	6.97	[2] 103	3	.....	.....	6	.....	.....	.....	.....	.....	.....
5 plants	1911	120	50.7	.138	7.03	[2] 111	3	.....	.....	6	.....	.....	.....	.....	.....	.....
	1912	127	51.4	.145	7.39	88	1	34	4	.....	.....	.....	.....	.....	.....	.....
Laborers:																
4 plants	1910	191	60.6	.165	9.97	.....	52	139	.....	.....	.....	.....	.....	.....	.....	.....
	1911	201	60.4	.163	9.84	6	62	133	.....	.....	.....	.....	.....	.....	.....	.....
5 plants	1911	238	61.0	.164	10.01	6	62	170	.....	.....	.....	.....	.....	.....	.....	.....
	1912	239	61.3	.169	10.37	.....	10	229	.....	.....	.....	.....	.....	.....	.....	.....

PER CENT.

Rollers:																
5 plants	1910	174	42.7	$1.025	$43.73	.....	.....	.....	.....	.....	.....	.....	0.6	0.6	2.9	96.0
	1911	189	42.7	1.103	47.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.5	99.5
6 plants	1911	201	42.7	1.109	47.33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.5	99.5
	1912	229	42.7	1.097	46.82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100.0
Roughers:																
5 plants	1910	174	42.7	.425	18.14	.....	.....	.....	.....	.....	.....	34.5	56.9	8.6	.....	.....
	1911	184	42.7	.506	21.60	.....	.....	.....	.....	.....	.....	.....	43.5	56.5	.....	.....
6 plants	1911	196	42.7	.507	21.63	.....	.....	.....	.....	.....	.....	.....	40.8	59.1	.....	.....
	1912	216	42.7	.513	21.89	.....	.....	.....	.....	.....	.....	.5	38.4	59.3	1.9	.....

[1] Including 17 employees earning 10 and under 12 cents per hour.
[2] Including 5 employees earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR, BY YEARS, 1910 TO 1912—Continued.

TINPLATE MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Catchers:																
5 plants	1910	174	42.7	$0.427	$18.23	.....	.....	0.6	1.1	5.2	12.6	22.4	4.6	53.4	.....	.....
	1911	186	42.7	.481	20.52	.....	.....	.....	.....	1.1	2.2	31.7	11.3	53.8	.....	.....
6 plants	1911	198	42.7	.487	20.79	.....	.....	.....	.....	1.0	2.0	29.8	10.6	56.6	.....	.....
	1912	239	42.7	.403	17.20	.....	.....	.....	.....	2.5	3.3	33.1	54.0	5.4	1.7	.....
Screw boys:																
5 plants	1910	174	42.7	.308	13.15	.....	.....	.6	1.1	14.9	16.7	66.7	.....	.....	.....	.....
	1911	186	42.7	.342	14.61	.....	.....	.....	.....	3.2	18.8	77.4	.5	.....	.....	.....
6 plants	1911	198	42.7	.345	14.72	.....	.....	.....	.....	3.0	17.7	78.8	.5	.....	.....	.....
	1912	221	42.7	.352	15.03	.....	.....	.....	.....	.5	19.0	38.9	41.6	.....	.....	.....
Doublers:																
5 plants	1910	174	42.7	.632	26.97	.....	.....	.....	.....	.6	.6	4.6	13.8	16.7	13.2	50.6
	1911	193	42.7	.698	29.80	.....	.....	.....	.....	.....	.....	.....	2.6	3.5	41.5	42.5
6 plants	1911	205	42.7	.706	30.13	.....	.....	.....	.....	.....	.....	.....	2.4	12.7	39.0	45.9
	1912	247	42.7	.677	28.90	.....	.....	.....	.....	.....	.....	.....	5.7	26.7	11.3	56.3
Doublers' helpers:																
5 plants	1910	174	42.7	.324	13.82	.....	.....	.....	.....	.....	34.5	65.5	.....	.....	.....	.....
	1911	179	42.7	.353	15.05	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....
6 plants	1911	191	42.7	.351	14.97	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....
	1912	193	42.7	.370	15.81	.....	.....	.....	.....	.....	1.0	87.0	11.9	.....	.....	.....
Heaters:																
5 plants	1910	174	42.7	.648	27.63	.....	.....	.....	.....	.6	.6	5.7	13.2	19.0	7.5	53.4
	1911	203	42.7	.709	30.24	.....	.....	.....	.....	.....	.....	.....	.....	10.8	60.6	28.6
6 plants	1911	215	42.7	.714	30.47	.....	.....	.....	.....	.....	.....	.....	.....	10.2	57.2	32.6
	1912	314	42.7	.675	28.78	.....	.....	.....	.....	.....	.....	.....	.....	23.6	57.6	18.8
Heaters' helpers:																
4 plants	1910	165	42.7	.348	14.84	.....	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....
	1911	154	42.7	.438	18.71	.....	.....	.....	.....	.....	.....	59.7	1.3	38.9	.....	.....
5 plants	1911	166	42.7	.436	18.60	.....	.....	.....	.....	.....	.....	55.4	8.4	36.1	.....	.....
	1912	109	42.7	.396	16.92	.....	.....	.....	.....	.....	.....	75.2	10.1	14.7	.....	.....
Shearmen:																
5 plants	1910	58	52.7	.497	25.68	.....	.....	.....	.....	.....	.....	24.1	20.7	55.2	.....	.....
	1911	61	53.1	.548	28.50	.....	.....	.....	.....	.....	.....	6.6	41.0	3.3	49.2	.....
6 plants	1911	65	52.8	.555	28.72	.....	.....	.....	.....	.....	.....	6.2	38.5	3.1	52.3	.....
	1912	72	51.8	.573	29.00	.....	.....	.....	.....	.....	.....	16.7	25.0	15.3	4.2	38.9
Shearmen's helpers:																
2 plants	1910	25	61.8	.118	7.31	[1] 80.0	20.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1911	31	59.7	.118	7.02	[2] 96.8	3.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1912	29	58.8	.123	7.18	[3] 75.9	17.2	6.9	.....	.....	.....	.....	.....	.....	.....	.....
Openers, male:																
3 plants	1910	94	57.5	.221	12.72	.....	.....	.....	20.2	79.8	.....	.....	.....	.....	.....	.....
	1911	76	57.3	.262	15.02	.....	.....	.....	.....	25.0	75.0	.....	.....	.....	.....	.....
4 plants	1911	84	57.3	.266	15.24	.....	.....	.....	.....	22.6	77.4	.....	.....	.....	.....	.....
	1912	89	57.5	.298	17.12	.....	.....	.....	.....	.....	39.3	60.7	.....	.....	.....	.....
Openers, female:																
2 plants	1910	13	45.5	.244	11.08	.....	.....	.....	.....	69.2	30.8	.....	.....	.....	.....	.....
	1911	17	44.1	.231	10.22	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....	.....
1 plant	1911	15	42.7	.230	9.81	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....	.....
	1912	18	42.7	.209	8.93	38.9	.....	.....	.....	33.3	27.8	.....	.....	.....	.....	.....

[1] Including 52.0 per cent earning 10 and under 12 cents per hour.
[2] Including 45.2 per cent earning 10 and under 12 cents per hour.
[3] Including 34.5 per cent earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE I.—AVERAGE FULL-TIME WEEKLY EARNINGS AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR, BY YEARS, 1910 TO 1912—Concluded.

TINPLATE MILLS—Continued.

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Average rate of wages per hour.	Average full-time weekly earnings.	Employees earning each classified rate of wages per hour.									
						12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 cts. and over.
Tinners:																
4 plants	1910	224	42.9	$0.402	$17.27	.....	.....	.....	.....	1.3	14.7	37.9	43.3	1.3	1.3	.....
	1911	262	43.0	.439	18.92	.....	.....	.....	.....	.....	.8	26.3	68.7	2.7	1.5	.....
5 plants	1911	283	43.0	.429	18.48	.....	.....	.....	.....	.....	.7	31.8	63.6	2.5	1.4	.....
	1912	294	43.4	.444	19.28	.....	.....	.....	.....	.....	2.0	38.8	24.1	33.3	1.7	.....
Redippers:																
1 plant	1910	14	46.2	.570	26.56	.....	.....	.....	.....	.....	.....	.....	14.3	50.0	35.7	.....
	1911	17	47.2	.619	29.32	.....	.....	.....	.....	.....	.....	.....	5.9	35.3	52.9	5.9
	1912	10	55.0	.592	32.58	.....	.....	.....	.....	.....	.....	.....	10.0	30.0	60.0	.....
Risers:																
2 plants	1910	34	44.1	.262	11.51	.....	.....	.....	.....	50.0	29.4	20.6	.....	.....	.....	.....
	1911	39	45.0	.279	12.51	.....	.....	.....	.....	46.2	15.4	38.5	.....	.....	.....	.....
3 plants	1911	42	44.8	.275	12.30	.....	.....	.....	.....	50.0	14.3	35.7	.....	.....	.....	.....
	1912	30	50.1	.239	11.98	.....	.....	.....	13.3	53.3	23.3	10.0	.....	.....	.....	.....
Branners:																
2 plants	1910	12	67.8	.170	11.52	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....	.....
	1911	20	67.7	.170	11.50	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....	.....
	1912	16	67.7	.170	11.51	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....	.....
Assorters, male:																
1 plant	1911	2	55.0	.263	14.44	.....	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....
	1912	2	55.0	.275	15.13	.....	.....	.....	.....	.....	50.0	50.0	.....	.....	.....	.....
Assorters, female:																
4 plants	1910	101	49.7	.128	6.41	[1]92.1	7.9	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1911	112	50.2	.138	6.97	[2]92.0	2.7	.....	.....	5.4	.....	.....	.....	.....	.....	.....
5 plants	1911	120	50.7	.138	7.03	[3]92.5	2.5	.....	.....	5.0	.....	.....	.....	.....	.....	.....
	1912	127	51.4	.145	7.39	69.3	.8	26.8	3.1	.....	.....	.....	.....	.....	.....	.....
Laborers:																
4 plants	1910	191	60.6	.165	9.97	.....	27.2	72.8	.....	.....	.....	.....	.....	.....	.....	.....
	1911	201	60.4	.163	9.84	3.0	30.8	66.2	.....	.....	.....	.....	.....	.....	.....	.....
5 plants	1911	238	61.0	.164	10.01	2.5	26.1	71.4	.....	.....	.....	.....	.....	.....	.....	.....
	1912	239	61.3	.169	10.37	.....	4.2	95.8	.....	.....	.....	.....	.....	.....	.....	.....

[1] Including 16.8 per cent earning 10 and under 12 cents per hour.
[2] Including 4.5 per cent earning 10 and under 12 cents per hour.
[3] Including 4.2 per cent earning 10 and under 12 cents per hour.

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK, BY YEARS, 1910 TO 1912.

TINPLATE MILLS—Continued.

[The figures set opposite each bracketed group of years are for identical plants.]

NUMBER.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Rollers:											
5 plants	1910	174	42.7	174	.....	.....	.....	.....	.....	.....	.....
	1911	189	42.7	189	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	201	42.7	201	.....	.....	.....	.....	.....	.....	.....
	1912	229	42.7	229	.....	.....	.....	.....	.....	.....	.....
Roughers:											
5 plants	1910	174	42.7	174	.....	.....	.....	.....	.....	.....	.....
	1911	184	42.7	184	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	196	42.7	196	.....	.....	.....	.....	.....	.....	.....
	1912	216	42.7	216	.....	.....	.....	.....	.....	.....	.....
Catchers:											
5 plants	1910	174	42.7	174	.....	.....	.....	.....	.....	.....	.....
	1911	186	42.7	186	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	198	42.7	198	.....	.....	.....	.....	.....	.....	.....
	1912	239	42.7	239	.....	.....	.....	.....	.....	.....	.....
Screw boys:											
5 plants	1910	174	42.7	174	.....	.....	.....	.....	.....	.....	.....
	1911	186	42.7	186	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	198	42.7	198	.....	.....	.....	.....	.....	.....	.....
	1912	221	42.7	221	.....	.....	.....	.....	.....	.....	.....
Doublers:											
5 plants	1910	174	42.7	174	.....	.....	.....	.....	.....	.....	.....
	1911	193	42.7	193	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	205	42.7	205	.....	.....	.....	.....	.....	.....	.....
	1912	247	42.7	247	.....	.....	.....	.....	.....	.....	.....
Doublers' helpers.											
5 plants	1910	174	42.7	174	.....	.....	.....	.....	.....	.....	.....
	1911	179	42.7	179	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	191	42.7	191	.....	.....	.....	.....	.....	.....	.....
	1912	193	42.7	193	.....	.....	.....	.....	.....	.....	.....
Heaters:											
5 plants	1910	174	42.7	174	.....	.....	.....	.....	.....	.....	.....
	1911	203	42.7	203	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	215	42.7	215	.....	.....	.....	.....	.....	.....	.....
	1912	314	42.7	314	.....	.....	.....	.....	.....	.....	.....
Heaters' helpers:											
4 plants	1910	165	42.7	165	.....	.....	.....	.....	.....	.....	.....
	1911	154	42.7	154	.....	.....	.....	.....	.....	.....	.....
5 plants	1911	166	42.7	166	.....	.....	.....	.....	.....	.....	.....
	1912	109	42.7	109	.....	.....	.....	.....	.....	.....	.....
Shearmen:											
5 plants	1910	58	52.7	31	7	.....	20	.....	.....	.....	.....
	1911	61	53.1	31	7	.....	23	.....	.....	.....	.....
6 plants	1911	65	52.8	35	7	.....	23	.....	.....	.....	.....
	1912	72	51.8	43	7	.....	22	.....	.....	.....	.....
Shearmen's helpers:											
2 plants	1910	25	61.8	.....	.....	.....	20	5	.....	.....	.....
	1911	31	59.7	.....	.....	8	23	.....	.....	.....	.....
	1912	29	58.8	.....	7	.....	22	.....	.....	.....	.....
Openers, male:											
3 plants	1910	94	57.5	.....	15	79	.....	.....	.....	.....	.....
	1911	76	57.3	.....	19	57	.....	.....	.....	.....	.....
4 plants	1911	84	57.3	.....	19	65	.....	.....	.....	.....	.....
	1912	89	57.5	.....	14	75	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK, BY YEARS, 1910 TO 1912—Continued.

TINPLATE MILLS—Continued.

NUMBER—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Openers, female:											
2 plants	1910	13	45.5	10	3	.....	.....	.....	.....	.....	.....
	1911	17	44.1	15	2	.....	.....	.....	.....	.....	.....
1 plant	1911	15	42.7	15	.....	.....	.....	.....	.....	.....	.....
	1912	18	42.7	18	.....	.....	.....	.....	.....	.....	.....
Tinners:											
4 plants	1910	224	42.9	220	4	.....	.....	.....	.....	.....	.....
	1911	262	43.0	256	2	4	.....	.....	.....	.....	.....
5 plants	1911	283	43.0	277	2	4	.....	.....	.....	.....	.....
	1912	294	43.4	276	18	.....	.....	.....	.....	.....	.....
Redippers:											
1 plant	1910	14	46.2	10	4	.....	.....	.....	.....	.....	.....
	1911	17	47.2	12	1	4	.....	.....	.....	.....	.....
	1912	10	55.0	.....	10	.....	.....	.....	.....	.....	.....
Risers:											
2 plants	1910	34	44.1	30	4	.....	.....	.....	.....	.....	.....
	1911	39	45.0	33	2	4	.....	.....	.....	.....	.....
3 plants	1911	42	44.8	36	2	4	.....	.....	.....	.....	.....
	1912	30	50.1	12	18	.....	.....	.....	.....	.....	.....
Branners:											
2 plants	1910	12	67.8	.....	.....	.....	.....	12	.....	.....	.....
	1911	20	67.7	.....	.....	.....	.....	20	.....	.....	.....
	1912	16	67.7	.....	.....	.....	.....	16	.....	.....	.....
Assorters, male:											
1 plant	1911	2	55.0	.....	2	.....	.....	.....	.....	.....	.....
	1912	2	55.0	.....	2	.....	.....	.....	.....	.....	.....
Assorters, female:											
4 plants	1910	101	49.7	46	8	47	.....	.....	.....	.....	.....
	1911	112	50.2	46	9	57	.....	.....	.....	.....	.....
5 plants	1911	120	50.7	46	9	65	.....	.....	.....	.....	.....
	1912	127	51.4	47	5	75	.....	.....	.....	.....	.....
Laborers:											
4 plants	1910	191	60.6	.....	.....	101	46	44	.....	.....	.....
	1911	201	60.4	.....	9	79	73	38	2	.....	.....
5 plants	1911	238	61.0	.....	9	79	90	58	2	.....	.....
	1912	239	61.3	.....	1	83	97	56	1	1	.....

PER CENT.

Rollers:											
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	189	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	201	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	229	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Roughers:											
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	184	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	196	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	216	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Catchers:											
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	186	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	198	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	239	42.7	100.0	.....	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK, BY YEARS, 1910 TO 1912—Continued.

TINPLATE MILLS—Continued.

PER CENT—Continued.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—						
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Screw boys:											
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	186	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	198	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	221	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Doublers:											
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	193	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	205	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	247	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Doublers' helpers:											
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	179	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	191	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	133	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Heaters:											
5 plants	1910	174	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	203	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
6 plants	1911	215	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	314	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Heaters' helpers:											
4 plants	1910	165	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1911	154	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
5 plants	1911	166	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	109	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Shearmen:											
5 plants	1910	58	52.7	53.4	12.1	.....	34.5	.....	.....	.....	.....
	1911	61	53.1	50.8	11.5	.....	37.7	.....	.....	.....	.....
6 plants	1911	65	52.8	53.8	10.8	.....	35.4	.....	.....	.....	.....
	1912	72	51.8	59.7	9.7	.....	30.6	.....	.....	.....	.....
Shearmen's helpers:											
2 plants	1910	25	61.8	.....	.....	.....	80.0	20.0	.....	.....	.....
	1911	31	59.7	.....	.....	25.8	74.2	.....	.....	.....	.....
	1912	29	58.8	.....	24.1	.....	75.9	.....	.....	.....	.....
Openers, male:											
3 plants	1910	94	57.5	.....	16.0	84.0	.....	.....	.....	.....	.....
	1911	76	57.3	.....	25.0	75.0	.....	.....	.....	.....	.....
4 plants	1911	84	57.3	.....	22.6	77.4	.....	.....	.....	.....	.....
	1912	89	57.5	.....	15.7	84.3	.....	.....	.....	.....	.....
Openers, female:											
2 plants	1910	13	45.5	76.9	23.1	.....	.....	.....	.....	.....	.....
	1911	17	44.1	88.2	11.8	.....	.....	.....	.....	.....	.....
1 plant	1911	15	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
	1912	18	42.7	100.0	.....	.....	.....	.....	.....	.....	.....
Tinners:											
4 plants	1910	224	42.9	98.2	1.8	.....	.....	.....	.....	.....	.....
	1911	262	43.0	97.7	.8	1.5	.....	.....	.....	.....	.....
5 plants	1911	283	43.0	97.9	.7	1.4	.....	.....	.....	.....	.....
	1912	294	43.4	93.9	6.1	.....	.....	.....	.....	.....	.....
Redippers:											
1 plant	1910	14	46.2	71.4	28.6	.....	.....	.....	.....	.....	.....
	1911	17	47.2	70.6	5.9	23.5	.....	.....	.....	.....	.....
	1912	10	55.0	.....	100.0	.....	.....	.....	.....	.....	.....
Risers:											
2 plants	1910	34	44.1	88.2	11.8	.....	.....	.....	.....	.....	.....
	1911	39	45.0	84.6	5.1	10.3	.....	.....	.....	.....	.....
3 plants	1911	42	44.8	85.7	4.8	9.5	.....	.....	.....	.....	.....
	1912	30	50.1	40.0	60.0	.....	.....	.....	.....	.....	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis

TABLE II.—AVERAGE AND CLASSIFIED FULL-TIME HOURS OF WORK PER WEEK, BY YEARS, 1910 TO 1912—Concluded.

TINPLATE MILLS—Concluded.

PER CENT—Concluded.

Occupation, and number of plants.	Year.	Number of employees.	Average full-time hours per week.	Employees whose full-time hours per week were—							
				48 and under.	Over 48 and under 56	56 and under 60	60	Over 60 and under 72	72	Over 72 and under 84	84
Branners:											
2 plants	1910	12	67.8	.....	.....	.....	.....	100.0	.....	.....	.....
	1911	20	67.7	.....	.....	.....	.....	100.0	.....	.....	.....
	1912	16	67.7	.....	.....	.....	.....	100.0	.....	.....	.....
Assorters, male:											
1 plant	1911	2	55.0	.....	100.0	.....	.....	.....	.....	.....	.....
	1912	2	55.0	.....	100.0	.....	.....	.....	.....	.....	.....
Assorters, female:											
4 plants	1910	101	49.7	45.5	7.9	46.5	.....	.....	.....	.....	.....
	1911	112	50.2	41.1	8.0	50.9	.....	.....	.....	.....	.....
5 plants	1911	120	50.7	38.3	7.5	54.2	.....	.....	.....	.....	.....
	1912	127	51.4	37.0	3.9	59.1	.....	.....	.....	.....	.....
Laborers:											
4 plants	1910	191	60.6	.....	.....	52.9	24.1	23.0	.....	.....	.....
	1911	201	60.4	.....	4.5	39.3	36.3	18.9	1.0	.....	.....
5 plants	1911	238	61.0	.....	3.8	33.2	37.8	24.4	.8	.....	.....
	1912	239	61.3	.....	.4	34.7	40.6	23.4	.4	0.4	.....

Digitized for FRASER
http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis