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WAGES AND HOURS OF LABOR IN THE
BOOT AND SHOE AND HOSIERY AND
KNIT GOODS INDUSTRIES: 1890 TO 1912



AUGUST 26, 1913

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The field work for 1907 to 1911 in connection with the report on boot and shoe manufacturing and on hosiery and knit goods manufacturing was done under the immediate charge of Eugene A. Logan, and that for 1912 was done under the immediate charge of Frank W. Bird. The reports were prepared and the field work directed by Fred C. Croxton.

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

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WAGES AND HOURS OF LABOR IN THE BOOT AND SHOE AND HOSIERY AND KNIT GOODS INDUSTRIES: 1890 TO 1912.

BOOT AND SHOE MANUFACTURING.

GENERAL SUMMARY.

This study of wages and hours of labor in boot and shoe manufacturing shows rates of wages per hour and nominal full-time hours of work per week for the years 1907 to 1912, inclusive, and in addition it summarizes data published in previous reports¹ of the Bureau of Labor Statistics and thus furnishes a comparison for the 23-year period, 1890 to 1912, inclusive.

The present report and also previous reports show wages and hours of labor for each of the most important productive occupations in boot and shoe manufacturing, but do not show data for all the occupations in the industry. The occupations for which data are presented in this report are given in the table below. These occupations include a large proportion of the total employees on productive work and approximately thirty per cent of the total employees engaged in productive and nonproductive work.

Comparing 1912 with certain other years the changes in nominal full-time hours per week, as shown by combining the principal occupations, were as follows:

1912 compared with 1890.....	6. 4 per cent decline.
1912 compared with 1895.....	6. 1 per cent decline.
1912 compared with 1900.....	5. 4 per cent decline.
1912 compared with 1905.....	3. 0 per cent decline.
1912 compared with 1910.....	1. 7 per cent decline.

¹ Previous investigations of wages and hours of labor in boot and shoe manufacturing have been made and published by the Bureau, as follows: Nineteenth Annual Report, covering 1890 to 1903; Bulletin No. 59 (July, 1905), covering 1903 and 1904; Bulletin No. 65 (July, 1906), covering 1904 and 1905; Bulletin No. 71 (July, 1907), covering 1905 and 1906; and Bulletin No. 77 (July, 1908), covering 1906 and 1907.

The changes in nominal full-time hours per week for each of the principal occupations of the industry during the period from 1907 to 1912, inclusive, as far as data are available, are shown in the table which follows:

PER CENT OF DECREASE IN NOMINAL FULL-TIME HOURS PER WEEK: 1912 COMPARED WITH EACH OF THE 5 YEARS PRECEDING.

Occupation.	Per cent lower in 1912 than in--				
	1907	1908	1909	1910	1911
Cutting department:					
Cutters, lining, cloth, male.....	(1)	(1)	(1)	(1)	1.1
Cutters, vamp and whole shoe, hand, male.....	2.7	2.5	2.3	2.3	2.1
Cutters, vamp and whole shoe, machine, male.....	(1)	(1)	(1)	3.6	2.6
Skivers, upper, machine, male.....	(1)	(1)	(1)	4.4	.4
Skivers, upper, machine, female.....	3.0	3.7	3.3	2.8	3.3
Sole-leather department:					
Channelers, insole and outsole, male.....	2.3	2.3	1.6	1.6	1.4
Cutters, outsole, male.....	1.2	.7	.7	.5	.3
Fitting or stitching department:					
Backstay stitchers, female.....	3.0	2.8	2.5	2.3	2.3
Button fasteners, female.....	(1)	(1)	(1)	(1)	.9
Buttonhole makers, female.....	(1)	(1)	(1)	(1)	1.6
Closers-on, female.....	4.0	3.7	3.7	3.5	3.5
Lining makers, female.....	3.2	3.0	2.8	2.6	2.6
Tip stitchers, female.....	(1)	(1)	(1)	(1)	1.1
Top stitchers or undertrimmers, female.....	3.8	3.8	3.8	3.3	3.1
Vampers, male.....	1.6	2.1	.9	.7	1.0
Vampers, female.....	3.1	3.5	2.8	2.8	2.5
Lasting department:					
Assemblers, for pulling-over machine, male.....	(1)	(1)	(1)	(1)	1.1
Bed-machine operators, male.....	1.0	1.2	1.2	1.6	1.1
Hand-method lasting machine operators, male.....	4.1	3.2	3.4	2.3	2.1
Pullers-over, hand, male.....	3.1	3.1	2.4	1.9	1.6
Pullers-over, machine, male.....	(1)	(1)	(1)	2.5	.9
Bottoming department:					
Buffers, male.....	(1)	(1)	(1)	(1)	(2)
Edge setters, male.....	1.1	1.5	1.3	.9	.9
Edge trimmers, male.....	1.1	.7	.9	.6	.3
Goodyear stitchers, male.....	.7	.4	.7	.8	(2)
Goodyear welters, male.....	1.3	1.5	1.0		.4
Heel breasters, male.....	(1)	(1)	(1)	(1)	.7
Heel burnishers, male.....	(1)	(1)	(1)	(1)	.4
Heels, male.....	(1)	(1)	(1)	(1)	.2
Heel scourers, male.....	(1)	(1)	(1)	(1)	1.3
Heel-seat nailers, male.....	(1)	(1)	(1)	(1)	(2)
Heel sluggers, male.....	(1)	(1)	(1)	(1)	.2
Heel trimmers or shavers, male.....	.8	1.1	1.3	1.1	.8
Levelers, male.....	(1)	(1)	(1)	(1)	.2
McKay sewers, male.....	1.1	1.3	2.0	1.1	.3
Rough rounders, male.....	1.9	1.9	1.5	1.0	.7
Finishing department:					
Treers or ironers, hand, male.....	.3	1	.1	1.1	.2
Treers or ironers, hand, female.....	(1)	(1)	(1)	-6.7	6.5
Total.....	2.2	2.1	1.9	1.7	1.5

¹ No data.

² No change.

³ Increase.

Comparing 1912 with certain other years the changes in rates of wages per hour, as shown by combining the principal occupations, were as follows:

1912 compared with 1890.....	34.8 per cent advance.
1912 compared with 1895.....	31.0 per cent advance.
1912 compared with 1900.....	27.6 per cent advance.
1912 compared with 1905.....	10.8 per cent advance.
1912 compared with 1910.....	2.5 per cent advance.

The changes in rates of wages per hour for each of the principal occupations of the industry during the period from 1907 to 1912, inclusive, as far as data are available, are shown in the table which follows:

PER CENT OF INCREASE OR DECREASE IN RATES OF WAGES PER HOUR: 1912 COMPARED WITH EACH OF THE FIVE YEARS PRECEDING.

Occupation.	Per cent higher (+) or lower (-) in 1912 than in—				
	1907	1908	1909	1910	1911
Cutting department:					
Cutters, lining, cloth, male.....	(1)	(1)	(1)	(1)	+3.7
Cutters, vamp and whole shoe, hand, male.....	+8.8	+6.3	+3.9	+2.5	+3.1
Cutters, vamp and whole shoe, machine, male.....	(1)	(1)	(1)	+1.5	+1.9
Skivers, upper, machine, male.....	(1)	(1)	(1)	+7.8	-1.2
Skivers, upper, machine, female.....	+14.0	+11.4	+11.7	+9.4	+8.9
Sole-leather department:					
Channelers, insole and outsole, male.....	+12.0	+7.0	+3.6	+5.5	+2.3
Cutters, outsole, male.....	+2.2	+4.5	+4.8	+4.0	+2.7
Fitting or stitching department:					
Backstay stitchers, female.....	+9.3	+ .5	+5.5	+4.2	+2.1
Button fasteners, female.....	(1)	(1)	(1)	(1)	+16.5
Buttonhole makers, female.....	(1)	(1)	(1)	(1)	+2.5
Closers-on, female.....	+2.1	+7.6	-1.3	+3.3	+3.8
Lining makers, female.....	-5.1	+ .6	-3.8	+1.9	+3.2
Tip stitchers, female.....	(1)	(1)	(1)	(1)	+5.3
Top stitchers or undertrimmers, female.....	+12.2	+9.3	+5.9	+3.6	+1.9
Vampers, male.....	-5.5	+4.7	+4.8	+2.1	-1.5
Vampers, female.....	+2.3	+4.0	- .2	-1.9	-2.1
Lasting department:					
Assemblers, for pulling-over machine, male.....	(1)	(1)	(1)	(1)	-3.4
Bed-machine operators.....	-9.5	-5.1	-7.6	-1.5	-5.2
Hand-method lasting machine operators, male.....	+7.3	+3.7	+8.1	+3.6	+2.5
Pullers-over, hand, male.....	+16.9	+20.1	+4.4	+8.3	+2.2
Pullers-over, machine, male.....	(1)	(1)	(1)	-4.5	-4.0
Bottoming department:					
Buffers, male.....	(1)	(1)	(1)	(1)	+4.4
Edge setters, male.....	+ .5	+14.5	+5.6	+4.3	+2.4
Edge trimmers, male.....	+ .3	+5.0	+2.1	+1.2	- .9
Goodyear stitchers, male.....	- .9	+6.3	+1.3	+3.1	- .5
Goodyear welters, male.....	+10.1	+10.1	+1.5	+6.6	+ .5
Heel breasters, male.....	(1)	(1)	(1)	(1)	+3.8
Heel burnishers, male.....	(1)	(1)	(1)	(1)	+2.1
Heelers, male.....	(1)	(1)	(1)	(1)	-3.2
Heel scourers, male.....	(1)	(1)	(1)	(1)	+1.1
Heel-seat nailers, male.....	(1)	(1)	(1)	(1)	-9.4
Heel sluggers, male.....	(1)	(1)	(1)	(1)	+1.9
Heel trimmers or shavers, male.....	+2.3	+2.2	+ .5	+1.2	- .2
Levelers, male.....	(1)	(1)	(1)	(1)	+4.1
McKay sewers, male.....	-6.4	-13.5	-1.6	-3.4	-3.5
Rough rounders, male.....	+15.1	+21.0	+2.7	+8.4	+ .5
Finishing department:					
Treers or ironers, hand, male.....	-7.1	-3.7	-3.2	-1.6	-1.9
Treers or ironers, hand, female.....	(1)	(1)	(1)	+7.0	+6.5
Total.....	+3.8	+5.8	+1.8	+2.5	+0.8

¹ No data.

The next table shows for the industry the course of nominal full-time hours per week and the rates of wages per hour during the 23-year period from 1890 to 1912. The occupations combined and the sex for which data are shown each year are indicated in the table on pages 9 to 15.

The figures of the table are relative hours of labor and relative wages computed from the actual hours and wages in the establishments furnishing data. They also show the per cent of change from year to year as measured by the average from 1890 to 1899.

By nominal full-time hours per week is meant the usual full working time, such as prevails when there is no industrial depression or other unusual factor affecting the industry.

In combining the relatives for the principal occupations to determine the relatives for the industry shown in the table which follows, the relatives for each occupation were weighted according to the number of employees reported each year. This weighting causes the figures for 1890 to 1907 to differ slightly from those shown for the industry in Bulletin No. 77 (July, 1908), where the relative for the industry was a simple average of occupation relatives. Under these two methods, the difference in relative hours does not exceed 0.4 per cent in any of the 18 years, and the difference in relative wages does not exceed 1 per cent in 8 of the 18 years, the greatest difference being about 3.7 per cent. The base used in computing the relatives in this table is the average for the 10-year period, 1890 to 1899.

RELATIVE NOMINAL FULL-TIME HOURS PER WEEK AND RELATIVE RATES OF WAGES PER HOUR IN BOOT AND SHOE MANUFACTURING, 1890 TO 1912.

[Data are included from 46 establishments, 1890-1903; 50 establishments, 1903, 1904; 52 establishments, 1904, 1905; 52 establishments, 1905, 1906; 54 establishments, 1906, 1907; 26 establishments, 1907-1910; 60 establishments, 1910, 1911; and 81 establishments, 1911, 1912.]

Year.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average, 1890-1899	100.0	100.0
1890	100.3	98.5
1891	100.6	97.5
1892	100.2	99.3
1893	100.0	100.6
1894	100.0	99.8
1895	100.0	101.4
1896	100.0	100.5
1897	99.8	100.7
1898	99.7	100.5
1899	99.6	101.8
1900	99.3	104.1
1901	99.6	104.1
1902	98.4	108.0
1903	97.0	113.2
1904	97.1	116.9
1905	96.8	119.9
1906	96.3	121.3
1907	96.0	123.0
1908	95.9	125.5
1909	95.7	130.4
1910	95.5	129.6
1911	95.3	131.7
1912	93.9	132.8

The table which follows shows, for each of the principal occupations in the industry, relative nominal full-time hours per week and relative rates of wages per hour during the 23-year period 1890 to 1912. As indicated in this table many changes in the occupations included have been made from time to time during the period covered. The base used for computing the relatives for each occupation, except as noted, is the average of the 10-year period, 1890 to 1899.

RELATIVE NOMINAL FULL-TIME HOURS PER WEEK AND RELATIVE RATES OF WAGES PER HOUR IN THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1890 TO 1912.

[Data are included from 46 establishments, 1890-1903; 50 establishments, 1903, 1904; 52 establishments, 1904, 1905; 52 establishments, 1905, 1906; 54 establishments, 1906, 1907; 26 establishments, 1907-1910; 60 establishments, 1910, 1911; and 81 establishments, 1911, 1912.]

Year.	Cutting department.									
	Cutters, lining, cloth, male.		Cutters, vamp and whole shoe, hand, ¹ male.		Cutters, vamp and whole shoe, machine, male.		Skivers, upper, machine, male.		Skivers, upper, machine, female.	
	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average: 1890-1899			100.0	100.0						
1890			100.1	99.9						
1891			100.2	99.4						
1892			100.2	99.8						
1893			100.2	100.4						
1894			100.0	98.0						
1895			99.8	100.0						
1896			100.0	99.1						
1897			99.9	101.0						
1898			100.0	99.7						
1899			99.7	102.8						
1900			99.7	103.3						
1901			99.8	102.6						
1902			98.4	107.4						
1903			96.6	110.8						
1904			96.9	114.2						
1905			96.2	117.3						
1906			95.8	118.8						
1907			95.5	126.8					2 100.0	2 100.0
1908			95.3	129.7					2 100.7	2 102.3
1909			95.1	132.7					2 100.3	2 102.1
1910			95.1	134.6	3 100.0	3 100.0	3 100.0	3 100.0	2 99.8	2 104.2
1911	4 100.0	4 100.0	94.9	133.8	3 99.0	3 99.6	3 100.0	3 109.1	2 100.3	2 104.7
1912	4 98.9	4 103.7	92.9	137.9	3 96.4	3 101.5	3 99.6	3 107.8	2 97.0	2 114.0

¹ Employees in this occupation were reported as cutters, upper, for 1890 to 1907.

² Data for 1890 to 1906 not available; computed with 1907=100.0.

³ Data for 1890 to 1909 not available; computed with 1910=100.0.

⁴ Data for 1890 to 1910 not available; computed with 1911=100.0.

RELATIVE NOMINAL FULL-TIME HOURS PER WEEK AND RELATIVE RATES OF WAGES PER HOUR IN THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1890 TO 1912—Continued.

Year.	Sole-leather department.				Fitting or stitching department.							
	Channellers, insole and outsole, male.		Cutters, outsole, male.		Backstay stitchers, female.		Button fasteners, female.		Buttonhole makers, female.		Closers-on, female.	
	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average: 1890-1899.....			100.0	100.0							100.0	100.0
1890.....			100.2	102.0							100.3	90.7
1891.....			101.7	99.5							100.5	96.8
1892.....			100.2	99.1							99.9	98.3
1893.....			99.8	100.1							100.1	100.4
1894.....			99.7	96.8							100.1	103.6
1895.....			99.8	100.2							99.6	98.4
1896.....			99.7	98.8							99.7	103.3
1897.....			99.6	101.2							99.7	105.2
1898.....			99.7	101.4							100.4	100.1
1899.....			99.7	100.6							99.7	102.9
1900.....			99.8	102.2							99.5	102.4
1901.....			99.6	100.5							99.3	105.5
1902.....			99.6	103.5							99.4	103.4
1903.....			98.2	106.0							98.8	108.4
1904.....			93.6	109.2							98.9	106.1
1905.....			98.5	109.9							98.8	109.0
1906.....			98.0	111.9							98.4	111.1
1907.....	¹ 100.0	¹ 100.0	98.0	114.3	¹ 100.0	¹ 100.0					96.9	112.3
1908.....	¹ 100.0	¹ 104.7	97.5	111.8	¹ 99.8	¹ 108.8					96.6	106.6
1909.....	¹ 99.3	¹ 108.1	97.5	111.4	¹ 99.5	¹ 103.6					96.6	116.2
1910.....	¹ 99.3	¹ 106.2	97.3	112.3	¹ 99.3	¹ 104.9					96.4	111.0
1911.....	¹ 99.1	¹ 109.5	97.1	113.7	¹ 99.3	¹ 107.1	² 100.0	² 100.0	² 100.0	² 100.0	96.4	110.5
1912.....	¹ 97.7	¹ 112.0	96.8	116.8	¹ 97.0	¹ 109.3	² 99.1	² 116.5	² 98.4	² 102.5	93.0	114.7

¹ Data for 1890 to 1906 not available; computed with 1907=100.0.² Data for 1890 to 1910 not available; computed with 1911=100.0.

RELATIVE NOMINAL FULL-TIME HOURS PER WEEK AND RELATIVE RATES OF WAGES PER HOUR IN THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1890 TO 1912—Continued.

Year.	Fitting or stitching department—Concluded.									
	Lining makers, female.		Tip s'itchers, female.		Top stitchers or undertrimmers, female.		Vampers, male.		Vampers, female.	
	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average: 1890-1899							100.0	100.0	100.0	100.0
1890							95.8	112.3	100.4	99.9
1891							101.9	97.3	100.2	93.7
1892							102.4	92.4	100.4	98.3
1893							100.2	95.6	100.1	101.6
1894							99.7	89.4	99.9	102.3
1895							99.8	90.7	99.9	103.2
1896							100.0	101.5	99.6	102.0
1897							100.2	111.4	99.5	100.8
1898							100.3	103.0	100.1	99.4
1899							99.5	106.7	99.8	98.5
1900							100.5	110.6	99.7	103.0
1901							100.1	106.0	99.6	103.9
1902							99.4	114.7	99.2	104.5
1903							93.9	127.1	98.5	110.5
1904							96.3	124.4	98.5	110.7
1905							96.5	120.4	98.6	115.4
1906							96.1	127.5	98.2	120.9
1907	¹ 100.0	¹ 100.0			¹ 100.0	¹ 100.0	96.4	128.2	97.8	124.9
1908	¹ 99.8	¹ 94.3			¹ 100.0	¹ 102.7	96.9	115.8	98.2	122.9
1909	¹ 99.6	¹ 98.6			¹ 100.0	¹ 105.9	95.8	115.7	97.5	128.1
1910	¹ 99.4	¹ 93.1			¹ 99.5	¹ 108.3	95.6	118.7	97.5	130.3
1911	¹ 99.4	¹ 92.0	² 100.0	² 100.0	¹ 99.3	¹ 110.1	95.9	123.0	97.2	130.5
1912	¹ 96.8	¹ 94.9	² 98.9	² 105.3	¹ 96.2	¹ 112.2	94.9	121.2	94.8	127.8

¹ Data for 1890 to 1906 not available; computed with 1907=100.0.

² Data for 1890 to 1910 not available; computed with 1911=100.0.

RELATIVE NOMINAL FULL-TIME HOURS PER WEEK AND RELATIVE RATES OF WAGES PER HOUR IN THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1890 TO 1912—Continued.

Year.	Lasting department.											
	Assemblers, for pulling-over machine, male.		Bed-machine operators, male.		Hand-method lasting machine operators, male.		Lasters, machine, ¹ male.		Pullers-over, hand, male.		Pullers-over, machine, female.	
	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average: 1890-1899							100.0	100.0				
1890							99.5	97.3				
1891							100.2	98.1				
1892							100.0	101.2				
1893							99.8	96.1				
1894							100.6	101.3				
1895							100.5	101.1				
1896							100.5	103.9				
1897							100.0	97.6				
1898							98.6	103.9				
1899							100.3	100.6				
1900							98.8	103.0				
1901							99.9	106.6				
1902							98.5	114.4				
1903							97.8	120.1				
1904							98.0	125.4				
1905							98.0	128.0				
1906							97.6	132.4				
1907			² 100.0	² 100.0	² 100.0	² 100.0	96.6	135.2	² 100.0	² 100.0		
1908			² 100.2	² 95.4	² 99.1	² 98.7			² 100.0	² 97.3		
1909			² 100.2	² 97.9	² 99.3	² 99.3			² 99.3	² 112.0		
1910			² 100.6	² 91.9	² 98.2	² 103.6			² 98.8	² 107.9	² 100.0	² 100.0
1911	⁴ 100.0	⁴ 100.0	² 100.1	² 95.5	² 98.0	² 104.7			² 98.5	² 114.4	² 98.4	² 99.5
1912	⁴ 98.9	⁴ 96.6	² 99.0	² 90.5	² 95.9	² 107.3			² 96.9	² 116.9	² 97.5	² 95.5

¹ Employees reported as lasters, machine, for 1890 to 1907, are reported for subsequent years as bed-machine operators and hand-method lasting machine operators.

² Data for 1890 to 1906 not available; computed with 1907=100.0.

³ Data for 1890 to 1909 not available; computed with 1910=100.0.

⁴ Data for 1890 to 1910 not available; computed with 1911=100.0.

WAGES AND HOURS OF LABOR, 1890 TO 1912—BOOTS AND SHOES. 13

RELATIVE NOMINAL FULL-TIME HOURS PER WEEK AND RELATIVE RATES OF WAGES PER HOUR IN THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1890 TO 1912—Continued.

Year.	Bottoming department.											
	Buffers, male.		Edge setters, male.		Edge trimmers, male.		Goodyear stitchers, male.		Goodyear welters, male.		Heel breasters, male.	
	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average: 1890-1899...					100.0	100.0	100.0	100.0				
1890.....					100.8	97.7	101.3	88.6				
1891.....					100.8	97.2	100.6	93.9				
1892.....					101.0	99.2	100.5	96.5				
1893.....					100.8	105.1	100.7	96.4				
1894.....					99.8	99.2	99.5	99.6				
1895.....					99.5	103.1	99.8	100.9				
1896.....					99.7	99.2	99.6	98.6				
1897.....					99.9	100.4	99.7	103.4				
1898.....					98.5	99.9	99.5	106.6				
1899.....					99.2	99.0	98.9	110.4				
1900.....					98.2	105.3	98.8	115.6				
1901.....					99.2	105.0	98.7	117.3				
1902.....					97.3	110.1	95.1	121.7				
1903.....					95.8	114.7	94.4	131.0				
1904.....					95.7	116.4	94.6	133.2				
1905.....					95.6	118.7	94.9	130.2				
1906.....					94.9	118.9	94.2	128.1				
1907.....			100.0	100.0	95.1	127.1	94.0	132.2	100.0	100.0		
1908.....			100.4	87.8	94.8	121.4	93.7	123.2	100.2	100.0		
1909.....			100.2	95.2	95.0	124.9	94.0	129.3	99.7	108.5		
1910.....			99.8	96.4	94.7	126.0	93.8	127.0	99.5	103.3		
1911.....	100.0	100.0	99.8	98.1	94.4	128.7	93.3	131.7	99.1	109.5	100.0	100.0
1912.....	100.0	104.4	98.9	100.5	94.1	127.5	93.3	131.0	98.7	110.1	99.3	103.8

¹ Data for 1890 to 1906 not available; computed with 1907=100.0.

² Data for 1890 to 1910 not available; computed with 1911=100.0.

RELATIVE NOMINAL FULL-TIME HOURS PER WEEK AND RELATIVE RATES OF WAGES PER HOUR IN THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1890 TO 1912—Continued.

Year.	Bottoming department—Continued.											
	Heel burnishers, male.		Heel scourers, male.		Heel-seat nailers, male.		Heel sluggers, male.		Heel trimmers or shavers, ¹ male.		Heelers, male.	
	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average: 1890-1899.....									100.0	100.0		
1890.....									101.6	91.9		
1891.....									100.7	90.8		
1892.....									100.7	97.0		
1893.....									100.4	104.7		
1894.....									99.7	102.3		
1895.....									99.4	103.6		
1896.....									99.4	101.0		
1897.....									99.3	102.3		
1898.....									99.6	105.0		
1899.....									99.1	101.5		
1900.....									97.7	104.8		
1901.....									97.6	105.5		
1902.....									96.7	106.9		
1903.....									96.2	115.7		
1904.....									95.7	122.0		
1905.....									96.1	125.1		
1906.....									95.0	127.4		
1907.....									94.7	129.6		
1908.....									94.9	129.7		
1909.....									95.1	132.0		
1910.....									94.9	131.0		
1911.....	² 100.0	² 100.0	² 100.0	² 100.0	² 100.0	² 100.0	² 100.0	² 100.0	94.7	132.8	² 100.0	² 100.0
1912.....	² 99.6	² 102.1	² 101.3	² 101.1	² 100.0	² 90.6	² 99.8	² 101.9	93.9	132.6	² 99.8	² 96.8

¹ Employees in this occupation were reported as heel trimmers for 1890 to 1907.² Data for 1890 to 1910 not available; computed with 1911=100.0.

RELATIVE NOMINAL FULL-TIME HOURS PER WEEK AND RELATIVE RATES OF WAGES PER HOUR IN THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1890 TO 1912—Concluded.

Year.	Bottoming department—Concluded.						Finishing department.			
	Levelers, male.		McKay sewers, male.		Rough rounders, male.		Treeers or ironers, hand, male.		Treeers or ironers, hand, female.	
	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average: 1890-1899.....			100.0	100.0			100.0	100.0		
1890.....			101.6	95.0			100.1	101.4		
1891.....			101.5	94.1			100.7	97.4		
1892.....			100.4	99.3			99.4	98.8		
1893.....			100.4	104.4			99.0	100.4		
1894.....			99.8	100.6			99.7	101.4		
1895.....			100.2	104.3			100.9	100.9		
1896.....			99.8	98.9			100.3	101.6		
1897.....			99.1	101.2			99.9	97.9		
1898.....			98.5	102.6			100.3	97.7		
1899.....			98.6	99.6			99.7	102.6		
1900.....			96.4	99.9			99.6	107.9		
1901.....			98.0	99.1			99.8	105.5		
1902.....			96.7	100.7			98.2	110.0		
1903.....			96.6	103.6			96.0	123.4		
1904.....			96.3	103.5			95.9	123.3		
1905.....			95.8	102.2			95.9	126.0		
1906.....			95.7	104.3			95.2	122.3		
1907.....			95.2	101.0	¹ 100.0	¹ 100.0	95.5	135.6		
1908.....			95.4	109.2	¹ 100.0	¹ 95.1	95.1	130.9		
1909.....			96.1	96.0	¹ 99.6	¹ 112.1	95.3	130.2		
1910.....			95.2	97.8	¹ 99.1	¹ 106.2	95.1	128.0	² 100.0	² 100.0
1911.....	³ 100.0	³ 100.0	94.5	97.9	¹ 98.8	¹ 114.5	95.4	128.4	² 99.8	² 100.5
1912.....	³ 99.8	³ 104.1	94.2	94.5	¹ 98.1	¹ 115.1	95.2	126.0	² 93.3	² 107.0

¹ Data for 1890 to 1906 not available; computed with 1907=100.0.
² Data for 1890 to 1909 not available; computed with 1910=100.0.
³ Data for 1890 to 1910 not available; computed with 1911=100.0.

The most significant facts concerning nominal full-time working hours per week and rates of wages per hour in each of the principal occupations of the industry are shown for 1907 to 1912, or for such of those years as data are available, in the table which follows.

The data for the several years 1907 to 1911 were secured in 1911. Owing to the difficulty of finding records for past years and also owing to the great amount of work involved, data for 1907 to 1909 were secured from only a limited number of establishments. Data for 1910 and 1911 were obtained from a larger number of establishments.

In 1912 data were gathered for the year 1912 from the establishments that furnished data for 1911, and at the same time some additional data relating to 1911 and 1912 were gathered from a few new establishments, the scope of the work being enlarged to include a greater number of establishments.

To permit a comparison of data from year to year the data for identical establishments are grouped together. A true comparison can be made, of course, only of data from the same establishments. Data for 1912 from new establishments are included in this tabulation only when it was possible to get like data for 1911 from the same establishments. The data are for the pay-roll period ending nearest February 15 each year, except for a very few establishments in which conditions in February were particularly abnormal.

AVERAGE NOMINAL FULL-TIME HOURS OF WORK PER WEEK AND AVERAGE RATE OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1907 TO 1912.

[The establishments set opposite each bracketed group of years are identical.]

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.
<i>Cutting department.</i>				
Cutters, lining, cloth, male:				
31 establishments.....	{ 1911	115	55.4	\$.2701
	{ 1912	128	54.8	.2800
Cutters, vamp and whole shoe, hand, male:				
20 establishments.....	{ 1907	919	54.9	.3250
	{ 1908	907	54.8	.3323
	{ 1909	907	54.7	.3399
	{ 1910	852	54.7	.3448
48 establishments.....	{ 1910	1,650	56.3	.3188
	{ 1911	1,602	56.2	.3169
64 establishments.....	{ 1911	2,066	56.2	.3127
	{ 1912	1,906	55.0	.3222
Cutters, vamp and whole shoe, machine, male:				
17 establishments.....	{ 1910	235	57.8	.3013
	{ 1911	226	57.2	.3000
20 establishments.....	{ 1911	270	57.0	.3126
	{ 1912	300	55.5	.3186
Skivers, upper, machine, male:				
12 establishments.....	{ 1910	74	54.7	.2878
	{ 1911	79	54.7	.3139
28 establishments.....	{ 1911	136	54.8	.2921
	{ 1912	146	54.6	.2885
Skivers, upper, machine, female:				
13 establishments.....	{ 1907	74	56.1	.1875
	{ 1908	70	56.5	.1918
	{ 1909	79	56.3	.1914
	{ 1910	85	56.0	.1954
49 establishments.....	{ 1910	338	57.0	.1749
	{ 1911	314	57.3	.1757
60 establishments.....	{ 1911	374	57.0	.1758
	{ 1912	345	55.1	.1914
<i>Sole-leather department.</i>				
Channelers, insole and outsole, male:				
10 establishments.....	{ 1907	23	55.1	.2829
	{ 1908	23	55.1	.2962
	{ 1909	23	54.7	.3057
	{ 1910	23	54.7	.3004
44 establishments.....	{ 1910	138	56.3	.2963
	{ 1911	140	56.2	.3056
57 establishments.....	{ 1911	157	56.3	.2889
	{ 1912	149	55.5	.2956
Cutters, outsole, male:				
10 establishments.....	{ 1907	50	54.8	.3144
	{ 1908	47	54.5	.3075
	{ 1909	49	54.5	.3065
	{ 1910	54	54.4	.3088
31 establishments.....	{ 1910	143	56.6	.2735
	{ 1911	129	56.5	.2770
36 establishments.....	{ 1911	146	56.6	.2784
	{ 1912	161	56.4	.2861

WAGES AND HOURS OF LABOR, 1890 TO 1912—BOOTS AND SHOES. 17

AVERAGE NOMINAL FULL-TIME HOURS OF WORK PER WEEK AND AVERAGE RATE OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1907 TO 1912—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.
<i>Fitting or stitching department.</i>				
Backstay stitchers, female:				
16 establishments.....	{ 1907	81	56.6	\$0.1708
	{ 1908	78	56.5	.1868
	{ 1909	91	56.3	.1770
	{ 1910	95	56.2	.1793
49 establishments.....	{ 1910	307	56.6	.1765
	{ 1911	299	56.6	.1802
67 establishments.....	{ 1911	392	56.5	.1854
	{ 1912	378	55.2	.1893
Button fasteners, female:				
26 establishments.....	{ 1911	55	56.4	.1572
	{ 1912	70	55.9	.1831
Buttonhole makers, female:				
33 establishments.....	{ 1911	108	56.3	.1757
	{ 1912	168	55.4	.1801
Closers-on, female:				
18 establishments.....	{ 1907	104	55.3	.2003
	{ 1908	100	55.1	.1901
	{ 1909	101	55.1	.2072
	{ 1910	95	55.0	.1979
49 establishments.....	{ 1910	262	57.1	.1784
	{ 1911	277	57.1	.1776
65 establishments.....	{ 1911	350	56.9	.1796
	{ 1912	331	54.9	.1865
Lining makers, female:				
19 establishments.....	{ 1907	124	56.2	.1754
	{ 1908	112	56.1	.1654
	{ 1909	122	56.0	.1730
	{ 1910	154	55.9	.1634
53 establishments.....	{ 1910	585	56.5	.1639
	{ 1911	576	56.5	.1619
72 establishments.....	{ 1911	721	56.5	.1656
	{ 1912	706	55.0	.1709
Tip stitchers, female:				
36 establishments.....	{ 1911	134	55.8	.2049
	{ 1912	137	55.2	.2157
Top stitchers or undertrimmers, female:				
17 establishments.....	{ 1907	151	56.3	.1849
	{ 1908	144	56.3	.1898
	{ 1909	156	56.3	.1957
	{ 1910	164	56.0	.2002
53 establishments.....	{ 1910	721	56.9	.1884
	{ 1911	742	56.8	.1915
73 establishments.....	{ 1911	911	56.7	.1941
	{ 1912	960	54.9	.1978
Vampers, male:				
13 establishments.....	{ 1907	167	54.9	.3175
	{ 1908	99	55.2	.2869
	{ 1909	150	54.6	.2867
	{ 1910	134	54.5	.2941
33 establishments.....	{ 1910	263	55.5	.2927
	{ 1911	249	55.7	.3034
51 establishments.....	{ 1911	343	55.5	.3147
	{ 1912	435	54.9	.3100
Vampers, female:				
22 establishments.....	{ 1907	351	55.7	.2463
	{ 1908	321	55.9	.2424
	{ 1909	391	55.5	.2526
	{ 1910	366	55.5	.2570
53 establishments.....	{ 1910	863	56.9	.2378
	{ 1911	909	56.7	.2382
71 establishments.....	{ 1911	1,124	56.5	.2384
	{ 1912	1,019	55.1	.2334

AVERAGE NOMINAL FULL-TIME HOURS OF WORK PER WEEK AND AVERAGE RATE OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1907 TO 1912—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.
<i>Lasting department.</i>				
Assemblers, for pulling-over machine, male:				
17 establishments.....	1911	218	55.4	\$.2739
	1912	228	54.8	.2645
Bed-machine operators, male:				
15 establishments.....	1907	246	54.7	.3497
	1908	300	54.8	.3336
	1909	307	54.8	.3424
	1910	300	55.0	.3214
35 establishments.....	1910	513	56.4	.3108
	1911	568	56.1	.3229
54 establishments.....	1911	793	56.1	.3210
	1912	1,004	55.5	.3042
Hand-method lasting machine operators, male:				
6 establishments.....	1907	99	57.1	.3111
	1908	89	56.6	.3070
	1909	75	56.7	.3088
	1910	80	56.1	.3223
33 establishments.....	1910	325	57.4	.3062
	1911	352	57.3	.3094
39 establishments.....	1911	477	57.0	.3164
	1912	478	55.8	.3242
Pullers-over, hand, male:				
13 establishments.....	1907	345	56.6	.2558
	1908	330	56.6	.2490
	1909	366	56.2	.2867
	1910	384	55.9	.2763
35 establishments.....	1910	784	56.4	.2913
	1911	784	56.2	.3089
45 establishments.....	1911	897	56.3	.3121
	1912	899	55.4	.3190
Pullers-over, machine, male:				
31 establishments.....	1910	251	57.4	.3204
	1911	266	56.5	.3188
43 establishments.....	1911	328	56.1	.3253
	1912	305	55.6	.3124
<i>Bottoming department.</i>				
Buffers, male:				
36 establishments.....	1911	174	55.8	.2940
	1912	170	55.8	.3068
Edge setters, male:				
18 establishments.....	1907	134	56.0	.3999
	1908	142	56.2	.3509
	1909	150	56.1	.3806
	1910	163	55.9	.3852
54 establishments.....	1910	560	56.3	.3733
	1911	573	56.3	.3800
68 establishments.....	1911	722	56.3	.3800
	1912	698	55.8	.3892
Edge trimmers, male:				
23 establishments.....	1907	283	55.3	.4043
	1908	302	55.1	.3863
	1909	287	55.2	.3975
	1910	305	55.0	.4010
55 establishments.....	1910	573	56.4	.3818
	1911	615	56.2	.3899
71 establishments.....	1911	765	56.1	.3890
	1912	751	55.9	.3855

AVERAGE NOMINAL FULL-TIME HOURS OF WORK PER WEEK AND AVERAGE RATE OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1907 TO 1912—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.
<i>Bottoming department—Concluded.</i>				
Goodyear stitchers, male:				
21 establishments	{ 1907	215	55.3	\$0.4034
	1908	214	55.1	.3759
	1909	221	55.3	.3944
	1910	224	55.2	.3875
45 establishments	{ 1910	366	56.3	.3739
	1911	398	56.0	.3879
61 establishments	{ 1911	529	55.9	.3868
	1912	562	55.9	.3847
Goodyear welters, male:				
14 establishments	{ 1907	67	55.9	.4087
	1908	70	56.0	.4087
	1909	74	55.7	.4435
	1910	81	55.6	.4222
45 establishments	{ 1910	275	56.2	.4373
	1911	289	56.0	.4637
60 establishments	{ 1911	392	56.0	.4520
	1912	411	55.8	.4544
Heel breasters, male:				
35 establishments	{ 1911	76	56.1	.2906
	1912	77	55.7	.3017
Heel burnishers, male:				
33 establishments	{ 1911	106	55.6	.3062
	1912	108	55.4	.3127
Heel scourers, male:				
35 establishments	{ 1911	125	54.8	.2908
	1912	154	55.5	.2940
Heel-seat nailers, male:				
28 establishments	{ 1911	43	55.8	.2987
	1912	43	55.8	.2706
Heel sluggers, male:				
34 establishments	{ 1911	77	55.9	.2848
	1912	79	55.8	.2901
Heel trimmers or shavers, male:				
23 establishments	{ 1907	99	55.1	.4382
	1908	84	55.2	.4387
	1909	82	55.3	.4465
	1910	91	55.2	.4430
55 establishments	{ 1910	189	56.6	.4096
	1911	193	56.5	.4152
71 establishments	{ 1911	246	56.5	.4154
	1912	239	56.0	.4148
Heelers, male:				
31 establishments	{ 1911	115	55.8	.4034
	1912	124	55.7	.3906
Levelers, male:				
36 establishments	{ 1911	102	55.8	.2968
	1912	102	55.7	.3090
McKay sewers, male:				
5 establishments	{ 1907	34	55.2	.2880
	1908	25	55.3	.3113
	1909	28	55.7	.2737
	1910	26	55.2	.2787
28 establishments	{ 1910	95	57.1	.2897
	1911	107	56.7	.2900
30 establishments	{ 1911	129	56.5	.2956
	1912	128	56.3	.2854
Rough rounders, male:				
15 establishments	{ 1907	48	56.0	.3874
	1908	49	56.0	.3683
	1909	54	55.8	.4342
	1910	56	55.5	.4115
44 establishments	{ 1910	165	56.7	.4056
	1911	167	56.5	.4375
60 establishments	{ 1911	221	56.3	.4364
	1912	248	55.9	.4288

AVERAGE NOMINAL FULL-TIME HOURS OF WORK PER WEEK AND AVERAGE RATE OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN BOOT AND SHOE MANUFACTURING, 1907 TO 1912—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.
<i>Finishing department.</i>				
Triers or ironers, hand, male:				
17 establishments	1907	381	54.7	\$0.3047
	1908	364	54.5	.2941
	1909	377	54.6	.2925
	1910	444	54.5	.2876
44 establishments	1910	832	55.9	.2594
	1911	786	56.1	.2602
63 establishments	1911	1,006	56.0	.2668
	1912	1,076	55.9	.2618
Triers or ironers, hand, female:				
8 establishments	1910	74	57.8	.1432
	1911	70	57.7	.1439
11 establishments	1911	85	58.1	.1446
	1912	105	54.3	.1539

EXPLANATION OF SCOPE AND METHOD.

This report on boot and shoe manufacturing includes establishments whose principal or only products are shoes made by the welt, McKay, or turn process. Men's, women's, and children's shoes are included in the product of these factories. No data are included from establishments whose main or sole products are nailed, screwed, or pegged shoes, or specialties such as slippers, leggings, felt boots, etc., nor from establishments doing only fitting or making sole stock.

The number of establishments for which data concerning rates of wages per hour and nominal full-time hours of work per week were secured has varied considerably during the 23-year period, as follows:

1890 to 1903.....	46 identical establishments.
1903 and 1904.....	50 identical establishments.
1904 and 1905.....	52 identical establishments.
1905 and 1906.....	52 identical establishments.
1906 and 1907.....	54 identical establishments.
1907 to 1910.....	26 identical establishments.
1910 and 1911.....	60 identical establishments.
1911 and 1912.....	81 identical establishments.

As before stated, the data for 1907 to 1911 were secured in 1911, and the number of establishments included for the full period 1907 to 1910 was limited owing to the difficulty in finding establishments which had preserved complete records for those years.

In order that the data from year to year may be entirely comparable it is necessary that information be secured from identical establishments; therefore when in 1912 the number of establishments was increased to 81 the Bureau secured data for 1911 also from all establishments added, thus providing for an exact comparison of the two years 1911 and 1912.

In selecting the establishments from which to secure data the Bureau undertook to represent all States in which boot and shoe manufacturing is of material importance, the measure of importance being the number of employees as reported by the United States Census of Manufactures, 1905. In selecting establishments in 1912 every State having 1,725 or more employees in the industry, according to the United States Census of Manufactures in 1905, is represented. The table which follows shows by States the number of employees in the boot and shoe manufacturing industry, as given in the reports of the United States Census Office for 1910 and 1905; the total number on the pay roll in the establishments from which the Bureau secured data in 1912, and the number in the selected occupations and for whom data were secured in 1912. Data were secured from the pay roll ending nearest February 15, except for a few establishments where conditions in February were particularly abnormal.

The census figures for 1910 were not available at the time the work for 1911 and 1912 was planned, and therefore the establishments selected, as already stated, were distributed by States according to the census of 1905. The relative importance, however, of the various States, as measured by the number of employees in this industry, did not change materially—except in the case of Missouri, Wisconsin, and Illinois—during the five years from 1905 to 1910.

TOTAL NUMBER OF EMPLOYEES IN BOOT AND SHOE MANUFACTURING AND NUMBER OF EMPLOYEES IN ESTABLISHMENTS FROM WHICH DATA WERE SECURED IN 1912.

State.	Number of employees reported by United States Census Office.		Establishments furnishing information to the Bureau of Labor Statistics in 1912.		
	1910	1905	Number of establishments.	Number of employees—	
				On pay roll.	For whom data were secured.
Massachusetts.....	74,710	62,633	24	21,214	6,628
New York.....	20,545	16,556	11	7,170	1,854
Ohio.....	15,693	13,890	5	4,459	1,162
Missouri.....	16,336	10,428	11	5,480	1,132
New Hampshire.....	13,042	10,415	7	5,373	1,474
Pennsylvania.....	10,576	8,878	7	3,348	845
Maine.....	6,508	5,775	4	2,523	649
New Jersey.....	4,084	4,192	4	1,327	429
Illinois.....	5,588	3,947	4	2,630	668
Wisconsin.....	5,081	3,226	2	1,224	274
Virginia.....	2,677	1,738	2	498	203
Other States ¹	10,276	8,246	.....	.....	.....
Total.....	185,116	149,924	81	55,246	15,318

¹ Includes States having less than 2,675 employees in 1910 and less than 1,725 in 1905.

According to both the census of 1905 and the census of 1910 more than 94 per cent of the total number of employees in the industry

are found in the States in which the establishments furnishing information to the Bureau of Labor Statistics are located.

The number of employees on the pay rolls of the establishments from which the Bureau secured 1912 data was equal to 29.8 per cent of the total in the industry in 1910, as reported by the United States Census Office, and the number of employees for whom the Bureau secured detailed information in 1912 was equal to 8.3 per cent of the total in the industry in 1910.

All information included in this report was secured from pay rolls of the various establishments by agents of the Bureau of Labor Statistics.

DESCRIPTION OF THE PRINCIPAL PRODUCTIVE OCCUPATIONS.

The kinds of boots and shoes manufactured by the establishments furnishing data for this report are given on page 20.

So far as the staple products covered by this report are concerned, the processes of manufacture are practically standardized, and the operations are highly specialized. In a modern shoe factory there are more than 100 separate operations, each generally performed by a different person.

Of the 100 or more operations of a modern factory, more than 50 may be performed by machines. The number of operations, both hand and machine, varies with the process and product and the equipment of the factory.

A shoe factory usually has the following departments: Cutting, sole leather, fitting or stitching, lasting, bottoming, finishing, and packing.

In the cutting department are cut the several parts of the uppers, the lining, and the trimmings. These parts pass to the fitting or stitching department, where they are sewed together, forming the whole upper.

In the sole-leather department the soles are cut, and heels, counters, and boxes made. Frequently these parts are bought ready-made from factories making a specialty of such manufacture.

In the lasting department the upper, insole, counter, and box are assembled and fitted together on the shoe last. From this department the lasted shoe is sent to the bottoming department, where the welt (in welt shoes) is sewed on, the outer sole sewed on, the heel attached, and the heel and the edge of the sole trimmed to shape and finished.

In the finishing department the shoe is smoothed with a hot iron, scratches rubbed down, stains removed, and the shoe given a final cleaning and inspection. From this department the shoes go to the packing department, where they are boxed and cased for shipment.

Figures as to wages and hours of labor are presented in this report for 35 of the principal occupations of the industry. Hand and machine work on the same process are presented as separate occupations, except in lining cutting, in which occupation they are combined. The sex of the employees is shown for each occupation. Some occupations include both males and females in such numbers that data are presented for both sexes. Other occupations are filled largely or entirely by one sex; the few employees of the other sex in such occupations are not reported. Of the 35 occupations tabulated, data are shown for males only in 25 occupations, for females only in 7 occupations, and for both males and females in 3 occupations.

The occupations represented by females only are all machine-sewing operations. Of all the employees reported for 1912, 27 per cent were females.

The occupations for which data are shown are here listed in alphabetical rather than process order, under each department. The departments, however, are listed in process order.

Cutting department:

- Cutters, lining, cloth, male.
- Cutters, vamp and whole shoe, hand, male.
- Cutters, vamp and whole shoe, machine, male.
- Skivers, upper, machine, male.
- Skivers, upper, machine, female.

Sole-leather department:

- Channelers, insole and outsole, male.
- Cutters, outsole, male.

Fitting or stitching department:

- Backstay stitchers, female.
- Button fasteners, female.
- Buttonhole makers, female.
- Closers-on, female.
- Lining makers, female.
- Tip stitchers, female.
- Top stitchers or undertrimmers, female.
- Vampers, male.
- Vampers, female.

Lasting department:

- Assemblers, for pulling-over machine, male.

Lasting department—Concluded.

- Bed-machine operators, male.
- Hand-method lasting machine operators, male.
- Pullers-over, hand, male.
- Pullers-over, machine, male.

Bottoming department:

- Buffers, male.
- Edge setters, male.
- Edge trimmers, male.
- Goodyear stitchers, male.
- Goodyear welters, male.
- Heel breasters, male.
- Heel burnishers, male.
- Heelers, male.
- Heel scourers, male.
- Heel-seat nailers, male.
- Heel sluggers, male.
- Heel trimmers or shavers, male.
- Levelers, male.
- McKay sewers, male.
- Rough rounders, male.

Finishing department:

- Trees or ironers, hand, male.
- Trees or ironers, hand, female.

CUTTING DEPARTMENT.

All operations of the cutting department here shown are usually performed by men, except skiving, on which operation women also are employed.

CUTTERS, LINING, CLOTH.

Included in this occupation are the men who cut the cloth lining of the upper of the shoe. The work may be performed by hand or machine. The hand cutter receives the cloth folded 8 to 12 thick. He lays his patterns on the cloth and draws a knife along the edge of the pattern, cutting through the several thicknesses of cloth. The machine operator uses a die which, under the pressure of a power machine cuts 24 to 32 thicknesses at one time.

CUTTERS, VAMP AND WHOLE SHOE, HAND.

This occupation includes the men who cut by hand the entire top or outside of the shoe. It covers the men who cut the vamp and possibly some or all of the other part of the top also, but does not include cutters of minor parts only. The vamp is the most important part of the upper and requires the greatest skill in cutting. It consists of the part or parts of the upper attached to the sole. The upper, according to the style of the shoe, may have other parts also, as quarters, tongue, tip, backstay, and foxing. The operator has a bench upon which he spreads the skin; he lays the pattern in the desired place and draws a knife along the edge of the pattern, cutting the part to the desired shape. For each different part of the upper there is a separate pattern. Incidental to the outside cutting care must be exercised in selecting like qualities and weights of stock for the same parts in a pair of shoes.

CUTTERS, VAMP AND WHOLE SHOE, MACHINE.

These operators cut the same part or parts as the hand cutters described above. Instead of patterns and a knife they use dies operated by a power press. Different dies are required for each part of each style and size of shoe. The cutting board is similar to that used by the hand worker, with a beam over it which can be swung either to the left or right and any position over the board. The cutter places the die in the desired position on the leather, grasps the handle of the beam of the clicking machine and swings it over the die, with a downward pressure. A clutch is placed in operation, which brings the beam downward, pressing the die through the leather. After the cut the beam automatically returns to its full height and remains there until the handle is pressed again.

SKIVERS, UPPER, MACHINE.

Skiving consists of cutting away, on the flesh side, the edge of a piece of leather, so that the edge may be turned and pasted back, thus giving a finished rather than a raw edge of the same thickness as

the other parts of the leather. The machine used has a sharp-edged revolving disk so shaped as to cut the desired bevel or shoulder on the leather fed to it.

SOLE-LEATHER DEPARTMENT.

The two operations of this department for which data are shown are performed by men.

CHANNELERS, INSOLE AND OUTSOLE.

The operator has a machine that cuts a slit near the edge of a welt insole or a McKay outsole. The slit extends only part way through the sole and is cut at an acute angle. The lip or lid of the channel is turned back by a channel turner. The channel in the outsole of the welt shoe is cut by the rough rounder. The channel in the welt insole avoids a seam inside the shoe and permits the insole, the welt, and the upper to be stitched together while on the last. In the outsole the channel permits the seam to be countersunk or embedded in the sole. After the outsole is stitched on, the lip of the channel is cemented down on the thread, protecting it from wear.

CUTTERS, OUTSOLE.

The operator cuts the outsole from a side of leather by means of a die and a heavy descending power beam. The leather is laid upon the cutting table, the cutter places the die, and with his foot presses a lever, releasing the beam, which comes down upon the die with sufficient force to press it through the leather. The operator sets the die to have as little waste leather as possible, and to have the same quality of leather in a sole.

FITTING OR STITCHING DEPARTMENT.

Women are employed so generally in this part of the manufacture of a shoe that data are shown for females only in all occupations reported except vamping, in which occupation wages are shown for both sexes. All of these are machine operations.

BACKSTAY STITCHERS.

The back of the shoe is usually strengthened by an additional strip running all or part of the way from the top to the sole of the shoe. This stay is sewed on over the back seam. This work is also called back stripping.

BUTTON FASTENERS.

This is an automatic machine operation. The buttons are fastened on the shoe by either thread or wire. The upper comes to the operator with the position marked for each button. The operator has

only to put the top of the shoe in position and start and stop her machine.

BUTTONHOLE MAKERS.

The upper is received by the operator with the position of each buttonhole marked. The machine cuts and works the buttonhole automatically. The operator has only to hold the upper in position and control the machine.

CLOSERS-ON.

This operation consists of stitching the lining to the top of the upper, both of these parts having been made previously. The work is also called inseaming. This operation is not performed on all shoes. In some shops it is omitted entirely; in others the lining is pasted on, which holds it to the top until the upper is top-stitched.

LINING MAKERS.

These employees are sewing-machine operators who sew together the several parts of the shoe lining. In some shops the work is subdivided, two or more persons doing a part of the work on each lining. This operation of sewing the cloth lining requires less skill than the leather-sewing operations, to which lining makers are usually advanced as they acquire skill.

TIP STITCHERS.

The tip is a separate piece of leather generally put over the toe of the shoe. It is stitched to the vamp by machine.

TOP STITCHERS OR UNDERTRIMMERS.

When the lining has been closed on to the top of the upper, it is folded inside of the upper covering the closing-on seam and passed to the top stitcher who stitches, by machine, the edge of the folded-in seam. This operation is also called undertrimming. In some shops this top stitching is done without a previous closing-on, the lining being held in position or previously pasted.

VAMPERS.

The vamp is the part of the upper to which the sole is attached. Vamping is the process of sewing together the lower part of the shoe, or vamp, and the upper part, known as top or quarter. Pumps or slippers having no tops or quarters do not require vamping. Vamping is the most important and best-paid operation in the fitting room. The operator uses either a single or double needle power vamp sewing machine. Either males or females may operate the machine; women's shoes being light can be vamped by females, but men's shoes

being heavier require male vampers usually; however, in many plants making men's shoes only, there are women vampers.

LASTING DEPARTMENT.

Men are employed almost exclusively in the operations of the lasting room.

ASSEMBLERS, FOR PULLING-OVER MACHINE.

The assembler receives the last with the insole tacked on it. He wets the leather, shellacs the toe box or the tip or both, places the toe box and counter between the lining and the upper, and then puts the last inside the upper. Having centered the upper on the last, he places the last on the spindle of the assembling machine. By pressing a lever the machine automatically drives small tacks through the upper and insole into the bottom of the last at the toe, the heel, and either side, the tacks holding the upper in place temporarily. The shoe goes from the assembler to the machine puller-over. When the pulling-over is a hand operation, the assembling is done by the hand puller-over.

BED-MACHINE OPERATORS.

Lasting is the next operation after the shoe has been pulled over the last. The bed-machine operator places the shoe on the machine and by levers moves a series of wipers (friction pullers) which draw the upper over the edge of the insole at the toe and heel. Some factories designate this as toe and heel lasting. The shoe is placed with the sole up and the operator determines whether the shoe is properly lasted by placing his hand under the toe or heel. The wipers are kept in motion until the operator is satisfied that the upper has been wiped into the desired position. Under the welt system, the operator drives a tack through the upper and insole and partly into the last at one side and passes a fine wire from it around the drawn-in upper at the toe to the opposite side of the last and drives a tack, around which he winds the wire. The wire holds the toe of the upper in position as drawn in over the last. Under the McKay system, instead of the wire used on the toe of welt shoes, tacks are used. The upper at the heel is fastened by tacks driven in by hand. In case the side is lasted by the bed-machine laster the side or instep is lasted by hand with pincers. The operator draws the upper tightly over the last so that there are no wrinkles and tacks it down by hand. Lasting is one of the most important operations in the making of a shoe.

HAND-METHOD LASTING-MACHINE OPERATORS.

In this method of lasting, which is done on a machine known either as "consolidated" or "niggerhead," the operator holds the edge of the shoe so that the pincers of the machine grasp the upper and draw

it evenly and closely about the last. Immediately following the pincers as fast as the upper is drawn into position, there is a device on the machine that drives tacks automatically into the last to hold the upper in its proper place. In case any part of the shoe has not been properly lasted, the operator pulls the tacks and does the work over. Under the welt system this machine is often used to last only the side or instep while the bed machine lasts the toe and heel, thus cutting out the operation of hand lasting the side or instep, which is necessary in plants using only the bed machines.

PULLERS-OVER, HAND.

The hand puller-over is his own assembler, which occupation is described above. With the parts assembled, he takes hand pincers and draws the upper over the last and insole, taking care that the upper keeps its proper position, and drives a tack at the toe and two on either side to hold the upper in position for the laster.

PULLERS-OVER, MACHINE.

Where shoes are pulled over by machine, they are first assembled and put over the last by the assembler. The machine-puller places the shoe in the machine and the pincers of the machine grasp the leather at different points on each side of the shoe. The operator stands so that he can see when the upper is properly centered. He presses a foot lever closing the pincers, which draw the leather securely against the last. The machine stops at this point and the operator can start or stop the machine at will. The operator now examines the shoe to see whether all the parts have been evenly pulled over the last. Where a part has not been properly pulled over it can be adjusted to the desired point by levers. When satisfied that the shoe is properly adjusted, the operator presses a foot lever, the pincers move toward each other, drawing the leather around the last, and at the same time the machine automatically drives two tacks on each side and one at the top through the upper and insole into the last to hold the upper in position.

BOTTOMING DEPARTMENT.

All operations in the bottoming department are usually performed by men.

BUFFERS.

After the shoe has been bottomed, the buffer removes stains from the sole and gives it a smooth, finished appearance by holding it against a revolving roll or wheel covered with sandpaper or emery paper.

EDGE SETTERS.

The edge setter holds the edge of the sole against a machine having hot irons shaped to fit the edge of the sole, which irons vibrate rapidly and give a lasting polish to the edge.

EDGE TRIMMERS.

The operator holds the edge of the sole against a machine having a series of revolving knives that trim the edge smooth and to the desired shape. This operation comes after the bottom has been sewed on and precedes edge setting.

GOODYEAR STITCHERS.

The operator uses a Goodyear outsole lock-stitch machine to stitch the outsole to the welt. The seam is run in the channel in the outsole through both outsole and welt on the outside of the shoe. The stitches show on the upper surface of the welt and are covered on the under surface of the sole by cementing down the lip of the channel.

GOODYEAR WELTERS.

The welt is a narrow strip of leather to which the outsole is to be stitched. It extends around the edge of the shoe as far back as the breast of the heel. By one operation of the machine both the upper and the welt are sewed to the insole, the thread passing through the lip of the channel in the insoles. The outsole is stitched to the welt in a later operation.

HEEL BREASTERS.

The heel breaster operates a machine having a knife which cuts to shape and trims evenly the breast or front surface of the heel, cutting down to the outsole, but not cutting into it.

HEEL BURNISHERS.

The final operation on the heel is the burnishing. The operator holds the shoe with his hand in such position that the heel comes in contact with a wheel on the burnishing machine, which gives it a hard, smooth surface. Hot wax is carried to the heel by a small disk and applied by a series of rubbing blows, which beat the wax thoroughly into the heel. A revolving brush on the same machine brings the heel to a perfectly smooth surface.

HEELERS.

The heels come to the heeler ready-made, except for the top lift or last layer of leather. A helper sticks nails in a steel plate. The heeler places the shoe on a jack or metal last, puts the heel in position,

swings the nail plate into position over the heel when the nails are dropped into another plate over the heel. By operating a foot lever another part of the machine drives the nails down through the heel, the insole, and the upper folded between the insole and the heel, and clinches the nails back into the leather of the insole. The nails protrude slightly above the unfinished heel. The top lift, coated with cement, is then pressed down by the machine on the protruding nails.

HEEL SCOURERS.

This operator holds the shoe by hand so the heel, trimmed but yet not smooth, comes in contact with rolls covered with sandpaper, which smooth the heel. The next operation on the heel is burnishing.

HEEL-SEAT NAILERS.

The heel seat is the heel end of the sole. The insole, the outsole, and the part of the upper brought in between them are nailed together by machine. Small brass nails are driven automatically through the parts and clinched on the insole side. The shoe is placed on a jack and the work of the operator is to guide it during the nailing.

HEEL SLUGGERS.

The slugger operates a machine which drives small pieces of brass or other metal, called "slugs," into the toplift of the heel to protect it from wear. The operator of this machine adjusts the plate so as to place accurately the desired number of slugs, and the machine automatically cuts off and drives the slugs as they are drawn from a coil of wire.

HEEL TRIMMERS OR SHAVERS.

The heel, when the shoe is received from the heeler, is rough and larger than the required size. This operator holds the shoe by hand in such position that the heel comes in contact with a series of revolving knives on his machine which cut away the heel to conform to the desired contour, as indicated by the top lift, which top lift is of exact size when put on by the heeler. The machine has two sets of knives. With the first set the trimmer shaves that part of the heel from the top lift to the sole, then with the other set he trims the edge of the sole, taking care not to cut the upper.

LEVELERS.

The operation of leveling to correct any unevenness in the bottom of the shoe is done with an automatic sole-leveling machine. The operator places the shoe on a jack or metal last, which he attaches to the machine, where it is securely held by the spindle and a toe rest. He presses a foot lever and the shoe passes automatically beneath a

roll under heavy pressure. This roll moves with a vibrating motion over the middle of the sole of the shoe from the toe down to and into the shank and passes back again to the toe. The roll then cants to the right and repeats the operation on that side of the sole, returning to the toe as before. It then cants to the left, repeating the operation on that side, after which the shoe automatically drops forward and is relieved from the pressure. While one shoe is under pressure the operator is preparing another shoe for the operation.

MCKAY SEWERS.

This operator uses a McKay sewing machine to sew together the outsole, the upper, and the insole—the three parts being sewed together in the one operation, except the heel seat, which is nailed. No welt is used in the McKay process, the seam being embedded in the channel of the outsole; the opposite side of the seam is on the inside of the shoe instead of on the top of the welt outside the shoe, as in the welt process of manufacture.

ROUGH ROUNDERS.

This operation consists of trimming by machine the edge of the outsole and welt so that they will extend a uniform distance from the upper. It is the first operation on the edge of the sole in the Goodyear process. The machine also cuts a channel in the outsole, in which the thread is embedded, when the Goodyear stitching is done later.

FINISHING DEPARTMENT.

TREERS OR IRONERS, HAND.

The treer places the shoe on a form, the shape of a last, supported on a frame. By pressing a foot lever the form is expanded so that the shoe fits tight over it. The tools of the treer are a hot iron, brush, cloth, etc. The treer brushes the shoe, cleans spots and discolorations, remedies any slight cut or blemish, and rubs the upper with a hot iron to take out wrinkles and produce a smooth surface. As females are engaged in this occupation to a considerable extent, data are shown for both sexes.

EXPLANATION OF TABLES.

This report includes one general table covering the 6-year period, 1907 to 1912, and two general tables covering the 3-year period, 1910 to 1912, as follows:

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

Table II.—Average rates of wages per hour and average and classified nominal full-time hours of work per week, in each year, by States, 1910 to 1912.

Table III.—Average rates of wages per hour and average and classified nominal full-time hours of work per week, in each State, by years, 1910 to 1912.

Table I.—Average rates of wages per hour and average and classified nominal full-time hours of work per week in the United States, by years, 1907 to 1912 (pp. 34 to 43).—This table summarizes the data concerning rates of wages and nominal full-time hours of work secured from the whole number of establishments furnishing information. For each of the principal occupations enumerated on page 6 data are shown, as far as available, for each of the six years, 1907 to 1912.

The first section of the table shows for each occupation the number of establishments from which data were secured, number of employees, average rate of wages per hour, average nominal full-time hours per week, and number of employees under each classified number of nominal full-time working hours per week. The data as to time worked by individual employees paid on a piece basis were not sufficiently satisfactory in many establishments to warrant the presentation of classified rates of wages per hour. The second section of the table shows the per cent of employees under each classified number of nominal full-time working hours per week.

The data for years grouped together by brackets in the table are from identical establishments. As previously explained, exact comparison can be made from year to year only when the establishments compared are identical.

The relative nominal full-time hours per week and the relative rates of wages per hour for 1907 to 1912, shown on pages 9 to 15, are computed from the averages shown in this table. The method of computing the relatives can best be explained by using an illustration, thus: For outsole cutters the average nominal full-time hours per week in 10 establishments was 54.8 in 1907 and 54.5 in the same 10 establishments in 1908. The average in 1908 (54.5) was 99.45 per cent of the average (54.8) in 1907. Bulletin No. 77 (July, 1908) shows that, for nominal full-time hours per week for outsole cutters, the relative was 98.0 in 1907 (average for 1890–1899=100.0). The average nominal full-time hours for 1908 were then reduced to a comparison with the base period (average for 1890–1899=100.0) by computing 99.45 per cent of 98.0, which is 97.5. The same method was followed in computing the relative rate of wages per hour; the average in 1908 (\$0.3075) was 97.81 per cent of the average in 1907 (\$0.3144); the relative (average for 1890–1899=100.0) for 1907 as shown in Bulletin No. 77 was 114.3; and 97.81 per cent of 114.3 is 111.8, or the relative rate of wages per hour in 1908 if the average for 1890 to 1899 is the

base or 100.0. In computing for this occupation the relatives for 1911, comparison was made of the data for 31 identical establishments and in computing the relatives for 1912 comparison was made of the data from 36 identical establishments.

Table II.—Average rates of wages per hour and average and classified nominal full-time hours of work per week, in each year, by States, 1910 to 1912 (pp. 44 to 58).—This table affords an easy comparison of rates of wages per hour and nominal full-time hours of work per week in the several States. It shows for each of the principal occupations the average rate of wages per hour and the classified nominal full-time hours of work per week. Under each year, 1910 to 1912, or for such of those years as data are available, the data are shown for each of the States represented by any considerable number of employees.

Table III.—Average rates of wages per hour and average and classified nominal full-time hours of work per week in each State, by years, 1910 to 1912 (pp. 59 to 69).—This table affords an easy comparison of rates of wages per hour and nominal full-time hours of work per week in the several years, 1910 to 1912. It shows for each of the principal occupations the average rate of wages per hour and the classified nominal full-time hours of work per week. For each of the more important States in this industry the data are shown for each of the three years, 1910 to 1912, or for such of these years as data are available.

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

BOOT AND SHOE MANUFACTURING.

[The establishments set opposite each bracketed group of years are identical.]

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Cutting department.</i>										
Cutters, lining, cloth, male:										
31 establishments.....	{1911	115	\$0.2701	55.4	16	7	27	17	45	3
	1912	128	.2800	54.8	20	12	43	14	34	5
Cutters, vamp and whole shoe, hand, male:										
20 establishments.....	{1907	919	.3250	54.9	11	157	343	252	156	.....
	1908	907	.3323	54.8	6	175	331	283	112	.....
	1909	907	.3399	54.7	14	159	346	286	102	.....
	1910	852	.3448	54.7	13	176	278	291	94	.....
48 establishments.....	{1910	1,650	.3188	56	13	176	405	395	319	342
	1911	1,602	.3169	56.2	14	158	425	398	311	296
64 establishments.....	{1911	2,066	.3127	56.2	.....	158	589	587	384	348
	1912	1,906	.3222	55.0	217	162	720	272	323	212
Cutters, vamp and whole shoe, machine, male:										
17 establishments.....	{1910	235	.3013	57.8	.....	.....	13	70	98	54
	1911	226	.3000	57.2	.....	.....	15	75	102	34
20 establishments.....	{1911	270	.3126	57.0	.....	.....	59	69	87	55
	1912	300	.3186	55.5	29	24	113	.....	85	49
Skivers, upper, machine, male:										
12 establishments.....	{1910	74	.2878	54.7	.....	.....	49	13	12	.....
	1911	79	.3139	54.7	.....	.....	52	21	6	.....
28 establishments.....	{1911	136	.2921	54.8	.....	.....	92	24	20	.....
	1912	146	.2885	54.6	.....	10	100	11	24	1
Skivers, upper, machine, female:										
13 establishments.....	{1907	74	.1875	56.1	.....	.....	8	37	29	.....
	1908	70	.1918	56.5	.....	.....	7	27	36	.....
	1909	79	.1914	56.3	.....	.....	11	31	37	.....
	1910	85	.1954	56.0	.....	.....	8	35	42	.....
49 establishments.....	{1910	338	.1749	57.0	1	30	40	81	86	100
	1911	314	.1757	57.3	2	25	25	84	94	84
60 establishments.....	{1911	374	.1758	57.0	.....	25	33	113	108	95
	1912	345	.1914	55.1	9	26	158	50	91	11
<i>Sole-leather department.</i>										
Channelers, insole and outsole, male:										
10 establishments.....	{1907	23	.2829	55.1	4	.....	8	2	9	.....
	1908	23	.2962	55.1	4	.....	8	2	9	.....
	1909	23	.3057	54.7	4	.....	10	2	7	.....
	1910	23	.3004	54.7	4	.....	10	2	7	.....
44 establishments.....	{1910	138	.2963	56.3	4	7	39	22	48	18
	1911	140	.3056	56.2	4	7	37	31	48	13
57 establishments.....	{1911	157	.2889	56.3	.....	7	46	38	45	21
	1912	149	.2956	55.5	.....	12	61	30	39	7
Cutters, outsole, male:										
10 establishments.....	{1907	50	.3144	54.8	.....	.....	38	5	7	.....
	1908	47	.3075	54.5	.....	.....	35	10	2	.....
	1909	49	.3065	54.5	.....	.....	37	10	2	.....
	1910	54	.3089	54.4	.....	.....	42	10	2	.....
31 establishments.....	{1910	143	.2735	56.6	.....	.....	48	29	46	20
	1911	129	.2770	56.5	.....	.....	40	34	39	16
36 establishments.....	{1911	146	.2784	56.6	.....	.....	43	43	39	21
	1912	161	.2861	56.4	.....	2	56	34	48	21

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

BOOT AND SHOE MANUFACTURING—Continued.

NUMBER—Continued.

Occupation, sex, and number of establishments.	Year.	Num-ber of em-ploy-ees.	Aver-age rate of wages per hour.	Aver-age nom-inal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Fitting or stitching department.</i>										
Backstay stitchers, female:										
16 establishments	1907	81	\$0.1708	56.6	.....	.....	15	18	48	.....
	1908	78	.1858	56.5	.....	.....	13	23	42	.....
	1909	91	.1770	56.3	.....	.....	21	25	45	.....
	1910	95	.1793	56.2	.....	.....	16	25	54	.....
49 establishments	1910	307	.1765	56.6	1	32	35	88	84	67
	1911	299	.1802	56.6	1	28	36	79	99	56
67 establishments	1911	392	.1854	56.5	.....	28	69	110	121	64
	1912	378	.1893	55.2	11	8	203	41	97	18
Button fasteners, female:										
26 establishments	1911	55	.1572	56.4	.....	5	9	12	26	3
	1912	70	.1831	55.9	.....	6	28	2	34	.....
Buttonhole makers, female:										
33 establishments	1911	108	.1757	56.3	.....	2	29	23	48	6
	1912	168	.1801	55.4	.....	17	79	8	64	.....
Closers-on, female:										
18 establishments	1907	104	.2003	55.3	.....	17	25	34	28	.....
	1908	100	.1901	55.1	.....	20	21	41	18	.....
	1909	101	.2072	55.1	.....	19	19	45	18	.....
	1910	95	.1979	55.0	.....	23	19	34	19	.....
49 establishments	1910	262	.1784	57.1	1	23	34	57	60	87
	1911	277	.1776	57.1	1	5	36	89	72	74
65 establishments	1911	350	.1796	56.9	.....	5	62	108	88	87
	1912	331	.1865	54.9	15	16	178	36	71	15
Lining makers, female:										
19 establishments	1907	124	.1754	56.2	.....	.....	24	44	56	.....
	1908	112	.1654	56.1	.....	.....	24	42	46	.....
	1909	122	.1730	56.0	.....	.....	28	46	48	.....
	1910	154	.1634	55.9	.....	.....	33	55	66	.....
53 establishments	1910	585	.1639	56.5	2	88	76	145	141	133
	1911	576	.1619	56.5	3	81	75	162	154	101
72 establishments	1911	721	.1656	56.5	.....	81	136	190	189	125
	1912	706	.1709	55.0	21	39	373	85	161	27
Tip stitchers, female:										
36 establishments	1911	134	.2049	55.8	.....	10	38	32	49	5
	1912	137	.2157	55.2	.....	12	68	17	40	.....
Top stitchers or undertrimmers, female:										
17 establishments	1907	151	.1849	56.3	.....	.....	30	45	76	.....
	1908	144	.1898	56.3	.....	.....	31	41	72	.....
	1909	156	.1957	56.3	.....	.....	31	47	78	.....
	1910	164	.2002	56.0	.....	.....	32	49	83	.....
53 establishments	1910	721	.1884	56.9	3	64	111	148	192	203
	1911	742	.1915	56.8	4	63	109	169	232	165
73 establishments	1911	911	.1941	56.7	.....	63	183	212	268	185
	1912	950	.1978	54.9	29	81	521	80	212	27
Vampers, male:										
13 establishments	1907	167	.3175	54.9	.....	7	119	9	32	.....
	1908	99	.2869	55.2	.....	18	41	15	25	.....
	1909	150	.2867	54.6	.....	58	51	21	20	.....
	1910	134	.2941	54.5	.....	48	46	18	22	.....
33 establishments	1910	263	.2927	55.5	.....	48	67	63	57	28
	1911	249	.3034	55.7	.....	21	69	81	53	25
51 establishments	1911	343	.3147	55.5	.....	21	138	94	61	29
	1912	435	.3100	54.9	15	56	199	57	93	15

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

BOOT AND SHOE MANUFACTURING—Continued.

NUMBER—Continued.

Occupation, sex, and number of establishments.	Year.	Num-ber of em-ploy-ees.	Aver-age rate of wages per hour.	Aver-age nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Fitting or stitching department—Con.</i>										
Vampers, female:										
22 establishments	1907	351	\$.2463	55.7	4	54	56	105	132	.....
	1908	321	.2424	55.9	3	18	60	119	121	.....
	1909	391	.2526	55.5	5	77	66	123	120	.....
	1910	366	.2570	55.5	6	39	67	129	125	.....
53 establishments	1910	863	.2378	56.9	20	39	125	206	241	232
	1911	909	.2382	56.7	26	45	138	229	268	203
71 establishments	1911	1,124	.2384	56.5	21	45	191	291	315	261
	1912	1,019	.2334	55.1	15	66	546	107	237	48
<i>Lasting department.</i>										
Assemblers, for pulling-over machine, male:										
17 establishments	1911	218	.2739	55.4	.....	.....	93	69	49	7
	1912	228	.2645	54.8	31	.....	102	37	47	11
Bed-machine operators, male:										
15 establishments	1907	246	.3497	54.7	.....	54	126	22	44	.....
	1908	300	.3336	54.8	.....	23	194	31	52	.....
	1909	307	.3424	54.8	.....	31	189	34	53	.....
	1910	300	.3214	55.0	.....	15	169	36	80	.....
35 establishments	1910	513	.3108	56.4	.....	15	169	77	153	99
	1911	568	.3229	56.1	.....	26	172	159	113	98
54 establishments	1911	793	.3210	56.1	.....	26	263	201	183	120
	1912	1,004	.3042	55.5	.....	99	438	151	218	98
Hand-method lasting machine operators, male:										
6 establishments	1907	99	.3111	57.1	.....	.....	.....	39	60	.....
	1908	89	.3070	56.6	.....	.....	.....	48	41	.....
	1909	75	.3088	56.7	.....	.....	.....	39	36	.....
	1910	80	.3223	56.1	.....	.....	.....	51	29	.....
33 establishments	1910	325	.3062	57.4	4	.....	39	90	86	106
	1911	352	.3094	57.3	5	.....	45	94	107	101
39 establishments	1911	477	.3164	57.0	.....	.....	94	137	112	134
	1912	478	.3242	55.8	26	.....	184	86	97	85
Pullers-over, hand, male:										
13 establishments	1907	345	.2558	56.6	.....	.....	77	73	195	.....
	1908	330	.2490	56.6	.....	.....	74	63	193	.....
	1909	366	.2867	56.2	.....	.....	111	82	173	.....
	1910	384	.2763	55.9	.....	.....	105	99	180	.....
35 establishments	1910	784	.2913	56.4	5	19	207	178	228	147
	1911	784	.3089	56.2	7	27	204	206	234	106
45 establishments	1911	897	.3121	56.3	.....	27	263	234	219	154
	1912	899	.3190	55.4	24	111	297	188	212	67
Pullers-over, machine, male:										
31 establishments	1910	251	.3204	57.4	.....	.....	50	36	85	80
	1911	266	.3188	56.5	.....	.....	77	91	47	51
43 establishments	1911	328	.3253	56.1	.....	.....	110	120	52	46
	1912	305	.3124	55.6	15	34	113	43	47	53

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

BOOT AND SHOE MANUFACTURING—Continued.

NUMBER—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Bottoming department.</i>										
Buffers, male:										
36 establishments	1911	174	\$0.2940	55.8	.....	5	51	49	67	2
	1912	170	.3068	55.8	.....	5	52	48	58	7
Edge setters, male:										
18 establishments	1907	134	.3999	56.0	.....	.....	31	50	53	.....
	1908	142	.3509	56.2	.....	.....	29	48	65	.....
	1909	150	.3806	56.1	.....	.....	35	53	62	.....
	1910	163	.3852	55.9	.....	.....	34	58	71	.....
54 establishments	1910	560	.3733	56.3	3	72	97	142	146	100
	1911	573	.3800	56.3	4	60	113	148	147	101
68 establishments	1911	722	.3800	56.3	.....	60	191	170	177	124
	1912	698	.3892	55.8	.....	52	257	149	142	98
Edge trimmers, male:										
23 establishments	1907	283	.4043	55.3	.....	46	93	67	77	.....
	1908	302	.3863	55.1	.....	48	113	79	62	.....
	1909	287	.3975	55.2	.....	46	93	83	65	.....
	1910	305	.4010	55.0	.....	58	97	83	67	.....
55 establishments	1910	573	.3818	56.4	3	58	117	137	137	121
	1911	615	.3899	56.2	4	55	139	175	140	102
71 establishments	1911	765	.3890	56.1	.....	55	220	200	174	116
	1912	751	.3855	55.9	.....	51	264	146	192	98
Goodyear stitchers, male:										
21 establishments	1907	215	.4034	55.3	.....	23	93	45	54	.....
	1908	214	.3759	55.1	.....	21	92	59	42	.....
	1909	221	.3944	55.3	.....	26	76	66	53	.....
	1910	224	.3875	55.2	.....	21	77	70	56	.....
45 establishments	1910	366	.3739	56.3	3	21	88	96	89	69
	1911	398	.3879	56.0	3	28	106	118	81	62
61 establishments	1911	529	.3868	55.9	.....	28	184	133	110	74
	1912	562	.3847	55.9	.....	38	221	103	105	95
Goodyear welters, male:										
14 establishments	1907	67	.4087	55.9	.....	.....	22	19	26	.....
	1908	70	.4087	56.0	.....	.....	23	18	29	.....
	1909	74	.4435	55.7	.....	.....	27	21	26	.....
	1910	81	.4222	55.6	.....	.....	29	20	32	.....
45 establishments	1910	275	.4373	56.2	2	19	79	62	61	52
	1911	289	.4637	56.0	2	27	78	79	52	51
60 establishments	1911	392	.4520	56.0	.....	27	132	93	77	63
	1912	411	.4544	55.8	.....	40	162	68	84	57
Heel breasters, male:										
35 establishments	1911	76	.2906	56.1	.....	2	20	20	31	3
	1912	77	.3017	55.7	.....	8	23	19	23	4
Heel burnishers, male:										
33 establishments	1911	106	.3062	55.6	.....	2	42	27	34	1
	1912	108	.3127	55.4	.....	5	45	25	30	3
Heelers, male:										
31 establishments	1911	115	.4034	55.8	.....	10	33	26	44	2
	1912	124	.3906	55.7	.....	8	46	25	39	6
Heel scourers, male:										
35 establishments	1911	125	.2908	54.8	.....	7	44	30	42	2
	1912	154	.2940	55.5	.....	15	59	24	52	4
Heel-seat nailers, male:										
28 establishments	1911	43	.2987	55.8	.....	.....	17	10	15	1
	1912	43	.2706	55.8	.....	.....	19	9	13	2
Heel sluggers, male:										
34 establishments	1911	77	.2848	55.9	.....	.....	27	19	28	3
	1912	79	.2901	55.8	.....	.....	31	17	27	4

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

BOOT AND SHOE MANUFACTURING—Continued.

NUMBER—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Bottoming department—Concluded.</i>										
Heel trimmers or shavers, male:										
23 establishments	1907	99	\$0.4382	55.1	-----	25	24	29	21	-----
	1908	84	.4387	55.2	-----	15	22	29	18	-----
	1909	82	.4465	55.3	-----	12	22	28	20	-----
	1910	91	.4430	55.2	-----	17	21	31	22	-----
55 establishments	1910	189	.4096	56.6	1	17	27	54	50	40
	1911	193	.4152	56.5	1	16	29	59	52	36
71 establishments	1911	246	.4154	56.5	-----	16	47	80	60	43
	1912	239	.4148	56.0	-----	18	70	56	63	32
Levelers, male:										
36 establishments	1911	102	.2968	55.8	-----	7	32	23	37	3
	1912	102	.3090	55.7	-----	7	37	22	30	6
McKay sewers, male:										
5 establishments	1907	34	.2880	55.2	-----	14	-----	11	9	-----
	1908	25	.3113	55.3	-----	9	-----	9	7	-----
	1909	28	.2737	55.7	-----	9	-----	8	11	-----
	1910	26	.2787	55.2	-----	10	-----	7	9	-----
28 establishments	1910	95	.2897	57.1	1	10	5	24	30	25
	1911	107	.2900	56.7	1	13	7	29	43	14
30 establishments	1911	129	.2956	56.5	-----	13	9	49	43	15
	1912	128	.2854	56.3	-----	3	24	40	50	11
Rough rounders, male:										
15 establishments	1907	48	.3874	56.0	-----	-----	13	15	20	-----
	1908	49	.3683	56.0	-----	-----	13	16	20	-----
	1909	54	.4342	55.8	-----	-----	18	16	20	-----
	1910	56	.4115	55.5	-----	-----	19	16	21	-----
44 establishments	1910	165	.4056	56.7	1	-----	41	40	44	39
	1911	167	.4375	56.5	1	-----	39	59	33	35
60 establishments	1911	221	.4364	56.3	-----	2	65	68	43	43
	1912	248	.4388	55.9	-----	23	88	50	50	37
<i>Finishing department.</i>										
Triers or ironers, hand, male:										
17 establishments	1907	381	.3047	54.7	-----	107	153	72	49	-----
	1908	364	.2941	54.5	-----	107	132	102	23	-----
	1909	377	.2925	54.6	-----	105	124	113	35	-----
	1910	444	.2876	54.5	-----	173	110	114	47	-----
44 establishments	1910	832	.2594	55.9	-----	173	140	225	150	144
	1911	786	.2602	56.1	-----	100	156	250	141	139
63 establishments	1911	1,006	.2668	56.0	-----	100	265	311	181	149
	1912	1,076	.2618	55.9	-----	115	334	239	239	149
Triers or ironers, hand, female:										
8 establishments	1910	74	.1432	57.8	-----	-----	22	-----	32	20
	1911	70	.1439	57.7	-----	-----	23	-----	25	22
11 establishments	1911	85	.1446	58.1	-----	-----	23	-----	25	37
	1912	105	.1539	54.3	-----	11	67	13	14	-----

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

BOOT AND SHOE MANUFACTURING—Continued.

PER CENT.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average rate of wages per hour.	Average nom-inal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Cutting department.</i>										
Cutters, lining, cloth, male:										
31 establishments	1911	115	\$0.2701	55.4	13.9	6.1	23.5	14.8	39.1	2.6
	1912	128	.2800	54.8	15.6	9.4	33.6	10.9	26.6	3.9
Cutters, vamp and whole shoe, hand, male:										
20 establishments	1907	919	.3250	54.9	1.2	17.1	37.3	27.4	17.0	-----
	1908	907	.3323	54.8	.7	19.3	36.5	31.2	12.3	-----
	1909	907	.3399	54.7	1.5	17.5	38.1	31.5	11.2	-----
	1910	852	.3448	54.7	1.5	20.7	32.6	34.2	11.0	-----
48 establishments	1910	1,650	.3188	56.3	.8	10.7	24.5	23.9	19.3	20.7
	1911	1,602	.3169	56.2	.9	9.9	26.5	24.8	19.4	18.5
64 establishments	1911	2,066	.3127	56.2	-----	7.6	28.5	28.4	18.6	16.8
	1912	1,906	.3222	55.0	11.4	8.5	37.8	14.3	16.9	11.1
Cutters, vamp and whole shoe, machine, male:										
17 establishments	1910	235	.3013	57.8	-----	-----	5.5	29.8	41.7	23.0
	1911	226	.3000	57.2	-----	-----	6.6	33.2	45.1	15.0
20 establishments	1911	270	.3126	57.0	-----	-----	21.9	25.6	32.2	20.4
	1912	300	.3186	55.5	9.7	8.0	37.7	-----	28.3	16.3
Skivers, upper, machine, male:										
12 establishments	1910	74	.2878	54.7	-----	-----	66.2	17.6	16.2	-----
	1911	79	.3139	54.7	-----	-----	65.8	26.6	7.6	-----
28 establishments	1911	136	.2921	54.8	-----	-----	67.6	17.6	14.7	-----
	1912	146	.2885	54.6	-----	6.8	68.5	7.5	16.4	.7
Skivers, upper, machine, female:										
13 establishments	1907	74	.1875	56.1	-----	-----	10.8	50.0	39.2	-----
	1908	70	.1918	56.5	-----	-----	10.0	38.6	51.4	-----
	1909	79	.1914	56.3	-----	-----	13.9	39.2	46.8	-----
	1910	85	.1954	56.0	-----	-----	9.4	41.2	49.4	-----
49 establishments	1910	338	.1749	57.0	.3	8.9	11.8	24.0	25.4	29.6
	1911	314	.1757	57.3	.6	8.0	8.0	26.8	29.9	26.8
60 establishments	1911	374	.1758	57.0	-----	6.7	8.8	30.2	28.9	25.4
	1912	345	.1914	55.1	2.6	7.5	45.8	14.5	26.4	3.2
<i>Sole-leather department.</i>										
Channelers, insole and outsole, male:										
10 establishments	1907	23	.2829	55.1	17.4	-----	34.8	8.7	39.1	-----
	1908	23	.2962	55.1	17.4	-----	34.8	8.7	39.1	-----
	1909	23	.3057	54.7	17.4	-----	43.5	8.7	30.4	-----
	1910	23	.3004	54.7	17.4	-----	43.5	8.7	30.4	-----
44 establishments	1910	138	.2963	56.3	2.9	5.1	28.3	15.9	34.8	13.0
	1911	140	.3056	56.2	2.9	5.0	26.4	22.1	34.3	9.3
57 establishments	1911	157	.2889	56.3	-----	4.5	29.3	24.2	28.7	13.4
	1912	149	.2956	55.5	-----	8.1	40.9	20.1	26.2	4.7
Cutters, outsole, male:										
10 establishments	1907	50	.3144	54.8	-----	-----	76.0	10.0	14.0	-----
	1908	47	.3075	54.5	-----	-----	74.5	21.3	4.3	-----
	1909	49	.3065	54.5	-----	-----	75.5	20.4	4.1	-----
	1910	54	.3089	54.4	-----	-----	77.8	18.5	3.7	-----
31 establishments	1910	143	.2735	56.6	-----	-----	33.6	20.3	32.2	14.0
	1911	129	.2770	56.5	-----	-----	31.0	26.4	30.2	12.4
36 establishments	1911	146	.2784	56.6	-----	-----	29.5	29.5	26.7	14.4
	1912	161	.2861	56.4	-----	1.2	34.8	21.1	29.8	13.0

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

BOOT AND SHOE MANUFACTURING—Continued.

PER CENT—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Fitting or stitching department.</i>										
Backstay stitchers, female:										
16 establishments.....	1907	81	\$0.1708	56.6			18.5	22.2	59.3	
	1908	78	.1858	56.5			16.7	29.5	53.8	
	1909	91	.1770	56.3			23.1	27.5	49.5	
	1910	95	.1793	56.2			16.8	26.3	56.8	
49 establishments.....	1910	307	.1765	56.6	0.3	10.4	11.4	28.7	27.4	21.8
	1911	299	.1802	56.6	.3	9.4	12.0	26.4	33.1	18.7
67 establishments.....	1911	392	.1854	56.5		7.1	17.6	28.1	30.9	16.3
	1912	378	.1893	55.2	2.9	2.1	53.7	10.8	25.7	4.8
Button fasteners, female:										
26 establishments.....	1911	55	.1572	56.4		9.1	16.4	21.8	47.3	5.5
	1912	70	.1831	55.9		8.6	40.0	2.9	48.6	
Buttonhole makers, female:										
33 establishments.....	1911	108	.1757	56.3		1.9	26.9	21.3	44.4	5.6
	1912	168	.1801	55.4		10.1	47.0	4.8	38.1	
Closers-on, female:										
18 establishments.....	1907	104	.2003	55.3		16.3	24.0	32.7	26.9	
	1908	100	.1901	55.1		20.0	21.0	41.0	18.0	
	1909	101	.2072	55.1		18.8	18.8	44.6	17.8	
	1910	95	.1979	55.0		24.2	20.0	35.8	20.0	
49 establishments.....	1910	262	.1784	57.1	.4	8.8	13.0	21.8	22.9	33.2
	1911	277	.1776	57.1	.4	1.8	13.0	32.1	26.0	26.7
65 establishments.....	1911	350	.1796	56.9		1.4	17.7	30.9	25.1	24.9
	1912	331	.1865	54.9	4.5	4.8	53.8	10.9	21.5	4.5
Lining makers, female:										
19 establishments.....	1907	124	.1754	56.2			19.4	35.5	45.2	
	1908	112	.1654	56.1			21.4	37.5	41.1	
	1909	122	.1730	56.0			23.0	37.7	39.3	
	1910	154	.1634	55.9			21.4	35.7	42.9	
53 establishments.....	1910	585	.1639	56.5	.3	15.0	13.0	24.8	24.1	22.7
	1911	576	.1619	56.5	.5	14.1	13.0	28.1	26.7	17.5
72 establishments.....	1911	721	.1656	56.5		11.2	18.9	26.4	26.2	17.3
	1912	706	.1709	55.0	3.0	5.5	52.8	12.0	22.8	3.8
Tip stitchers, female:										
36 establishments.....	1911	134	.2049	55.8		7.5	28.4	23.9	36.6	3.7
	1912	137	.2157	55.2		8.8	49.6	12.4	29.2	
Top stitchers or undertrimmers, female:										
17 establishments.....	1907	151	.1849	56.3			19.9	29.8	50.3	
	1908	144	.1898	56.3			21.5	28.5	50.0	
	1909	156	.1957	56.3			19.9	30.1	50.0	
	1910	164	.2002	56.0			19.5	29.9	50.6	
53 establishments.....	1910	721	.1884	56.9	.4	8.9	15.4	20.5	26.6	28.2
	1911	742	.1915	56.8	.5	8.5	14.7	22.8	31.3	22.2
73 establishments.....	1911	911	.1941	56.7		6.9	20.1	23.3	29.4	20.3
	1912	950	.1978	54.9	3.1	8.5	54.8	8.4	22.3	2.8
Vampers, male:										
13 establishments.....	1907	167	.3175	54.9		4.1	71.3	5.4	19.2	
	1908	99	.2869	55.2		18.2	41.4	15.2	25.3	
	1909	150	.2867	54.6		38.7	34.0	14.0	13.3	
	1910	134	.2941	54.5		35.8	34.3	13.4	16.4	
33 establishments.....	1910	263	.2927	55.5		18.3	25.5	24.0	21.7	10.6
	1911	249	.3034	55.7		8.4	27.7	32.5	21.3	10.0
51 establishments.....	1911	343	.3147	55.5		6.1	40.2	27.4	17.8	8.5
	1912	435	.3100	54.9	3.4	12.9	45.7	13.1	21.4	3.4

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

BOOT AND SHOE MANUFACTURING—Continued.

PER CENT—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Fitting or stitching department—Con.</i>										
Vampers, female:										
22 establishments.....	1907	351	\$0.2463	55.7	1.1	15.4	16.0	29.9	37.6	.....
	1908	321	.2424	55.9	.9	5.6	18.7	37.1	37.7	.....
	1909	391	.2526	55.5	1.3	19.7	16.9	31.5	30.7	.....
	1910	366	.2570	55.5	1.6	10.7	18.3	35.2	34.2	.....
53 establishments.....	1910	863	.2378	56.9	2.3	4.5	14.5	23.9	27.9	26.9
	1911	909	.2382	56.7	2.9	5.0	15.2	25.2	29.5	22.3
71 establishments.....	1911	1,124	.2384	56.5	1.9	4.0	17.0	25.9	28.0	23.2
	1912	1,019	.2334	55.1	1.5	6.5	53.6	10.5	23.3	4.7
<i>Lasting department.</i>										
Assemblers, for pulling-over machine, male:										
17 establishments.....	1911	218	.2739	55.4	.....	.....	42.7	31.7	22.5	3.2
	1912	228	.2645	54.8	13.6	.....	44.7	16.2	20.6	4.8
Bed-machine operators, male:										
15 establishments.....	1907	246	.3497	54.7	.....	22.0	51.2	8.9	17.9	.....
	1908	300	.3336	54.8	.....	7.7	64.7	10.3	17.3	.....
	1909	307	.3424	54.8	.....	10.1	61.6	11.1	17.3	.....
	1910	300	.3214	55.0	.....	5.0	56.3	12.0	26.7	.....
35 establishments.....	1910	513	.3108	56.4	.....	2.9	32.9	15.0	29.8	19.3
	1911	568	.3229	56.1	.....	4.6	30.3	28.0	19.9	17.3
54 establishments.....	1911	793	.3210	56.1	.....	3.3	33.2	25.3	23.1	15.1
	1912	1,004	.3042	55.5	.....	9.9	43.6	15.0	21.7	9.8
Hand-method lasting machine operators, male:										
6 establishments.....	1907	99	.3111	57.1	.....	.....	.....	39.4	60.6	.....
	1908	89	.3070	56.6	.....	.....	.....	53.9	46.1	.....
	1909	75	.3088	56.7	.....	.....	.....	52.0	48.0	.....
	1910	80	.3223	56.1	.....	.....	.....	63.8	36.3	.....
33 establishments.....	1910	325	.3062	57.4	1.2	.....	12.0	27.7	26.5	32.6
	1911	252	.3094	57.3	1.4	.....	12.8	26.7	30.4	28.7
39 establishments.....	1911	477	.3164	57.0	.....	.....	19.7	28.7	23.5	28.1
	1912	478	.3242	55.8	5.4	.....	38.5	18.0	20.3	17.8
Pullers-over, hand, male:										
13 establishments.....	1907	345	.2558	56.6	.....	.....	22.3	21.2	56.5	.....
	1908	330	.2490	56.6	.....	.....	22.4	19.1	58.5	.....
	1909	366	.2867	56.2	.....	.....	30.3	22.4	47.3	.....
	1910	384	.2763	55.9	.....	.....	27.3	25.8	46.9	.....
35 establishments.....	1910	784	.2913	56.4	.6	2.4	26.4	22.7	29.1	18.7
	1911	784	.3089	56.2	.9	3.4	26.0	20.3	29.8	13.5
45 establishments.....	1911	897	.3121	56.3	.....	3.0	29.3	26.1	24.4	17.2
	1912	899	.3190	55.4	2.7	12.3	33.0	20.9	23.6	7.5
Pullers-over, machine, male:										
31 establishments.....	1910	251	.3204	57.4	.....	.....	19.9	14.3	33.	31.9
	1911	266	.3188	56.5	.....	.....	28.9	34.2	17.7	19.2
43 establishments.....	1911	328	.3253	56.1	.....	.....	33.5	36.6	15.9	14.0
	1912	305	.3124	55.6	4.9	11.1	37.0	14.1	15.4	17.4
<i>Bottoming department.</i>										
Buffers, male:										
36 establishments.....	1911	174	.2940	55.8	.....	2.9	29.3	28.2	38.5	1.1
	1912	170	.3068	55.8	.....	2.9	30.6	28.2	34.1	4.1

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

BOOT AND SHOE MANUFACTURING—Continued.

PER CENT—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Bottoming department—Continued.</i>										
Edge setters, male:										
18 establishments.....	1907	134	\$0.3999	56.0	.....	.....	23.1	37.3	39.6	.....
	1908	142	.3509	56.2	.....	.....	20.4	33.8	45.8	.....
	1909	150	.3806	56.1	.....	.....	23.3	35.3	41.3	.....
	1910	163	.3852	55.9	.....	.....	20.9	35.6	43.6	.....
54 establishments.....	1910	560	.3733	56.3	0.5	12.9	17.3	25.4	26.1	17.9
	1911	573	.3800	56.3	.7	10.5	19.7	25.8	25.7	17.6
68 establishments.....	1911	722	.3800	56.3	.....	8.3	26.5	23.5	24.5	17.2
	1912	698	.3892	55.8	.....	7.4	36.8	21.3	20.3	14.0
Edge trimmers, male:										
23 establishments.....	1907	283	.4043	55.3	.....	16.3	32.9	23.7	27.2	.....
	1908	302	.3863	55.1	.....	15.9	37.4	26.2	20.5	.....
	1909	287	.3975	55.2	.....	16.0	32.4	28.9	22.6	.....
	1910	305	.4010	55.0	.....	19.0	31.8	27.2	22.0	.....
55 establishments.....	1910	573	.3818	56.4	.5	10.1	20.4	23.9	23.9	21.1
	1911	615	.3899	56.2	.7	8.9	22.6	28.5	22.8	16.6
71 establishments.....	1911	765	.3890	56.1	.....	7.2	28.2	26.1	22.7	15.2
	1912	751	.3855	55.9	.....	6.8	35.8	19.4	25.6	13.0
Goodyear stitchers, male:										
21 establishments.....	1907	215	.4034	55.2	.....	10.7	43.3	20.9	25.1	.....
	1908	214	.3759	55.1	.....	9.8	43.0	27.6	19.6	.....
	1909	221	.3944	55.3	.....	11.8	34.4	29.9	24.0	.....
	1910	224	.3875	55.2	.....	9.4	34.4	31.3	25.0	.....
45 establishments.....	1910	366	.3739	56.3	.8	5.7	24.0	26.2	24.3	18.9
	1911	398	.3879	56.0	.8	7.0	26.6	29.6	20.4	15.6
61 establishments.....	1911	529	.3868	55.9	.....	5.3	34.8	25.1	20.8	14.0
	1912	562	.3847	55.9	.....	6.8	39.3	18.3	18.7	16.9
Goodyear welters, male:										
14 establishments.....	1907	67	.4087	55.9	.....	.....	32.8	28.4	38.8	.....
	1908	70	.4087	56.0	.....	.....	32.9	25.7	41.4	.....
	1909	72	.4435	55.7	.....	.....	36.5	28.4	35.1	.....
	1910	81	.4222	55.6	.....	.....	35.8	24.7	39.5	.....
45 establishments.....	1910	275	.4373	56.2	.7	6.9	28.7	22.5	22.2	18.9
	1911	289	.4637	56.0	.7	9.3	27.0	27.3	18.0	17.6
60 establishments.....	1911	392	.4520	56.0	.....	6.9	33.7	23.7	19.6	16.1
	1912	411	.4544	55.8	.....	9.7	39.4	16.5	20.4	13.9
Heel breasters, male:										
35 establishments.....	1911	76	.2906	56.1	.....	2.6	25.3	26.3	40.8	3.9
	1912	77	.3017	55.7	.....	10.4	29.9	24.7	29.9	5.2
Heel burnishers, male:										
33 establishments.....	1911	106	.3062	55.6	.....	1.9	39.6	25.5	32.1	.9
	1912	108	.3127	55.4	.....	4.6	41.7	23.1	27.8	2.8
Heelers, male:										
31 establishments.....	1911	115	.4034	55.8	.....	8.7	28.7	22.6	38.3	1.7
	1912	124	.3906	55.7	.....	6.5	37.1	20.2	31.5	4.8
Heel scourers, male:										
35 establishments.....	1911	125	.2908	54.8	.....	5.6	35.2	24.0	33.6	1.6
	1912	154	.2940	55.5	.....	9.7	38.3	15.6	33.8	2.6
Heel-seat nailers, male:										
28 establishments.....	1911	43	.2987	55.8	.....	.....	39.5	23.3	34.9	2.3
	1912	43	.2706	55.8	.....	.....	44.2	20.9	30.2	4.7
Heel sluggers, male:										
34 establishments.....	1911	77	.2848	55.9	.....	.....	35.1	24.7	36.4	3.9
	1912	79	.2901	55.8	.....	.....	39.2	21.5	34.2	5.1

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

BOOT AND SHOE MANUFACTURING—Continued.

PER CENT—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Bottoming department—Concluded.</i>										
Heel trimmers or shavers, male:										
23 establishments.....	1907	99	\$0.4382	55.1	.....	25.3	24.2	29.3	21.2	.....
	1908	84	.4387	55.2	.....	17.9	26.2	34.5	21.4	.....
	1909	82	.4465	55.3	.....	14.6	26.8	34.1	24.4	.....
	1910	91	.4430	55.2	.....	18.7	23.1	34.1	24.2	.....
55 establishments.....	1910	189	.4096	56.6	0.5	9.0	14.3	28.6	26.5	21.2
	1911	193	.4152	56.5	.5	8.3	15.0	30.6	26.9	18.7
71 establishments.....	1911	246	.4154	56.5	.....	6.5	19.1	32.5	24.4	17.5
	1912	239	.4148	56.0	.....	7.5	29.3	23.4	26.4	13.4
Levelers, male:										
36 establishments.....	1911	102	.2968	55.8	.....	6.9	31.4	22.5	36.3	2.9
	1912	102	.3090	55.7	.....	6.9	36.3	21.6	29.4	5.9
McKay sewers, male:										
5 establishments.....	1907	34	.2850	55.2	.....	41.2	.....	32.4	26.5	.....
	1908	25	.3113	55.3	.....	36.0	.....	36.0	28.0	.....
	1909	28	.2737	55.7	.....	32.1	.....	28.6	39.3	.....
	1910	26	.2787	55.2	.....	38.5	.....	26.9	34.6	.....
28 establishments.....	1910	95	.2897	57.1	1.1	10.5	5.3	25.3	31.6	26.3
	1911	107	.2900	56.7	.9	12.1	6.5	27.1	40.2	13.1
30 establishments.....	1911	129	.2956	56.5	.....	10.1	7.0	38.0	33.3	11.6
	1912	128	.2854	56.3	.....	2.3	18.8	31.3	39.1	8.6
Rough rounders, male:										
15 establishments.....	1907	48	.3874	56.0	.....	.....	27.1	31.2	41.7	.....
	1908	49	.3683	56.0	.....	.....	26.5	32.7	40.8	.....
	1909	54	.4342	55.8	.....	.....	33.3	29.6	37.0	.....
	1910	56	.4115	55.5	.....	.....	33.9	28.6	37.5	.....
44 establishments.....	1910	165	.4056	56.7	.6	.....	24.8	24.2	26.7	23.6
	1911	167	.4375	56.5	.6	.....	23.4	35.3	19.8	21.0
60 establishments.....	1911	221	.4364	56.3	.....	.9	26.4	30.8	19.5	19.5
	1912	248	.4388	55.9	.....	9.3	35.5	20.2	20.2	14.9
<i>Finishing department.</i>										
Triers or ironers, hand, male:										
17 establishments.....	1907	381	.3047	54.7	.....	28.1	40.2	18.9	12.9	.....
	1908	364	.2941	54.5	.....	29.4	6.3	28.0	6.3	.....
	1909	377	.2925	54.6	.....	27.9	32.9	30.0	9.3	.....
	1910	444	.2876	54.5	.....	39.0	24.8	25.7	10.6	.....
44 establishments.....	1910	832	.2594	55.9	.....	20.8	16.8	27.0	18.0	17.3
	1911	786	.2602	56.1	.....	12.7	19.8	31.8	17.9	17.7
63 establishments.....	1911	1,006	.2668	56.0	.....	9.9	26.3	30.9	18.0	14.8
	1912	1,076	.2618	55.9	.....	10.7	31.0	22.2	22.2	13.8
Triers or ironers, hand, female:										
8 establishments.....	1910	74	.1432	57.8	.....	.....	29.7	.....	43.2	27.0
	1911	70	.1439	57.7	.....	.....	32.9	.....	35.7	31.4
11 establishments.....	1911	85	.1446	58.1	.....	.....	27.1	.....	29.4	43.5
	1912	105	.1539	54.3	.....	10.5	63.8	12.4	13.3	.....

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912.

BOOT AND SHOE MANUFACTURING—Continued.

CUTTING DEPARTMENT.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Cutters, lining, cloth, male.</i>										
1911.										
Massachusetts.....	14	58	.302984	53.3	16	7	21	12	2	3
Other States.....	17	57	.2413	57.6			6	5	43	
Total.....	31	115	.2701	55.4	16	7	27	17	45	3
1912.										
Massachusetts.....	14	70	.3059	53.2	20	12	27	9		2
Other States.....	17	58	.2488	56.8			16	5	34	3
Total.....	31	128	.2800	54.8	20	12	43	14	34	5
<i>Cutters, vamp and whole shoe, hand, male.</i>										
1910.										
Massachusetts.....	14	752	.3114	54.3	13	176	323	228	12	
Missouri.....	6	193	.2594	60.0						193
New Hampshire.....	2	27	.2179	57.4				5	22	
New York.....	9	205	.3586	56.1			71	44	70	20
Ohio.....	4	137	.2921	59.9					40	97
Other States.....	13	336	.2969	57.2			11	118	175	32
Total.....	48	1,650	.3188	56.3	13	176	405	395	319	342
1911.										
Massachusetts.....	22	967	.3337	54.4		158	450	337	22	
Missouri.....	4	177	.2844	59.8					29	148
New Hampshire.....	2	30	.2258	57.4				6	24	
New York.....	11	267	.3395	55.5			128	90	25	24
Ohio.....	5	256	.2944	59.9					54	152
Other States.....	20	419	.2742	57.2			11	154	230	24
Total.....	64	2,066	.3127	56.2		158	589	587	384	348
1912.										
Massachusetts.....	22	812	.3400	53.1	217	100	428	54		13
Missouri.....	4	118	.3042	59.4			9		15	94
New Hampshire.....	2	32	.2424	58.0					32	
New York.....	11	296	.3467	54.6		62	160	24	19	31
Ohio.....	5	186	.3241	56.3			112			74
Other States.....	20	462	.2847	56.8			11	194	257	
Total.....	64	1,906	.3222	55.0	217	162	720	272	323	212
<i>Cutters, vamp and whole shoe, machine, male.</i>										
1910.										
Massachusetts.....	4	53	.3323	55.2				51	2	
Missouri.....	3	28	.2690	60.0						28
New Hampshire.....	2	52	.2842	56.9				19	33	
New York.....	3	28	.1172	55.0			13		15	
Other States.....	5	74	.2594	58.7					48	26
Total.....	17	235	.3013	57.8			13	70	98	54

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

CUTTING DEPARTMENT—Continued.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Cutters, vamp and whole shoe, machine, male—Concluded.</i>										
1911.										
Massachusetts.....	8	79	\$0.3589	54.6			42	34	3	
Missouri.....	3	55	.2536	59.7					16	39
New Hampshire.....	2	54	.2944	57.1				17	37	
New York.....	4	35	.4007	55.0			17	18		
Other States.....	3	47	.2590	59.0					31	16
Total.....	20	270	.3126	57.0			59	69	87	55
1912.										
Massachusetts.....	8	95	.3571	52.8	29		66			
Missouri.....	3	50	.2579	57.7			19			31
New Hampshire.....	2	63	.3019	57.3					63	
New York.....	4	52	.3736	53.2		24	28			
Other States.....	3	40	.2576	59.2					22	18
Total.....	20	300	.3186	55.5	29	24	113		85	49
<i>Skivers, upper, machine, male.</i>										
1910.										
Massachusetts.....	7	58	.2754	54.2			49	9		
Other States.....	5	16	.3331	56.8				4	12	
Total.....	12	74	.2878	54.7			49	13	12	
1911.										
Massachusetts.....	16	104	.2975	54.2			92	10	2	
Other States.....	12	32	.2747	56.9				14	18	
Total.....	28	136	.2921	54.8			92	24	20	
1912.										
Massachusetts.....	16	110	.2954	54.1			100	9		1
Other States.....	12	36	.2675	56.1		10		2	24	
Total.....	28	146	.2885	54.6		10	100	11	24	1
<i>Skivers, upper, machine, female.</i>										
1910.										
Massachusetts.....	12	106	.1812	54.6	1	28	25	49	3	
Missouri.....	8	58	.1591	60.0						58
New Hampshire.....	6	42	.1794	57.1				2	40	
New York.....	6	32	.1931	56.6		2	13	3		14
Ohio.....	4	20	.1794	59.9					6	14
Other States.....	13	80	.1671	57.4			2	27	37	14
Total.....	49	338	.1749	57.0	1	30	40	81	86	100
1911.										
Massachusetts.....	16	107	.1969	54.9		24	12	66	5	
Missouri.....	5	52	.1551	59.9					6	46
New Hampshire.....	6	48	.1716	57.1				4	44	
New York.....	8	38	.1925	56.2		1	19	5		13
Ohio.....	5	32	.1661	59.9					7	25
Other States.....	20	97	.1622	57.2			2	38	46	11
Total.....	60	374	.1758	57.0		25	33	113	108	95

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

CUTTING DEPARTMENT—Concluded.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Skivers, upper, machine, female—</i>										
Concluded.										
1912.										
Massachusetts.....	16	96	\$0.2028	53.5	9	20	67			
Missouri.....	5	31	.1779	54.0			31			
New Hampshire.....	6	48	.1827	57.3					48	
New York.....	8	43	.2173	55.3		6	24	1	1	11
Ohio.....	5	35	.1696	54.0			35			
Other States.....	20	92	.1849	56.4			1	49	42	
Total.....	60	345	.1914	55.1	9	26	158	50	91	11

SOLE-LEATHER DEPARTMENT.

<i>Channellers, insole and outsole, male.</i>										
1910.										
Massachusetts.....	11	50	\$0.3427	53.9	4	7	29	10	6	5
New York.....	9	22	.2993	56.6			8	3	3	5
Other States.....	24	66	.2601	58.1			2	9	42	13
Total.....	44	138	.2963	56.3	4	7	39	22	48	18
1911.										
Massachusetts.....	17	59	.3146	54.4		7	33	18	1	
New York.....	10	26	.2980	56.1			11	7	3	5
Other States.....	30	72	.2645	58.0			2	13	41	16
Total.....	57	157	.2889	56.3		7	46	38	45	21
1912.										
Massachusetts.....	17	60	.3105	54.4		5	38	16		1
New York.....	10	25	.3038	54.3		7	12	2	1	3
Other States.....	30	64	.2784	56.9			11	12	38	3
Total.....	57	149	.2956	55.5		12	61	30	39	7
<i>Cutters, outsole, male.</i>										
1910.										
Massachusetts.....	10	60	.3023	54.6			40	17	3	
Missouri.....	3	29	.3086	59.2					22	7
Other States.....	18	54	.2228	57.5			8	12	21	13
Total.....	31	143	.2735	56.6			48	29	46	20
1911.										
Massachusetts.....	12	65	.2974	54.8			36	27	2	
Missouri.....	3	26	.3066	59.2					20	6
Other States.....	21	55	.2425	57.4			7	16	17	15
Total.....	36	146	.2784	56.6			43	43	39	21
1912.										
Massachusetts.....	12	65	.3071	54.7			44	17	4	
Missouri.....	3	38	.2943	59.4					24	14
Other States.....	21	58	.2571	56.4		2	12	17	20	7
Total.....	36	161	.2861	56.4		2	56	34	48	21

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

FITTING OR STITCHING DEPARTMENT.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Backstay stitchers, female.</i>										
1910.										
Massachusetts.....	14	118	\$.1968	54.7	1	28	23	61	5	.....
Missouri.....	8	30	.1657	58.8	.....	.....	.....	7	.....	23
New Hampshire.....	6	54	.1671	57.1	.....	.....	.....	5	49	.....
New York.....	6	32	.1577	56.9	.....	4	9	2	4	13
Ohio.....	4	24	.1423	59.9	.....	.....	.....	.....	7	17
Other States.....	11	49	.1737	57.7	.....	.....	3	13	19	14
Total.....	49	307	.1765	56.6	1	32	35	88	84	67
1911.										
Massachusetts.....	21	154	.2109	54.8	.....	21	52	70	11	.....
Missouri.....	8	24	.1631	59.4	.....	.....	.....	2	4	18
New Hampshire.....	6	63	.1745	57.0	.....	.....	.....	8	55	.....
New York.....	8	43	.1718	56.1	.....	7	16	3	2	15
Ohio.....	5	31	.1539	59.9	.....	.....	.....	.....	8	23
Other States.....	19	77	.1704	57.4	.....	.....	1	27	41	8
Total.....	67	392	.1854	56.5	.....	28	69	110	121	64
1912.										
Massachusetts.....	21	138	.2116	53.7	11	4	123	.....	.....	.....
Missouri.....	8	25	.1708	54.0	.....	.....	25	.....	.....	.....
New Hampshire.....	6	58	.1647	57.2	.....	.....	.....	.....	58	.....
New York.....	8	51	.1719	56.2	.....	4	26	.....	3	18
Ohio.....	5	27	.1739	54.0	.....	.....	27	.....	.....	.....
Other States.....	19	79	.1906	56.4	.....	.....	2	41	36	.....
Total.....	67	378	.1893	55.2	11	8	203	41	97	18
<i>Buttonhole makers, female.</i>										
1911.										
Massachusetts.....	13	38	.2102	54.8	.....	2	19	14	3	.....
Other States.....	20	70	.1570	57.1	.....	.....	10	9	45	6
Total.....	33	108	.1757	56.3	.....	2	29	23	48	6
1912.										
Massachusetts.....	13	60	.2113	53.9	.....	17	43	.....	.....	.....
Other States.....	20	108	.1628	56.3	.....	.....	36	8	64	.....
Total.....	33	168	.1801	55.4	.....	17	79	8	64	.....
<i>Closers-on, female.</i>										
1910.										
Massachusetts.....	11	75	.2112	54.4	1	23	15	35	1	.....
Missouri.....	7	44	.1595	60.0	.....	.....	.....	.....	.....	44
New Hampshire.....	6	27	.1830	57.0	.....	.....	.....	5	22	.....
New York.....	8	44	.1747	56.5	.....	.....	18	4	12	10
Ohio.....	3	19	.1670	59.9	.....	.....	.....	.....	3	16
Other States.....	14	53	.1525	58.0	.....	.....	1	13	22	17
Total.....	49	262	.1784	57.1	1	23	34	57	60	87

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

FITTING OR STITCHING DEPARTMENT—Continued.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Closers-on, female—Concluded.</i>										
1911.										
Massachusetts.....	18	107	\$0.2107	54.8		5	29	71	2	.....
Missouri.....	7	44	.1628	59.7					12	.....
New Hampshire.....	6	29	.1875	56.9				6	23	.....
New York.....	11	63	.1732	55.9			32	13	5	.....
Ohio.....	3	35	.1573	59.9					6	.....
Other States.....	20	72	.1649	57.8			1	18	40	.....
Total.....	65	350	.1796	56.9		5	62	108	88	.....
1912.										
Massachusetts.....	18	103	.2070	53.7	7	3	93			.....
Missouri.....	7	27	.1644	54.0			27			.....
New Hampshire.....	6	24	.1879	57.5					24	.....
New York.....	11	69	.1839	54.5	8	13	29	2	2	.....
Ohio.....	3	28	.1774	54.0			28			.....
Other States.....	20	80	.1727	56.7			1	34	45	.....
Total.....	65	331	.1865	54.9	15	16	178	36	71	.....
<i>Lining makers, female.</i>										
1910.										
Massachusetts.....	14	211	.1870	54.3	2	80	43	81	5	.....
Missouri.....	7	75	.1262	60.0						.....
New Hampshire.....	6	60	.1489	56.8				14	46	.....
New York.....	9	93	.1693	56.5		8	29	8	22	.....
Ohio.....	4	30	.1387	59.8					13	.....
Other States.....	13	116	.1563	57.2			4	42	55	.....
Total.....	53	585	.1639	56.5	2	88	76	145	141	.....
1911.										
Massachusetts.....	22	269	.1932	54.4		77	89	95	8	.....
Missouri.....	7	66	.1267	59.7					20	.....
New Hampshire.....	6	46	.1539	57.0				8	38	.....
New York.....	11	109	.1644	56.3		4	42	27	5	.....
Ohio.....	5	58	.1480	59.8					22	.....
Other States.....	21	173	.1473	57.2			5	60	96	.....
Total.....	72	721	.1656	56.5		81	136	190	189	.....
1912.										
Massachusetts.....	22	236	.1938	53.7	13	18	205			.....
Missouri.....	7	57	.1328	54.0			57			.....
New Hampshire.....	6	73	.1302	57.3					73	.....
New York.....	11	95	.1661	54.9	8	21	34	2	3	.....
Ohio.....	5	71	.1738	54.0			71			.....
Other States.....	21	174	.1643	56.5			6	83	85	.....
Total.....	72	706	.1709	55.0	21	39	373	85	161	.....
<i>Tip stitchers, female.</i>										
1911.										
Massachusetts.....	15	66	.2298	54.4		10	35	19	2	.....
Other States.....	21	68	.1807	57.2			3	13	47	.....
Total.....	36	134	.2049	55.8		10	38	32	49	.....

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

FITTING OR STITCHING DEPARTMENT—Continued.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Tip stitchers, female—Concluded.</i>										
1912.										
Massachusetts.....	15	69	\$0.2383	54.0	.....	12	54	3	.....	.....
Other States.....	21	68	.1927	56.4	.....	.....	14	14	40	.....
Total.....	36	137	.2157	55.2	.....	12	68	17	40	.....
<i>Top stitchers or undertrimmers, female.</i>										
1910.										
Massachusetts.....	15	254	.2067	54.6	3	64	79	93	15	.....
Missouri.....	8	116	.1774	60.0	.....	.....	.....	.....	71	116
New Hampshire.....	6	80	.1690	57.0	.....	.....	.....	9	7	.....
New York.....	6	65	.1876	57.0	.....	.....	27	5	19	26
Ohio.....	4	56	.1839	59.8	.....	.....	.....	.....	19	37
Other States.....	14	150	.1858	57.5	.....	.....	5	41	80	24
Total.....	53	721	.1884	56.9	3	64	111	148	192	203
1911.										
Massachusetts.....	22	344	.2202	54.6	.....	63	133	131	17	.....
Missouri.....	8	111	.1718	59.3	.....	.....	.....	12	23	76
New Hampshire.....	6	92	.1753	56.9	.....	.....	.....	14	78	.....
New York.....	11	83	.2084	56.5	.....	.....	47	4	9	28
Ohio.....	5	86	.1588	59.9	.....	.....	.....	.....	26	60
Other States.....	21	190	.1785	57.6	.....	.....	3	51	115	21
Total.....	73	911	.1941	56.7	.....	63	183	212	268	185
1912.										
Massachusetts.....	22	378	.2156	53.7	24	63	291	.....	.....	.....
Missouri.....	8	88	.1786	54.0	.....	.....	88	.....	.....	.....
New Hampshire.....	6	106	.1640	57.2	.....	.....	.....	.....	106	.....
New York.....	11	114	.2097	54.9	5	18	61	1	2	27
Ohio.....	5	78	.1854	54.0	.....	.....	78	.....	.....	.....
Other States.....	21	186	.1880	56.7	.....	.....	3	79	104	.....
Total.....	73	950	.1978	54.9	29	81	521	80	212	27
<i>Vampers, male.</i>										
1910.										
Massachusetts.....	10	134	.3152	54.1	.....	48	61	25	.....	.....
New Hampshire.....	5	33	.2365	56.6	.....	.....	.....	7	26	.....
New York.....	5	35	.3019	56.2	.....	.....	.....	16	19	.....
Other States.....	13	61	.2683	57.9	.....	.....	6	15	12	28
Total.....	33	263	.2927	55.5	.....	48	67	63	57	28
1911.										
Massachusetts.....	17	186	.3388	54.2	.....	21	133	29	3	.....
New Hampshire.....	6	47	.2482	56.7	.....	.....	.....	9	38	.....
New York.....	8	36	.3238	55.6	.....	.....	.....	34	2	.....
Other States.....	20	74	.2920	57.8	.....	.....	5	22	18	29
Total.....	51	343	.3147	55.5	.....	21	138	94	61	29

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

FITTING OR STITCHING DEPARTMENT—Concluded.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Vampers, male—Concluded.</i>										
1912.										
Massachusetts.....	17	277	\$0.3254	53.9	15	40	191	27	.....	4
New Hampshire.....	6	54	.2401	57.2	.....	.....	.....	.....	54	.....
New York.....	8	38	.3325	54.6	.....	16	4	7	11	.....
Other States.....	20	66	.2899	57.2	.....	.....	4	23	28	11
Total.....	51	435	.3100	54.9	15	56	199	57	93	15
<i>Vampers, female.</i>										
1910.										
Massachusetts.....	15	287	.2681	54.5	6	39	94	141	7	.....
Missouri.....	8	120	.2226	60.0	.....	.....	.....	.....	120	.....
New Hampshire.....	6	117	.2242	57.1	.....	.....	.....	10	107	.....
New York.....	6	94	.2448	56.4	14	.....	27	5	10	38
Ohio.....	4	74	.2035	59.8	.....	.....	.....	.....	27	47
Other States.....	14	171	.2179	57.5	.....	.....	4	50	90	27
Total.....	58	863	.2378	56.9	20	39	125	206	241	232
1911.										
Massachusetts.....	22	385	.2759	54.8	.....	45	133	191	16	.....
Missouri.....	8	127	.2403	59.3	.....	.....	.....	15	18	94
New Hampshire.....	6	134	.2120	57.0	.....	.....	.....	14	120	.....
New York.....	9	130	.2349	55.6	21	.....	55	5	11	38
Ohio.....	5	140	.2033	59.9	.....	.....	.....	.....	35	105
Other States.....	21	208	.2105	57.4	.....	.....	3	66	115	24
Total.....	71	1,124	.2384	56.5	21	45	191	291	315	261
1912.										
Massachusetts.....	22	309	.2466	53.7	14	43	252	.....	.....	.....
Missouri.....	8	105	.2322	54.0	.....	.....	105	.....	.....	.....
New Hampshire.....	6	100	.2138	57.2	.....	.....	.....	.....	100	.....
New York.....	9	141	.2506	55.6	1	23	68	1	.....	48
Ohio.....	5	118	.2174	54.0	.....	.....	118	.....	.....	.....
Other States.....	21	246	.2233	56.8	.....	.....	3	106	137	.....
Total.....	71	1,019	.2334	55.1	15	66	546	107	237	48

LASTING DEPARTMENT.

<i>Assemblers, for pulling-over machine, male.</i>										
1911.										
Massachusetts.....	9	148	\$0.2932	54.6	.....	.....	78	68	2	.....
Other States.....	8	70	.2332	57.2	.....	.....	15	1	47	7
Total.....	17	218	.2739	55.4	.....	.....	93	69	49	7
1912.										
Massachusetts.....	9	148	.2807	53.6	31	.....	78	36	.....	3
Other States.....	8	80	.2346	56.9	.....	.....	24	1	47	8
Total.....	17	228	.2645	54.8	31	.....	102	37	47	11

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

LASTING DEPARTMENT—Continued.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Bed-machine operators, male.</i>										
1910.										
Massachusetts.....	7	207	\$0.3429	54.2		15	161	31		
Missouri.....	7	41	.2924	60.0						41
New Hampshire.....	3	67	.2464	56.9				5	62	
New York.....	5	73	.3286	57.9			4	5	45	19
Ohio.....	3	42	.2983	59.8					17	25
Other States.....	10	83	.2823	56.9			4	36	29	14
Total.....	35	513	.3108	56.4		15	169	77	153	99
1911.										
Massachusetts.....	14	331	.3523	54.3		26	246	46	13	
Missouri.....	6	50	.3068	58.7				13		37
New Hampshire.....	3	72	.2465	56.6				14	58	
New York.....	9	96	.3442	56.5			14	52	15	15
Ohio.....	5	72	.2977	59.9					17	55
Other States.....	17	172	.2927	56.9			3	76	80	13
Total.....	54	793	.3210	56.1		26	263	201	183	120
1912.										
Massachusetts.....	14	470	.3054	54.3		58	339	60		13
Missouri.....	6	54	.2778	59.6					19	35
New Hampshire.....	3	91	.2403	57.2					91	
New York.....	9	131	.3458	54.7		41	46	20	11	13
Ohio.....	5	87	.3080	56.6			50			37
Other States.....	17	171	.3093	56.9			3	71	97	
Total.....	54	1,004	.3042	55.5		99	438	151	218	98
<i>Hand-method lasting machine operators, male.</i>										
1910.										
Massachusetts.....	8	114	.3481	55.3	4		19	78	13	
Missouri.....	8	75	.2746	60.0						75
New Hampshire.....	5	58	.2521	57.1				10	48	
New York.....	3	26	.3427	55.4			20			6
Ohio.....	3	21	.3239	59.9					6	15
Other States.....	6	31	.2875	58.8				2	19	10
Total.....	33	325	.3062	57.4	4		39	90	86	106
1911.										
Massachusetts.....	12	204	.3682	55.0			76	115	13	
Missouri.....	7	85	.2884	59.8					18	67
New Hampshire.....	4	59	.2222	57.2				10	49	
New York.....	3	35	.3220	55.6			18	9		8
Ohio.....	5	48	.2870	59.9					5	43
Other States.....	8	46	.2855	58.8				3	27	16
Total.....	39	477	.3164	57.0			94	137	112	134
1912.										
Massachusetts.....	12	221	.3473	54.1	26		116	72	7	
Missouri.....	7	73	.2808	58.8			14			59
New Hampshire.....	4	60	.2633	57.5					60	
New York.....	3	46	.3529	55.9			25	8		13
Ohio.....	5	42	.3476	55.9			29			13
Other States.....	8	36	.3078	57.6				6	30	
Total.....	39	478	.3242	55.8	26		184	86	97	85

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

LASTING DEPARTMENT—Concluded.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Pullers-over, hand, male.</i>										
1910.										
Massachusetts.....	11	341	\$0.3227	54.6	5	19	187	110	20	.....
Missouri.....	5	57	.3074	60.0	.....	.....	.....	18	134	..... 57
New Hampshire.....	5	152	.2244	56.8	.....	.....	.....	.....	.....	.....
New York.....	4	42	.3233	57.7	.....	.....	2	10	30	.....
Ohio.....	2	70	.2594	59.9	.....	.....	.....	.....	10	..... 60
Other States.....	8	122	.2868	56.9	.....	.....	18	40	34	..... 30
Total.....	35	784	.2913	56.4	5	19	207	178	228	147
1911.										
Massachusetts.....	12	359	.3483	54.5	.....	27	216	99	17	.....
Missouri.....	4	47	.3206	57.1	.....	.....	.....	27	.....	..... 20
New Hampshire.....	2	65	.2495	57.0	.....	.....	.....	.....	65	.....
New York.....	7	76	.3166	56.4	.....	.....	28	14	34	.....
Ohio.....	5	133	.2869	60.0	.....	.....	.....	.....	13	..... 120
Other States.....	15	217	.2829	56.6	.....	.....	19	94	90	..... 14
Total.....	45	897	.3121	56.3	.....	27	263	234	219	154
1912.										
Massachusetts.....	12	429	.3283	54.0	24	111	216	59	19	.....
Missouri.....	4	40	.2754	59.4	.....	.....	.....	.....	25	..... 15
New Hampshire.....	2	70	.2620	57.0	.....	.....	.....	.....	70	.....
New York.....	7	73	.3355	54.2	.....	.....	59	12	2	.....
Ohio.....	5	65	.3232	58.8	.....	.....	13	.....	.....	..... 52
Other States.....	15	222	.3202	56.4	.....	.....	9	117	96	.....
Total.....	45	899	.3190	55.4	24	111	297	188	212	67
<i>Pullers-over, machine, male.</i>										
1910.										
Massachusetts.....	7	75	.3264	54.7	.....	.....	41	33	1	.....
Missouri.....	7	33	.3719	60.0	.....	.....	.....	.....	.....	..... 33
New York.....	4	73	.3400	57.4	.....	.....	9	.....	54	..... 10
Other States.....	13	70	.2694	59.0	.....	.....	.....	3	30	..... 37
Total.....	31	251	.3204	57.4	.....	.....	50	36	85	80
1911.										
Massachusetts.....	13	150	.3499	54.5	.....	.....	93	54	3	.....
Missouri.....	7	28	.2820	59.6	.....	.....	.....	1	6	..... 21
New York.....	6	75	.3476	55.8	.....	.....	17	52	.....	..... 6
Other States.....	17	75	.2700	58.3	.....	.....	.....	13	43	..... 19
Total.....	43	328	.3253	56.1	.....	.....	110	120	52	46
1912.										
Massachusetts.....	13	140	.3036	54.1	15	.....	89	30	3	..... 3
Missouri.....	7	37	.2993	59.1	.....	.....	5	.....	.....	..... 30
New York.....	6	60	.3594	54.8	.....	34	12	.....	2	..... 12
Other States.....	17	68	.2962	57.4	.....	.....	7	13	40	..... 8
Total.....	43	305	.3124	55.6	15	34	113	43	47	53

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

BOTTOMING DEPARTMENT.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Buffers, male.</i>										
1911.										
Massachusetts.....	16	92	\$.3128	54.7		5	47	33	7	
New Hampshire.....	4	42	.2276	57.1					42	
Other States.....	16	40	.3209	56.7			4	16	18	2
Total.....	36	174	.2940	55.8		5	51	49	67	2
1912.										
Massachusetts.....	16	89	.3306	54.9		5	45	32	4	3
New Hampshire.....	4	39	.2489	57.0					39	
Other States.....	16	42	.3101	56.5			7	16	15	4
Total.....	36	170	.3068	55.8		5	52	48	58	7
<i>Edge setters, male.</i>										
1910.										
Massachusetts.....	15	238	.4165	54.4	3	72	79	75	9	
Missouri.....	8	54	.3605	59.2				9		45
New Hampshire.....	6	67	.2877	56.9				9	58	
New York.....	7	64	.3726	57.2			15	7	26	16
Ohio.....	4	35	.3542	59.8					11	24
Other States.....	14	102	.3426	57.1			3	42	42	15
Total.....	54	560	.3733	56.3	3	72	97	142	146	100
1911.										
Massachusetts.....	22	324	.4209	54.4		60	158	90	16	
Missouri.....	7	56	.3483	59.9					8	48
New Hampshire.....	6	74	.2758	56.9				10	64	
New York.....	9	78	.4086	56.2			30	25	7	16
Ohio.....	5	59	.3297	59.9					11	48
Other States.....	19	131	.3569	57.3			3	45	71	12
Total.....	68	722	.3800	56.3		60	191	170	177	124
1912.										
Massachusetts.....	22	295	.4218	54.5		32	168	83	7	5
Missouri.....	7	52	.3445	59.5			4			48
New Hampshire.....	6	70	.3026	57.2					70	
New York.....	9	94	.4104	54.7		20	52	9		13
Ohio.....	5	62	.3614	57.1			30			32
Other States.....	19	125	.3768	56.7			3	57	65	
Total.....	68	698	.3892	55.8		52	257	149	142	98
<i>Edge trimmers, male.</i>										
1910.										
Massachusetts.....	15	255	.4038	54.4	3	58	98	85	11	
Missouri.....	8	61	.3495	60.0						61
New Hampshire.....	6	70	.3155	56.8				12	58	
New York.....	8	68	.4342	57.0			16	11	23	18
Ohio.....	4	39	.3349	59.9					9	30
Other States.....	14	80	.3723	57.2			3	29	36	12
Total.....	55	573	.3818	56.4	3	58	117	137	137	121

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

BOTTOMING DEPARTMENT—Continued.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Edge trimmers, male—Concluded.</i>										
1911.										
Massachusetts.....	22	367	\$0.4179	54.5		55	184	113	15	8
Missouri.....	7	54	.3311	59.9					7	46
New Hampshire.....	6	84	.2997	56.8				16	68	7
New York.....	10	91	.4202	56.1			34	31	7	19
Ohio.....	5	52	.3819	59.9					11	41
Other States.....	21	117	.3682	57.3			2	40	65	10
Total.....	71	765	.3890	56.1		55	220	200	174	116
1912.										
Massachusetts.....	22	332	.3946	54.6		30	190	96	8	8
Missouri.....	7	48	.3391	59.3			6			42
New Hampshire.....	6	97	.3283	57.4					97	7
New York.....	10	92	.4178	55.3		21	41	6	5	19
Ohio.....	5	53	.3917	57.3			24			29
Other States.....	21	129	.3967	57.1			3	44	82	
Total.....	71	751	.3855	55.9		51	264	146	192	98
<i>Goodyear stitchers, male.</i>										
1910.										
Massachusetts.....	14	158	.4012	54.4	3	21	80	49	5	
Missouri.....	6	34	.3232	60.0						34
New Hampshire.....	3	49	.2756	56.6				10	39	
New York.....	6	39	.4259	57.6			4	6	19	10
Ohio.....	4	25	.3026	59.9					7	18
Other States.....	12	61	.4065	56.5			4	31	19	7
Total.....	45	366	.3739	56.3	3	21	88	96	89	69
1911.										
Massachusetts.....	20	258	.4101	54.4		28	165	56	9	
Missouri.....	6	33	.3705	59.1				6		27
New Hampshire.....	3	58	.2650	56.5				14	44	
New York.....	8	55	.4061	56.7			14	20	8	13
Ohio.....	5	39	.3494	59.9					9	30
Other States.....	19	86	.4087	56.8			5	37	40	4
Total.....	61	529	.3868	55.9		28	184	133	110	74
1912.										
Massachusetts.....	20	245	.3989	54.4		21	166	47	5	6
Missouri.....	6	52	.3486	59.9					6	46
New Hampshire.....	3	43	.2865	57.3					43	
New York.....	8	69	.4479	55.4		17	25	10		17
Ohio.....	5	52	.2961	57.0			26			26
Other States.....	19	101	.4129	56.6			4	46	51	
Total.....	61	562	.3847	55.9		38	221	103	105	95
<i>Goodyear welters, male.</i>										
1910.										
Massachusetts.....	12	111	.4857	54.3	2	19	62	24	4	
Missouri.....	6	24	.4583	60.0						24
New Hampshire.....	3	31	.3335	56.5				8	23	
New York.....	7	40	.4075	56.3			15	5	16	4
Ohio.....	4	22	.3773	59.9					5	17
Other States.....	13	47	.4339	56.6			2	25	13	7
Total.....	45	275	.4373	56.2	2	19	79	62	61	52

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

BOTTOMING DEPARTMENT—Continued.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 43 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Goodyear welters, male—Concl'd.</i>										
1911.										
Massachusetts.....	18	179	\$0.4989	54.3		27	119	28	5	
Missouri.....	6	30	.4606	59.2				5		25
New Hampshire.....	3	33	.3313	56.5				9	24	
New York.....	9	45	.4492	56.1			11	23	5	6
Ohio.....	5	32	.3691	59.9					6	26
Other States.....	19	73	.4226	57.2			2	28	37	6
Total.....	60	392	.4520	56.0		27	132	93	77	63
1912.										
Massachusetts.....	18	192	.4767	54.4		30	126	28	4	4
Missouri.....	6	39	.4481	59.8					6	33
New Hampshire.....	3	31	.3723	57.3					31	
New York.....	9	40	.5218	54.8		10	15	7	5	3
Ohio.....	5	35	.3823	56.9			18			17
Other States.....	19	74	.4319	56.7			3	33	38	
Total.....	60	411	.4544	55.8		40	162	68	84	57
<i>Heel breasters, male.</i>										
1911.										
Massachusetts.....	16	38	.3353	54.8		2	18	15	3	
Other States.....	19	38	.2559	57.4			2	5	28	3
Total.....	35	76	.2906	56.1		2	20	20	31	3
1912.										
Massachusetts.....	16	44	.3196	54.7		8	19	14	2	1
Other States.....	19	33	.2777	57.0			4	.5	21	3
Total.....	35	77	.3017	55.7		8	23	19	23	4
<i>Heel burnishers, male.</i>										
1911.										
Massachusetts.....	16	66	.3298	54.6		2	38	23	3	
Other States.....	17	40	.2674	57.1			4	4	31	1
Total.....	33	106	.3062	55.6		2	42	27	34	1
1912.										
Massachusetts.....	16	69	.3357	54.7		5	39	21	2	2
Other States.....	17	39	.2720	56.8			6	4	28	1
Total.....	33	108	.3127	55.4		5	45	25	30	3
<i>Heelers, male.</i>										
1911.										
Massachusetts.....	14	65	.4435	54.7		10	29	20	6	
Other States.....	17	50	.3513	57.2			4	6	38	2
Total.....	31	115	.4034	55.8		10	33	26	44	2
1912.										
Massachusetts.....	14	69	.4079	54.9		8	36	19	3	3
Other States.....	17	55	.3690	56.8			10	6	36	3
Total.....	31	124	.3906	55.7		8	46	25	39	6

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

BOTTOMING DEPARTMENT—Continued.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—				
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.
<i>Heel scourers, male.</i>									
1911.									
Massachusetts.....	15	76	\$0.3060	54.7	7	38	25	6	.....
Other States.....	20	49	.2671	55.0	.....	6	5	36	2
Total.....	35	125	.2908	54.8	7	44	30	42	2
1912.									
Massachusetts.....	15	89	.3134	54.5	15	50	19	3	2
Other States.....	20	65	.2675	56.8	.....	9	5	49	2
Total.....	35	154	.2940	55.5	15	59	24	52	4
<i>Heel sluggers, male.</i>									
1911.									
Massachusetts.....	15	44	.3401	54.8	.....	25	16	3	.....
Other States.....	19	33	.2112	57.3	.....	2	3	25	3
Total.....	34	77	.2848	55.9	.....	27	19	28	3
1912.									
Massachusetts.....	15	45	.3241	54.9	.....	27	14	2	2
Other States.....	19	34	.2452	57.0	.....	4	3	25	2
Total.....	34	79	.2901	55.8	.....	31	17	27	4
<i>Heel trimmers or shavers, male.</i>									
1910.									
Massachusetts.....	15	68	.4555	54.5	1	17	20	27	3
New York.....	8	27	.4890	56.6	.....	6	6	11	4
Other States.....	32	94	.3536	58.0	.....	1	21	36	36
Total.....	55	189	.4096	56.6	1	17	27	54	40
1911.									
Massachusetts.....	22	101	.4533	54.7	.....	16	37	42	6
New York.....	10	29	.4816	55.9	.....	9	14	3	3
Other States.....	39	116	.3658	58.1	.....	1	24	51	40
Total.....	71	246	.4154	56.5	.....	16	47	80	43
1912.									
Massachusetts.....	22	89	.4417	54.7	.....	11	44	28	3
New York.....	10	31	.4705	55.0	.....	7	13	4	3
Other States.....	39	119	.3801	57.3	.....	13	24	57	25
Total.....	71	239	.4148	56.0	.....	18	70	56	32
<i>Levelers, male.</i>									
1911.									
Massachusetts.....	16	54	.3353	54.6	.....	7	27	16	4
Other States.....	20	48	.2535	57.1	.....	.....	5	7	33
Total.....	36	102	.2968	55.8	.....	7	32	23	37

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

BOTTOMING DEPARTMENT—Concluded.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Levelers, male—Concluded.</i>										
1912.										
Massachusetts.....	16	53	\$0.3338	54.8	.....	7	26	16	2	2
Other States.....	20	49	.2773	56.7	.....	.....	11	6	28	4
Total.....	36	102	.3090	55.7	.....	7	37	22	30	6
<i>McKay sewers, male.</i>										
1910.										
Massachusetts.....	7	38	.3272	54.9	1	10	.....	23	4	.....
Other States.....	21	57	.2647	58.5	.....	.....	5	1	26	2
Total.....	28	95	.2897	57.1	1	10	5	24	30	25
1911.										
Massachusetts.....	9	59	.3450	55.0	.....	13	.....	43	3	.....
Other States.....	21	70	.2540	57.8	.....	.....	9	6	40	15
Total.....	30	129	.2956	56.5	.....	13	9	49	43	15
1912.										
Massachusetts.....	9	47	.2997	55.0	.....	3	8	34	2	.....
Other States.....	21	81	.2770	57.0	.....	.....	16	6	48	11
Total.....	30	128	.2854	56.3	.....	3	24	40	50	11
<i>Rough rounders, male.</i>										
1910.										
Massachusetts.....	12	57	.4671	54.6	1	.....	35	19	2	.....
New York.....	7	29	.4171	57.2	.....	.....	3	6	14	6
Other States.....	25	79	.3571	58.0	.....	.....	3	15	28	33
Total.....	44	165	.4056	56.7	1	.....	41	40	44	39
1911.										
Massachusetts.....	18	88	.4781	54.6	.....	2	59	21	6	.....
New York.....	9	28	.4627	56.1	.....	.....	4	18	2	4
Other States.....	33	105	.3945	57.8	.....	.....	2	29	35	39
Total.....	60	221	.4364	56.3	.....	2	65	68	43	43
1912.										
Massachusetts.....	18	98	.4747	54.5	.....	11	61	22	2	2
New York.....	9	35	.4663	54.9	.....	12	10	5	3	5
Other States.....	33	115	.3999	57.3	.....	.....	17	23	45	30
Total.....	60	248	.4388	55.9	.....	23	88	50	50	37

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

FINISHING DEPARTMENT.

Occupation, year, and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
<i>Triers or ironers, hand, male.</i>										
1910.										
Massachusetts.....	13	448	\$0.2834	54.2		173	140	135		
Missouri.....	8	92	.2330	60.0						92
New Hampshire.....	6	99	.1893	56.8				24	75	16
New York.....	5	51	.2158	58.3				4	31	25
Ohio.....	2	25	.1962	60.0						11
Other States.....	10	117	.2791	56.8				62	44	
Total.....	44	832	.2594	55.9		173	140	225	150	144
1911.										
Massachusetts.....	19	539	.2935	54.4		100	255	184		
Missouri.....	7	92	.2304	59.9					11	81
New Hampshire.....	6	98	.1995	56.8				24	74	
New York.....	8	71	.2054	57.4			10	27	10	24
Ohio.....	5	45	.2043	59.9					10	35
Other States.....	18	161	.2839	56.9				76	76	9
Total.....	63	1,006	.2668	56.0		100	265	311	181	149
1912.										
Massachusetts.....	19	542	.2852	54.3		94	305	143		
Missouri.....	7	89	.2164	59.8			3			86
New Hampshire.....	6	134	.1935	57.7					134	
New York.....	8	59	.2679	55.5		21	13	7	2	16
Ohio.....	5	60	.2112	58.7			13			47
Other States.....	18	192	.2787	56.7				89	103	
Total.....	63	1,076	.2618	55.9		115	334	239	239	149
<i>Triers or ironers, hand, female.</i>										
1910.										
New York.....	3	22	.1997	54.0			22			
Ohio.....	2	32	.1194	59.7						22
Other States.....	3	20	.1190	59.0					10	10
Total.....	8	74	.1432	57.8			22		32	20
1911.										
New York.....	4	23	.1942	54.0			23			
Ohio.....	2	39	.1287	59.8					17	22
Other States.....	5	23	.1218	59.3					8	15
Total.....	11	85	.1446	58.1			23		25	37
1912.										
New York.....	4	29	.1651	52.9		11	18			
Ohio.....	2	33	.1591	54.0			33			
Other States.....	5	43	.1423	55.6			16	13	14	
Total.....	11	105	.1539	54.3		11	67	13	14	

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912.

BOOT AND SHOE MANUFACTURING—Continued.

[The establishments set opposite each bracketed group of years are identical.]

CUTTING DEPARTMENT.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					60.
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	
CUTTERS, LINING, CLOTH, MALE.										
Massachusetts:										
14 establishments.....	{1911 1912}	58 70	\$.2984 .3059	53.3 53.2	16 20	7 12	21 27	12 9	2	2
CUTTERS, VAMP AND WHOLE SHOE, HAND, MALE.										
Massachusetts:										
14 establishments.....	{1910 1911}	752 712	.3414 .3405	54.3 54.2	13 14	176 158	323 333	228 196	12 11	.....
22 establishments.....	{1911 1912}	967 812	.3337 .3400	54.4 53.1	217	158 100	450 428	337 54	22	13
Missouri:										
6 establishments.....	{1910 1911}	193 177	.2594 .2844	60.0 59.9	.....	.....	.....	.....	.....	193 148
4 establishments.....	{1911 1912}	177 118	.2844 .3042	59.8 59.4	.....	.....	9	.....	29 15	148 94
New Hampshire:										
2 establishments.....	{1910 1911}	27 30	.2179 .2258	57.4 57.4	.....	.....	.....	5 6	22 24	.....
2 establishments.....	{1911 1912}	30 32	.2258 .2424	57.4 58.0	.....	.....	.....	6	24 32	.....
New York:										
9 establishments.....	{1910 1911}	205 214	.3586 .3463	56.1 55.8	.....	.....	71 81	44 84	70 25	20 24
11 establishments.....	{1911 1912}	267 296	.3395 .3467	55.5 54.6	.....	62	128 160	90 24	25 19	24 31
Ohio:										
4 establishments.....	{1910 1911}	137 154	.2921 .2946	59.9 59.8	.....	.....	.....	.....	40 54	97 100
5 establishments.....	{1911 1912}	206 186	.2944 .3241	59.9 56.3	.....	.....	112	.....	54	152 74
CUTTERS, VAMP AND WHOLE SHOE, MACHINE, MALE.										
Massachusetts:										
4 establishments.....	{1910 1911}	53 34	.3323 .3086	55.2 55.4	.....	.....	.....	51 31	2 3	.....
8 establishments.....	{1911 1912}	79 95	.3589 .3571	54.6 52.8	29	.....	42 66	34	3	.....
Missouri:										
3 establishments.....	{1910 1911}	28 34	.2690 .2901	60.0 59.5	.....	.....	.....	.....	16	28 18
3 establishments.....	{1911 1912}	55 50	.2536 .2579	59.7 57.7	.....	.....	19	.....	16	39 31
New Hampshire:										
2 establishments.....	{1910 1911}	52 54	.2842 .2944	56.9 57.1	.....	.....	.....	19 17	33 37	.....
2 establishments.....	{1911 1912}	54 63	.2944 .3019	57.1 57.3	.....	.....	.....	17	37 63	.....
New York:										
3 establishments.....	{1910 1911}	28 33	.4172 .4110	55.9 55.1	.....	.....	13 15	.....	15	.....
4 establishments.....	{1911 1912}	35 52	.4007 .3736	55.0 53.2	.....	24	17 28	18	.....	.....

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

CUTTING DEPARTMENT—Concluded.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
SKIVERS, UPPER, MACHINE, MALE.										
Massachusetts:										
7 establishments.....	1910	58	\$0.2754	54.2			49	9		
	1911	61	.3102	54.1			52	9		
16 establishments.....	1911	104	.2975	54.2			92	10	2	
	1912	110	.2954	54.1			100	9		1
SKIVERS, UPPER, MACHINE, FEMALE.										
Massachusetts:										
12 establishments.....	1910	106	.1812	54.6	1	28	25	49	3	
	1911	78	.2057	55.8	2	24	10	40	2	
16 establishments.....	1911	107	.1969	54.9		24	12	66	5	
	1912	96	.2028	53.5	9	20	67			
Missouri:										
8 establishments.....	1910	58	.1591	60.0						58
	1911	58	.1548	59.4				6	6	46
5 establishments.....	1911	52	.1551	59.9					6	46
	1912	31	.1779	54.0			31			
New Hampshire:										
6 establishments.....	1910	42	.1794	57.1				2	40	
	1911	48	.1716	57.1				4	44	
6 establishments.....	1911	48	.1716	57.1				4	44	
	1912	48	.1827	57.3					48	
New York:										
6 establishments.....	1910	32	.1931	56.6		2	13	3		14
	1911	30	.1880	56.6		1	13	3		13
8 establishments.....	1911	38	.1925	56.2		1	19	5		13
	1912	43	.2173	55.3		6	24	1	1	11
Ohio:										
4 establishments.....	1910	20	.1794	59.9					6	14
	1911	21	.1670	59.8					7	14
5 establishments.....	1911	32	.1661	59.9					7	25
	1912	35	.1696	54.0			35			

SOLE-LEATHER DEPARTMENT.

CHANNELERS, INSOLE AND OUTSOLE, MALE.										
Massachusetts:										
11 establishments.....	1910	50	\$0.3427	53.9	4	7	29	10		
	1911	52	.3449	54.0	4	7	28	13		
17 establishments.....	1911	59	.3146	54.4		7	33	18	1	
	1912	60	.3105	54.4		5	38	16		1
New York:										
9 establishments.....	1910	22	.2993	56.6			8	3	6	5
	1911	22	.3025	56.4			7	3	3	5
10 establishments.....	1911	26	.2980	56.1			11	7	3	5
	1912	25	.3038	54.3		7	12	2	1	3
CUTTERS, OUTSOLE, MALE.										
Massachusetts:										
10 establishments.....	1910	60	.3023	54.6			40	17	3	
	1911	53	.3051	54.7			32	19	2	
12 establishments.....	1911	65	.2974	54.8			36	27	2	
	1912	65	.3071	54.7			44	17	4	
Missouri:										
3 establishments.....	1910	29	.3086	59.2					22	7
	1911	26	.3066	59.2					20	6
3 establishments.....	1911	26	.3066	59.2					20	6
	1912	38	.2943	59.4					24	14

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

FITTING OR STITCHING DEPARTMENT.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
BACKSTAY STITCHERS, FEMALE.										
Massachusetts:										
14 establishments.....	1910	118	\$0.1968	54.7	1	28	23	61	5	.....
	1911	101	.2037	54.7	1	21	26	47	6	.....
21 establishments.....	1911	154	.2109	54.8	.....	21	52	70	11	.....
	1912	138	.2116	53.7	11	4	123	.....	.....	.....
Missouri:										
8 establishments.....	1910	30	.1657	58.8	.....	.....	.....	7	.....	23
	1911	24	.1631	59.4	.....	.....	.....	2	4	18
8 establishments.....	1911	24	.1631	59.4	.....	.....	.....	2	4	18
	1912	25	.1708	54.0	.....	.....	25	.....	.....	.....
New Hampshire:										
6 establishments.....	1910	54	.1671	57.1	.....	.....	.....	5	49	.....
	1911	63	.1745	57.0	.....	.....	.....	8	55	.....
6 establishments.....	1911	63	.1745	57.0	.....	.....	.....	8	55	.....
	1912	58	.1647	57.2	.....	.....	.....	.....	58	.....
New York:										
6 establishments.....	1910	32	.1577	56.9	.....	4	9	2	4	13
	1911	37	.1682	56.6	.....	7	9	2	4	15
8 establishments.....	1911	43	.1718	56.1	.....	7	16	3	2	15
	1912	51	.1719	56.2	.....	4	26	.....	3	18
Ohio:										
4 establishments.....	1910	24	.1423	59.9	.....	.....	.....	.....	7	17
	1911	23	.1492	59.8	.....	.....	.....	.....	8	15
5 establishments.....	1911	31	.1539	59.9	.....	.....	.....	.....	8	23
	1912	27	.1739	54.0	.....	.....	27	.....	.....	.....
BUTTONHOLE MAKERS, FEMALE.										
Massachusetts:										
13 establishments.....	1911	38	.2102	54.8	.....	2	19	14	3	.....
	1912	60	.2113	53.9	.....	17	43	.....	.....	.....
CLOSERS-ON, FEMALE.										
Massachusetts:										
11 establishments.....	1910	75	.2112	54.4	1	23	15	35	1	.....
	1911	78	.2103	54.8	1	5	16	55	1	.....
18 establishments.....	1911	107	.2107	54.8	.....	5	29	71	2	.....
	1912	103	.2070	53.7	7	3	93	.....	.....	.....
Missouri:										
7 establishments.....	1910	44	.1595	60.0	.....	.....	.....	.....	.....	44
	1911	44	.1628	59.7	.....	.....	.....	.....	12	32
7 establishments.....	1911	44	.1628	59.7	.....	.....	.....	.....	12	32
	1912	27	.1644	54.0	.....	.....	27	.....	.....	.....
New Hampshire:										
6 establishments.....	1910	27	.1830	57.0	.....	.....	.....	5	22	.....
	1911	29	.1675	56.9	.....	.....	.....	6	23	.....
6 establishments.....	1911	29	.1675	56.9	.....	.....	.....	6	23	.....
	1912	24	.1879	57.5	.....	.....	.....	.....	24	.....
New York:										
8 establishments.....	1910	44	.1747	56.5	.....	.....	18	4	12	10
	1911	47	.1667	56.4	.....	.....	19	12	3	13
11 establishments.....	1911	63	.1732	55.9	.....	.....	32	13	5	13
	1912	69	.1839	54.5	8	13	29	2	2	15
Ohio:										
3 establishments.....	1910	19	.1670	59.9	.....	.....	.....	.....	3	16
	1911	22	.1601	59.9	.....	.....	.....	.....	6	16
3 establishments.....	1911	35	.1573	59.9	.....	.....	.....	.....	6	29
	1912	28	.1774	54.0	.....	.....	28	.....	.....	.....

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

FITTING OR STITCHING DEPARTMENT—Continued.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
LINING MAKERS, FEMALE.										
Massachusetts:										
14 establishments.....	1910	211	\$0.1870	54.3	2	80	43	81	5	.....
	1911	199	.1881	54.3	3	77	43	71	5	.....
22 establishments.....	1911	269	.1932	54.4	.....	77	89	95	8	.....
	1912	236	.1938	53.7	13	18	205	.....	.....	.....
Missouri:										
7 establishments.....	1910	75	.1262	60.0	.....	.....	.....	8	20	75
	1911	71	.1275	59.2	.....	.....	.....	.....	.....	43
7 establishments.....	1911	66	.1267	59.7	.....	.....	.....	.....	20	46
	1912	57	.1528	54.0	.....	.....	57	.....	.....	.....
New Hampshire:										
6 establishments.....	1910	60	.1489	56.8	.....	.....	.....	14	46	.....
	1911	46	.1539	57.0	.....	.....	.....	8	38	.....
6 establishments.....	1911	46	.1539	57.0	.....	.....	.....	8	38	.....
	1912	73	.1302	57.3	.....	.....	.....	.....	73	.....
New York:										
9 establishments.....	1910	93	.1693	56.5	.....	8	29	8	22	26
	1911	91	.1615	56.7	.....	4	27	24	5	31
11 establishments.....	1911	109	.1644	56.3	.....	4	42	27	5	31
	1912	95	.1661	54.9	8	21	34	2	3	27
Ohio:										
4 establishments.....	1910	30	.1337	59.8	.....	.....	.....	.....	13	17
	1911	37	.1442	59.7	.....	.....	.....	.....	22	15
5 establishments.....	1911	58	.1480	59.8	.....	.....	.....	.....	22	36
	1912	71	.1738	54.0	.....	.....	71	.....	.....	.....
TIP STITCHERS, FEMALE.										
Massachusetts:										
15 establishments.....	1911	66	.2298	54.4	.....	10	35	19	2	.....
	1912	69	.2383	54.0	.....	12	54	3	.....	.....
TOP STITCHERS OR UNDERTRIMMERS, FEMALE.										
Massachusetts:										
15 establishments.....	1910	254	.2067	54.6	3	64	79	93	15	.....
	1911	252	.2196	54.5	4	63	80	94	11	.....
22 establishments.....	1911	344	.2202	54.6	.....	63	133	131	17	.....
	1912	378	.2156	53.7	24	63	291	.....	.....	.....
Missouri:										
8 establishments.....	1910	116	.1774	60.0	.....	.....	.....	.....	.....	116
	1911	111	.1718	59.3	.....	.....	.....	12	23	76
8 establishments.....	1911	111	.1718	59.3	.....	.....	.....	12	23	76
	1912	88	.1786	54.0	.....	.....	88	.....	.....	.....
New Hampshire:										
6 establishments.....	1910	80	.1690	57.0	.....	.....	.....	9	71	.....
	1911	92	.1753	56.9	.....	.....	.....	14	78	.....
6 establishments.....	1911	92	.1753	56.9	.....	.....	.....	14	78	.....
	1912	106	.1640	57.2	.....	.....	.....	.....	106	.....
New York:										
6 establishments.....	1910	65	.1876	57.0	.....	.....	27	5	7	26
	1911	67	.2078	57.2	.....	.....	26	4	9	28
11 establishments.....	1911	88	.2084	56.5	.....	.....	47	4	9	28
	1912	114	.2097	54.9	5	18	61	1	2	27
Ohio:										
4 establishments.....	1910	56	.1639	59.8	.....	.....	.....	.....	19	37
	1911	66	.1566	59.8	.....	.....	.....	.....	26	40
5 establishments.....	1911	86	.1588	59.9	.....	.....	.....	.....	26	60
	1912	78	.1854	54.0	.....	.....	78	.....	.....	.....

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

FITTING OR STITCHING DEPARTMENT—Concluded.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
VAMPERS, MALE.										
Massachusetts:										
10 establishments.....	1910	134	\$0.3152	54.1	48	61	25			
	1911	110	.3259	54.2	21	64	25			
17 establishments.....	1911	186	.3388	54.2						
	1912	277	.3254	53.9	15	40	133	29	3	
New Hampshire:										
5 establishments.....	1910	33	.2365	56.6				7	26	
	1911	47	.2482	56.7				9	38	
6 establishments.....	1911	47	.2482	56.7				9	38	
	1912	54	.2401	57.2					54	
New York:										
5 establishments.....	1910	35	.3019	56.2				16	19	
	1911	32	.3283	55.6				30	2	
8 establishments.....	1911	36	.3238	55.6				34	2	
	1912	38	.3325	54.6		16	4	7	11	
VAMPERS, FEMALE.										
Massachusetts:										
15 establishments.....	1910	287	.2681	54.5	6	39	94	141	7	
	1911	299	.2759	54.7	5	45	106	134	9	
22 establishments.....	1911	385	.2759	54.8		45	133	191	16	
	1912	309	.2466	53.7	14	43	252			
Missouri:										
8 establishments.....	1910	120	.2226	60.0						120
	1911	127	.2403	59.3				15	18	94
8 establishments.....	1911	127	.2403	59.3				15	18	94
	1912	105	.2322	54.0			105			
New Hampshire:										
6 establishments.....	1910	117	.2242	57.1				10	107	
	1911	134	.2120	57.0				14	120	
6 establishments.....	1911	134	.2120	57.0				14	120	
	1912	100	.2138	57.2					100	
New York:										
6 establishments.....	1910	94	.2448	56.4	14		27	5	10	38
	1911	104	.2378	56.0	21		29	5	11	38
9 establishments.....	1911	130	.2349	55.6	21		55	5	11	38
	1912	141	.2506	55.6	1	23	68	1		48
Ohio:										
4 establishments.....	1910	74	.2035	59.8						27
	1911	82	.1895	59.8						35
5 establishments.....	1911	140	.2033	59.9						35
	1912	118	.2174	54.0			118			105

LASTING DEPARTMENT.

ASSEMBLERS, FOR PULLING-OVER MACHINE, MALE.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
Massachusetts:										
9 establishments.....	1911	148	\$0.2932	54.6			78	68	2	
	1912	148	.2807	53.6	31		78	36		3

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

LASTING DEPARTMENT—Continued.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
BED-MACHINE OPERATORS, MALE.										
Massachusetts:										
7 establishments.....	1910	207	\$.3429	54.2	.....	15	161	31	.....	.....
	1911	226	.3633	54.2	.....	26	165	35	.....	.....
14 establishments.....	1911	331	.3523	54.3	.....	26	246	46	13	.....
	1912	470	.3054	54.3	.....	58	339	60	.....	15
Missouri:										
7 establishments.....	1910	41	.2924	60.0	.....	.....	.....	.....	.....	41
	1911	53	.3024	58.8	.....	.....	.....	13	.....	40
6 establishments.....	1911	50	.3068	58.7	.....	.....	.....	13	.....	37
	1912	54	.2778	59.6	.....	.....	.....	.....	19	35
New Hampshire:										
3 establishments.....	1910	67	.2464	56.9	.....	.....	.....	5	62	.....
	1911	72	.2465	56.6	.....	.....	.....	14	58	.....
3 establishments.....	1911	72	.2465	56.6	.....	.....	.....	14	58	.....
	1912	91	.2403	57.2	.....	.....	.....	.....	91	.....
New York:										
5 establishments.....	1910	73	.3286	57.9	.....	.....	4	5	45	19
	1911	66	.3454	57.0	.....	.....	4	39	8	15
9 establishments.....	1911	96	.3442	56.5	.....	.....	14	52	15	15
	1912	131	.3458	54.7	.....	41	46	20	11	13
Ohio:										
3 establishments.....	1910	42	.2983	59.8	.....	.....	.....	.....	17	25
	1911	47	.3057	59.8	.....	.....	.....	.....	17	30
5 establishments.....	1911	72	.2977	59.9	.....	.....	.....	.....	17	55
	1912	87	.3080	56.6	.....	.....	50	.....	.....	37
HAND-METHOD LASTING MACHINE OPERATORS, MALE.										
Massachusetts:										
8 establishments.....	1910	114	.3481	55.3	4	.....	19	78	13	.....
	1911	118	.3697	55.2	5	.....	22	78	13	.....
12 establishments.....	1911	204	.3682	55.0	.....	.....	76	115	13	.....
	1912	221	.3473	54.1	26	.....	116	72	7	.....
Missouri:										
8 establishments.....	1910	75	.2746	60.0	.....	.....	.....	.....	.....	75
	1911	88	.2871	59.6	.....	.....	.....	3	18	67
7 establishments.....	1911	85	.2884	59.8	.....	.....	.....	.....	18	67
	1912	73	.2808	53.8	.....	.....	14	.....	.....	59
New Hampshire:										
5 establishments.....	1910	58	.2521	57.1	.....	.....	.....	10	48	.....
	1911	59	.2222	57.2	.....	.....	.....	10	49	.....
4 establishments.....	1911	59	.2222	57.2	.....	.....	.....	10	49	.....
	1912	60	.2633	57.5	.....	.....	.....	.....	60	.....
New York:										
3 establishments.....	1910	26	.3427	55.4	.....	.....	20	.....	.....	6
	1911	31	.3478	55.5	.....	.....	23	.....	.....	8
3 establishments.....	1911	35	.3226	55.6	.....	.....	18	9	.....	8
	1912	46	.3529	55.9	.....	.....	25	8	.....	13
Ohio:										
3 establishments.....	1910	21	.3239	59.9	.....	.....	.....	.....	6	15
	1911	15	.2960	59.8	.....	.....	.....	.....	5	10
5 establishments.....	1911	48	.2870	59.9	.....	.....	.....	.....	5	43
	1912	42	.3476	55.9	.....	.....	29	.....	.....	13

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

LASTING DEPARTMENT—Concluded.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					60.
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	
PULLERS-OVER, HAND, MALE.										
Massachusetts:										
11 establishments.....	1910	341	\$0.3227	54.6	5	19	187	110	20	.....
	1911	333	.3513	54.5	7	27	183	99	17	.....
12 establishments.....	1911	359	.3483	54.5	.....	27	216	99	17	.....
	1912	429	.3283	54.0	24	111	216	59	19	.....
Missouri:										
5 establishments.....	1910	57	.3074	60.0	.....	.....	.....	.....	.....	57
	1911	53	.3216	57.5	.....	.....	.....	27	.....	26
4 establishments.....	1911	47	.3206	57.1	.....	.....	.....	27	.....	20
	1912	40	.2754	59.4	.....	.....	.....	.....	25	15
New Hampshire:										
5 establishments.....	1910	152	.2244	56.8	.....	.....	.....	18	134	.....
	1911	125	.2235	57.1	.....	.....	.....	1	124	.....
2 establishments.....	1911	65	.2495	57.0	.....	.....	.....	.....	65	.....
	1912	70	.2620	57.0	.....	.....	.....	.....	70	.....
New York:										
4 establishments.....	1910	42	.3233	57.7	.....	.....	2	10	30	.....
	1911	45	.3268	57.9	.....	.....	2	9	34	.....
7 establishments.....	1911	76	.3166	56.4	.....	.....	28	14	34	.....
	1912	73	.3355	54.2	.....	.....	59	12	2	.....
Ohio:										
2 establishments.....	1910	70	.2594	59.9	.....	.....	.....	.....	10	60
	1911	79	.2830	59.9	.....	.....	.....	.....	13	66
5 establishments.....	1911	133	.2869	60.0	.....	.....	.....	.....	13	120
	1912	65	.3232	58.8	.....	.....	13	.....	.....	52
PULLERS-OVER, MACHINE, MALE.										
Massachusetts:										
7 establishments.....	1910	75	.3264	54.7	.....	.....	41	33	1	.....
	1911	105	.3311	54.5	.....	.....	65	39	1	.....
13 establishments.....	1911	150	.3499	54.5	.....	.....	93	54	3	.....
	1912	140	.3036	54.1	15	.....	89	30	3	3
Missouri:										
7 establishments.....	1910	33	.3719	60.0	.....	.....	.....	.....	.....	33
	1911	28	.2820	59.6	.....	.....	.....	1	6	21
7 establishments.....	1911	28	.2820	59.6	.....	.....	.....	1	6	21
	1912	37	.2993	59.1	.....	.....	5	.....	2	30
New York:										
4 establishments.....	1910	73	.3400	57.4	.....	.....	9	.....	54	10
	1911	65	.3548	56.0	.....	.....	12	47	.....	6
6 establishments.....	1911	75	.3476	55.8	.....	.....	17	52	.....	6
	1912	60	.3594	54.8	.....	34	12	.....	2	12

BOTTOMING DEPARTMENT.

BUFFERS, MALE.										
Massachusetts:										
16 establishments.....	1911	92	\$0.3128	54.7	.....	5	47	33	7	.....
	1912	89	.3306	54.9	.....	.....	5	45	32	3
New Hampshire:										
4 establishments.....	1911	42	.2276	57.1	.....	.....	.....	.....	42	.....
	1912	39	.2489	57.0	.....	.....	.....	.....	39	.....

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued,

BOTTOMING DEPARTMENT—Continued.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
EDGE SETTERS, MALE.										
Massachusetts:										
15 establishments.....	1910	238	\$0.4165	54.4	3	72	79	73	9	.....
	1911	233	.4211	54.3	4	60	92	70	7	.....
22 establishments.....	1911	324	.4209	54.4	.....	60	158	90	16	.....
	1912	295	.4218	54.5	.....	32	168	83	7	5
Missouri:										
8 establishments.....	1910	54	.3605	59.2	.....	.....	.....	9	.....	45
	1911	63	.3568	59.3	.....	.....	.....	7	8	48
7 establishments.....	1911	56	.3483	59.9	.....	.....	.....	.....	8	48
	1912	52	.3445	59.5	.....	.....	4	.....	.....	48
New Hampshire:										
6 establishments.....	1910	67	.2877	56.9	.....	.....	.....	9	.....	58
	1911	74	.2758	56.9	.....	.....	.....	10	64	.....
6 establishments.....	1911	74	.2758	56.9	.....	.....	.....	10	64	.....
	1912	70	.3026	57.2	.....	.....	.....	.....	70	.....
New York:										
7 establishments.....	1910	64	.3726	57.2	.....	.....	15	7	26	16
	1911	64	.4173	56.6	.....	.....	18	23	7	16
9 establishments.....	1911	78	.4086	56.2	.....	.....	30	25	7	16
	1912	94	.4104	54.7	.....	20	52	9	.....	13
Ohio:										
4 establishments.....	1910	35	.3542	59.8	.....	.....	.....	.....	11	24
	1911	36	.3410	59.8	.....	.....	.....	.....	11	25
5 establishments.....	1911	59	.3297	59.9	.....	.....	.....	.....	11	48
	1912	62	.3614	57.1	.....	.....	30	.....	.....	32
EDGE TRIMMERS, MALE.										
Massachusetts:										
15 establishments.....	1910	255	.4038	54.4	3	58	98	85	11	.....
	1911	268	.4174	54.4	4	55	115	86	8	.....
22 establishments.....	1911	367	.4179	54.5	.....	55	184	113	15	.....
	1912	332	.3946	54.6	.....	30	190	96	8	8
Missouri:										
8 establishments.....	1910	61	.3495	60.0	.....	.....	.....	.....	7	61
	1911	61	.3440	59.3	.....	.....	.....	.....	8	46
7 establishments.....	1911	54	.3311	59.9	.....	.....	.....	.....	8	46
	1912	48	.3391	59.3	.....	.....	6	.....	.....	42
New Hampshire:										
6 establishments.....	1910	70	.3155	56.8	.....	.....	.....	12	58	.....
	1911	84	.2997	56.8	.....	.....	.....	16	68	.....
6 establishments.....	1911	84	.2997	56.8	.....	.....	.....	16	68	.....
	1912	97	.3283	57.4	.....	.....	.....	.....	97	.....
New York:										
8 establishments.....	1910	68	.4342	57.0	.....	.....	16	11	23	18
	1911	78	.4252	56.5	.....	.....	22	30	7	19
10 establishments.....	1911	91	.4202	56.1	.....	.....	34	31	7	19
	1912	92	.4178	55.3	.....	21	41	6	5	19
Ohio:										
4 establishments.....	1910	39	.3349	59.9	.....	.....	.....	.....	9	30
	1911	38	.3778	59.9	.....	.....	.....	.....	11	27
5 establishments.....	1911	52	.3819	59.9	.....	.....	.....	.....	11	41
	1912	53	.3917	57.3	.....	.....	24	.....	.....	29

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

BOTTOMING DEPARTMENT—Continued.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
GOODYEAR STITCHERS, MALE.										
Massachusetts:										
14 establishments.....	{1910	158	\$. 4012	54.4	3	21	80	49	5	.....
	{1911	178	. 4121	54.3	3	28	95	49	3	.....
20 establishments.....	{1911	258	. 4101	54.4	.....	28	165	56	9	.....
	{1912	245	. 3989	54.4	.....	21	166	47	5	6
Missouri:										
6 establishments.....	{1910	34	. 3232	60.0	.....	.....	.....	.....	.....	34
	{1911	33	. 3705	59.1	.....	.....	.....	6	.....	27
6 establishments.....	{1911	33	. 3705	59.1	.....	.....	.....	6	.....	27
	{1912	52	. 3486	59.9	.....	.....	.....	.....	6	46
New Hampshire:										
3 establishments.....	{1910	49	. 2756	56.6	.....	.....	.....	10	39	.....
	{1911	58	. 2650	56.5	.....	.....	.....	14	44	.....
3 establishments.....	{1911	58	. 2650	56.5	.....	.....	.....	14	44	.....
	{1912	43	. 2865	57.3	.....	.....	.....	.....	43	.....
New York:										
6 establishments.....	{1910	39	. 4259	57.6	.....	.....	4	6	19	10
	{1911	45	. 4211	57.3	.....	.....	6	18	8	13
8 establishments.....	{1911	55	. 4064	56.7	.....	.....	14	20	8	13
	{1912	69	. 4479	55.4	.....	17	25	10	.....	17
Ohio:										
4 establishments.....	{1910	25	. 3026	59.9	.....	.....	.....	.....	7	18
	{1911	27	. 3488	59.8	.....	.....	.....	.....	9	18
5 establishments.....	{1911	39	. 3494	59.9	.....	.....	.....	.....	9	30
	{1912	52	. 2961	57.0	.....	.....	26	.....	.....	26
GOODYEAR WELTERS, MALE.										
Massachusetts:										
12 establishments.....	{1910	111	. 4857	54.3	2	19	62	24	4	.....
	{1911	115	. 5199	54.2	2	27	62	21	3	.....
18 establishments.....	{1911	179	. 4989	54.3	.....	27	119	28	5	.....
	{1912	192	. 4767	54.4	.....	30	126	28	4	4
Missouri:										
6 establishments.....	{1910	24	. 4583	60.0	.....	.....	.....	.....	.....	24
	{1911	30	. 4696	59.2	.....	.....	.....	5	.....	25
6 establishments.....	{1911	30	. 4696	59.2	.....	.....	.....	5	.....	25
	{1912	39	. 4481	59.8	.....	.....	.....	.....	6	33
New Hampshire:										
3 establishments.....	{1910	31	. 3335	56.5	.....	.....	.....	8	23	.....
	{1911	33	. 3313	56.5	.....	.....	.....	9	24	.....
3 establishments.....	{1911	33	. 3313	56.5	.....	.....	.....	9	24	.....
	{1912	31	. 3723	57.3	.....	.....	.....	.....	31	.....
New York:										
7 establishments.....	{1910	40	. 4075	56.3	.....	.....	15	5	16	4
	{1911	41	. 4497	56.1	.....	.....	14	16	5	6
9 establishments.....	{1911	45	. 4492	56.1	.....	.....	11	23	5	6
	{1912	40	. 5218	54.8	.....	10	15	7	5	3
Ohio:										
4 establishments.....	{1910	22	. 3773	59.9	.....	.....	.....	.....	5	17
	{1911	20	. 3875	59.9	.....	.....	.....	.....	6	14
5 establishments.....	{1911	32	. 3691	59.9	.....	.....	.....	.....	6	26
	{1912	35	. 3823	56.9	.....	.....	18	.....	.....	17
HEEL BREASTERS, MALE.										
Massachusetts:										
16 establishments.....	{1911	38	. 3353	54.8	.....	2	18	15	3	.....
	{1912	44	. 3196	54.7	.....	8	19	14	2	1

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Continued.

BOTTOMING DEPARTMENT—Concluded.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
HEEL BURNISHERS, MALE.										
Massachusetts:										
16 establishments.....	1911	66	\$0.3298	54.6		2	38	23	3	
	1912	69	.3357	54.7		5	39	21	2	2
HEELERS, MALE.										
Massachusetts:										
14 establishments.....	1911	65	.4435	54.7		10	29	20	6	
	1912	69	.4079	54.9		8	36	19	3	3
HEEL SCOURERS, MALE.										
Massachusetts:										
15 establishments.....	1911	76	.3060	54.7		7	38	25	6	
	1912	89	.3134	54.5		15	50	19	3	2
HEEL SLUGGERS, MALE.										
Massachusetts:										
15 establishments.....	1911	44	.3401	54.8			25	16	3	
	1912	45	.3241	54.9			27	14	2	2
HEEL TRIMMERS OR SHAVERS, MALE.										
Massachusetts:										
15 establishments.....	1910	68	.4555	54.5	1	17	20	27	3	
	1911	68	.4655	54.5	1	16	22	26	3	
22 establishments.....	1911	101	.4533	54.7		16	37	42	6	
	1912	89	.4417	54.7		11	44	28	3	3
New York:										
8 establishments.....	1910	27	.4890	56.6			6	6	11	4
	1911	25	.4750	56.1			6	13	3	3
10 establishments.....	1911	29	.4816	55.9			9	14	3	3
	1912	31	.4705	55.0		7	13	4	3	4
LEVELERS, MALE.										
Massachusetts:										
16 establishments.....	1911	54	.3353	54.6		7	27	16	4	
	1912	53	.3383	54.8		7	26	16	2	2
MCKAY SEWERS, MALE.										
Massachusetts:										
7 establishments.....	1910	38	.3272	54.9	1	10		23	4	
	1911	44	.3485	54.7	1	13		27	3	
9 establishments.....	1911	59	.3450	55.0		13		43	3	
	1912	47	.2997	55.0		3	8	34	2	
ROUGH ROUNDERS, MALE.										
Massachusetts:										
12 establishments.....	1910	57	.4671	54.6	1		35	19	2	
	1911	57	.4700	54.6	1		35	18	3	
18 establishments.....	1911	88	.4781	54.6		2	59	21	6	
	1912	98	.4747	54.5		11	61	22	2	2
New York:										
7 establishments.....	1910	29	.4171	57.2			3	6	14	1
	1911	25	.4759	56.3			2	17	2	1
9 establishments.....	1911	28	.4627	55.1			4	18	2	4
	1912	35	.4663	54.9		12	10	5	3	5

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1910 TO 1912—Continued.

BOOT AND SHOE MANUFACTURING—Concluded.

FINISHING DEPARTMENT.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—					
					Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
TREES OR IRONERS, HAND, MALE.										
Massachusetts:										
13 establishments.....	1910	448	\$0.2834	54.2		173	140	135		
	1911	385	.2900	54.3		100	156	129		
19 establishments.....	1911	539	.2935	54.4		100	255	184		
	1912	542	.2852	54.3		94	305	143		
Missouri:										
8 establishments.....	1910	92	.2339	60.0				8	11	92
	1911	100	.2316	59.5						81
7 establishments.....	1911	92	.2304	59.9					11	81
	1912	89	.2164	59.8			3			86
New Hampshire:										
6 establishments.....	1910	99	.1893	56.8				24	75	
	1911	98	.1995	56.8				24	74	
6 establishments.....	1911	98	.1995	56.8				24	74	
	1912	134	.1935	57.7					134	
New York:										
5 establishments.....	1910	51	.2158	58.3				4	31	16
	1911	59	.2118	58.0				25	10	24
8 establishments.....	1911	71	.2054	57.4			10	27	10	24
	1912	59	.2679	55.5		21	13	7	2	16
Ohio:										
2 establishments.....	1910	25	.1962	60.0						25
	1911	25	.2096	60.0						25
5 establishments.....	1911	45	.2043	59.9					10	35
	1912	60	.2112	58.7			13			47
TREES OR IRONERS, HAND, FEMALE.										
New York:										
3 establishments.....	1910	22	.1997	54.0				22		
	1911	23	.1942	54.0				23		
4 establishments.....	1911	23	.1942	54.0				23		
	1912	29	.1651	52.9		11	18			
Ohio:										
2 establishments.....	1910	32	.1194	59.7					22	10
	1911	24	.1170	59.6					17	7
2 establishments.....	1911	39	.1287	59.8					17	22
	1912	33	.1591	54.0			33			

HOSIERY AND KNIT GOODS MANUFACTURING.

GENERAL SUMMARY.

This study of wages and hours of labor in hosiery and knit goods manufacturing shows rates of wages per hour and nominal full-time hours of work per week for the years 1907 to 1912, inclusive, and in addition it summarizes data published in previous reports¹ of the Bureau of Labor Statistics and thus furnishes a comparison for the 23-year period, 1890 to 1912, inclusive.

The present report and also previous reports show wages and hours of labor for each of the most important productive occupations in hosiery and knit goods manufacturing, but do not show data for all occupations in the industry. The occupations for which data are presented in this report are given in the table below. These occupations include a very large proportion of the total employees on productive work and more than half of the total employees engaged in productive and nonproductive work.

Comparing 1912 with certain other years the changes in nominal full-time hours per week, as shown by combining the principal occupations, were as follows:

1912 compared with 1890.....	7.9 per cent decline.
1912 compared with 1895.....	7.3 per cent decline.
1912 compared with 1900.....	5.9 per cent decline.
1912 compared with 1905.....	4.7 per cent decline.
1912 compared with 1910.....	1.8 per cent decline.

The changes in nominal full-time hours per week for each of the principal occupations of the industry during the period from 1907 to 1912, inclusive, as far as data are available, are shown in the table which follows:

PER CENT OF DECREASE IN NOMINAL FULL-TIME HOURS PER WEEK: 1912 COMPARED WITH EACH OF THE 5 YEARS PRECEDING.

Occupation.	Per cent lower in 1912 than in—				
	1907	1908	1909	1910	1911
Boarders, male.....	4.4	3.9	4.1	2.3	2.3
Buttonhole makers, underwear, female.....	(2)	(2)	(2)	1.4	1.6
Button sewers, underwear, female.....	(2)	(2)	(2)	1.5	1.7
Cutters, hand, underwear, male.....	(2)	(2)	(2)	.7	(3)
Cutters, hand, underwear, female.....	6.5	5.4	5.6	3.0	3.0
Finishers, underwear, female.....	3.5	3.3	3.5	1.9	1.7
Folders, female.....	4.2	3.9	4.4	2.2	2.0
Inspectors and menders, underwear, female.....	(2)	(2)	(3)	1.0	1.0
Knitters, footers or toppers, hosiery, male.....	(2)	(2)	(2)	.8	.5
Knitters, footers or toppers, hosiery, female.....	5.3	5.3	5.3	2.0	2.0

¹ Previous investigations of wages and hours of labor in hosiery and knit goods manufacturing have been made and published by the Bureau, as follows: Nineteenth Annual Report, covering 1890 to 1903; Bulletin No. 59 (July, 1905) covering 1903 and 1904; Bulletin No. 65 (July, 1906), covering 1904 and 1905; Bulletin No. 71 (July, 1907), covering 1905 and 1906; and Bulletin No. 77 (July, 1908), covering 1906 and 1907.

² No data.

³ No change.

PER CENT OF DECREASE IN NOMINAL FULL-TIME HOURS PER WEEK: 1912 COMPARED WITH EACH OF THE 5 YEARS PRECEDING—Concluded.

Occupation.	Per cent lower in 1912 than in—				
	1907	1908	1909	1910	1911
Knitters, "lady hose," male.....	(1)	(1)	(1)	2.7	2.4
Knitters, "lady hose," female.....	(1)	(1)	(1)	1.6	1.6
Knitters, rib, hosiery, male.....	(1)	(1)	(1)	1.8	1.6
Knitters, rib, hosiery, female.....	(1)	(1)	(1)	3.1	3.5
Knitters, web or tube, underwear, male.....	4.4	4.1	4.4	1.8	1.5
Knitters, web or tube, underwear, female.....	5.7	5.9	6.1	3.4	2.7
Loopers, female.....	3.3	3.0	3.0	1.8	1.8
Menders, fine, hosiery, female.....	4.5	3.5	3.3	2.8	2.8
Menders, rough, hosiery, female.....	2.4	2.2	2.4	.9	.9
Pressers, male.....	2.4	2.2	2.0	1.7	1.5
Press hands, female.....	5.0	5.0	5.0	1.6	1.3
Seamers, underwear, female.....	3.2	3.0	3.2	.8	.8
Welters, female.....	(1)	(1)	(1)	2.3	2.3
Winders, female.....	5.2	5.0	4.8	3.0	2.5
Total.....	3.8	3.5	3.6	1.8	1.7

¹ No data.

Comparing 1912 with certain other years the changes in rates of wages per hour, as shown by combining the principal occupations, were as follows:

1912 compared with 1890.....	36.1 per cent advance.
1912 compared with 1895.....	39.8 per cent advance.
1912 compared with 1900.....	50.6 per cent advance.
1912 compared with 1905.....	19.8 per cent advance.
1912 compared with 1910.....	6.1 per cent advance.

The changes in rates of wages per hour for each of the principal occupations of the industry during the period from 1907 to 1912, inclusive, as far as data are available, are shown in the table which follows:

PER CENT OF INCREASE OR DECREASE IN RATES OF WAGES PER HOUR: 1912 COMPARED WITH EACH OF THE 5 YEARS PRECEDING.

Occupation.	Per cent higher (+) or lower (-) in 1912 than in—				
	1907	1908	1909	1910	1911
Boarders, male.....	+13.2	+16.9	+21.2	+13.0	+14.9
Buttonhole makers, underwear, female.....	(1)	(1)	(1)	+4.4	+2.0
Button sewers, underwear, female.....	(1)	(1)	(1)	.4	+ .9
Cutters, hand, underwear, male.....	(1)	(1)	(1)	-1.9	-4.8
Cutters, hand, underwear, female.....	+11.1	+1.9	+10.5	+11.4	+10.1
Finishers, underwear, female.....	+ .9	+ 5.7	+ 7.7	+ 3.4	+ 3.7
Folders, female.....	+11.2	+15.7	+1.8	+1.7	+2.4
Inspectors and menders, underwear, female.....	(1)	(1)	(1)	+4.2	+3.2
Knitters, footers or toppers, hosiery, male.....	(1)	(1)	(1)	+10.8	+7.6
Knitters, footers or toppers, hosiery, female.....	+11.7	+3.0	+3.4	+3.7	+2.1
Knitters, "lady hose," male.....	(1)	(1)	(1)	+8.3	+7.9
Knitters, "lady hose," female.....	(1)	(1)	(1)	+15.9	+14.6
Knitters, rib, hosiery, male.....	(1)	(1)	(1)	+6.1	+5.9
Knitters, rib, hosiery, female.....	(1)	(1)	(1)	+14.4	-2.2
Knitters, web or tube, underwear, male.....	+12.1	+17.9	+15.4	+15.2	+7.7

¹ No data.

PER CENT OF INCREASE OR DECREASE IN RATES OF WAGES PER HOUR: 1912
 COMPARED WITH EACH OF THE 5 YEARS PRECEDING—Concluded.

Occupation.	Per cent higher (+) or lower (-) in 1912 than in—				
	1907	1908	1909	1910	1911
Knitters, web or tube, underwear, female.....	-18.1	-19.0	-10.9	-20.6	-16.4
Loopers, female.....	+ 4.9	+15.0	+ 6.3	+ 6.0	+ 8.6
Menders, fine, hosiery, female.....	- .6	+ 8.5	+ 9.5	+ 4.5	+ 2.8
Menders, rough, hosiery, female.....	+17.8	+ 3.6	+ 2.3	+ 7.4	+ 6.9
Pressers, male.....	+ 5.3	+20.4	+17.2	+ 8.6	+ 3.8
Press hands, female.....	+13.0	+13.6	+27.3	+ 4.8	+ 5.1
Seamers, underwear, female.....	+ 5.0	- 3.1	- 3.8	+ 5.5	+ 6.4
Welters, female.....	(¹)	(¹)	(¹)	+17.1	+12.9
Winders, female.....	+16.7	+ .8	+ 8.1	+ 9.7	+ 7.6
Total.....	+ 7.7	+ 7.5	+ 7.2	+ 6.1	+ 5.8

¹ No data.

The next table shows for the industry the course of nominal full-time hours per week and the rates of wages per hour during the 23-year period from 1890 to 1912. The occupations combined and the sex for which data are shown during 1890 to 1907 are boarders, male; finishers, underwear, female; knitters, male and female; loopers, female; menders, female; pressers, male and female;¹ and ribbers, female. For 1907 to 1910 the occupations, and the sex for which data are shown, are boarders, male; cutters, hand, underwear, female; finishers, underwear, female; folders, female; knitters, footers or toppers, female; knitters, web or tube, underwear, male and female; loopers, female; menders, fine, hosiery, female; menders, rough, hosiery, female; pressers, male; press hands, female; seamers, underwear, female; and winders, female. For 1910 to 1912 the occupations and the sex for which data are shown are boarders, male; buttonhole makers, underwear, female; button sewers, underwear, female; cutters, hand, underwear, male and female; finishers, underwear, female; folders, female; inspectors and menders, underwear, female; knitters, footers or toppers, hosiery, male and female; knitters, "lady hose," male and female; knitters, rib, hosiery, male and female; knitters, web or tube, underwear, male and female; loopers, female; menders, fine, hosiery, female; menders, rough, hosiery, female; pressers, male; press hands, female; seamers, underwear, female; welters, female; and winders, female.

Data are not given for knitters of full-fashioned hosiery because such knitters in many instances pay their own helpers, which makes it difficult to ascertain the net earnings of the knitters. An effort will be made to get such data for future reports.

The figures of the table are relative hours of labor and relative wages computed from the actual hours and wages in the establishments furnishing data. They also show the per cent of change from year to year as measured by the average from 1890 to 1899.

¹ Press hands, female, were classed as pressers in the earlier reports.

By nominal full-time hours per week is meant the usual full working time, such as prevails when there is no industrial depression or other unusual factor affecting the industry.

In combining the relatives for the principal occupations to determine the relatives for the industry shown in the table which follows, the relatives for each occupation were weighted according to the number of employees reported each year. This weighting causes the figures for 1890 to 1907 to differ slightly from those shown for the industry in Bulletin No. 77 (July, 1908), where the relative for the industry was a simple average of occupation relatives. Under these two methods, the difference in relative hours does not exceed 1 per cent in any of the 18 years, and the difference in relative wages does not exceed 1 per cent in 10 of the 18 years, the greatest difference being about 2.7 per cent. The base used in computing the relatives in this table is the average for the 10-year period, 1890 to 1899.

RELATIVE NOMINAL FULL-TIME HOURS PER WEEK AND RELATIVE RATES OF WAGES PER HOUR IN HOSIERY AND KNIT GOODS MANUFACTURING, 1890 TO 1912.

[Data are included from 8 establishments, 1890-1903; 9 establishments, 1903, 1904; 22 establishments, 1904, 1905; 25 establishments, 1905, 1906; 30 establishments, 1906, 1907; 15 establishments, 1907-1910; 62 establishments, 1910, 1911; 62 establishments, 1911, 1912.]

Year.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average: 1890-1899.....	100.0	100.0
1890.....	101.1	105.6
1891.....	101.1	106.9
1892.....	101.2	100.3
1893.....	100.5	100.1
1894.....	94.8	96.7
1895.....	100.4	102.8
1896.....	100.3	99.3
1897.....	100.3	96.1
1898.....	100.3	96.4
1899.....	100.2	93.2
1900.....	98.9	95.4
1901.....	98.8	102.0
1902.....	98.9	111.0
1903.....	97.9	117.6
1904.....	97.8	114.8
1905.....	97.7	119.9
1906.....	97.2	126.9
1907.....	96.8	133.4
1908.....	96.5	133.7
1909.....	96.6	134.1
1910.....	94.8	135.5
1911.....	94.7	135.8
1912.....	93.1	143.7

The table which follows shows, for each of the principal occupations in the industry, relative nominal full-time hours per week and relative rates of wages per hour during the 23-year period 1890 to 1912. As already indicated, changes in the occupations included have been made from time to time during the period covered. The base used for computing the relatives for each occupation, except as noted, is the average of the 10-year period, 1890 to 1899.

RELATIVE NOMINAL FULL-TIME HOURS PER WEEK AND RELATIVE RATES OF WAGES PER HOUR IN THE PRINCIPAL OCCUPATIONS IN HOSIERY AND KNIT GOODS MANUFACTURING, 1890 TO 1912—Continued.

Year.	Knitters, ¹ male.		Knitters, ¹ female.		Knitters, footers or toppers, ² male.		Knitters, footers or toppers, ² female.	
	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average, 1890-1899	100.0	100.0	100.0	100.0				
1890	102.8	107.7	100.5	104.9				
1891	102.8	118.6	100.6	104.8				
1892	102.8	99.8	100.6	99.0				
1893	100.5	113.4	100.5	97.4				
1894	91.3	110.0	95.7	101.1				
1895	100.3	112.2	100.4	104.6				
1896	100.1	90.4	100.5	98.5				
1897	99.9	81.8	100.5	98.7				
1898	99.8	85.4	100.5	96.2				
1899	99.8	80.7	100.5	94.5				
1900	98.7	90.9	99.3	91.5				
1901	98.7	92.3	99.6	103.1				
1902	98.7	95.7	99.3	112.4				
1903	97.4	123.9	98.6	116.6				
1904	97.6	115.4	98.2	111.4				
1905	97.3	119.2	98.1	124.1				
1906	99.0	126.2	97.6	130.8				
1907	96.9	128.1	97.1	135.5				
1908							\$ 100.0	\$ 100.4
1909							\$ 100.0	\$ 108.0
1910					4 100.0	4 100.0	3 96.6	3 107.7
1911					4 99.7	4 103.0	3 96.6	3 109.4
1912					4 99.2	4 110.8	3 94.7	3 111.7

Year.	Knitters, "lady hose," ² male.		Knitters, "lady hose," ² female.		Knitters, rib, hosiery, ² male.		Knitters, rib, hosiery, ² female.	
	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average, 1890-1899								
1890								
1891								
1892								
1893								
1894								
1895								
1896								
1897								
1898								
1899								
1900								
1901								
1902								
1903								
1904								
1905								
1906								
1907								
1908								
1909								
1910	4 100.0	4 100.0	4 100.0	4 100.0	4 100.0	4 100.0	4 100.0	4 100.0
1911	4 99.7	4 100.4	4 100.0	4 101.1	4 99.8	4 100.2	4 100.4	4 117.0
1912	4 97.3	4 108.3	4 98.4	4 115.9	4 98.2	4 106.1	4 96.9	4 114.4

¹ Employees reported as knitters for 1890 to 1907 are reported for subsequent years as knitters, footers or toppers; knitters, "lady hose;" knitters, rib, hosiery; and knitters, web or tu be, underwear.

² Employees in this occupation were reported as knitters for 1890 to 1907.

³ Data for 1890 to 1906 not available; computed with 1907=100.0.

⁴ Data for 1890 to 1909 not available; computed with 1910=100.0.

RELATIVE NOMINAL FULL-TIME HOURS PER WEEK AND RELATIVE RATES OF WAGES PER HOUR IN THE PRINCIPAL OCCUPATIONS IN HOSIERY AND KNIT GOODS MANUFACTURING, 1890 TO 1912—Concluded.

Year.	Ribbers, female.		Seamers, underwear, female.		Welters, female.		Winders, female.	
	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.	Relative nominal full-time hours per week.	Relative rate of wages per hour.
Average, 1890-1899 ..	100.0	100.0	.....	.....	.....	.....	.....	.....
1890.....	100.0	100.5	.....	.....	.....	.....	.....	.....
1891.....	100.0	112.3	.....	.....	.....	.....	.....	.....
1892.....	100.0	103.1	.....	.....	.....	.....	.....	.....
1893.....	100.0	103.4	.....	.....	.....	.....	.....	.....
1894.....	100.0	91.8	.....	.....	.....	.....	.....	.....
1895.....	100.0	98.8	.....	.....	.....	.....	.....	.....
1896.....	100.0	87.2	.....	.....	.....	.....	.....	.....
1897.....	100.0	92.0	.....	.....	.....	.....	.....	.....
1898.....	100.0	96.4	.....	.....	.....	.....	.....	.....
1899.....	100.0	114.4	.....	.....	.....	.....	.....	.....
1900.....	100.0	110.1	.....	.....	.....	.....	.....	.....
1901.....	100.0	112.8	.....	.....	.....	.....	.....	.....
1902.....	100.0	120.9	.....	.....	.....	.....	.....	.....
1903.....	100.0	119.0	.....	.....	.....	.....	.....	.....
1904.....	100.0	117.3	.....	.....	.....	.....	.....	.....
1905.....	100.0	122.6	.....	.....	.....	.....	.....	.....
1906.....	100.0	127.0	.....	.....	.....	.....	.....	.....
1907.....	99.7	137.6	¹ 100.0	¹ 100.0	.....	.....	¹ 100.0	¹ 100.0
1908.....	(²)	(²)	¹ 99.8	¹ 108.4	.....	.....	¹ 99.8	¹ 115.8
1909.....	.....	.....	¹ 100.0	¹ 109.2	.....	.....	¹ 99.6	¹ 108.0
1910.....	.....	.....	¹ 97.6	¹ 99.5	³ 100.0	³ 100.0	¹ 97.7	¹ 106.4
1911.....	.....	.....	¹ 97.6	¹ 98.7	³ 100.0	³ 103.7	¹ 97.2	¹ 108.5
1912.....	.....	.....	¹ 96.8	¹ 105.0	³ 97.7	³ 117.1	¹ 94.8	¹ 116.7

¹ Data for 1890 to 1906 not available; computed with 1907=100.0.
² Occupation discontinued.
³ Data for 1890 to 1909 not available; computed with 1910=100.0.

The most significant facts concerning nominal full-time working hours per week and rates of wages per hour in each of the principal occupations of the industry are shown for 1907 to 1912, or for such of those years as data are available, in the table which follows.

The data for the several years 1907 to 1911 were secured in 1911. Owing to the difficulty of finding records for past years and also owing to the great amount of work involved, data for 1907 to 1909 were secured from only a limited number of establishments. Data for 1910 and 1911 were obtained from a larger number of establishments.

In 1912 data were gathered for the year 1912 from the establishments that furnished data for 1911, and at the same time some additional data relating to 1911 and 1912 were gathered from a few new establishments, the scope of the work being enlarged to include a greater number of establishments.

To permit a comparison of data from year to year the data for identical establishments are grouped together. A true comparison can be made, of course, only of data from the same establishments. Data for 1912 from new establishments are included in this tabulation only when it was possible to get like data for 1911 from the same establishments. The data are for the pay-roll period ending nearest May 15 each year, except for a very few establishments in which conditions in May were particularly abnormal.

AVERAGE NOMINAL FULL-TIME HOURS OF WORK PER WEEK AND AVERAGE RATES OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN HOSIERY AND KNIT GOODS MANUFACTURING, 1907 TO 1912.

[The establishments set opposite each bracketed group of years are identical.]

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.
Boarders, male:				
8 establishments.....	/ 1907	203	58.4	\$0.2180
	1908	210	58.1	.2111
	1909	220	58.2	.2037
	1910	237	57.1	.2186
33 establishments.....	/ 1910	808	57.0	.1926
	\ 1911	862	57.0	.1893
32 establishments.....	/ 1911	869	56.9	.1891
	\ 1912	959	55.6	.2173
Buttonhole makers, underwear, female:				
21 establishments.....	/ 1910	178	57.8	.1624
	\ 1911	167	58.0	.1663
27 establishments.....	/ 1911	191	58.0	.1640
	\ 1912	194	57.1	.1672
Button sewers, underwear, female:				
21 establishments.....	/ 1910	159	58.1	.1490
	\ 1911	151	58.3	.1471
27 establishments.....	/ 1911	171	58.2	.1457
	\ 1912	182	57.2	.1471
Cutters, hand, underwear, male:				
12 establishments.....	/ 1910	130	59.3	.2168
	\ 1911	123	58.9	.2236
18 establishments.....	/ 1911	138	58.6	.2265
	\ 1912	162	58.6	.2136
Cutters, hand, underwear, female:				
4 establishments.....	/ 1907	82	58.6	.1441
	1908	90	57.9	.1570
	1909	98	58.0	.1448
	1910	96	56.5	.1436
10 establishments.....	/ 1910	182	56.5	.1374
	\ 1911	154	56.5	.1391
14 establishments.....	/ 1911	161	56.4	.1387
	\ 1912	192	54.7	.1527
Finishers, underwear, female:				
5 establishments.....	/ 1907	555	58.7	.1579
	1908	516	58.6	.1508
	1909	533	58.7	.1480
	1910	519	57.8	.1541
23 establishments.....	/ 1910	1,443	57.9	.1500
	\ 1911	1,439	57.8	.1497
27 establishments.....	/ 1911	1,533	57.9	.1479
	\ 1912	1,715	56.9	.1533
Folders, female:				
7 establishments.....	/ 1907	170	58.4	.1424
	1908	165	58.2	.1369
	1909	134	58.5	.1536
	1910	137	57.2	.1557
45 establishments.....	/ 1910	626	57.8	.1275
	\ 1911	611	57.7	.1267
51 establishments.....	/ 1911	653	57.6	.1283
	\ 1912	730	56.4	.1314
Inspectors and menders, underwear, female:				
22 establishments.....	/ 1910	615	57.6	.1237
	\ 1911	615	57.8	.1249
24 establishments.....	/ 1911	658	57.6	.1239
	\ 1912	624	57.0	.1278
Knitters, footers or toppers, male:				
4 establishments.....	/ 1910	152	58.2	.1359
	\ 1911	133	58.0	.1400
12 establishments.....	/ 1911	172	57.8	.1465
	\ 1912	209	57.5	.1576

WAGES AND HOURS OF LABOR, 1890 TO 1912—KNIT GOODS. 79

AVERAGE NOMINAL FULL-TIME HOURS OF WORK PER WEEK AND AVERAGE RATES OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN HOISERY AND KNIT GOODS MANUFACTURING, 1907 TO 1912—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.
Knitters, footers or toppers, female:				
3 establishments.....	{ 1907	154	58.1	\$. 1234
	1908	175	58.1	. 1337
	1909	145	58.1	. 1332
	1910	116	56.1	. 1328
32 establishments.....	{ 1910	1,851	57.5	. 1213
	1911	1,740	57.5	. 1232
33 establishments.....	{ 1911	2,174	57.2	. 1348
	1912	2,208	56.1	. 1376
Knitters, "lady hose," male:				
12 establishments.....	{ 1910	235	57.6	. 1746
	1911	220	57.4	. 1753
13 establishments.....	{ 1911	215	57.4	. 1757
	1912	278	56.0	. 1895
Knitters, "lady hose," female:				
12 establishments.....	{ 1910	277	56.2	. 1540
	1911	260	56.2	. 1557
11 establishments.....	{ 1911	252	55.8	. 1615
	1912	269	54.9	. 1852
Knitters, rib, hosiery, male:				
17 establishments.....	{ 1910	55	56.6	. 1992
	1911	47	56.5	. 1996
21 establishments.....	{ 1911	92	57.3	. 1892
	1912	86	56.4	. 2004
Knitters, rib, hosiery, female:				
14 establishments.....	{ 1910	49	57.4	. 1299
	1911	38	57.6	. 1520
13 establishments.....	{ 1911	45	57.1	. 1473
	1912	52	55.1	. 1440
Knitters, web or tube, underwear, male:				
4 establishments.....	{ 1907	101	58.5	. 2194
	1908	107	58.3	. 2087
	1909	110	58.5	. 2131
	1910	100	57.0	. 2135
14 establishments.....	{ 1910	212	58.0	. 2012
	1911	209	58.1	. 2153
22 establishments.....	{ 1911	253	57.9	. 2111
	1912	261	57.0	. 2273
Knitters, web or tube, underwear, female:				
3 establishments.....	{ 1907	101	58.3	. 1433
	1908	113	58.4	. 1448
	1909	109	58.5	. 1316
	1910	96	56.9	. 1477
16 establishments.....	{ 1910	245	57.4	. 1721
	1911	205	57.0	. 1636
19 establishments.....	{ 1911	316	56.9	. 1618
	1912	181	55.4	. 1352
Loopers, female:				
9 establishments.....	{ 1907	610	58.4	. 1463
	1908	637	58.2	. 1279
	1909	603	58.2	. 1385
	1910	582	57.5	. 1389
43 establishments.....	{ 1910	2,013	57.3	. 1326
	1911	1,904	57.3	. 1293
44 establishments.....	{ 1911	2,089	57.1	. 1343
	1912	2,262	56.1	. 1459
Menders, fine, hosiery, female:				
8 establishments.....	{ 1907	112	58.5	. 1446
	1908	132	57.9	. 1324
	1909	115	57.8	. 1313
	1910	110	57.5	. 1375
30 establishments.....	{ 1910	385	57.2	. 1320
	1911	399	57.2	. 1342
27 establishments.....	{ 1911	359	57.2	. 1344
	1912	297	55.6	. 1382

AVERAGE NOMINAL FULL-TIME HOURS OF WORK PER WEEK AND AVERAGE RATES OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN HOSIERY AND KNIT GOODS MANUFACTURING, 1907 TO 1912—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.
Menders, rough, hosiery, female:				
5 establishments.....	{ 1907	147	58.4	\$0.1108
	1908	134	58.3	.1260
	1909	123	58.4	.1276
	1910	122	57.5	.1216
29 establishments.....	{ 1910	704	57.0	.1219
	1911	648	57.0	.1225
30 establishments.....	{ 1911	728	56.9	.1318
	1912	681	56.4	.1409
Pressers, male:				
7 establishments.....	{ 1907	32	59.3	.1910
	1908	35	59.2	.1670
	1909	40	59.1	.1714
	1910	33	58.9	.1850
34 establishments.....	{ 1910	155	58.0	.1774
	1911	151	58.0	.1856
33 establishments.....	{ 1911	151	57.7	.1874
	1912	157	56.8	.1946
Press hands, female:				
2 establishments.....	{ 1907	100	58.0	.1188
	1908	107	58.0	.1182
	1909	115	58.0	.1055
	1910	94	56.0	.1281
13 establishments.....	{ 1910	207	57.7	.1186
	1911	208	57.5	.1183
12 establishments.....	{ 1911	196	56.5	.1140
	1912	206	55.8	.1198
Seamers, underwear, female:				
5 establishments.....	{ 1907	390	58.6	.1443
	1908	426	58.5	.1564
	1909	439	58.6	.1576
	1910	433	57.2	.1436
23 establishments.....	{ 1910	1,181	57.8	.1429
	1911	1,197	58.0	.1417
27 establishments.....	{ 1911	1,280	58.1	.1411
	1912	1,265	57.6	.1501
Welters, female:				
23 establishments.....	{ 1910	250	57.6	.1205
	1911	282	57.6	.1250
23 establishments.....	{ 1911	288	57.4	.1272
	1912	303	56.1	.1437
Winders, female:				
6 establishments.....	{ 1907	266	58.8	.1403
	1908	276	58.7	.1625
	1909	262	58.6	.1515
	1910	276	57.5	.1492
38 establishments.....	{ 1910	1,020	58.0	.1292
	1911	960	57.9	.1318
45 establishments.....	{ 1911	1,001	57.8	.1302
	1912	982	56.4	.1400

EXPLANATION OF SCOPE AND METHOD.

This report on hosiery and knit goods manufacturing includes establishments engaged primarily in the manufacture of hosiery or underwear. No data are included from establishments whose main products are mittens, gloves, caps, mufflers, athletic goods, shawls, specialties, etc.

The number of establishments for which data concerning rates of wages per hour and nominal full-time hours of work per week were secured has varied considerably during the 23-year period, as follows:

1890 to 1903.....	8 identical establishments.
1903 and 1904.....	9 identical establishments.
1904 and 1905.....	22 identical establishments.
1905 and 1906.....	25 identical establishments.
1906 and 1907.....	30 identical establishments.
1907 to 1910.....	15 identical establishments.
1910 and 1911.....	62 identical establishments.
1911 and 1912.....	62 identical establishments.

As before stated, the data for 1907 to 1911 were secured in 1911, and the number of identical establishments included for the full period 1907 to 1910 was limited owing to the difficulty in finding establishments which had preserved complete records for those years.

In order that the data from year to year may be entirely comparable, it is necessary that information be secured from identical establishments; therefore when in 1911 the number of establishments was increased to 62 the Bureau secured data for 1910 also from all establishments added, thus providing for an exact comparison of the two years 1910 and 1911.

In selecting the establishments from which to secure data the Bureau undertook to represent all States in which hosiery and knit goods manufacturing is of material importance, the measure of importance being the number of employees as reported by the United States Census of Manufactures, 1905. In selecting establishments in 1912 every State having 1,850 or more employees in the industry, and two having less than that number, according to the United States Census of Manufactures in 1905, is represented. The table which follows shows by States the number of employees in the hosiery and knit goods manufacturing industry, as given in the reports of the United States Census Office for 1910 and 1905; the total number on the pay roll in the establishments from which the Bureau secured data in 1912; and the number in the selected occupations and for whom data were secured in 1912. Data were secured from the pay roll ending nearest May 15, except for a very few establishments where conditions in May were particularly abnormal.

The census figures for 1910 were not available at the time the work for 1911 and 1912 was planned, and therefore the establishments selected, as already stated, were distributed by States according to the census of 1905. The relative importance, however, of the various States, as measured by the number of employees in this industry, did not change materially during the five years from 1905 to 1910.

TOTAL NUMBER OF EMPLOYEES IN HOSIERY AND KNIT GOODS MANUFACTURING AND NUMBER OF EMPLOYEES IN ESTABLISHMENTS FROM WHICH DATA WERE SECURED IN 1912.

State.	Number of employees reported by United States Census Office.		Establishments furnishing information to the Bureau of Labor Statistics in 1912.		
	1910	1905	Number of establishments.	Number of employees—	
				On pay roll.	For whom data were secured.
New York.....	35,613	29,251	16	7,167	3,336
Pennsylvania.....	38,133	28,143	13	6,363	3,469
Massachusetts.....	9,935	8,110	3	4,864	2,705
Wisconsin.....	4,263	4,224	4	1,381	864
Connecticut.....	3,338	3,594	3	1,052	609
Michigan.....	2,537	3,085	3	716	472
North Carolina.....	5,151	2,944	4	1,265	711
New Hampshire.....	3,067	2,790	3	977	522
Ohio.....	3,142	2,490	5	730	439
Illinois.....	2,885	2,245	3	585	311
Georgia.....	2,743	1,935	3	896	522
Other States ¹	17,901	14,904	2	1,766	495
Total.....	128,708	103,715	62	27,762	14,455

¹ Includes States having less than 3,200 employees (except as entered in detail) in 1910 and less than 1,850 in 1905.

According to both the census of 1905 and the census of 1910, more than 85 per cent of the total number of employees in the industry are found in the States in which the establishments furnishing information to the Bureau of Labor Statistics are located.

The number of employees on the pay rolls of the establishments from which the Bureau secured the 1912 data was equal to 21.6 per cent of the total in the industry in 1910 as reported by the United States Census Office, and the number of employees for whom the Bureau secured detailed information in 1912 was equal to 11.2 per cent of the total in the industry in 1910.

All information included in this report was secured from pay rolls of the various establishments by agents of the Bureau of Labor Statistics.

DESCRIPTION OF THE PRINCIPAL PRODUCTIVE OCCUPATIONS.

The data presented in this bulletin were obtained from establishments whose sole or main products are hosiery or underwear or both. Data were not taken from factories whose main products are sweaters, mittens, gloves, caps, mufflers, bathing suits, shawls, scarfs, or other specialties. Figures are shown for 19 occupations: Seven are common to the making of both hosiery and underwear; 5 pertain to hosiery making only, and 7 to underwear making only. While some of the mills do their own spinning and nearly all do dyeing, figures are not shown for such departments. The wages of spinning and dyeing are fairly covered in an earlier bulletin on the cotton and woolen industries.

The principal departments or subdivisions in order of work in a hosiery mill are usually winding, knitting, looping, mending, boarding, pressing, and folding. In an underwear mill the principal departments in order are usually winding, knitting, cutting, seaming, finishing, boarding, pressing, and folding.

The occupations for which data are presented in this report are:

Boarders, male.	Knitters, "lady hose," female.
Buttonhole makers, underwear, female.	Knitters, rib, hosiery, male.
Button sewers, underwear, female.	Knitters, rib, hosiery, female.
Cutters, hand, underwear, male.	Knitters, web or tube, underwear, male.
Cutters, hand, underwear, female.	Knitters, web or tube, underwear, female.
Finishers, underwear, female.	Loopers, female.
Folders, female.	Menders, fine, hosiery, female.
Inspectors and menders, underwear, female.	Menders, rough, hosiery, female.
Knitters, footers or toppers, hosiery, male.	Pressers, male.
Knitters, footers or toppers, hosiery, female.	Press hands, female.
Knitters, "lady hose," male.	Seamers, underwear, female.
	Welters, female.
	Winders, female.

Hosiery and knit goods manufacturing is to a very great extent a woman's industry. Many occupations are filled entirely or at least mainly by females.

Of the 19 occupations reported, 12 are so largely filled by women that wages are presented for females only. In 5 of the occupations the number of each sex warrants the presentation for each sex separately. Two of the occupations, boarders and pressers, require such heavy labor that men are employed almost exclusively.

BOARDERS.

While the occupation occurs in the manufacture of both hosiery and underwear, it applies mainly to hosiery. Practically all hosiery is boarded, while comparatively little underwear is boarded. The hose boarder receives the hose damp from the dye house. He draws the hose by hand, while yet damp, over a board shaped to the outline of the human foot and leg. When he has drawn the hose smooth over the board, he sets several boards in a rack and puts the rack in a hot drying kiln. When the hose are dry he takes the rack from the kiln and removes the hose from the boards. The hose keep the shape given by the board. While racks of hose are drying others are being filled. Underwear boarding is similar to hosiery boarding. The board is shaped to the outline of the human body. Boarding is hard, hot work, and is always done by men.

BUTTONHOLE MAKERS, UNDERWEAR.

The operator uses a special power sewing machine which works and also cuts the buttonhole. The operator usually marks the place

for the buttonhole, but the marking may be done by another person. Women are usually employed on this work.

BUTTON SEWERS, UNDERWEAR.

The operator uses a special power machine. The button is placed in position in the machine by hand, and the operation of the machine sews the button on the garment. Usually the operator marks the place for the button. The work is usually done by women.

CUTTERS, HAND, UNDERWEAR.

The material comes to the cutter in the form of a long flat tube or double thick web, or, in other words, a cylinder flattened down, rolled in a bundle. A portion of the web is spread on a long table. The cutter examines the material for defects, and then cuts off a section of this web to garment length, lays a pattern on the section, marks the pattern on the goods, and cuts out the garment with a pair of shears.

Or the process may be varied. Several sections of garment length may be put in a pile and all cut at one time with a large hand-operated knife worked up and down vertically through a slot in the table.

Both men and women are employed on this work. In some mills machines are used to cut several thicknesses at one time, but the wage data shown in this report do not include the operators of such machines.

FINISHERS, UNDERWEAR.

After the garment has been sewed together by the seamer and the seam has been covered by the cover seamer, the garment is ready for the finisher. The finisher uses a power sewing machine. This work consists in stitching straps, suspender tapes, and bands on drawers, stitching facings on shirts, and also various reseaming operations to strengthen or ornament the garment. Women are employed at this operation.

FOLDERS.

The folder spreads the finished article on the worktable and folds it to the size desired for packing in a box. It is a hand operation. The work is usually done by women, who generally stand at their work. The folder in some factories may also inspect and pack.

INSPECTORS AND MENDERS, UNDERWEAR.

The occupations of inspecting and mending underwear are here combined, for the reason that in a considerable number of mills employees are engaged on both interchangeably. Inspecting in this case consists of looking the garment over for defects in work or for holes

in material, and cutting off threads or little pieces of material, such as tapes and bands, etc. The mending done on underwear is very similar to that on hosiery, except that no forms are used upon which to place the garment. All imperfections—holes in the material, etc.—are mended, so that the garment may be salable as a “first” and not as a “second.” Mending is done by hand with a needle and yarn. Women are always employed at this work.

KNITTERS, FOOTERS, OR TOPPERS, HOSIERY.

This knitter is sometimes called a footer, a topper, or a transfer knitter. The operator starts his work with a section of ribbing previously knit on a rib machine. This section may be but 3 or 4 inches long, as placed at the top of men's or children's hose, or it may be a leg length of children's hose. The knitter first sets up the section of ribbing stitch by stitch, by hand, on the quills of a cylinder fitted to his machine, and transfers the stitching from the quills to the needles of his machine. The machine is then started. Automatically it knits onto the ribbing the remainder of the leg and the foot of the hose. The setting of the rib top on the quills preparatory to knitting is done in some instances by a boy or girl helper. A knitter can operate from six to nine machines when the quilling is done by a helper; doing both the transferring and the knitting, the knitter can operate from one to three machines. The machine knits the hose complete and seamless, except an opening across the toe, which must be looped together by another operation. Women greatly outnumber men in this occupation. This occupation is not found in the making of women's hose.

All knitters in this and other operations receive their yarn on cones. Their duties are to prepare the machines for work and see that they run properly and produce a perfect fabric, to tie broken yarn, and to replace empty cones, etc.

KNITTERS, “LADY HOSE.”

This is a term quite generally applied to persons operating machines knitting women's seamless hosiery. The operation is also known as string work. The operator can attend from 10 to 16 machines, which knit the hose from the top to the toe, one hose after another, automatically. The machine drops and picks up stitches to knit the heel, and, after knitting the foot, again drops and picks up stitches to form the toe. The machine knits the hose complete and seamless, except an opening across the toe, which must be looped together by another operation. Men and women are found in this occupation in about equal numbers.

KNITTERS, RIB HOSIERY.

This knitter operates a machine which knits the rib that is used later as the top of men's and children's hose. One person can attend 20 or more machines. The rib is knit as a long cylinder or tube. Stitches are dropped at intervals to indicate where the rib is to be cut later in lengths for hose tops. Both men and women are employed on these machines. These tops when cut go to a knitter, known as a footer or topper.

KNITTERS, WEB OR TUBE, UNDERWEAR.

The knitting machines are cylindrical in shape and vary in size according to the size of garment to be made from the knit fabric. They knit a tube or cylinder which, when laid flat, forms a continuous piece of goods of double thickness and as wide as the garment to be cut therefrom. The knitter attends from 10 to 15 machines. These machines are either of the latch or spring needle type. The spring needle is one used for light or what is known as flat work; the latch needle is used for the heavier or rib work, which is more elastic and will stretch more than the flat fabric. In all mills it was not possible to separate the latch and spring needle knitters. Usually they do not work interchangeably, but in several mills where they have a few of each class of machines an operator can run either machine. Both men and women are employed at these machines.

LOOPERS.

In hosiery mills this operation consists of looping together the open edges at the toe of the hose as left to this extent unfinished by the knitter. Each edge is set up, stitch by stitch, by hand, on the points of a looping machine, stitches exactly opposite in the opening being placed on the same point. The open edges are then fastened together by the machine. This work requires care and nimble fingers and it takes some time to learn to become an expert operator. Each machine requires an operator. This operation is necessary whether the hose was knit by a footer or topper or a "lady hose" knitter. Females are usually employed on this work.

In an underwear factory this operation consists of looping cuffs to the sleeves of shirts and the ankles of drawers, and in a few cases attaching sleeves to shirts. Mills generally, however, sew on these parts rather than loop them.

MENDERS, FINE, HOSIERY.

This work is performed after the hose has been dyed, boarded, and pressed. It consists of examining the hose and correcting by hand with needle and yarn the little faults disclosed by such inspection. The work is done by women. Pairing is sometimes done in connection,

MENDERS, ROUGH, HOSIERY.

This work, sometimes termed first mending or white mending, is usually performed next after the hose has been looped. The hose is first stretched over a board shaped like a leg and foot. The mender examines the hose and corrects the defects found, by hand, using a needle and yarn.

PRESSERS.

Both hosiery and underwear are pressed to give them a smooth finished appearance. Generally the presser receives the hosiery or underwear after they have been piled for pressing by a press hand. The presser places the pile of garments in the press and removes the pile of garments when sufficiently pressed and returns it to the press hand. This is heavy work and is always done by men. In some mills the presser also does the work of the press hand, which is described below. The presses are of various kinds, running from the old-style hand lever or screw press to the modern power steam or hydraulic press.

PRESS HANDS.

Press hands, usually women, lay up the hose or underwear preparatory to pressing and strip out the garments after they have been pressed.

In laying up hose several hose are spread on a large pasteboard, and a pile built up of alternate layers of pasteboard and hose.

In laying up underwear the garment is put on a pasteboard, another board is laid on and the protruding arms of the shirt or legs of the drawers are folded over, and a pile made of alternate layers of pasteboards and garments. The piles are laid up as high as can be handled by the presser, who receives the pile from the press hands and puts it on the press.

After being pressed a sufficient time the piles of hosiery or underwear are returned to the press hands, who remove the garments from between the pasteboards.

SEAMERS, UNDERWEAR.

This term is here used to include cover seamers also, as in many mills the operators work interchangeably. The operators, usually women, use power sewing machines. The seamer receives the parts of the garment from the cutter and stitches them together. The cover seamer then takes the garment and with a double-needle machine runs over the same seams. This operation covers and strengthens the seam. Other terms applied to this work are felling, cannoning, double needling, etc.

WELTERS.

This is a sewing machine operation also known as hemming. A power machine is used. The tops of stockings and bottoms of undershirts are turned back and stitched. This prevents raveling and gives strength to the top of the stocking and a finish to the shirt. Women usually do this work.

WINDERS.

Winders operate machines that wind yarn onto cones for the knitting machines. The cones hold from 2 to 3½ pounds of yarn. The winding machine brushes out knots and the tension reveals weak spots in the yarn by breaking it. From 18 to 24 cones are attended by one person, who sees that the machines work properly, puts on and removes bobbins and cones, and ties breaks in the yarn. Winding is usually done by women.

EXPLANATION OF TABLES.

This report includes one general table covering the 6-year period, 1907 to 1912, and two general tables covering the 3-year period, 1910 to 1912, as follows:

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

Table II.—Average rates of wages per hour and average and classified nominal full-time hours of work per week, in each year, by States, 1910 to 1912.

Table III.—Average rates of wages per hour and average and classified nominal full-time hours of work per week, in each State, by years, 1910 to 1912.

Table I.—Average rates of wages per hour and average and classified nominal full-time hours of work per week in the United States, by years, 1907 to 1912 (pp. 91 to 97).—This table summarizes the data concerning rates of wages and nominal full-time hours of work secured from the whole number of establishments furnishing information. For each of the principal occupations—boarders; buttonhole makers, underwear; button sewers, underwear; cutters, hand, underwear; finishers, underwear; folders; inspectors and menders, underwear; knitters, footers or toppers, hosiery; knitters, “lady hose”; knitters, rib, hosiery; knitters, web or tube, underwear; loopers; menders, fine hosiery; menders, rough, hosiery; pressers; press hands; seamers, underwear; welters; and winders—data are shown, as far as available, for each of the six years, 1907 to 1912. Data are not shown for knitters of full-fashioned hosiery, for the reason given on page 72.

The first section of the table shows for each occupation the number of establishments from which data were secured, number of employees,

average rate of wages per hour, average nominal full-time hours per week, and number of employees under each classified number of nominal full-time working hours per week. The data as to time worked by individual employees paid on a piece basis were not sufficiently satisfactory in many establishments to warrant the presentation of classified rates of wages per hour. The second section of the table shows the per cent of employees under each classified number of nominal full-time working hours per week.

The data for years grouped together by brackets in the table are from identical establishments. As previously explained, exact comparison can be made from year to year only when the establishments compared are identical.

The relative nominal full-time hours per week and the relative rates of wages per hour for 1907 to 1912, shown on pages 74 to 77, are computed from the averages shown in this table. The method of computing the relatives can best be explained by using an illustration, thus: For male boarders the average nominal full-time hours per week in 8 establishments was 58.4 in 1907 and 58.1 in the same 8 establishments in 1908. The average in 1908 (58.1) was 99.49 per cent of the average (58.4) in 1907. Bulletin No. 77 (July, 1908) shows that, for nominal full-time hours per week for male boarders, the relative was 97.5 in 1907 (average for 1890-1899=100.0). The average nominal full-time hours for 1908 were then reduced to a comparison with the base period (average for 1890 to 1899=100.0) by computing 99.49 per cent of 97.5, which is 97.0. The same method was followed in computing the relative rate of wages per hour; the average in 1908 (\$0.2111) was 96.83 per cent of the average in 1907 (\$0.2180); the relative (average for 1890-1899=100.0) for 1907 as shown in Bulletin No. 77 was 148.6; and 96.83 per cent of 148.6 is 143.9, or the relative rate of wages per hour in 1908 if the average for 1890 to 1899 is the base or 100.0. In computing for this occupation the relatives for 1911, comparison was made of the data for 33 identical establishments and in computing the relatives for 1912 comparison was made of the data from 32 identical establishments.

*Table II.—Average rates of wages per hour and average and classified nominal full-time hours of work per week in each year, by States, 1910 to 1912 (pp. 98 to 106).—*This table affords an easy comparison of rates of wages per hour and nominal full-time hours of work per week in the several States. It shows for each of the principal occupations the average rate of wages per hour and the classified nominal full-time hours of work per week. Under each year, 1910 to 1912, or for such of those years as data are available, the data are shown for each of the States represented by any considerable number of employees. As only a limited amount of data was available for the years 1907 to 1909, a tabulation of such data by States was not deemed advisable.

*Table III.—Average rates of wages per hour and average and classified nominal full-time hours of work per week in each State, by years, 1910 to 1912 (pp. 107 to 112).—*This table affords an easy comparison of rates of wages per hour and nominal full-time hours of work per week in the years 1910 to 1912. It shows for each of the principal occupations the average rate of wages per hour and the classified nominal full-time hours of work per week. For each of the more important States in this industry the data are shown for each of the three years, 1910 to 1912, or for such of these years as data are available. As only a limited amount of data was available for the years 1907 to 1909, a tabulation of such data by States was not deemed advisable.

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

HOSIERY AND KNIT GOODS MANUFACTURING.

[The establishments set opposite each bracketed group of years are identical.]

NUMBER.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—								
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	
Boarders, male:													
8 establishments.....	{1907	203	\$. 2180	58.4						168	35		
	{1908	210	. 2111	58.1						196	14		
	{1909	220	. 2037	58.2						206	14		
	{1910	237	. 2186	57.1					127	96	14		
33 establishments.....	{1910	808	. 1926	57.0			5	29	397	239	138		
	{1911	862	. 1893	57.0			5	38	428	239	152		
32 establishments.....	{1911	869	. 1891	56.9			7	38	435	266	123		
	{1912	959	. 2173	58.6		2	4	307	454	66	126		
Buttonhole makers under- wear, female:													
21 establishments.....	{1910	178	. 1624	57.8				6	77	29	56	10	
	{1911	167	. 1663	58.0				5	65	27	61	9	
27 establishments.....	{1911	191	. 1640	58.0				5	72	30	75	9	
	{1912	194	. 1672	57.1		4		45	44	24	77		
Button sewers, under- wear, female:													
21 establishments.....	{1910	159	. 1490	58.1				2	65	26	58	8	
	{1911	151	. 1471	58.3				4	52	25	59	11	
27 establishments.....	{1911	171	. 1457	58.2				4	57	28	71	11	
	{1912	182	. 1471	57.2		5		38	38	26	75		
Cutters, hand, under- wear, male:													
12 establishments.....	{1910	130	. 2168	59.3					32	15	56	27	
	{1911	123	. 2236	58.9					37	14	58	14	
18 establishments.....	{1911	138	. 2265	58.6					48	19	57	14	
	{1912	162	. 2156	58.6				5	34	17	106		
Cutters, hand, under- wear, female:													
4 establishments.....	{1907	82	. 1441	58.6						59	23		
	{1908	90	. 1570	57.9					7	75	8		
	{1909	98	. 1448	58.0					7	79	12		
	{1910	96	. 1436	56.5					83		13		
10 establishments.....	{1910	182	. 1374	56.5					144	19	19		
	{1911	154	. 1391	56.5					122	14	18		
14 establishments.....	{1911	161	. 1387	56.4					129	14	18		
	{1912	192	. 1527	54.7		7		118	45		22		
Finishers, underwear, fe- male:													
5 establishments.....	{1907	555	. 1579	58.7						349	206		
	{1908	516	. 1508	58.6						350	166		
	{1909	533	. 1480	58.7						342	191		
	{1910	519	. 1541	57.8					315		204		
23 establishments.....	{1910	1,443	. 1500	57.9				23	599	263	509	49	
	{1911	1,439	. 1497	57.8				28	615	252	511	33	
27 establishments.....	{1911	1,533	. 1479	57.9				28	627	295	550	33	
	{1912	1,715	. 1533	56.9		50		468	301	313	583		
Folders, female:													
7 establishments.....	{1907	170	. 1424	58.4						136	34		
	{1908	165	. 1369	58.2						145	20		
	{1909	134	. 1556	58.5						102	32		
	{1910	137	. 1557	57.2					89	12	36		
45 establishments.....	{1910	626	. 1275	57.8				8	255	148	184	31	
	{1911	611	. 1267	57.7				8	259	149	179	16	
51 establishments.....	{1911	653	. 1283	57.6				4	8	268	159	198	16
	{1912	730	. 1314	56.4	19	6	17	176	193	75	244		

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

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

NUMBER—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—							
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
Inspectors and menders, underwear, female: 22 establishments.....	1910	615	\$0.1237	57.6				11	275	90	212	27
	1911	615	.1249	57.8				23	263	86	221	22
24 establishments.....	1911	658	.1239	57.6				23	266	106	241	22
	1912	624	.1278	57.0		16		171	111	99	227	
Knitters, footers or top- pers, hosiery, male: 4 establishments.....	1910	152	.1359	58.2					67		85	
	1911	133	.1400	58.0					65		68	
12 establishments.....	1911	172	.1465	57.8					77	41	54	
	1912	209	.1576	57.5				38	41	48	82	
Knitters, footers or top- pers, hosiery, female: 3 establishments.....	1907	154	.1234	58.1						145	9	
	1908	175	.1337	58.1						106	9	
	1909	145	.1332	58.1						136	9	
	1910	116	.1328	56.1					112		4	
32 establishments.....	1910	1,851	.1213	57.5			25	89	577	697	463	
	1911	1,740	.1232	57.5			26	86	510	653	465	
33 establishments.....	1911	2,174	.1348	57.2			34	86	729	925	400	
	1912	2,208	.1376	56.1			37	294	1,114	532	231	
Knitters, "lady hose," male: 12 establishments.....	1910	235	.1746	57.6				8	61	128	38	
	1911	220	.1753	57.4				8	65	122	25	
13 establishments.....	1911	215	.1757	57.4				8	67	115	25	
	1912	278	.1895	56.0				86	110	55	27	
Knitters, "lady hose," female: 12 establishments.....	1910	277	.1540	56.2				47	111	96	23	
	1911	260	.1557	56.2				49	104	82	25	
11 establishments.....	1911	252	.1615	55.8			10	49	104	82	7	
	1912	269	.1852	54.9			10	63	183	5	8	
Knitters, rib, hosiery, male: 17 establishments.....	1910	55	.1902	56.6				4	31	9	11	
	1911	47	.1996	56.5				5	25	9	8	
21 establishments.....	1911	92	.1802	57.3				5	23	54	10	
	1912	86	.2004	56.4				11	33	35	7	
Knitters, rib, hosiery, female: 14 establishments.....	1910	49	.1290	57.4			1		17	18	13	
	1911	38	.1520	57.6			1		12	13	12	
13 establishments.....	1911	45	.1473	57.1			3		12	23	7	
	1912	52	.1440	55.1			13	1	30	4	4	
Knitters, web or tube, underwear, male: 4 establishments.....	1907	101	.2194	58.5						74	27	
	1908	107	.2087	58.3						89	18	
	1909	110	.2131	58.5						84	26	
	1910	100	.2135	57.0					74		26	
14 establishments.....	1910	212	.2012	58.0					106	23	69	14
	1911	209	.2153	58.1					99	22	72	16
22 establishments.....	1911	253	.2111	57.9				16	105	26	90	16
	1912	261	.2273	57.0		1		74	58	24	104	

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

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

NUMBER—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—								
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	
Knitters, web or tube, underwear, female:	3 establishments.....	1907	101	\$0.1433	58.3						86	15	
		1908	113	.1448	58.4						89	24	
		1909	109	.1316	58.5						84	25	
		1910	96	.1477	56.9					75		21	
	16 establishments....	1910	245	.1721	57.4					145	44	42	14
		1911	205	.1636	57.0					130	35	36	4
19 establishments....	1911	216	.1618	56.9					3	138	35	36	4
	1912	181	.1352	55.4	14			77	35	27	28		
Loopers, female:	9 establishments.....	1907	610	.1403	58.4						446	164	
		1908	637	.1279	58.2						539	98	
		1909	603	.1385	58.2						507	96	
		1910	582	.1389	57.5					202	277	103	
	43 establishments....	1910	2,013	.1326	57.3			5	48	800	759	401	
		1911	1,904	.1293	57.3			7	66	734	722	375	
44 establishments....	1911	2,089	.1343	57.1			13	66	769	924	317		
	1912	2,262	.1459	56.1			12	12	486	1,021	413	318	
Menders, fine, hosiery, female:	8 establishments.....	1907	112	.1446	58.5						80	32	
		1908	132	.1324	57.9						130	2	
		1909	115	.1313	57.8						113	2	
		1910	110	.1375	57.5						22	87	1
	30 establishments....	1910	385	.1320	57.2			5	14	136	181	49	
		1911	399	.1342	57.2			5	15	156	155	68	
27 establishments....	1911	359	.1344	57.2			7	15	127	151	59		
	1912	297	.1382	55.6			5	105	125	13	49		
Menders, rough, hosiery, female:	5 establishments.....	1907	147	.1108	58.4						116	31	
		1908	134	.1260	58.3						112	22	
		1909	123	.1276	58.4						100	23	
		1910	122	.1216	57.5						55	40	27
	29 establishments....	1910	704	.1219	57.0			6	25	357	145	171	
		1911	648	.1225	57.0			5	23	325	147	148	
30 establishments....	1911	728	.1318	56.9			14	23	332	252	107		
	1912	681	.1409	56.4			12	114	273	174	108		
Pressers, male:	7 establishments.....	1907	32	.1010	59.3						12	20	
		1908	35	.1670	59.2						16	19	
		1909	40	.1714	59.1						19	21	
		1910	33	.1850	58.9						18	15	
	34 establishments....	1910	155	.1774	58.0				2	49	39	60	5
		1911	151	.1856	58.0				2	48	36	60	5
33 establishments....	1911	151	.1874	57.7				2	61	29	54	5	
	1912	157	.1946	56.8		6		10	75	10	55	1	
Press hands, female:	2 establishments.....	1907	100	.1188	58.0						100		
		1908	107	.1182	58.0						107		
		1909	115	.1055	58.0						115		
		1910	94	.1281	56.0						94		
	13 establishments....	1910	207	.1186	57.7				4	100	45	45	13
		1911	208	.1183	57.5				5	111	33	52	7
12 establishments....	1911	196	.1140	56.5				5	108	22	54	7	
	1912	206	.1198	55.8				96	49	12	50		

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

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

NUMBER—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—										
					Under 43.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	Over 60 and under 63.				
Seamers, underwear, female:															
5 establishments.....	1907	390	\$0.1443	58.6						269	121				
	1908	426	.1564	58.5						323	103				
	1909	439	.1576	58.6						307	132				
	1910	433	.1436	57.2					298		135				
23 establishments.....	1910	1,181	.1429	57.8				22	524	163	408	64			
	1911	1,197	.1417	58.0				28	508	149	453	59			
27 establishments.....	1911	1,280	.1411	58.1				28	514	170	509	59			
	1912	1,265	.1501	57.6		14		330	162	205	554				
Welters, female:															
23 establishments.....	1910	250	.1205	57.6				2	107	76	65				
	1911	282	.1250	57.6				3	122	80	77				
23 establishments.....	1911	288	.1272	57.4				3	135	92	58				
	1912	303	.1437	56.1				2	110	99	67				
Winders, female:															
6 establishments.....	1907	266	.1403	58.8						166	100				
	1908	276	.1625	58.7						177	99				
	1909	262	.1515	58.6						177	85				
	1910	276	.1492	57.5					172		104				
38 establishments.....	1910	1,020	.1292	58.0					411	243	246	119			
	1911	960	.1318	57.9					1	411	217	77			
45 establishments.....	1911	1,001	.1302	57.8						2	12	408	250	252	77
	1912	982	.1400	56.4				15		2	265	311	115	274	

PER CENT.

Boarders, male:													
8 establishments.....	1907	203	\$0.2180	58.4							82.8	17.2	
	1908	210	.2111	58.1							93.3	6.7	
	1909	220	.2037	58.2							93.6	6.4	
	1910	237	.2186	57.1						53.6	40.5	5.9	
33 establishments.....	1910	808	.1926	57.0			0.6	3.6	49.1	29.6	17.1		
	1911	862	.1893	57.0			.6	4.4	49.7	27.7	17.6		
32 establishments.....	1911	869	.1891	56.9			.8	4.4	50.1	30.6	14.2		
	1912	959	.2173	55.6		0.2	.4	32.0	47.3	6.9	13.1		
Buttonhole makers, female:													
21 establishments.....	1910	178	.1624	57.8				3.4	43.3	16.3	31.5	5.6	
	1911	167	.1663	58.0				3.0	38.9	16.2	36.5	5.4	
27 establishments.....	1911	191	.1640	58.0				2.6	37.7	15.7	39.3	4.7	
	1912	194	.1672	57.1		2.1		23.2	22.7	12.4	39.7		
Button sewers, female:													
21 establishments.....	1910	159	.1490	58.1				1.3	40.9	16.4	36.5	5.0	
	1911	151	.1471	58.3				2.6	34.4	16.6	39.1	7.3	
27 establishments.....	1911	171	.1457	58.2				2.3	33.3	16.4	41.5	6.4	
	1912	182	.1471	57.2		2.7		20.9	20.9	14.3	41.2		
Cutters, hand, underwear, male:													
12 establishments.....	1910	130	.2168	59.3					24.6	11.5	43.1	20.8	
	1911	123	.2236	58.9					30.1	11.4	47.2	11.4	
18 establishments.....	1911	138	.2265	58.6						34.8	13.8	41.3	10.1
	1912	162	.2156	58.6					3.1	21.0	10.5	65.4	

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

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

PER CENT—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—								
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	
Cutters, hand, under- wear, female:	4 establishments.....	1907	82	\$0.1441	58.6						72.0	28.0	
		1908	90	.1470	57.9				7.8	83.3	8.9		
		1909	98	.1448	58.0				7.1	80.6	12.2		
		1910	96	.1436	56.5				86.5		13.5		
	10 establishments.....	1910	182	.1374	56.5				79.1	10.4	10.4		
	1911	154	.1391	56.5				79.2	9.1	11.7			
14 establishments.....	1911	161	.1387	56.4					80.1	8.7	11.2		
	1912	192	.1527	54.7		3.6		61.5	23.4		11.5		
Finishers, underwear, fe- male:	5 establishments.....	1907	555	.1579	58.7						62.9	37.1	
		1908	516	.1508	58.6						67.8	32.2	
		1909	533	.1480	58.7						64.2	35.8	
		1910	519	.1541	57.8					60.7		39.3	
	23 establishments.....	1910	1,443	.1500	57.9			1.6	41.5	18.2	35.3	3.4	
	1911	1,439	.1497	57.8			1.9	42.7	17.5	35.5	2.3		
27 establishments.....	1911	1,533	.1479	57.9				1.8	40.9	19.2	35.9	2.2	
	1912	1,715	.1533	56.9		2.9		27.3	17.6	18.3	34.0		
Folders, female:	7 establishments.....	1907	170	.1424	58.4						80.0	20.0	
		1908	165	.1369	58.2						87.9	12.1	
		1909	134	.1556	58.5						76.1	23.9	
		1910	137	.1557	57.2					65.0	8.8	26.3	
	45 establishments.....	1910	626	.1275	57.8			1.3	40.7	23.6	29.4	5.0	
	1911	611	.1267	57.7			1.3	42.4	24.4	29.3	2.6		
51 establishments.....	1911	653	.1283	57.6				1.2	41.0	24.3	30.3	2.5	
	1912	730	.1314	56.4	2.6	.8	2.3	24.1	26.4	10.3	33.4		
Inspectors and menders, underwear, female:	22 establishments.....	1910	615	.1237	57.6				1.8	44.7	14.6	34.5	4.4
		1911	615	.1249	57.8				3.7	42.8	14.0	35.9	3.6
	24 establishments.....	1911	658	.1239	57.6				3.5	40.4	16.1	36.6	3.3
		1912	624	.1278	57.0		2.6		27.4	17.8	15.9	36.4	
	4 establishments.....	1910	152	.1359	58.2					44.1		55.9	
1911		133	.1400	58.0					48.9		51.1		
12 establishments.....	1911	172	.1465	57.8					44.8	23.8	31.4		
	1912	209	.1576	57.5				18.2	19.6	23.0	39.2		
Knitters, footers or top- pers, female:	3 establishments.....	1907	154	.1234	58.1						94.2	5.8	
		1908	175	.1337	58.1						94.9	5.1	
		1909	145	.1332	58.1						93.8	6.2	
		1910	116	.1328	56.1					96.6		3.4	
	32 establishments.....	1910	1,851	.1213	57.5		1.4	4.8	31.2	37.7	25.0		
	1911	1,740	.1232	57.5		1.5	4.9	29.3	37.5	26.7			
33 establishments.....	1911	2,174	.1348	57.2			1.6	4.0	33.5	42.5	18.4		
	1912	2,208	.1376	56.1			1.7	13.3	50.5	24.1	10.5		
Knitters, "lady hose," male:	12 establishments.....	1910	235	.1746	57.6				3.4	26.0	54.5	16.2	
		1911	220	.1753	57.4				3.6	29.5	55.5	11.4	
	13 establishments.....	1911	215	.1757	57.4				3.7	31.2	53.5	11.6	
		1912	278	.1895	56.0				30.9	39.6	19.8	9.7	

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

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

PER CENT—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—								
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	
Knitters "lady hose," female:													
12 establishments...	1910	277	\$0.1540	56.2				17.0	40.1	34.7	8.3		
	1911	260	.1557	56.2				18.8	40.0	31.5	9.6		
11 establishments...	1911	252	.1615	55.8			4.0	19.4	41.3	32.5	2.8		
	1912	269	.1852	54.9			3.7	23.4	68.0	1.9	3.0		
Knitters, rib, hosiery, male:													
17 establishments...	1910	55	.1992	56.6				7.3	56.4	16.4	20.0		
	1911	47	.1996	56.5				10.6	53.2	19.1	17.0		
21 establishments...	1911	92	.1892	57.3				5.4	25.0	58.7	10.9		
	1912	86	.2004	56.4				12.8	38.4	40.7	8.1		
Knitters, rib, hosiery, female:													
14 establishments...	1910	49	.1299	57.4			2.0		34.7	36.7	26.5		
	1911	38	.1520	57.6			2.6		31.6	34.2	31.6		
13 establishments...	1911	45	.1473	57.1				6.7		26.7	51.1	15.6	
	1912	52	.1443	55.1				25.0	1.9	57.7	7.7	7.7	
Knitters, web or tube, underwear, male:													
4 establishments...	1907	101	.2194	58.5							73.3	26.7	
	1908	107	.2087	58.3							83.2	16.8	
	1909	110	.2131	58.5							76.4	23.6	
	1910	100	.2135	57.0						74.0		26.0	
14 establishments...	1910	212	.2012	58.0					50.0	10.8	32.5	6.6	
	1911	209	.2153	58.1					47.4	10.5	34.4	7.7	
22 establishments...	1911	253	.2111	57.9				6.3	41.5	10.3	35.6	6.3	
	1912	261	.2273	57.0		0.4		28.4	22.2	9.2	39.8		
Knitters, web or tube, underwear, female:													
3 establishments...	1907	101	.1433	58.3							85.1	14.9	
	1908	113	.1448	58.4							78.8	21.2	
	1909	109	.1316	58.5							77.1	22.9	
	1910	96	.1477	56.9						78.1		21.9	
16 establishments...	1910	245	.1721	57.4					59.2	18.0	17.1	5.7	
	1911	205	.1636	57.0					63.4	17.1	17.6	2.0	
19 establishments...	1911	216	.1618	56.9				1.4	63.9	16.2	16.7	1.9	
	1912	181	.1352	55.4		7.7		42.5	19.3	14.9	15.5		
Loopers, female:													
9 establishments...	1907	610	.1403	58.4							73.1	26.9	
	1908	637	.1279	58.2							84.6	15.4	
	1909	603	.1385	58.2							84.1	15.9	
	1910	582	.1389	57.5					34.7	47.6	17.7		
43 establishments...	1910	2,013	.1326	57.3			.2	2.4	39.7	37.7	19.9		
	1911	1,904	.1293	57.3			.4	3.5	38.6	37.9	19.7		
44 establishments...	1911	2,089	.1343	57.1			.6	3.2	36.8	44.2	15.2		
	1912	2,262	.1459	56.1			.5	21.5	45.1	18.3	14.1		
Menders, fine, hosiery, female:													
8 establishments...	1907	112	.1446	58.5							71.4	28.6	
	1908	132	.1324	57.9							98.5	1.5	
	1909	115	.1313	57.8							98.3	1.7	
	1910	110	.1375	57.5					20.0	79.1	.9		
30 establishments...	1910	385	.1320	57.2			1.3	3.6	35.3	47.0	12.7		
	1911	399	.1342	57.2			1.3	3.8	39.1	38.8	17.0		
27 establishments...	1911	359	.1344	57.2			1.9	4.2	35.4	42.1	16.4		
	1912	297	.1382	55.6			1.7	35.4	42.1	4.4	16.5		

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

HOISERY AND KNIT GOODS MANUFACTURING—Continued.

PER CENT—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—						
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	Over 60 and under 63.
Menders, rough, hosiery, female:											
5 establishments	1907	147	\$0.1108	58.4						78.9	21.1
	1908	134	.1260	58.3						83.6	16.4
	1909	123	.1276	58.4						81.3	18.7
	1910	122	.1216	57.5					45.1	32.8	22.1
29 establishments	1910	704	.1219	57.0			.9	3.6	50.7	20.6	24.3
	1911	648	.1225	57.0			.8	3.5	50.2	22.7	22.8
30 establishments	1911	728	.1318	56.9			1.9	3.2	45.6	34.6	14.7
	1912	681	.1409	56.4			1.8	16.7	40.1	25.6	15.9
Pressers, male:											
7 establishments	1907	32	.1910	59.3						37.5	62.5
	1908	35	.1670	59.2						45.7	54.3
	1909	40	.1714	59.1						47.5	52.5
	1910	33	.1850	58.9						54.5	45.5
34 establishments	1910	155	.1774	58.0				1.3	31.6	25.2	38.7
	1911	151	.1856	58.0				1.3	31.8	23.8	39.7
33 establishments	1911	151	.1874	57.7				1.3	40.4	19.2	35.8
	1912	157	.1946	56.8		3.8		6.4	47.8	6.4	35.0
Press hands, female:											
2 establishments	1907	100	.1188	58.0						100.0	
	1908	107	.1182	58.0						100.0	
	1909	115	.1055	58.0						100.0	
	1910	94	.1281	56.0					100.0		
13 establishments	1910	207	.1186	57.7				1.9	48.3	21.7	21.7
	1911	208	.1183	57.5				2.4	53.4	15.9	25.0
12 establishments	1911	196	.1140	56.5				2.6	55.1	11.2	27.6
	1912	206	.1198	55.8				46.1	23.8	5.8	24.3
Seamers, underwear, female:											
5 establishments	1907	390	.1443	58.6						69.0	31.0
	1908	426	.1564	58.5						75.8	24.2
	1909	439	.1576	58.6						69.9	30.1
	1910	433	.1436	57.2					68.8		31.2
23 establishments	1910	1,181	.1429	57.8				1.9	44.4	13.8	34.5
	1911	1,197	.1417	58.0				2.3	42.4	12.4	37.8
27 establishments	1911	1,280	.1411	58.1				2.2	40.2	13.3	39.8
	1912	1,265	.1501	57.6		1.1		26.1	12.8	16.2	43.8
Welters, female:											
23 establishments	1910	250	.1205	57.6				.8	42.8	30.4	26.0
	1911	282	.1250	57.6				1.1	43.3	28.4	27.3
23 establishments	1911	288	.1272	57.4				1.0	46.9	31.9	20.1
	1912	303	.1437	56.1				.7	36.3	32.7	22.1
Winders, female:											
6 establishments	1907	266	.1403	58.8						62.4	37.6
	1908	276	.1625	58.7						64.1	35.9
	1909	262	.1515	58.6						67.6	32.4
	1910	276	.1492	57.5					62.3		37.7
38 establishments	1910	1,020	.1292	58.0			.1		40.3	23.8	24.1
	1911	960	.1318	57.9			.1		42.8	22.6	26.5
45 establishments	1911	1,001	.1302	57.8			.2	1.2	40.8	25.0	25.2
	1912	982	.1400	56.4		1.5	.2	27.0	31.7	11.7	27.9

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

BOARDERS, MALE.

Year and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—							
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
1910.												
Georgia.....	3	41	\$0.1428	58.5					12		29	
Massachusetts.....	3	223	.1906	56.0					223			
North Carolina.....	4	51	.1465	60.0							81	
Pennsylvania.....	8	215	.2204	57.6					30	183		
Wisconsin.....	2	49	.2318	55.0					49			
Other States.....	13	201	.1848	56.5			5	29	83	56	28	
Total.....	33	808	.1926	57.0			5	29	397	239	138	
1911.												
Georgia.....	3	58	.1321	58.5					9	22	27	
Massachusetts.....	3	227	.1870	56.0					227			
North Carolina.....	4	53	.1516	59.3					8		75	
Pennsylvania.....	8	224	.2142	57.8					16	208		
Wisconsin.....	2	64	.2377	55.0					64			
Other States.....	12	213	.1806	55.8			7	38	111	36	21	
Total.....	32	869	.1891	56.9			7	38	435	266	123	
1912.												
Georgia.....	3	62	.1456	58.5					8	27	27	
Massachusetts.....	3	273	.2164	54.0			273					
North Carolina.....	4	89	.1669	59.7					5		84	
Pennsylvania.....	8	280	.2492	55.2					280			
Wisconsin.....	2	69	.2589	55.0					69			
Other States.....	12	186	.2032	55.9			2	4	34	92	39	15
Total.....	32	959	.2173	55.6			2	4	307	454	66	126

BUTTONHOLE MAKERS, UNDERWEAR: FEMALE.

1910.												
New York.....	11	88	\$0.1632	59.4					14	14	50	10
Other States.....	10	90	.1616	56.3				6	63	15	6	
Total.....	21	178	.1624	57.8				6	77	29	56	10
1911.												
New York.....	16	107	.1658	59.5					13	15	70	9
Other States.....	11	84	.1616	56.2				5	59	15	5	
Total.....	27	191	.1640	58.0				5	72	30	75	9
1912.												
New York.....	16	108	.1712	58.8					22	9	77	
Other States.....	11	86	.1622	54.8			4		45	22	15	
Total.....	27	194	.1672	57.1			4		45	44	24	77

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

BUTTON SEWERS, UNDERWEAR: FEMALE.

Year and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—							
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
1910.												
New York.....	11	82	\$0.1539	59.6					11	9	54	8
Other States.....	10	77	.1437	56.5				2	54	17	4	
Total.....	21	159	.1490	58.1				2	65	26	58	8
1911.												
New York.....	16	102	.1461	59.6					12	11	68	11
Other States.....	11	69	.1452	56.4				4	45	17	3	
Total.....	27	171	.1457	58.2				4	57	28	71	11
1912.												
New York.....	16	111	.1499	58.7					26	10	75	
Other States.....	11	71	.1427	54.8		5		38	12	16		
Total.....	27	182	.1471	57.2		5		38	38	26	75	

CUTTERS, HAND, UNDERWEAR: MALE.

1910.													
New York.....	9	126	\$0.2118	59.4						32	12	55	27
Other States.....	3	4	.3734	58.5								1	
Total.....	12	130	.2168	59.3						32	15	56	27
1911.													
New York.....	11	123	.2236	59.0					37	16	56	14	
Other States.....	7	15	.2508	55.9					11	3	1		
Total.....	18	138	.2265	58.6					48	19	57	14	
1912.													
New York.....	11	140	.2072	59.1					22	13	105		
Other States.....	7	22	.2283	55.5				5	12	4	1		
Total.....	18	162	.2156	58.6				5	34	17	106		

FINISHERS, UNDERWEAR: FEMALE.

1910.													
Connecticut.....	3	84	\$0.1625	56.6						41	39	4	
New York.....	12	696	.1632	59.5						68	109	470	49
Pennsylvania.....	2	207	.1340	56.6						97	110		
Other States.....	6	456	.1347	56.2					23	393	5	35	
Total.....	23	1,443	.1500	57.9					23	599	263	509	49

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

FINISHERS, UNDERWEAR: FEMALE—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—							
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
1911.												
Connecticut.....	3	97	\$0.1644	56.6					51	39	7	
New York.....	15	716	.1590	59.6					41	141	501	33
Pennsylvania.....	3	208	.1365	56.5					101	107		
Other States.....	6	512	.1340	56.2				28	434	8	42	
Total.....	27	1,533	.1479	57.9				28	627	295	550	33
1912.												
Connecticut.....	3	123	.1552	54.8		50				67	6	
New York.....	15	852	.1597	58.9					161	114	577	
Pennsylvania.....	3	224	.1258	56.6					104	120		
Other States.....	6	516	.1540	54.2				468	36	12		
Total.....	27	1,715	.1533	56.9		50		468	301	313	583	

FOLDERS: FEMALE.

1910.												
Georgia.....	2	40	\$0.0951	60.0							40	
Massachusetts.....	3	112	.1597	56.0					112			
New York.....	12	188	.1235	59.5					18	53	86	31
North Carolina.....	4	38	.1197	60.0							38	
Pennsylvania.....	8	86	.1364	57.1					34	48	4	
Other States.....	16	162	.1149	56.5				8	91	47	16	
Total.....	45	626	.1275	57.8				8	255	148	184	31
1911.												
Georgia.....	3	59	.1093	58.4					11	19	29	
Massachusetts.....	3	123	.1408	56.0					123			
New York.....	16	184	.1302	59.3					21	45	102	16
North Carolina.....	4	50	.1085	59.9					1		49	
Pennsylvania.....	9	95	.1356	57.3					31	61	3	
Other States.....	16	142	.1251	56.3			4	8	81	34	15	
Total.....	51	653	.1283	57.6			4	8	268	159	198	16
1912.												
Georgia.....	3	68	.1009	58.7					9	21	38	
Massachusetts.....	3	143	.1370	54.0				143				
New York.....	16	205	.1427	58.5					57	13	135	
North Carolina.....	4	49	.1271	59.9					1		48	
Pennsylvania.....	9	86	.1350	55.5					77	9		
Other States.....	16	179	.1246	54.5	19	6	17	33	49	32	23	
Total.....	51	730	.1314	56.4	19	6	17	176	193	75	244	

INSPECTORS AND MENDERS, UNDERWEAR: FEMALE.

1910.													
New York.....	12	324	\$0.1288	59.2						65	46	186	27
Other States.....	10	291	.1180	55.8					11	210	44	26	
Total.....	22	615	.1237	57.6					11	275	90	212	27

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

INSPECTORS AND MENDERS, UNDERWEAR: FEMALE—Continued.

Year and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—							
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	Over 60 and under 63.	
1911.												
New York.....	15	358	\$0.1298	59.3					55	66	215	22
Other States.....	9	300	.1168	56.3				23	211	40	26	
Total.....	24	658	.1239	57.6				23	266	106	241	22
1912.												
New York.....	15	333	.1296	58.9					59	50	224	
Other States.....	9	291	.1258	55.0		16		171	52	49	3	
Total.....	24	624	.1278	57.0		16		171	111	99	227	

KNITTERS, FOOTERS OR TOPPERS, HOSIERY: FEMALE.

1910.												
Connecticut.....	3	189	\$0.1358	58.9						142	47	
Georgia.....	3	166	.0931	57.8					72	42	28	
Illinois.....	3	140	.1097	59.4						82	58	
Massachusetts.....	3	121	.1322	56.0					121			
Michigan.....	2	114	.1318	53.7			25	89				
New Hampshire.....	2	71	.1431	58.0						71		
North Carolina.....	3	170	.0715	60.0							170	
Pennsylvania.....	7	601	.1273	57.7					143	368	90	
Wisconsin.....	2	165	.1414	55.0					165			
Other States.....	4	114	.1312	56.4					76	34	4	
Total.....	32	1,851	.1213	57.5			25	89	577	697	463	
1911.												
Connecticut.....	2	106	.1528	58.9						58	48	
Georgia.....	3	107	.1051	57.5					37	42	28	
Illinois.....	3	164	.1034	59.5						78	86	
Massachusetts.....	3	84	.1211	56.0					84			
Michigan.....	2	112	.1414	53.7			26	86				
New Hampshire.....	3	114	.1402	58.0						114		
North Carolina.....	3	160	.0832	59.2					25		135	
Pennsylvania.....	8	1,003	.1503	57.3					311	591	103	
Wisconsin.....	2	175	.1396	55.0					175			
Other States.....	5	147	.1209	56.1			8		97	42		
Total.....	34	2,174	.1348	57.2			34	86	729	925	400	
1912.												
Connecticut.....	2	116	.1476	59.1						54	62	
Georgia.....	3	127	.1161	57.1					54	46	27	
Illinois.....	3	144	.1029	59.0						101	43	
Massachusetts.....	3	152	.1353	54.0					152			
Michigan.....	2	127	.1487	53.7			27	100				
New Hampshire.....	3	134	.1371	58.0						134		
North Carolina.....	3	120	.1027	59.1					21		99	
Pennsylvania.....	8	919	.1470	55.7					722	197		
Wisconsin.....	2	219	.1474	55.0					219			
Other States.....	5	150	.1306	54.7			10	42	98			
Total.....	34	2,208	.1376	56.1			37	294	1,114	532	231	

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

KNITTERS, "LADY HOSE": MALE.

Year and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—						
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
1910.											
New Hampshire.....	2	63	\$0.1733	58.0						63	
Pennsylvania.....	2	65	.1843	57.8						65	
Other States.....	8	107	.1695	57.1				8	61		38
Total.....	12	235	.1746	57.6				8	61	128	38
1911.											
New Hampshire.....	2	57	.1810	58.0						57	
Pennsylvania.....	2	58	.1880	57.9						58	
Other States.....	9	100	.1666	56.7				8	67		25
Total.....	13	215	.1757	57.4				8	67	115	25
1912.											
New Hampshire.....	2	55	.1650	58.0						55	
Pennsylvania.....	2	90	.2193	55.6					90		
Other States.....	9	133	.1795	55.4				86	20		27
Total.....	13	278	.1895	56.0				86	110	55	27

KNITTERS, "LADY HOSE": FEMALE.

1910.											
Pennsylvania.....	2	91	\$0.1427	57.6						91	
Wisconsin.....	2	91	.1643	55.0					91		
Other States.....	8	95	.1550	56.1				47	20	5	23
Total.....	12	277	.1540	56.2				47	111	96	23
1911.											
Pennsylvania.....	3	77	.1357	57.7						77	
Wisconsin.....	2	80	.1656	55.0					80		
Other States.....	6	95	.1791	54.9				10	49	24	7
Total.....	11	252	.1615	55.8				10	49	104	7
1912.											
Pennsylvania.....	3	86	.2045	55.1					86		
Wisconsin.....	2	97	.1729	55.0					97		
Other States.....	6	86	.1796	54.6				10	63	5	8
Total.....	11	269	.1852	54.9				10	63	183	8

KNITTERS, WEB OR TUBE, UNDERWEAR: MALE.

1910.												
New York.....	9	103	\$0.2129	59.7					9	19	61	14
Other States.....	5	109	.1902	56.3					97	4	8	
Total.....	14	212	.2012	58.0					106	23	69	14

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

KNITTERS, WEB OR TUBE, UNDERWEAR: MALE—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—							
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
1911.												
New York.....	14	122	\$0.2141	59.9					7	22	77	16
Other States.....	8	131	.2083	56.1				16	98	4	13	
Total.....	22	253	.2111	57.9				16	105	26	90	16
1912.												
New York.....	14	142	.2296	59.2					18	20	104	
Other States.....	8	119	.2245	54.4		1		74	40	4		
Total.....	22	261	.2273	57.0		1		74	58	24	104	

LOOPERS: FEMALE.

1910.												
Connecticut.....	4	132	\$0.1471	57.9					32	70	30	
Georgia.....	3	79	.0959	59.5					8		71	
Massachusetts.....	3	367	.1233	56.0				367				
New Hampshire.....	2	85	.1557	58.0						85		
New York.....	5	104	.1763	60.0							104	
North Carolina.....	4	145	.1004	60.0								145
Pennsylvania.....	11	717	.1332	57.4					137	558	22	
Wisconsin.....	3	144	.1501	55.2					138		6	
Other States.....	8	240	.1308	56.0			5	48	118	46	23	
Total.....	43	2,013	.1326	57.3			5	48	800	759	401	
1911.												
Connecticut.....	3	103	.1632	57.9					22	52	29	
Georgia.....	3	61	.1134	58.9					2	28	31	
Massachusetts.....	3	363	.1172	56.0				363				
New Hampshire.....	3	130	.1511	58.0						130		
New York.....	3	93	.1686	59.0					18		75	
North Carolina.....	4	140	.1073	59.5					15		125	
Pennsylvania.....	12	769	.1388	57.6					90	659	20	
Wisconsin.....	3	143	.1455	55.2					136		7	
Other States.....	10	287	.1265	55.6			13	66	123	55	30	
Total.....	44	2,089	.1343	57.1			13	66	769	924	317	
1912.												
Connecticut.....	3	90	.1707	57.6		12				48	30	
Georgia.....	3	75	.1364	58.7					6	33	36	
Massachusetts.....	3	404	.1413	54.0			404					
New Hampshire.....	3	129	.1429	58.0						129		
New York.....	3	89	.1689	58.4					28		61	
North Carolina.....	4	190	.1224	59.6					16		174	
Pennsylvania.....	12	828	.1497	55.6					688	140		
Wisconsin.....	3	182	.1602	55.0					182			
Other States.....	10	275	.1362	55.8			12	82	101	63	17	
Total.....	44	2,262	.1459	56.1		12	12	486	1,021	413	318	

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

MENDERS, FINE, HOSIERY: FEMALE.

Year and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—						
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
1910.											
Massachusetts.....	3	73	\$0.1405	56.0					73		
Pennsylvania.....	9	171	.1409	57.6					17	150	4
Other States.....	18	141	.1168	57.3			5	14	46	31	45
Total.....	30	385	.1320	57.2			5	14	136	181	49
1911.											
Massachusetts.....	3	86	.1247	56.0					86		
Pennsylvania.....	8	155	.1577	57.7					9	143	3
Other States.....	16	118	.1108	57.4			7	15	32	8	56
Total.....	27	359	.1344	57.2			7	15	127	151	59
1912.											
Massachusetts.....	3	82	.1316	54.0				82			
Pennsylvania.....	8	110	.1542	55.2					103	7	
Other States.....	16	105	.1267	57.3			5	23	22	6	49
Total.....	27	297	.1382	55.6			5	105	125	13	49

MENDERS, ROUGH, HOSIERY: FEMALE.

1910.											
Georgia.....	3	65	\$0.0822	58.7					17		48
Massachusetts.....	3	111	.1197	56.0					111		
North Carolina.....	2	68	.1082	60.0							68
Pennsylvania.....	4	75	.1372	57.1					24	49	2
Wisconsin.....	2	74	.1288	55.0					74		
Other States.....	15	311	.1286	56.8			6	25	131	96	53
Total.....	29	704	.1219	57.0			6	25	357	145	171
1911.											
Georgia.....	3	65	.1001	58.3					11	27	27
Massachusetts.....	3	107	.1176	56.0					107		
North Carolina.....	2	62	.1104	59.4					8		54
Pennsylvania.....	7	138	.1686	58.0					4	132	2
Wisconsin.....	2	79	.1210	55.0					79		
Other States.....	13	277	.1343	56.3			14	23	123	93	24
Total.....	30	728	.1318	56.9			14	23	332	252	107
1912.											
Georgia.....	3	72	.1074	58.4					10	29	33
Massachusetts.....	3	87	.1453	54.0				87			
North Carolina.....	2	61	.1064	59.4					7		54
Pennsylvania.....	7	158	.1739	56.2					102	56	
Wisconsin.....	2	92	.1327	55.0					92		
Other States.....	13	211	.1393	56.5			12	27	62	89	21
Total.....	30	681	.1409	56.4			12	114	273	174	108

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Continued.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

SEAMERS, UNDERWEAR: FEMALE.

Year and State.	Number of establishments.	Number of employees.	Average rate of wages per hour	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—							
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
1910.												
New York.....	12	642	\$0.1550	59.4					103	89	386	64
Pennsylvania.....	2	98	.1311	56.7					42	56		
Other States.....	9	441	.1279	56.1				22	379	18	22	
Total.....	23	1,181	.1429	57.8				22	524	163	408	64
1911.												
New York.....	16	741	.1494	59.5					87	111	484	59
Pennsylvania.....	2	92	.1115	56.3					51	41		
Other States.....	9	447	.1333	56.1				28	376	18	25	
Total.....	27	1,280	.1411	58.1				28	514	170	509	59
1912.												
New York.....	16	770	.1503	59.1					86	134	550	
Pennsylvania.....	2	97	.1287	59.3					49	48		
Other States.....	9	398	.1550	54.2		14		330	27	23	4	
Total.....	27	1,265	.1501	57.6		14		330	162	205	554	

WELTERS: FEMALE.

1910.												
Massachusetts.....	2	98	\$0.1102	56.0						98		
Pennsylvania.....	6	76	.1362	58.1						76		
Other States.....	15	76	.1182	59.3				2	9		65	
Total.....	23	250	.1205	57.6				2	107	76	65	
1911.												
Massachusetts.....	2	113	.1172	56.0					113			
Pennsylvania.....	7	92	.1405	57.7					12	80		
Other States.....	14	83	.1259	58.9				3	10	12	58	
Total.....	23	288	.1272	57.4				3	135	92	58	
1912.												
Massachusetts.....	2	106	.1452	54.0				106				
Pennsylvania.....	7	95	.1560	55.5					89	6		
Other States.....	14	102	.1308	58.8			2	4	10	19	67	
Total.....	23	303	.1437	56.1			2	110	99	25	67	

TABLE II.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1910 TO 1912—Concluded.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

WINDERS: FEMALE.

Year and State.	Number of establishments.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—							
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
1910.												
Connecticut.....	4	58	\$0.1331	57.2					23	27	8	
Massachusetts.....	3	233	.1249	56.0					233			
New York.....	11	390	.1416	69.0					40	45	186	119
Pennsylvania.....	8	177	.1225	57.5					32	139	6	
Other States.....	12	162	.1113	57.1			1		83	32	46	
Total.....	38	1,020	.1292	58.0			1		411	243	246	119
1911.												
Connecticut.....	3	47	.1310	57.1					20	19	8	
Massachusetts.....	3	233	.1259	56.0					233			
New York.....	13	343	.1465	69.0					17	41	213	77
Pennsylvania.....	10	188	.1167	57.6					30	153	5	
Other States.....	16	185	.1185	56.3			2	12	108	37	26	
Total.....	45	1,001	.1302	57.8			2	12	408	250	252	77
1912.												
Connecticut.....	3	44	.1379	55.8		15				18	11	
Massachusetts.....	3	229	.1336	54.0				229				
New York.....	13	367	.1518	58.4					109	16	242	
Pennsylvania.....	10	200	.1323	55.7					157	43		
Other States.....	16	142	.1276	56.3			2	36	45	38	21	
Total.....	45	982	.1400	56.4		15	2	265	311	115	274	

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

[The establishments set opposite each bracketed group of years are identical.]

Occupation, State, and number of establishments.	Year.	Number of employ-ees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—							
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
BOARDERS, MALE.												
Georgia:												
3 establishments.....	{1910 1911}	41 50	\$.1428 .1304	58.5 59.1					12 9		29 41	
3 establishments.....	{1911 1912}	58 62	.1321 .1456	58.5 58.5					9 8	22 27	27 27	
Massachusetts:												
3 establishments.....	{1910 1911}	223 227	.1906 .1870	56.0 56.0					223 227			
3 establishments.....	{1911 1912}	227 273	.1870 .2164	56.0 54.0			273		227			
North Carolina:												
4 establishments.....	{1910 1911}	81 85	.1465 .1494	60.0 60.0							81 85	
4 establishments.....	{1911 1912}	83 89	.1516 .1669	59.5 59.7					8 5		75 84	
Pennsylvania:												
8 establishments.....	{1910 1911}	213 210	.2204 .2164	57.6 57.7					30 21	183 189		
8 establishments.....	{1911 1912}	224 280	.2142 .2492	57.8 55.2					16 280	208		
Wisconsin:												
2 establishments.....	{1910 1911}	49 64	.2318 .2377	55.0 55.0					49 64			
2 establishments.....	{1911 1912}	64 69	.2377 .2589	55.0 55.0					64 69			
BUTTONHOLE MAKERS, UNDERWEAR, FEMALE.												
New York:												
11 establishments.....	{1910 1911}	88 87	.1632 .1691	59.4 59.4					14 10	14 12	50 56	10 9
16 establishments.....	{1911 1912}	107 108	.1658 .1712	59.5 58.8					13 22	15 9	70 77	9
BUTTON SEWERS, UNDERWEAR, FEMALE.												
New York:												
11 establishments.....	{1910 1911}	82 84	.1539 .1485	59.6 59.8					11 9	9 8	54 56	8 11
16 establishments.....	{1911 1912}	102 111	.1461 .1499	59.6 58.7					12 26	11 10	68 75	11
CUTTERS, HAND, UNDERWEAR, MALE.												
New York:												
9 establishments.....	{1910 1911}	126 119	.2118 .2198	59.4 59.0					32 37	12 11	55 57	27 14
11 establishments.....	{1911 1912}	123 140	.2236 .2072	59.0 59.1					37 22	16 13	56 105	14

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

Occupation, State, and number of establishments.	Year.	Number of employ-ees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—							
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
FINISHERS, UNDERWEAR, FEMALE.												
Connecticut:												
3 establishments.....	1910	84	\$0.1625	56.6					41	39	4	.....
	1911	97	.1644	56.6					51	39	7	.....
3 establishments.....	1911	97	.1644	56.6					51	39	7	.....
	1912	123	.1552	54.8		50				67	6	.....
New York:												
12 establishments.....	1910	696	.1632	59.5					68	109	470	49
	1911	633	.1643	59.7					40	98	462	33
15 establishments.....	1911	716	.1590	59.6					41	141	501	33
	1912	832	.1597	58.9					161	114	577	.....
Pennsylvania:												
2 establishments.....	1910	207	.1340	56.6					97	110		.....
	1911	197	.1365	56.6					90	107		.....
3 establishments.....	1911	208	.1365	56.5					101	107		.....
	1912	224	.1258	56.6					104	120		.....
FOLDERS, FEMALE.												
Georgia:												
2 establishments.....	1910	40	.0951	60.0							40	.....
	1911	40	.1095	58.6					11		29	.....
3 establishments.....	1911	59	.1093	58.4					11	19	29	.....
	1912	68	.1009	58.7					9	21	38	.....
Massachusetts:												
3 establishments.....	1910	112	.1597	56.0					112			.....
	1911	123	.1408	56.0					123			.....
3 establishments.....	1911	123	.1408	56.0					123			.....
	1912	143	.1370	54.0			143					.....
New York:												
12 establishments.....	1910	188	.1235	59.5					18	53	86	31
	1911	153	.1260	59.4					12	42	83	16
16 establishments.....	1911	184	.1302	59.3					21	45	102	16
	1912	206	.1427	58.5					57	13	135	.....
North Carolina:												
4 establishments.....	1910	38	.1197	60.0							38	.....
	1911	58	.1050	59.4					9		49	.....
4 establishments.....	1911	50	.1085	59.9					1		49	.....
	1912	49	.1271	59.9					1		48	.....
Pennsylvania:												
8 establishments.....	1910	86	.1364	57.1					34	48	4	.....
	1911	87	.1351	57.6					23	61	3	.....
9 establishments.....	1911	95	.1356	57.3					31	61	3	.....
	1912	86	.1360	55.5					77	9		.....
INSPECTORS AND MENDERS, UNDERWEAR, FEMALE.												
New York:												
12 establishments.....	1910	324	.1288	59.2					65	46	186	27
	1911	312	.1324	59.2					49	46	195	22
15 establishments.....	1911	358	.1298	59.3					55	66	215	22
	1912	333	.1296	58.9					59	50	224	.....

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—						
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
KNITTERS, FOOTERS OR TOPPERS, HOSIERY, FEMALE.											
Connecticut:											
3 establishments.....	1910	189	\$0.1358	58.9						142	47
	1911	179	.1405	59.0						131	48
2 establishments.....	1911	106	.1528	58.9						58	48
	1912	116	.1476	59.1						54	62
Georgia:											
3 establishments.....	1910	166	.0931	57.8					72		94
	1911	81	.0957	57.7					37		44
3 establishments.....	1911	107	.1051	57.5					37	42	28
	1912	127	.1161	57.1					54	46	27
Illinois:											
3 establishments.....	1910	140	.1097	59.4						82	58
	1911	149	.1068	59.5						78	71
3 establishments.....	1911	164	.1034	59.5						78	86
	1912	144	.1029	59.0						101	43
Massachusetts:											
3 establishments.....	1910	121	.1322	56.0					121		
	1911	84	.1211	56.0					84		
3 establishments.....	1911	84	.1211	56.0					84		
	1912	152	.1353	54.0			152				
Michigan:											
2 establishments.....	1910	114	.1318	53.7			25	89			
	1911	112	.1414	53.7			26	86			
2 establishments.....	1911	112	.1414	53.7			26	86			
	1912	127	.1487	53.7			27	100			
New Hampshire:											
2 establishments.....	1910	71	.1431	58.0						71	
	1911	96	.1421	58.0						96	
3 establishments.....	1911	114	.1402	58.0						114	
	1912	134	.1371	58.0						134	
North Carolina:											
3 establishments.....	1910	170	.0715	60.0							170
	1911	196	.0734	60.0							196
3 establishments.....	1911	160	.0832	59.2					25		135
	1912	120	.1027	59.1					21		99
Pennsylvania:											
7 establishments.....	1910	601	.1273	57.7					143	368	90
	1911	543	.1310	57.7					134	306	103
8 establishments.....	1911	1,005	.1503	57.3					311	591	103
	1912	919	.1470	55.7					722	197	
Wisconsin:											
2 establishments.....	1910	165	.1414	55.0					165		
	1911	175	.1396	55.0					175		
2 establishments.....	1911	175	.1396	55.0					175		
	1912	219	.1474	55.0					219		
KNITTERS, "LADY HOSE," MALE.											
New Hampshire:											
2 establishments.....	1910	63	.1733	58.0						63	
	1911	64	.1770	58.0						64	
2 establishments.....	1911	57	.1810	58.0						57	
	1912	55	.1650	58.0						55	

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—						
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
KNITTERS, "LADY HOSE," MALE—concluded.											
Pennsylvania:											
2 establishments.....	{1910	65	\$.1843	57.8						65	
	{1911	58	.1880	57.8						58	
2 establishments.....	{1911	58	.1880	57.9						58	
	{1912	90	.2193	55.6					90		
KNITTERS, "LADY HOSE," FEMALE.											
Pennsylvania:											
2 establishments.....	{1910	91	.1427	57.6						91	
	{1911	77	.1357	57.7						77	
3 establishments.....	{1911	77	.1357	57.7						77	
	{1912	86	.2045	55.1					86		
Wisconsin:											
2 establishments.....	{1910	91	.1643	55.0					91		
	{1911	80	.1656	55.0					80		
2 establishments.....	{1911	80	.1656	55.0					80		
	{1912	97	.1729	55.0					97		
KNITTERS, WEB OR TUBE, UNDERWEAR, MALE.											
New York:											
9 establishments.....	{1910	103	.2129	59.7					9	19	61
	{1911	100	.2179	59.3					7	18	59
14 establishments.....	{1911	122	.2141	59.9					7	22	77
	{1912	142	.2296	59.2					18	20	104
LOOPERS, FEMALE.											
Connecticut:											
4 establishments.....	{1910	132	.1471	57.9					32	70	30
	{1911	127	.1551	58.1					22	76	29
3 establishments.....	{1911	103	.1632	57.9					22	52	29
	{1912	90	.1707	57.6		12			2	48	30
Georgia:											
3 establishments.....	{1910	79	.0959	59.5					8		71
	{1911	64	.0817	59.8					2		62
3 establishments.....	{1911	61	.1134	58.9					2	28	31
	{1912	75	.1364	58.7					6	33	36
Massachusetts:											
3 establishments.....	{1910	367	.1233	56.0					367		
	{1911	363	.1172	56.0					363		
3 establishments.....	{1911	363	.1172	56.0					363		
	{1912	404	.1413	54.0			404				
New Hampshire:											
2 establishments.....	{1910	85	.1557	58.0						85	
	{1911	93	.1533	58.0						93	
3 establishments.....	{1911	130	.1511	58.0						130	
	{1912	129	.1429	58.0						129	
New York:											
5 establishments.....	{1910	104	.1763	60.0							104
	{1911	100	.1683	60.0							100
3 establishments.....	{1911	93	.1686	59.0					18		75
	{1912	89	.1689	58.4					28		61

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Continued.

HOSIERY AND KNIT GOODS MANUFACTURING—Continued.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—						
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	Over 60 and under 63.
LOOPERS, FEMALE—concluded.											
North Carolina:											
4 establishments.....	1910	145	\$0.1004	\$60.0							145
	1911	133	.1069	60.0							133
4 establishments.....	1911	140	.1073	59.5					15		125
	1912	190	.1224	59.6					16		174
Pennsylvania:											
11 establishments.....	1910	717	.1332	57.4					137	558	22
	1911	616	.1283	57.5					98	498	20
12 establishments.....	1911	769	.1388	57.6					90	659	20
	1912	828	.1497	55.6					688	140	
Wisconsin:											
3 establishments.....	1910	144	.1501	55.2					138		6
	1911	143	.1455	55.2					136		7
3 establishments.....	1911	143	.1455	55.2					136		7
	1912	182	.1602	55.0					182		
MENDERS, FINE, HOSIERY, FEMALE.											
Massachusetts:											
3 establishments.....	1910	73	.1405	56.0					73		
	1911	86	.1247	56.0					86		
3 establishments.....	1911	86	.1247	56.0					86		
	1912	82	.1316	54.0			82				
Pennsylvania:											
9 establishments.....	1910	171	.1409	57.6					17	150	4
	1911	163	.1521	57.6					20	140	3
8 establishments.....	1911	155	.1577	57.7					9	143	3
	1912	110	.1542	55.2					103	7	
MENDERS, ROUGH, HOSIERY, FEMALE.											
Georgia:											
3 establishments.....	1910	65	.0822	58.7					17		48
	1911	46	.0908	58.8					11		35
3 establishments.....	1911	65	.1001	58.3					11	27	27
	1912	72	.1074	58.4					10	29	33
Massachusetts:											
3 establishments.....	1910	111	.1197	56.0					111		
	1911	107	.1176	56.0					107		
3 establishments.....	1911	107	.1176	56.0					107		
	1912	87	.1453	54.0			87				
North Carolina:											
2 establishments.....	1910	68	.1082	60.0							68
	1911	69	.0986	60.0							69
2 establishments.....	1911	62	.1104	59.4					8		54
	1912	61	.1064	59.4					7		54
Pennsylvania:											
4 establishments.....	1910	75	.1372	57.1					24	49	2
	1911	52	.1374	57.8					4	46	2
7 establishments.....	1911	138	.1686	58.0					4	132	2
	1912	158	.1739	56.2					102	56	
Wisconsin:											
2 establishments.....	1910	74	.1288	55.0					74		
	1911	79	.1210	55.0					79		
2 establishments.....	1911	79	.1210	55.0					79		
	1912	92	.1327	55.0					92		

TABLE III.—AVERAGE RATES OF WAGES PER HOUR AND AVERAGE AND CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1910 TO 1912—Concluded.

HOSIERY AND KNIT GOODS MANUFACTURING—Concluded.

Occupation, State, and number of establishments.	Year.	Number of employees.	Average rate of wages per hour.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—							
					Under 48.	Over 48 and under 51.	51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.
SEAMERS, UNDERWEAR, FEMALE.												
New York:												
12 establishments	1910	642	\$0.1550	59.4					103	89	386	64
	1911	658	.1517	59.5					81	90	428	59
16 establishments	1911	741	.1494	59.5					97	111	484	59
	1912	770	.1503	59.1					86	134	550	
Pennsylvania:												
2 establishments	1910	98	.1311	56.7					42	56		
	1911	92	.1115	56.3					51	41		
2 establishments	1911	92	.1115	56.3					51	41		
	1912	97	.1287	59.3					49	48		
WELTERS, FEMALE.												
Massachusetts:												
2 establishments	1910	98	.1102	56.0					98			
	1911	113	.1172	56.0					113			
2 establishments	1911	113	.1172	56.0					113			
	1912	106	.1452	54.0			106					
Pennsylvania:												
6 establishments	1910	76	.1362	58.1						76		
	1911	80	.1411	58.1						80		
7 establishments	1911	92	.1405	57.7					12	80		
	1912	95	.1560	55.5					89	6		
WINDERS, FEMALE.												
Connecticut:												
4 establishments	1910	58	.1331	57.2					23	27	8	
	1911	53	.1300	57.3					20	25	8	
3 establishments	1911	47	.1310	57.1					20	19	8	
	1912	44	.1379	55.8		15				18	11	
Massachusetts:												
3 establishments	1910	233	.1249	56.0					233			
	1911	233	.1259	56.0					233			
3 establishments	1911	233	.1259	56.0					233			
	1912	229	.1356	54.0			229					
New York:												
11 establishments	1910	390	.1416	60.0					40	45	186	119
	1911	352	.1478	59.9					39	31	205	77
13 establishments	1911	348	.1465	60.0					17	41	213	77
	1912	367	.1518	58.4					109	16	242	
Pennsylvania:												
8 establishments	1910	177	.1225	57.5					32	139	6	
	1911	166	.1189	57.5					30	131	5	
10 establishments	1911	188	.1167	57.6					30	153	5	
	1912	200	.1328	55.7					157	43		