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WAGES AND HOURS OF LABOR IN THE COTTON
WOOLEN, AND SILK INDUSTRIES
1890 TO 1912



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The field work in connection with the report on cotton goods manufacturing and finishing and on woolen and worsted goods manufacturing was done under the immediate charge of Leonard E. Tilden, and that in connection with the report on silk goods manufacturing under the immediate charge of Charles A. Bell. 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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AUGUST 14, 1913.

WAGES AND HOURS OF LABOR IN THE COTTON,
WOOLEN, AND SILK INDUSTRIES, 1890 TO 1912.

COTTON GOODS MANUFACTURING AND
FINISHING.

GENERAL SUMMARY.

This study shows, for cotton-goods manufacturing, rates of wages per hour, and nominal full-time hours 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. This study also shows wages and hours of labor in cotton-goods finishing for 1911 and 1912.

This present report and also previous reports show wages and hours of labor for each of the most important productive occupations in cotton-goods manufacturing, but do not show data for all the occupations in the industry. The occupations for which data are shown in this report are card strippers, drawing tenders, fine speeders, loom fixers, slashers, frame spinners, mule spinners, trimmers or inspectors, and weavers, and these occupations include a very large proportion of the total employees on productive work and more than two-fifths of the total employees engaged in both productive and nonproductive work. In addition to the occupations enumerated above, data for 1911 and 1912 are shown in this report for calendriers; engravers; folders; knotters; laborers, bleach house; laborers, color mixing; laborers, dyehouse; and printers, which are the principal occupations connected with finishing (bleaching, dyeing, and printing) cotton goods.

¹ Previous reports of wages and hours of labor in cotton-goods manufacturing and finishing have been 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.

Comparing 1912 with certain other years, the changes in nominal full-time hours per week, as shown by combining the principal occupations in cotton-goods manufacturing (but not including finishing) were as follows:

1912 compared with 1890.....	8.1 per cent decline.
1912 compared with 1895.....	7.4 per cent decline.
1912 compared with 1900.....	7.7 per cent decline.
1912 compared with 1905.....	6.9 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
COTTON-GOODS MANUFACTURING.					
Card strippers, male.....	5.6	4.8	4.8	2.3	2.1
Drawing tenders, male.....	5.6	4.4	4.4	2.4	2.7
Drawing tenders, female.....	5.5	4.2	4.4	2.2	1.4
Fine speeders, male.....	6.8	2.5	2.7	2.4	2.4
Fine speeders, female.....	4.8	4.5	4.5	2.1	2.3
Loom fixers, male.....	5.7	4.0	4.2	1.7	1.5
Slashers, male.....	5.3	4.1	3.9	1.7	1.9
Spinners, frame, male.....	5.7	4.8	5.0	2.1	1.8
Spinners, frame, female.....	5.7	4.0	3.8	1.6	1.8
Spinners, mule, male.....	5.0	4.7	4.9	2.0	2.0
Trimmers or inspectors, female.....	4.4	3.7	3.0	.5	1.2
Weavers, male.....	5.2	4.1	4.4	1.9	1.9
Weavers, female.....	4.9	4.1	4.3	1.8	1.8
Total.....	5.2	4.0	4.1	1.8	1.8
COTTON-GOODS FINISHING.					
Calendriers, male.....	(1)	(1)	(1)	(1)	.2
Engravers, male.....	(1)	(1)	(1)	(1)	.7
Folders, male.....	(1)	(1)	(1)	(1)	.3
Knotters, female.....	(1)	(1)	(1)	(1)	1.4
Laborers, bleach house, male.....	(1)	(1)	(1)	(1)	.5
Laborers, color mixing, male.....	(1)	(1)	(1)	(1)	.5
Laborers, dyehouse, male.....	(1)	(1)	(1)	(1)	(2) .4
Printers, male.....	(1)	(1)	(1)	(1)	.4
Total.....	(1)	(1)	(1)	(1)	.7

¹ No data.

² Increase of 0.9 per cent.

Comparing 1912 with certain other years the changes in rates of wages per hour, as shown by combining the principal occupations in cotton-goods manufacturing (but not including finishing) were as follows:

1912 compared with 1890.....	61.5 per cent advance.
1912 compared with 1895.....	67.1 per cent advance.
1912 compared with 1900.....	51.4 per cent advance.
1912 compared with 1905.....	38.2 per cent advance.
1912 compared with 1910.....	11.1 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 IN RATES OF WAGES PER HOUR: 1912 COMPARED WITH EACH OF THE 5 YEARS PRECEDING.

Occupation.	Per cent higher in 1912 than in—				
	1907	1908	1909	1910	1911
COTTON-GOODS MANUFACTURING.					
Card strippers, male.....	5.1	12.2	15.3	12.7	10.7
Drawing tenders, male.....	10.5	12.9	11.8	13.0	11.6
Drawing tenders, female.....	16.9	16.1	19.5	21.1	15.7
Fine speeders, male.....	22.5	15.7	10.2	8.5	5.2
Fine speeders, female.....	6.9	7.9	10.4	11.0	9.4
Loom fixers, male.....	10.0	12.7	15.4	12.6	10.8
Slashers, male.....	9.7	9.7	11.7	10.9	11.1
Spinners, frame, male.....	18.4	22.8	24.8	22.9	18.1
Spinners, frame, female.....	14.8	18.1	19.2	13.2	11.0
Spinners, mule, male.....	4.5	8.8	10.8	12.3	9.5
Trimmers or inspectors, female.....	10.3	11.4	13.0	11.5	8.9
Weavers, male.....	6.9	7.7	14.2	11.3	8.5
Weavers, female.....	7.5	7.0	13.2	7.9	10.3
Total.....	9.5	10.6	14.8	11.1	10.1
COTTON-GOODS FINISHING.					
Calendriers, male.....	(1)	(1)	(1)	(1)	1.7
Engravers, male.....	(1)	(1)	(1)	(1)	.9
Folders, male.....	(1)	(1)	(1)	(1)	7.1
Knotters, female.....	(1)	(1)	(1)	(1)	4.7
Laborers, bleach house, male.....	(1)	(1)	(1)	(1)	3.1
Laborers, color mixing, male.....	(1)	(1)	(1)	(1)	.6
Laborers, dyehouse, male.....	(1)	(1)	(1)	(1)	(2)
Printers, male.....	(1)	(1)	(1)	(1)	(2)
Total.....	(1)	(1)	(1)	(1)	3.9

¹ No data.

² Decrease of 5.6 per cent.

³ Decrease of 0.5 per cent.

The next table shows for the industry the course of nominal full-time hours per week and of rates of wages per hour during the 23-year period from 1890 to 1912 in cotton-goods manufacturing (but not including finishing). For 1890 to 1907 the occupations combined and the sex for which data are shown are card strippers, male; dyers, male; loom fixers, male; frame spinners, male and female; mule spinners, male; and weavers, male and female. For 1907 to 1912 all occupations with the exception of dyers were continued, and drawing tenders, male and female; fine speeders, male and female; slashers, male; and trimmers or inspectors, female, were added. While the nomenclature of the occupations has changed somewhat, yet no type of employees included during the earlier period has been dropped, with the exception of dyers, and those engaged in that occupation are now shown as laborers, dyehouse, under cotton-goods finishing.

In combining the relatives for the principal occupations to determine the relative 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 2 per cent in 11 of the 18 years, the greatest difference being about 6 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 COTTON-GOODS MANUFACTURING, 1890 TO 1912.

[Data are included from 26 establishments, 1890-1903; 23 establishments, 1903, 1904; 30 establishments, 1904, 1905; 30 establishments, 1905, 1906; 38 establishments, 1906, 1907; 36 establishments, 1907-1910; 59 establishments, 1910, 1911; and 88 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.....	100.5	101.6
1891.....	101.2	99.4
1892.....	101.6	99.2
1893.....	100.0	105.0
1894.....	97.5	98.9
1895.....	99.8	98.2
1896.....	99.5	104.1
1897.....	99.1	100.4
1898.....	100.3	96.7
1899.....	100.3	95.8
1900.....	100.1	108.4
1901.....	99.9	108.8
1902.....	99.5	113.3
1903.....	99.3	117.5
1904.....	99.2	117.1
1905.....	99.2	118.7
1906.....	98.7	131.3
1907.....	97.5	149.8
1908.....	96.3	148.4
1909.....	96.4	143.0
1910.....	94.1	147.7
1911.....	94.1	149.1
1912.....	92.4	164.1

The table which follows shows for each of the principal occupations in cotton-goods manufacturing (but not including finishing) relative nominal full-time hours per week and relative rates of wage per hour during the 23-year period, 1890 to 1912. As already indicated, a few 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 COTTON-GOODS MANUFACTURING, 1890 TO 1912.

[Data are included from 26 establishments, 1890-1903; 23 establishments, 1903, 1904; 30 establishments, 1904, 1905; 30 establishments, 1905, 1906; 38 establishments, 1906, 1907; 36 establishments, 1907-1910; 59 establishments, 1910, 1911; and 88 establishments, 1911, 1912.]

Year.	Card strippers, ¹ male.		Drawing tenders, male.		Drawing tenders, female.		Dyers, male.		Fine speeders, 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.
Average, 1890-1899..	100.0	100.0					100.0	100.0		
1890.....	100.7	98.0					99.1	106.3		
1891.....	101.1	99.8					98.9	107.2		
1892.....	101.2	99.5					99.7	105.1		
1893.....	99.6	101.4					99.6	104.1		
1894.....	97.8	102.1					100.3	95.6		
1895.....	99.7	101.4					100.7	92.3		
1896.....	100.0	101.9					100.2	85.2		
1897.....	98.9	100.8					100.6	86.9		
1898.....	100.5	97.8					100.3	89.4		
1899.....	100.5	97.0					100.7	97.8		
1900.....	100.5	104.5					100.5	100.9		
1901.....	100.8	103.2					100.0	102.3		
1902.....	100.2	108.3					98.6	107.1		
1903.....	100.2	108.9					98.8	107.7		
1904.....	99.9	109.3					98.7	104.8		
1905.....	100.1	112.3					98.6	105.7		
1906.....	99.8	119.8					98.2	112.0		
1907.....	98.5	134.3	‡ 100.0	‡ 100.0	‡ 100.0	‡ 100.0	95.4	123.5	‡ 100.0	‡ 100.0
1908.....	97.7	126.7	‡ 98.8	‡ 97.9	‡ 98.5	‡ 100.7	(²)	(²)	‡ 95.6	‡ 105.9
1909.....	97.7	123.3	‡ 98.8	‡ 98.8	‡ 98.7	‡ 97.8			‡ 95.8	‡ 111.2
1910.....	95.2	126.2	‡ 96.8	‡ 97.8	‡ 96.5	‡ 96.5			‡ 95.5	‡ 112.9
1911.....	95.0	128.4	‡ 97.1	‡ 99.0	‡ 95.7	‡ 101.0			‡ 95.5	‡ 116.4
1912.....	93.0	142.2	‡ 94.5	‡ 110.5	‡ 94.4	‡ 116.9			‡ 93.2	‡ 122.5

Year.	Fine speeders, female.	Loom fixers, male.	Slashers, male.	Spinners, frame, male.	Spinners, frame, 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.		
Average, 1890-1899..		100.0	100.0	100.0	100.0			
1890.....		100.4	102.6	97.3	111.6	100.2	99.8	
1891.....		101.0	100.4	100.5	89.7	101.0	99.4	
1892.....		100.8	101.2	102.4	91.6	101.5	95.4	
1893.....		99.9	103.9	100.2	89.9	100.3	102.1	
1894.....		97.4	99.2	100.4	85.7	98.1	97.9	
1895.....		99.6	98.0	100.9	91.2	100.0	99.5	
1896.....		99.9	100.5	98.3	127.0	99.6	108.3	
1897.....		99.3	99.9	99.2	109.2	98.8	104.1	
1898.....		100.7	97.6	100.5	98.9	100.1	97.6	
1899.....		100.9	96.4	100.3	105.8	100.2	96.3	
1900.....		100.6	105.7	100.0	128.5	100.1	108.7	
1901.....		100.5	105.8	99.0	135.8	99.5	111.8	
1902.....		99.7	110.3	98.0	147.3	99.2	117.1	
1903.....		99.8	111.4	96.4	185.9	98.9	123.7	
1904.....		99.9	108.8	97.8	169.7	98.9	125.0	
1905.....		99.9	108.4	97.8	200.4	98.8	132.4	
1906.....		99.6	115.6	94.2	275.7	98.6	149.4	
1907.....	‡ 100.0	‡ 100.0	97.7	128.8	‡ 100.0	‡ 100.0	97.2	171.4
1908.....	‡ 99.7	‡ 99.1	95.9	125.7	‡ 98.8	‡ 100.0	91.5	166.7
1909.....	‡ 99.7	‡ 96.8	96.1	122.8	‡ 98.5	‡ 98.2	91.7	165.1
1910.....	‡ 97.2	‡ 96.3	93.7	125.8	‡ 96.3	‡ 98.9	89.0	173.8
1911.....	‡ 97.4	‡ 97.7	93.5	127.9	‡ 96.5	‡ 98.7	88.7	177.3
1912.....	‡ 95.2	‡ 106.9	92.1	141.7	‡ 94.7	‡ 109.7	87.1	196.8

¹ Employees in this occupation were reported as carding-machine tenders for 1890 to 1907.

² Data for 1890 to 1906 not available; computed with 1907=100.

³ Discontinued. See laborers, dyehouse, cotton-goods finishing.

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

Year.	Spinners, mule, male.		Trimmers or inspectors, female.		Weavers, male.		Weavers, 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	100.0	100.0
1890.....	101.0	91.4	.....	.....	99.2	113.5	101.1	99.1
1891.....	101.0	93.2	.....	.....	100.7	103.1	101.5	98.6
1892.....	101.0	110.7	.....	.....	101.5	99.0	101.8	99.7
1893.....	99.7	114.2	.....	.....	98.5	107.6	100.2	105.2
1894.....	99.4	96.2	.....	.....	99.0	98.6	96.6	99.6
1895.....	99.7	97.8	.....	.....	99.7	96.6	99.8	98.3
1896.....	99.2	99.5	.....	.....	99.3	102.9	99.6	103.5
1897.....	99.7	102.3	.....	.....	100.1	95.3	98.6	100.8
1898.....	99.7	98.2	.....	.....	100.5	91.5	100.3	98.4
1899.....	99.7	96.4	.....	.....	100.5	92.1	100.3	96.8
1900.....	99.7	110.0	.....	.....	100.0	105.1	100.1	109.8
1901.....	99.7	110.0	.....	.....	100.2	104.3	99.9	109.6
1902.....	98.9	116.5	.....	.....	99.5	110.7	99.6	112.2
1903.....	99.0	115.2	.....	.....	98.9	118.3	99.6	114.3
1904.....	99.0	111.0	.....	.....	98.5	115.3	99.7	113.5
1905.....	99.0	113.4	.....	.....	98.6	116.9	99.7	114.4
1906.....	98.9	117.6	.....	.....	97.7	128.2	99.4	121.8
1907.....	98.4	135.4	¹ 100.0	¹ 100.0	96.6	147.1	98.7	136.5
1908.....	98.1	132.9	¹ 99.3	¹ 99.0	95.5	145.9	97.9	137.1
1909.....	98.3	130.5	¹ 98.6	¹ 97.6	95.8	137.7	98.1	129.6
1910.....	95.4	128.8	¹ 96.1	¹ 98.9	93.4	141.2	95.6	135.9
1911.....	95.4	132.0	¹ 96.8	¹ 101.3	93.4	144.9	95.6	133.0
1912.....	93.5	144.6	¹ 95.6	¹ 110.3	91.6	157.2	93.9	146.7

¹ Data for 1890 to 1906 not available; computed with 1907=100.

In almost every occupation wages decreased considerably following 1907 and the level of 1907 was not again reached until 1911 or 1912.

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 in the two tables which follow. The first table shows data for cotton-goods manufacturing and covers 1907 to 1912, and the second, data for cotton-goods finishing and covers 1911 and 1912.

Owing to the great amount of work involved, data for 1907 to 1909 were secured from a limited number of establishments. In order, however, to permit of a true comparison of data from year to year, information was secured from identical establishments for 1907 to 1910, and when the work was enlarged in 1911 data were secured for both 1910 and 1911 from the additional establishments, and then when the work was again enlarged in 1912 data were secured for both 1911 and 1912 from the additional establishments. The data are for the pay-roll period ending nearest May 15 each year, except for two or three establishments for which the data are for the latter half of May.

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

[Under each occupation 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 working hours per week.	Per cent of employees whose nominal full-time working hours per week were—				Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				
				54.	Over 54 and under 57.	57 and under 60.	60.		Over 60.	Under 10 cents.	10 and under 12 cents.	12 and under 14 cents.	14 cents and over.
Card strippers, male:													
36 establishments.	1907	284	59.8	.....	.....	58.5	19.0	22.6	\$.1314	12.7	8.5	38.7	40.1
	1908	289	59.3	.....	.....	64.4	24.2	11.5	.1240	11.8	20.8	51.2	16.2
	1909	287	59.3	.....	.....	61.0	28.6	10.4	.1207	11.2	26.8	56.8	5.2
	1910	318	57.8	.....	52.2	24.5	16.4	6.9	.1235	5.9	26.1	61.6	6.3
59 establishments.	1910	523	58.4	.....	47.8	23.1	13.0	16.0	.1199	10.8	26.4	56.4	6.5
	1911	515	58.3	.....	49.1	23.9	11.7	15.3	.1220	9.5	26.2	57.9	6.4
88 establishments.	1911	786	58.3	.....	39.9	32.4	16.0	11.6	.1209	7.2	28.6	58.7	5.5
	1912	800	57.1	35.5	4.6	31.4	27.4	1.1	.1339	2.1	18.9	31.6	47.5
Drawing tenders, male:													
34 establishments.	1907	219	60.4	.....	.....	51.1	11.9	37.1	.0997	39.3	33.8	24.7	2.3
	1908	234	59.7	.....	.....	47.0	40.2	12.8	.0976	47.0	36.3	15.0	1.7
	1909	253	59.7	.....	.....	51.0	35.2	13.8	.0985	48.3	36.8	13.8	1.2
	1910	253	58.5	.....	44.7	13.4	30.8	11.1	.0975	50.1	32.0	15.8	2.0
56 establishments.	1910	436	59.5	.....	33.0	12.4	25.5	29.1	.0962	59.1	28.9	10.8	1.1
	1911	457	59.7	.....	32.2	9.8	26.3	31.7	.0974	61.3	21.7	15.3	1.8
84 establishments.	1911	750	59.5	.....	28.1	17.3	31.3	23.2	.0968	59.6	25.6	12.0	2.8
	1912	723	57.9	27.0	5.4	17.3	48.1	2.3	.1080	29.5 ⁷	35.8	25.4	9.3
Drawing tenders, female:													
19 establishments.	1907	234	60.2	.....	.....	50.0	27.4	22.6	.0926	53.7	42.7	3.4	.....
	1908	232	59.3	.....	.....	56.0	37.1	6.9	.0932	59.9	23.3	16.8	.....
	1909	249	59.4	.....	.....	51.4	42.2	6.4	.0905	61.4	31.7	6.8	.....
	1910	233	58.1	.....	28.8	47.2	21.0	3.0	.0893	71.2	26.2	2.1	4
27 establishments.	1910	359	58.2	.....	37.9	38.7	15.6	7.8	.0898	71.0	27.3	1.4	.3
	1911	344	57.7	.....	42.4	42.2	10.8	4.7	.0940	62.6	27.6	9.6	.3
42 establishments.	1911	502	57.8	.....	34.3	50.8	11.2	3.8	.0946	60.8	30.1	9.0	.2
	1912	525	57.0	36.2	1.7	44.0	15.6	2.5	.1095	19.9	62.3	13.1	4.8
Trimmers or inspectors, female:													
30 establishments.	1907	251	60.4	.....	.....	40.6	27.9	31.4	.1018	42.3	36.7	9.6	11.6
	1908	261	60.0	.....	.....	39.5	46.0	14.6	.1008	58.6	18.8	11.1	11.4
	1909	285	59.6	.....	.....	40.4	51.6	8.1	.0994	60.8	28.4	.7	10.3
	1910	297	58.1	.....	42.8	25.6	24.6	7.0	.1007	50.1	40.4	.....	9.5
46 establishments.	1910	408	58.3	.....	39.5	24.5	26.7	9.3	.0994	51.5	39.0	1.5	8.1
	1911	474	58.7	.....	35.2	25.1	27.0	12.7	.1018	46.3	37.3	6.8	9.4
75 establishments.	1911	712	58.7	.....	31.7	28.4	28.8	11.2	.1031	44.9	33.1	12.5	9.3
	1912	703	58.0	29.0	3.1	27.6	37.8	2.4	.1123	27.7	36.6	21.1	14.7
										Under 12 cents.	12 and under 14 cents.	14 and under 16 cents.	16 cents and over.
Fine speeders, male:													
16 establishments.	1907	201	63.9	.....	.....	.....	.....	100.0	.1157	57.8	25.9	9.0	7.5
	1908	224	61.1	.....	.....	.....	76.3	23.6	.1225	54.1	25.9	8.9	11.2
	1909	258	61.2	.....	.....	.....	75.6	24.4	.1286	38.9	30.6	20.2	10.5
	1910	249	61.0	.....	.....	.....	77.1	22.8	.1306	36.9	28.9	17.3	16.9
32 establishments.	1910	426	61.4	.....	.....	.....	64.1	35.9	.1310	37.5	27.0	16.2	19.3
	1911	396	61.4	.....	.....	.....	61.4	38.6	.1351	32.5	29.8	16.9	21.0
62 establishments.	1911	623	61.2	.....	.5	2.7	76.1	20.7	.1350	31.7	27.0	22.5	18.8
	1912	666	59.7	7.5	.....	1.8	87.2	3.5	.1421	20.9	29.7	23.3	26.3

AVERAGE AND CLASSIFIED NOMINAL FULL-TIME WORKING HOURS PER WEEK
AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH OF THE
PRINCIPAL OCCUPATIONS IN COTTON-GOODS MANUFACTURING, 1907 TO 1912—Contd.

Occupation, sex, and number of establishments.	Year.	Number of em- ploy- ees.	Average nomi- nal full- time work- ing hours per week.	Per cent of employees whose nominal full-time working hours per week were—						Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.								
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60.	Under 12 cents.		12 and under 14 cents.	14 and under 16 cents.	16 cents and over.						
														Under 12 cents.	12 and under 16 cents.	16 and under 20 cents.	20 cents and over.		
Fine speeders, female:																			
35 establish- ments.	1907	721	59.3	.....	.....	64.2	21.2	14.7	\$.1390	21.6	24.4	33.6	20.5				
	1908	694	59.1	.....	.....	63.1	30.0	6.9	.1377	27.0	24.2	26.7	22.1				
	1909	714	59.1	.....	.....	63.4	30.8	5.7	.1345	22.9	34.5	34.5	8.1				
	1910	800	57.6	.....	.....	54.6	23.1	17.9	.1338	25.1	35.8	27.1	12.1				
57 establish- ments.	1910	1,175	57.8	.....	.....	51.2	26.6	14.0	.1334	25.5	35.1	27.7	11.5				
	1911	1,189	57.9	.....	.....	50.2	26.2	13.9	.1353	25.4	29.6	32.6	12.4				
82 establish- ments.	1911	1,753	57.9	45.7	31.2	14.7	8.4	.1362	24.3	28.8	33.6	13.3					
	1912	1,784	56.6	43.9	5.9	29.8	18.4	2.0	.1490	16.0	16.0	33.2	34.8						
Spinners, frame, male:																			
25 establish- ments.	1907	184	59.4	.....	.....	66.3	12.0	21.7	.1238	49.5	17.4	12.5	20.6				
	1908	214	58.8	.....	.....	63.6	34.6	1.9	.1193	54.3	23.8	13.1	8.9				
	1909	188	58.9	.....	.....	71.8	21.8	6.4	.1173	50.5	27.7	12.2	9.6				
	1910	188	57.2	.....	.....	58.0	25.0	16.5	.1192	47.3	33.0	11.2	8.5				
36 establish- ments.	1910	261	57.2	61.3	20.3	16.9	1.5	.1198	42.8	40.2	9.6	7.0					
	1911	420	57.0	69.3	19.3	9.3	2.1	.1247	33.4	43.8	18.6	4.3					
46 establish- ments.	1911	700	57.2	57.4	32.6	7.4	2.6	.1257	35.4	39.7	19.0	5.7					
	1912	679	56.2	52.0	.....	39.6	6.5	1.9	.1484	21.9	18.0	24.9	35.2					
Spinners, frame, female:																			
36 establish- ments.	1907	2,317	61.0	.....	.....	43.2	13.2	43.7	.1103	59.0	22.7	12.4	5.8				
	1908	2,114	59.9	.....	.....	42.4	43.7	14.0	.1073	65.0	22.0	8.8	4.0				
	1909	2,408	59.8	.....	.....	46.0	39.5	14.5	.1063	67.0	23.8	7.7	1.6				
	1910	2,500	58.5	40.8	17.7	31.4	10.1	.1119	59.9	23.9	12.6	3.7					
59 establish- ments.	1910	3,704	59.0	35.4	16.8	29.3	18.4	.1083	62.8	22.9	11.0	3.4					
	1911	3,735	59.1	34.4	17.3	28.2	20.0	.1105	60.7	23.9	11.6	3.8					
88 establish- ments.	1911	5,981	59.1	26.6	27.4	30.3	15.7	.1110	61.0	25.0	10.9	3.1					
	1912	6,214	58.0	25.3	3.1	26.8	41.3	3.5	.1232	44.9	21.0	25.6	8.5						
Weavers, male:																			
36 establish- ments.	1907	2,769	60.3	.....	.....	50.5	18.1	31.4	1.609	19.8	29.0	33.5	17.6				
	1908	2,848	59.6	.....	.....	50.0	35.3	14.6	.1596	20.1	31.5	30.1	18.2				
	1909	3,123	59.8	.....	.....	47.9	37.0	15.0	.1506	23.0	39.8	26.5	10.8				
	1910	3,037	58.3	49.0	11.1	30.5	9.4	.1544	19.2	39.9	28.3	12.6					
58 establish- ments.	1910	5,334	58.8	41.1	13.2	27.0	18.8	.1509	21.0	42.1	26.9	9.9					
	1911	5,012	58.8	41.3	13.4	24.4	20.9	.1549	16.7	42.5	29.1	11.7					
88 establish- ments.	1911	8,855	58.6	35.3	26.7	24.8	13.2	.1556	16.0	40.8	31.7	11.5					
	1912	9,751	57.5	30.1	7.9	23.8	36.8	1.4	.1688	11.8	30.9	34.7	22.5						
Weavers, female:																			
36 establish- ments.	1907	3,724	59.5	.....	.....	60.9	21.7	17.4	.1514	20.9	36.3	35.6	7.2				
	1908	3,903	59.0	.....	.....	63.4	30.7	5.9	.1521	20.7	39.7	32.9	6.9				
	1909	3,930	59.1	.....	.....	60.1	34.2	5.7	.1438	23.9	47.7	24.2	4.2				
	1910	3,905	57.6	52.9	26.9	16.0	4.1	.1508	23.3	47.7	24.5	4.5					
59 establish- ments.	1910	6,334	57.8	50.7	26.5	13.4	9.5	.1471	25.1	47.5	23.1	4.4					
	1911	6,242	57.8	51.2	25.5	13.3	10.0	.1440	23.5	48.2	23.3	4.9					
88 establish- ments.	1911	10,792	57.9	39.1	41.2	13.2	6.6	.1479	21.0	44.9	28.1	6.1					
	1912	10,980	56.9	35.4	5.7	40.7	17.2	1.0	.1631	13.5	33.7	36.6	16.2						

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

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time working hours per week.	Per cent of employees whose nominal full-time working hours per week were—					Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.			
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60.		Under 14 cents.	14 and under 18 cents.	18 and under 25 cents.	25 cents and over.
Slashers, male:													
35 establishments.	1907	159	60.3	.....	.....	48.4	18.2	33.3	\$.1829	29.6	10.1	56.6	3.8
	1908	158	59.6	.....	.....	47.5	43.7	8.8	.1828	27.9	15.9	41.2	15.2
	1909	167	59.4	.....	.....	49.1	43.7	7.2	.1795	25.3	16.2	49.1	9.0
	1910	166	58.1	.....	43.4	20.5	31.3	4.8	.1808	22.8	19.8	52.4	5.4
57 establishments.	1910	276	58.4	.....	42.0	19.2	26.1	12.7	.1780	26.1	15.9	54.7	3.3
	1911	303	58.5	.....	40.3	18.2	26.7	14.9	.1776	24.1	19.1	53.8	3.0
85 establishments.	1911	455	58.5	.....	32.7	31.6	23.3	12.3	.1937	18.4	18.0	48.6	14.9
	1912	447	57.4	31.3	3.8	34.2	29.3	1.3	.2153	12.8	20.6	43.6	20.3
Loom fixers, male:													
36 establishments.	1907	631	60.8	.....	.....	43.9	16.6	39.5	.2069	25.6	11.9	39.8	22.7
	1908	619	59.7	.....	.....	44.9	43.6	11.5	.2020	12.2	25.0	44.4	18.3
	1909	680	59.8	.....	.....	44.7	42.1	13.3	.1973	11.9	28.5	47.2	12.4
	1910	728	58.3	.....	44.4	18.3	28.4	8.9	.2022	10.5	24.0	43.0	22.4
59 establishments.	1910	1,267	58.7	.....	41.7	18.3	23.1	16.8	.1998	18.5	18.9	48.5	14.0
	1911	1,314	58.6	.....	43.7	17.2	22.5	16.6	.2031	17.1	18.0	49.9	15.0
88 establishments.	1911	2,200	58.6	.....	33.1	30.0	24.7	12.2	.2026	15.7	18.1	54.4	11.7
	1912	2,273	57.7	24.9	8.4	30.8	33.5	2.4	.2244	5.9	21.0	35.8	37.2
Spinners, mule, male:													
11 establishments.	1907	199	58.6	.....	.....	69.3	30.7	.....	.2343	17.1	53.8	27.1	2.0
	1908	193	58.4	.....	.....	81.9	18.1	.....	.2249	18.6	58.0	23.3	.....
	1909	156	58.5	.....	.....	75.6	24.4	.....	.2209	19.9	67.9	12.2	.....
	1910	131	56.8	.....	67.9	25.2	6.9	.....	.2181	29.8	61.1	8.4	.8
14 establishments.	1910	222	57.0	.....	52.7	43.2	4.1	.....	.2192	25.8	62.6	10.8	1.0
	1911	207	57.0	.....	53.1	42.5	4.3	.....	.2247	22.2	64.3	11.6	1.9
18 establishments.	1911	288	56.8	.....	62.2	34.7	3.1	.....	.2546	16.0	51.0	10.8	22.2
	1912	266	55.7	44.4	24.1	31.6	.....	.....	.2789	9.8	35.7	28.6	25.9

AVERAGE AND CLASSIFIED NOMINAL FULL-TIME WORKING HOURS PER WEEK
AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH OF THE
PRINCIPAL OCCUPATIONS IN COTTON-GOODS FINISHING, 1911 AND 1912.

[Under each occupation the establishments set opposite each bracketed group of years are identical.]

Occupation, sex, and number of establishments.	Year.	Number of em- ployees.	Average nomi- nal full- time work- ing hours per week.	Per cent of employees whose nominal full-time working hours per week were—				Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.				
				Un- der 54.	54.	Over 54 and under 57.	57 and under 60.		60.	Un- der 10 cents.	10 and under 12 cents.	12 and under 14 cents.	14 cents and over.
Knotters, female: 19 establish- ments.	1911	281	56.9	.....	.....	65.1	18.9	16.0	\$.1158	25.6	46.6	8.2	19.6
	1912	296	56.1	.....	28.4	45.6	13.5	12.5	.1212	22.6	36.8	19.3	21.3
Calendriers, male: 20 establish- ments.	1911	412	57.9	.....	.....	28.6	48.8	22.6	.1487	4.1	19.2	51.7	25.0
	1912	409	57.8	.....	3.2	26.9	49.1	20.8	.1513	6.8	14.2	44.0	34.9
Laborers, bleach house, male: 19 establish- ments.	1911	688	57.5	.....	.....	52.9	18.6	28.5	.1327	21.4	41.1	29.9	7.6
	1912	748	57.2	.....	8.7	45.3	25.0	21.0	.1368	12.4	43.2	32.6	11.8
Laborers, color mixing, male: 12 establish- ments.	1911	263	57.7	.....	.....	40.3	34.2	25.5	.1464	.4	30.0	53.2	16.3
	1912	270	57.4	.....	14.4	23.7	38.1	23.7	.1473	1.1	26.7	56.3	15.9
Laborers, dye house, male: 30 establish- ments.	1911	1,229	57.7	.....	.....	33.8	46.8	19.4	.1443	5.0	30.0	46.9	18.1
	1912	1,268	57.2	.....	21.4	11.7	51.2	15.8	.1529	3.2	12.4	43.4	41.1
Folders, male: 19 establish- ments.	1911	268	57.4	.....	.....	59.0	14.2	26.9	.2300	33.2	35.1	21.6	10.1
	1912	277	57.2	.....	8.3	45.8	24.5	21.3	.2464	22.3	23.5	39.0	15.1
Printers, male: 12 establish- ments.	1911	156	56.9	.....	.....	55.1	36.5	8.3	.4890	9.6	3.2	8.3	78.8
	1912	164	56.7	.....	13.4	40.2	37.8	8.5	.4867	11.0	5.5	7.9	75.6
Engravers, male: 12 establish- ments.	1911	179	55.8	17.9	.....	40.2	41.9	.....	.4790	5.0	63.7	30.2	1.1
	1912	166	55.4	17.5	21.7	18.7	42.2	.....	.4834	3.6	56.6	38.6	1.2

EXPLANATION OF SCOPE AND METHOD.

This report on the cotton-goods industry includes establishments manufacturing cambrics, chambrays, checks, converters' goods, colored goods, combed goods, cotton flannel, crepe, damask, denims, drills, foulardines, gingham, lawns, madras, napped fabrics, organ-dies, percales, print cloths, sateens, sheetings, shirtings, stripes, tickings, twills, etc. Mills making mixed cotton and silk goods are not included.

All of the establishments from which data were secured during the later years of the period both spin and weave. The textile directory for 1912 shows 520 establishments manufacturing exclusively the type of goods above indicated and doing both spinning and weaving, and the present report includes data from establishments in which are located 33 per cent of the spindles and 33 per cent of the looms in establishments engaged in the exclusive manufacture of such cotton goods and doing both spinning and weaving.

This report also includes data for 1911 and 1912 from 19 establishments engaged exclusively in finishing cotton goods and data for employees engaged in finishing cotton goods from 11 establishments which finish cotton goods in connection with manufacturing.

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:

Cotton-goods manufacturing:

1890 to 1903.....	26 identical establishments.
1903 and 1904.....	23 identical establishments.
1904 and 1905.....	30 identical establishments.
1905 and 1906.....	30 identical establishments.
1906 and 1907.....	38 identical establishments.
1907 to 1910.....	36 identical establishments.
1910 and 1911.....	59 identical establishments.
1911 and 1912.....	88 identical establishments.

Cotton-goods finishing:

1911 and 1912.....	30 identical establishments.
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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 88, the Bureau secured data for 1911 also from all establishments added, thus providing for an exact comparison of the two years 1911 and 1912.

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

In selecting the establishments from which to secure data for cotton-goods manufacturing the Bureau undertook to represent all States in which cotton-goods manufacturing and finishing 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 5,500 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 cotton-goods manufacturing industry, as reported by 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 two or three establishments for which the data are for the latter half of May.

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 of the various States, as measured by the number of employees in this industry, changed somewhat during the five years from 1905 to 1910; thus North Carolina ranked second in 1910 and third in 1905, and Maine ranked seventh in 1910 and ninth in 1905.

TOTAL NUMBER OF EMPLOYEES IN COTTON-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.
Massachusetts.....	108,018	88,033	18	21,172	11,090
South Carolina.....	45,454	37,271	20	12,486	4,847
North Carolina.....	47,231	35,356	13	5,105	2,232
Georgia.....	27,750	24,130	13	7,400	2,805
Rhode Island.....	25,365	21,917	3	3,861	2,069
New Hampshire.....	22,265	19,731	5	17,785	8,153
Pennsylvania.....	13,988	13,789	11	1,977	1,339
Connecticut.....	14,289	13,067	12	1,943	1,440
Maine.....	14,634	12,382	5	4,289	2,072
Alabama.....	12,731	11,480	7	4,336	1,571
New York.....	10,359	8,539	1	349	193
Other States ²	29,098	24,763	.....	.....	.....
Total.....	371,182	310,458	88	78,703	35,811

¹ Hours of pieceworkers not a matter of record in most establishments causes small representation.

² Includes States having less than 6,500 employees in 1910 and less than 5,500 in 1905.

According to both the census of 1905 and the census of 1910 more than 92 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 in the establishments from which the Bureau secured 1912 data was equal to 21.2 per cent of the total in the industry in 1910, and the number for which the Bureau secured detailed information in 1912 was equal to 9.6 per cent of the total in the industry in 1910.

The number of employees in cotton-goods finishing for whom data for 1912 were secured was as follows:

Massachusetts.....	1,217
Rhode Island.....	911
New Hampshire.....	441
Connecticut.....	421
New Jersey.....	249
Pennsylvania.....	127
Maine.....	122
New York.....	66
Other States.....	44
Total.....	3,598

DESCRIPTION OF THE PRINCIPAL PRODUCTIVE OCCUPATIONS.

The occupations included in 1912 in the Bureau's study of this industry are the following:

Cotton-goods manufacturing:	Cotton-goods finishing:
Card strippers.	Calendriers.
Drawing tenders.	Engravers.
Fine speeders.	Folders.
Loom fixers.	Knotters.
Slashers.	Laborers, bleach house.
Spinners, frame.	Laborers, color mixing.
Spinners, mule.	Laborers, dye house.
Trimmers or inspectors.	Printers.
Weavers.	

Brief descriptions of the work done by employees in each of these occupations follow:

COTTON GOODS MANUFACTURING.

CARD STRIPPERS.

Carding machines are used to disentangle and straighten the cotton fiber and remove foreign substances, receiving the cotton from other machines on which this process is begun.

The carding machines are fitted with fine wire teeth mounted on backing, called card clothing. Card strippers feed the cotton lap as it comes from the lapping machine to the carding machine, strip or clean the card clothing as it becomes clogged, and deliver the sliver or carded cotton in cans to the drawing tender. The sliver or drawing

comes from the machine a soft strand from one-fourth to one-half inch in diameter and is coiled in a can. The strands from several cards may be combined on a "railway" before being deposited in the receiving can. In automatic card stripping, which prevails in most mills, the card strippers strip the card by hand twice a day, and perhaps oftener if the stock is running bad. In mills where automatic machines are not used to strip cards, card strippers strip by hand every quarter or half hour, and do not deliver the drawings to the drawing tenders, can boys being employed to deliver the cans containing the drawings to the drawing tenders instead. Card stripping is done by males on a time or piece basis.

DRAWING TENDERS.

Several strands of sliver are combined and passed through the drawing frame to continue the process of parallelizing the fibers and reducing the sliver to uniform strength. In the machine the sliver goes through several sets of rolls, each set geared higher than the preceding. Drawing tenders attend these drawing frames. When the carding and drawing machines are located close together and there are railways attached to the card so that the drawings are deposited in cans only a few steps from the drawing machines, the drawing tenders remove the cans from the cards to the drawing machines and replace them with empty ones. Under these conditions the workers are called railway and drawing tenders. The work is done by males or females and generally on a time basis.

FINE SPEEDERS.

The sliver or strand of drawn-out cotton fiber after leaving the drawing frame generally passes through a slubbing frame and an intermediate frame where it is drawn out further and given a slight twist. The product is now known as roving.

The roving is taken to speeding machines which further combine, draw to smaller size, and twist the roving. The roving passes from perpendicular rows of bobbins on top of the speeder to bobbins arranged in a perpendicular row in front, the separate strands passing through small rolls. The roving from two separate bobbins wind on one bobbin, making one strand. The fine speeder tends the machine and the duties are to watch the strands and, when they break, take the end that drops as it passes through the steel rolls and place it against the rolls, where the ends unite as the rolls, which stopped automatically, are again set in motion. A regular speeder generally runs two machines and the earnings of the operator depend upon the number of bobbins to a machine and the fineness of the speeding;

that is, the finer the drawings are reduced by continued speeding the higher the rate of wages. In some mills fine speeders are called fly-frame tenders and fine-frame tenders, where the machine is the same as the fine speeder. In other mills fine frames and fly frames are constructed on somewhat different principles than the fine speeder, but they accomplish the same results. Employees tending fine speeders, fine frames, and fly frames are all classed in this report as fine speeders. In a few mills jacks are used to produce a particularly fine yarn that could not be produced through the use of fine speeders, fine frames, or fly frames. Data for jack tenders are not given in this report. The work of fine speeding is done by males or females, generally on a piece basis.

LOOM FIXERS.

Loom fixers make necessary repairs on looms and must understand weaving, besides being repairmen. On an average, a loom fixer will have the care of 96 common looms or 85 Draper or automatic looms. The work is done by males on a time or piece basis, generally on a time basis.

SLASHERS.

Warp yarn comes to the slashing machine wound on beams or rolls. A sufficient number of beams to provide the number of warp ends for the desired pattern are unrolled simultaneously. The yarn as it unwinds enters the size box, where it passes between rolls revolving in liquid sizing, and then between squeezer rolls which remove the surplus sizing. The warp is dried by passing between coils of steam pipes or over a heated cylinder. The purpose of the sizing is to stiffen and strengthen the yarn and make it smoother for weaving. After being dried, the warp, as the yarn is now called, passes through separators to separate the strands of yarn. It is then wound on one beam known as a warp beam, to be taken to the weaving room. The slasher either performs or directs the work required on the machine, which consists of placing and removing the beams, and often of mixing the sizing. The slasher generally has a helper. The work is done by males working on a time basis.

SPINNERS, FRAME.

Frame spinners operate a spinning machine. Each frame has two sides to it. Spools containing roving are placed in horizontal position on both sides of the frame. Ends of the roving strand are drawn through small metal rolls and attached to bobbins which are placed on a single row of perpendicular spindles on each side of the frame, at a distance of approximately 3 feet from the roving spools, so that the

roving spins from the roving spool to the bobbin on a downward incline. On an average there are 72 bobbins on each side of a frame. The machines on which frame spinning is done are placed in rows with passages between each way. For operative purposes each side is virtually a separate machine. A spinner attends several sides. A frame spinner's duty is to place the roving spools on the frame and to tie roving that breaks in spinning. The bobbins are placed on and taken off the frame by doffers. Frame spinning is done by males or females, generally females, and on a time or piece basis, usually time.

SPINNERS, MULE.

A spinning mule is a combination of drawing rollers and a spinning jenny. It is a machine from 25 to 160 feet in length which has a stationary frame and a movable frame or carriage. The carriage travels on an iron track a distance of about 64 inches and returns. Spools of roving are placed on spindles on the stationary frame. From the bobbins the roving passes between pairs of rolls on the frame and then to spindles on the carriage. During the outward movement of the carriage the rolls operate and attenuate the thread as in frame spinning, but the spindles on the carriage do not revolve. The carriage having traveled its distance, the rolls on the frame stop and the spindles on the carriage rotate, and as the carriage returns toward the frame the yarn is wound on bobbins on the spindles of the carriage.

The mule is a complicated machine, and skill is required to keep it adjusted properly. Men are almost always employed as mule spinners. No. 1 cotton yarn measures 840 yards per pound; No. 2 yarn measures 1,680 yards, etc., each additional number measuring a multiple of 840 yards. The mule spinner, besides operating the machine, must see that the mule is regulated to produce the desired number of yarn. When back boys, or piecers, are not employed the mule spinners piece broken ends of roving or yarn in the same manner as fine speeders piece ends together. The spools of roving and the bobbins are placed on and taken off of the mules by boys. The work of mule spinning is done by males on a piece or time basis, generally on a piece basis.

TRIMMERS OR INSPECTORS.

Trimmers trim cotton cloth as it runs from a beam or roll at the back of a trimming machine over the top of the machine, which is square and box like, and comes down on an inclined board like a slanting desk, passing over it and winding on a roll at the bottom of the machine in front. The rolls are driven by a belt the speed of which may be regulated by the trimmer at will. The trimmer uses a

curling iron, a small flat piece of steel about half an inch in width, bent double, with a space of about 2 inches between the ends, which are sharpened to a fine edge to pick out knots. Besides the curling iron, the trimmer uses a short, fine-toothed steel comb to "scratch out"—comb out—imperfections in the cloth. When there are pieces of cloth on which there is grease or dirt, the trimmer takes a needle threaded with colored yarn, and loops the thread through the cloth where the spot or spots are, and pulls the needle out, leaving the thread as a mark that the cloth is to be washed at this point. If there is a poor section of cloth it is marked in the same way to be cut out. Besides drawing the cloth over an inclined surface, another method is to lay the cloth on a table, and examine it for knots to be picked out, and imperfections to be marked or combed out. The result of the work is the same, but the employees working under the first system are called trimmers and under the second system, inspectors. The work is done by males or females, usually females, on a time or piece basis, generally time.

WEAVERS.

From a bobbin box at the right of their loom or looms weavers take bobbins wound with filling yarn, place them on a spindle inside a wooden shuttle and draw the end of the yarn on the bobbin through a hole in the side of the shuttle thus "threading the shuttle," and then place the shuttle in a shuttle box at the right of the loom, drawing the yarn through the shuttle hole to a sufficient length to throw it between two harnesses of the loom containing the warp. The weaver then moves a clutch located at the right of the loom near the shuttle box to start the loom. A picker stick strikes the end of the shuttle driving it through the warp and unwinding the yarn from the bobbin the length of its passage and passing the shuttle into a corresponding shuttle box at the left of the loom. Here it is hit by another picker stick which returns the shuttle to the first shuttle box, the yarn unwinding as before, this process continuing until the yarn is used off the bobbin, when the loom is stopped and another full bobbin substituted. Some weavers can change bobbins without stopping the loom, but this practice is not encouraged, as a shuttle is liable to slip and cause damage. After the shuttle passes from right to left a warp harness drops down and a frame the length of the loom with fine small perpendicular steel teeth through which the warp passes, presses up so that the side of the frame wire presses the filling yarn into place. Then a second warp harness drops down and the first harness comes up, the picker stick strikes the shuttle at the left of the loom, and the yarn from the bobbin passes through the warp whose threads are thus crossed first above and then below the filling

yarn, and the frame with the fine teeth comes up and again presses the filling yarn into the web. If a filling or warp yarn breaks, a drop wire stops the loom and the weaver ties the broken ends and again starts the loom. The number of harnesses on a loom depends on the style or pattern of a cloth. Each time the filling yarn passes from one side to the other of the loom, through the warp, it is called a pick, hence the yarn starting from the right-hand shuttle box, going to the left-hand shuttle box and returning, two picks have been made. As the picks form in the warp, weaving the cloth, the cloth winds upon a horizontal wooden roll or spool at the bottom of the loom, and the cloth filling this roll or spool constitutes a cut or cuts, a cut being a stated number of yards. Besides those looms in which the weaver inserts the bobbin by hand, and replaces it with another, when empty, there are looms that are automatic. One automatic loom has a circular holder the length to hold a bobbin (top) in which bobbins up to 24 can be placed. Starting the loom, a bobbin drops from the holder into a shuttle in the shuttle box of the loom, and is held by a spring, the yarn of the bobbin threading automatically, and the shuttle passing from the right shuttle box to the left, and back and forth, until the yarn is woven off the bobbin. Then a plunger throws the empty bobbins out of the shuttle into a box on the floor, and a full bobbin from the circular holder takes its place in the manner described. If thread breaks in weaving, a drop wire, through which the warp runs drops down and throws off a switch, stopping the loom for the weaver to "mend the thread"—tie the broken ends. Weavers on common looms run from 4 to 8 looms, and on automatic, from 12 to 24.

Still another loom of automatic construction is used for weaving goods of different colors, particularly gingham goods. The looms are constructed so that filling of different colors is inserted at predetermined intervals. The looms are equipped with a bobbin holder, called a magazine or battery, in which four bobbins wound with filling of one color are arranged in a groove, the bobbins resting lengthwise under each other from the top bobbin down. There will be from two to three other similar rows of bobbins, each row of a different colored filling yarn. This fills the bobbin holder with either 12 or 16 bobbins. The construction of the loom gives practically a continuous weave of alternating colors. The average number of looms of this style run by a weaver is 14.

Weaving is done by males or females and generally on a piece basis.

COTTON GOODS FINISHING (BLEACHING, DYEING, AND PRINTING).

CALENDRERS.

Calendriers run the cloth between steel rolls to give it finish or gloss. In the trade it is called "getting the right hand"—the proper finish. The rolls are generally hot, but at times cold rolls are used. The process might be termed "ironing." The work is done by males on a time basis.

ENGRAVERS.

Engravers embrace sketch makers, machine engravers, roll engravers, plate cutters, dye makers, clampers, and etchers. With the exception of clampers, the occupation name explains the nature of the work done. The clamper takes the engraving, after it is made on hard steel, and clamps it against soft steel of the same surface space, and secures an impress of the pattern or figure engraved on the hard steel, making what is known to the engraving trade, a "female." The "female" is kept as a copy of the engraving, to make another like pattern or figure, if desired, after the original plate is worn out or destroyed. A great many establishments do not have engravers for each special kind of engraving work mentioned, but have a few engravers doing all the work enumerated. Some establishments have only one engraver, and if there is more work than the one engraver can do, have the extra work done outside. The work is done by males on a time basis.

FOLDERS.

Folders fold cloth into webs or pieces, and count and mark the number of yards in a web or piece. They also reject and leave out of the web or piece being folded any cloth that is damaged or not of standard grade. Folding is handwork. It is done by males on a time basis.

KNOTTERS.

After the cloth has been folded, girls run a thread or small string through at the end of each side of the web or piece, and tie the thread or small string together in a knot across the ends, to keep the cloth in folds. The occupation is also called sewing. The work is done by females on a time basis.

LABORERS, BLEACH HOUSE.

From the gray room or the opening room, in which the bales of cotton cloth to be finished are opened and a number of cuts of cloth

sewed together, the cloth is conveyed on conveyors to the bleach house. In the bleach house the cloth moving rapidly on conveyors, passes through a vat filled with a solution of lime or caustic, generally lime, the vat being called the lime or caustic machine. It is then conveyed to a water vat called the souring machine, to "sour," partly washing off the lime or caustic solution, and passed between rolls to squeeze out the remaining liquid. From the conveyors the cloth goes into kiers or bins, where it is packed, and is steamed from 6 to 10 hours. The work is all the work of common labor; watching the cloth to see that it runs on conveyors properly is designated floor work; watching the lime or caustic machines and souring machines, machine work; placing the cloth in kiers or bins, plating down or piling; and steaming the cloth, boiling. But all establishments where the work is done, call the employees doing the work, bleach-house laborers, or laborers, bleach house. Placing the cloth in kiers or bins is to a large extent the work of boys or young men. The work in the bleach house is done by males on a time basis.

LABORERS, COLOR MIXING.

A color mixer selects the colors to be mixed for use on the rolls of the printing machine. Laborers mix these colors as directed by the color mixer. These laborers convey the colors to the printing machine, bring the empty containers back to the coloring department, and clean all receptacles used in preparing and conveying color. The work is done by males on a time basis.

LABORERS, DYEHOUSE.

A dyer selects the dyes to be used. Laborers under his direction place the dye in vats, kettles, or dyeing machines, place the cloth in some one of these appliances, and attend to the dyeing. In addition to the dyeing machines there are other machines in the dyehouse for washing and drying the goods.

The work of the dyehouse is performed by males working on a time basis. It varies from the common labor to the tending of a machine which may require some technical skill.

The laborers of the three departments given—bleachhouse, color mixing, and dyehouse—get the same rate of wages as paid in the starching, drying, and soaping departments, and to tentering machine tenders, and well represent all these classes of work.

PRINTERS.

Printers have charge of the printing machines, under the supervision of the superintendent or overseer of printing. It is their duty

to see that the rolls on which the cloth is wound to be printed and the rolls on which it is wound after printing are properly placed and taken off the machine; that the color feeds on to the print roll evenly, and is properly distributed over the engraved rolls or plates; that the rolls or plates are properly secured, and that the speed of the printing machine is right. The work is done by males on a time basis.

EXPLANATION OF TABLES.

This report includes six general tables for cotton-goods manufacturing covering the six-year period 1907 to 1912, and six general tables for cotton-goods finishing covering the two years 1911 and 1912. Under each of the two divisions of the industry, three of the general tables present data as to rates of wages per hour and three present data as to nominal full-time hours of work per week, as follows:

COTTON GOODS MANUFACTURING.

Table I.—Classified rates of wages per hour in the United States, by years, 1907 to 1912.

Table II.—Classified rates of wages per hour in each year, by States, 1907 to 1912.

Table III.—Classified rates of wages per hour in each State, by years, 1907 to 1912.

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

Table V.—Classified nominal full-time hours of work per week in each year, by States, 1907 to 1912.

Table VI.—Classified nominal full-time hours of work per week in each State, by years, 1907 to 1912.

Table I.—Classified rates of wages per hour in the United States, by years, 1907 to 1912 (pp. 30 to 34).—This table summarizes the data concerning rates of wages secured from the whole number of establishments furnishing information. For each of the principal occupations, card strippers, drawing tenders, fine speeders, loom fixers, slashers, frame spinners, mule spinners, trimmers or inspectors, and weavers, data are shown for each of the six years 1907 to 1912.

The table is divided into two sections, the first section showing the number and the second section the per cent of employees earning each classified rate of wages per hour. In addition to showing classified rates of wages, the table shows number of establishments from which data were secured, number of employees, average nominal full-time hours per week, and average rate of wages per hour.

The rate of wages per hour was computed for each employee in the case of time workers by dividing the daily or weekly rate by the number of hours per day or week, and in the case of pieceworkers and those working both as time workers and pieceworkers by dividing the amount earned during the pay-roll period by the hours actually worked.

As previously stated, comparisons from year to year can be made only between identical establishments, and data in this table are presented for identical establishments in such a way as to make possible comparisons from year to year.

The relative nominal full-time hours per week and the relative rates of wages per hour for 1907 to 1912, shown on pages 9 and 10, 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 weavers the average nominal full-time hours per week in 36 establishments was 60.3 in 1907 and 59.6 in the same 36 establishments in 1908. The average in 1908 (59.6) was 98.84 per cent of the average (60.3) in 1907. Bulletin No. 77 (July, 1908) shows that, for nominal full-time hours per week for male weavers, the relative was 96.6 in 1907 (average for 1890-1899=100). The average nominal full-time hours for 1908 were then reduced to a comparison with the base period (average for 1890-1899=100) by computing 98.84 per cent of 96.6, which is 95.5. The same method was followed in computing the relative rates of wages per hour; the average in 1908 (\$0.1596) was 99.19 per cent of the average in 1907 (\$0.1609); the relative (average for 1890-1899=100) for 1907, as shown in Bulletin No. 77, was 147.1; and 99.19 per cent of 147.1 is 145.9, or the relative rate of wages per hour in 1908 if the average for 1890-1899 is the base, or 100. In computing for this occupation the relatives for 1911, comparison was made of the data for 58 identical establishments, and in computing the relatives for 1912, comparison was made of the data for 88 identical establishments.

Table II.—Classified rates of wages per hour in each year, by States, 1907 to 1912 (pp. 35 to 50).—This table affords an easy comparison of rates of wages per hour in the several States. It shows for each of the principal occupations the number of employees earning each classified rate of wages per hour. Under each year, 1907 to 1912, or for such of these years as data are available, the data are shown for each of the States represented by any considerable number of employees. In addition to classified rates of wages, average rates of wages per hour and average nominal full-time hours per week are shown.

Table III.—Classified rates of wages per hour in each State, by years, 1907 to 1912 (pp. 51 to 65).—This table affords an easy comparison of rates of wages per hour in the several years, 1907 to 1912. It shows for each of the principal occupations the number of employees earning each classified rate of wages per hour. For each of the more important States in this industry, the data are shown for each of the six years, 1907 to 1912, or for such of these years as data are available. In addition to classified rates of wages, average rates of wages per hour and average nominal full-time hours per week are shown.

Table IV.—Classified nominal full-time hours of work per week in the United States, by years, 1907 to 1912 (pp. 66 to 69).—This table summarizes the data concerning nominal full-time hours of work per week secured from the whole number of establishments furnishing information. For each of the principal occupations, card strippers, drawing tenders, fine speeders, loom fixers, slashers, frame spinners, mule spinners, trimmers or inspectors, and weavers, data are shown for each of the six years, 1907 to 1912. By nominal full-time hours per week is meant full time not excluding time shut down owing to temporary depressions or other cause temporary in nature.

The table is divided into two sections, the first section showing the number and the second the per cent of employees under each classified number of nominal full-time working hours per week. In addition to showing classified nominal full-time hours, the table shows number of establishments from which data were secured, number of employees, and average nominal full-time hours per week.

In using this table, comparisons from year to year should be made of identical establishments. The data are so arranged that such comparisons are easily made.

Table V.—Classified nominal full-time hours of work per week in each year, by States, 1907 to 1912 (pp. 70 to 83).—This table affords an easy comparison of nominal full-time hours of work per week in the several States. It shows for each of the principal occupations the number of employees under each classified number of nominal full-time working hours per week. Under each year, 1907 to 1912, or for such of these years as data are available, the data are shown for each of the States represented by any considerable number of employees. In addition to classified nominal full-time hours, average nominal full-time hours per week are shown.

Table VI.—Classified nominal full-time hours of work per week in each State, by years, 1907 to 1912 (pp. 84 to 97).—This table affords an easy comparison of nominal full-time hours of work per week in the several years, 1907 to 1912. It shows for each of the principal occupations the number of employees under each classified number of nominal full-time working hours per week. For each of the more

important States in this industry the data are shown for each of the six years, 1907 to 1912, or for such of those years as data are available. In addition to classified nominal full-time hours, average nominal full-time hours per week are shown.

COTTON GOODS FINISHING.

Table VII.—Classified rates of wages per hour in the United States, by years, 1911 and 1912.

Table VIII.—Classified rates of wages per hour in each year, by States, 1911 and 1912.

Table IX.—Classified rates of wages per hour in each State, by years, 1911 and 1912.

Table X.—Classified nominal full-time hours of work per week in the United States, by years, 1911 and 1912.

Table XI.—Classified nominal full-time hours of work per week in each year, by States, 1911 and 1912.

Table XII.—Classified nominal full-time hours of work per week in each State, by years, 1911 and 1912.

Table VII.—Classified rates of wages per hour in the United States, by years, 1911 and 1912 (p. 98).—This table summarizes the data concerning rates of wages secured from the whole number of establishments furnishing information. For each of the principal occupations, calenders; engravers; folders; knotters; laborers, bleach house; laborers, color mixing; laborers, dyehouse, and printers, data are shown for each year, 1911 and 1912.

The table is divided into two sections, the first section showing the number and the second section the per cent of employees earning each classified rate of wages per hour. In addition to showing classified rates of wages, the table shows number of establishments from which data were secured, number of employees, average nominal full-time hours per week, and average rates of wages per hour.

The rate of wages per hour was computed for each employee in the case of time workers by dividing the daily or weekly rate by the number of hours per day or week; and in the case of pieceworkers and those working both as time workers and pieceworkers by dividing the amount earned during the pay-roll period by the hours actually worked.

Table VIII.—Classified rates of wages per hour in each year, by States, 1911 and 1912 (pp. 99 to 101).—This table affords an easy comparison of rates of wages per hour in the several States. It shows for each of the principal occupations the number of employees earning each classified rate of wages per hour. Under each year, 1911 and 1912, the data are shown for each State. In addition to classified

rates of wages, average rates of wages per hour and average nominal full-time hours per week are shown.

Table IX.—Classified rates of wages per hour in each State, by years, 1911 and 1912, (pp. 102 and 103).—This table affords an easy comparison of rates of wages per hour in the years 1911 and 1912. It shows for each of the principal occupations the number of employees earning each classified rate of wages per hour. For each of the more important States in this industry the data are shown for each year, 1911 and 1912. In addition to classified rates of wages, average rates of wages per hour and average nominal full-time hours per week are shown.

Table X.—Classified nominal full-time hours of work per week in the United States, by years, 1911 and 1912 (p. 104).—This table summarizes the data concerning nominal full-time hours of work per week secured from the whole number of establishments furnishing information. For each of the principal occupations, calendriers; engravers; folders; knotters; laborers, bleach house; laborers, color mixing; laborers, dyehouse; and printers, data are shown for each year, 1911 and 1912. By nominal full-time hours per week is meant full time, not excluding time shut down owing to temporary depressions or other cause temporary in nature.

The table is divided into two sections, the first section showing the number and the second the per cent of employees under each classified number of nominal full-time working hours per week. In addition to showing classified nominal full-time hours, the table shows number of establishments from which data were secured, number of employees, and average nominal full-time hours per week.

Table XI.—Classified nominal full-time hours of work per week in each year, by States, 1911 and 1912 (pp. 105 to 107).—This table affords an easy comparison of nominal full-time hours of work per week in the several States. It shows for each of the principal occupations the number of employees under each classified number of nominal full-time working hours per week. Under each year, 1911 and 1912, the data are shown for each State represented by any considerable number of employees. In addition to classified nominal full-time hours, average nominal full-time hours per week are shown.

Table XII.—Classified nominal full-time hours of work per week in each State, by years, 1911 and 1912 (pp. 108 and 109).—This table affords an easy comparison of nominal full-time hours of work per week in each year, 1911 and 1912. It shows for each of the principal occupations the number of employees under each classified number of nominal full-time working hours per week. For each of the more important States in this industry the data are shown for each of the years, 1911 and 1912. In addition to classified nominal full-time hours, average nominal full-time hours per week are shown.

TABLE I.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912.

COTTON GOODS MANUFACTURING.

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

NUMBER.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour.														
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.			
Card strippers, male:																			
36 establishments.	1907	284	59.8	\$0.1314					3	33	24	110	98	16					
	1908	289	59.3	.1240					2	32	60	148	40	7					
	1909	287	59.3	.1207					2	30	77	163	15						
	1910	318	57.8	.1235					3	16	83	196	19	1					
59 establishments.	1910	523	58.4	.1199			1	28	27	138	295	29	5						
	1911	515	58.3	.1220			1	20	28	135	298	23	5						
88 establishments.	1911	786	58.3	.1209			1	26	30	225	461	37	6						
	1912	800	57.1	.1339				6	10	151	253	344	36						
Drawing tenders, male:																			
34 establishments.	1907	219	60.4	.0997	17	22	17	13	17	74	54	5							
	1908	234	59.7	.0976	8	18	36	19	29	85	35	4							
	1909	253	59.7	.0985	7	23	21	24	47	93	35	3							
	1910	263	58.5	.0975	13	9	34	18	53	81	40	5							
56 establishments.	1910	436	59.5	.0962	15	15	46	58	124	126	47	5							
	1911	457	59.7	.0974	15	22	37	90	116	99	70	8							
84 establishments.	1911	750	59.5	.0968	31	22	83	125	186	192	90	19	2						
	1912	723	57.9	.1080	7	12	84	39	71	259	184	51	14	2					
Drawing tenders, female:																			
19 establishments.	1907	234	60.2	.0926	19	8	20	38	41	100	8								
	1908	232	59.3	.0932	18	13	40	43	25	54	36								
	1909	249	59.4	.0905	19	12	38	54	30	79	17								
	1910	233	58.1	.0893	14	6	39	56	51	61	5	1							
27 establishments.	1910	359	58.2	.0898	14	26	40	71	104	98	5	1							
	1911	344	57.7	.0940	16	11	43	59	86	95	33	1							
42 establishments.	1911	502	57.8	.0946	16	19	47	68	155	151	45	1							
	1912	525	57.0	.1095	4	12	4	26	58	327	69	20	4	1					
Fine speeders, male:																			
16 establishments.	1907	201	63.9	.1157	2	12	10	12	17	63	52	18	10	5					
	1908	224	61.1	.1225			6	14	24	77	58	20	12	5	8				
	1909	258	61.2	.1286		1	4	10	19	66	79	52	21	4	2				
	1910	249	61.0	.1306			4	11	14	63	72	43	32	8	2				
32 establishments.	1910	426	61.4	.1310			4	23	26	107	115	69	60	19	3				
	1911	396	61.4	.1351			1	20	20	87	118	67	45	35	3				
62 establishments.	1911	623	61.2	.1350			5	30	32	131	168	140	66	46	5				
	1912	666	59.7	.1421		1	5	19	16	97	198	155	106	60	9				
Fine speeders, female:																			
35 establishments.	1907	721	59.3	.1390		2	7	26	25	95	176	242	123	19	6				
	1908	694	59.1	.1377			8	25	36	118	168	185	100	51	3				
	1909	714	59.1	.1345			1	13	31	119	246	246	51	5	2				
	1910	800	57.6	.1338			10	26	39	125	236	217	64	29	4				
57 establishments.	1910	1,175	57.8	.1334			11	36	59	194	413	326	99	31	6				
	1911	1,189	57.9	.1353		2	7	29	62	202	352	388	106	34	5	2			
82 establishments.	1911	1,753	57.9	.1362		3	13	38	89	283	505	589	169	53	8	3			
	1912	1,784	56.6	.1490		2	2	26	60	195	286	593	429	149	39	3			

TABLE I.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

NUMBER—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour.													
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.		
Loom fixers, male:																		
36 establishments.	1907	631	60.8	\$0.2069						2	16	144	75	29	222	143		
	1908	619	59.7	.2020							7	69	155	69	206	113		
	1909	680	59.8	.1973						2	9	70	194	87	234	84		
	1910	728	58.3	.2022								9	68	175	100	213	163	
59 establishments.	1910	1,267	58.7	.1998								14	221	240	111	503	178	
	1911	1,314	58.6	.2031								12	213	236	112	544	197	
88 establishments.	1911	2,200	58.6	.2026								12	335	398	144	1,054	257	
	1912	2,273	57.7	.2244									135	478	132	662	846	
Slashers, male:																		
35 establishments.	1907	159	60.3	.1829					1	30	16	7	9	8	82	6		
	1908	158	59.6	.1828						12	32	17	8	29	36	24		
	1909	167	59.4	.1795						10	33	21	6	34	48	15		
	1910	166	58.1	.1808						9	28	20	13	38	49	9		
57 establishments.	1910	276	58.4	.1780						9	63	28	16	79	72	9		
	1911	303	58.5	.1776						10	63	38	20	82	81	9		
85 establishments.	1911	455	58.5	.1937			6			10	68	56	26	110	111	68		
	1912	447	57.4	.2153						8	49	58	34	13	182	103		
Spinners, frame, male:																		
25 establishments.	1907	184	59.4	.1238	3	4	15	8	29	32	32	23	31	2	5	.....	
	1908	214	58.8	.1193	4	3	10	7	10	32	51	28	15	4	.....		
	1909	188	58.9	.1173	4	16	9	5	25	36	52	23	6	12	.....		
	1910	188	57.2	.1192	1	11	1	4	32	40	62	21	10	6	.....		
36 establishments.	1910	261	57.2	.1198	1	15	3	5	34	54	105	25	13	6	.....		
	1911	420	57.0	.1247	2	6	1	14	23	95	184	78	11	6	.....		
46 establishments.	1911	700	57.2	.1257	2	6	1	17	52	171	278	133	33	6	1	.....	
	1912	679	56.2	.1484	1	6	5	23	114	122	169	108	104	32	.....		
Spinners, frame, female:																		
36 establishments.	1907	2,317	61.0	.1103	58	224	202	174	367	343	527	287	92	42	1	.....	
	1908	2,114	59.9	.1073	56	197	208	147	156	612	466	186	59	5	22	.....	
	1909	2,408	59.8	.1063	47	166	178	182	406	634	573	185	38	1	.....		
	1910	2,500	58.5	.1119	45	147	164	191	274	674	597	316	84	8	.....		
59 establishments.	1910	3,704	59.0	.1083	93	288	298	339	449	861	847	406	107	14	2	.....	
	1911	3,735	59.1	.1105	34	218	286	369	488	871	891	434	124	20	.....		
88 establishments.	1911	5,981	59.1	.1110	55	300	378	594	767	1,557	1,498	649	150	28	5	.....	
	1912	6,214	58.0	.1232	16	159	322	325	512	1,452	1,304	1,591	397	121	15	.....	
Spinners, mule, male:																		
11 establishments.	1907	199	58.6	.2343							2	1	8	23	107	58		
	1908	193	58.4	.2249								2	13	21	112	45		
	1909	156	58.5	.2209								4	10	17	106	19		
	1910	131	56.8	.2181								1	11	27	80	12		
14 establishments.	1910	222	57.0	.2192								3	11	43	139	26		
	1911	207	57.0	.2247								2	5	6	33	133	28	
18 establishments.	1911	288	56.8	.2546								2	5	6	33	147	95	
	1912	266	55.7	.2789								1	.....	5	20	95	145	

TABLE I.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

NUMBER—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour.														
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.			
Trimmers, or inspectors, female:	1907	251	60.4	\$0.1018	7	26	31	2	40	92	24	24	5	.....	.....	.....	.....	.....	.....
	1908	261	60.0	.1008	13	41	22	77	49	29	15	15	.....	.....	.....	.....	.....	.....	.....
	1909	285	59.6	.0994	5	45	15	108	81	2	21	7	1	.....	.....	.....	.....	.....	.....
	1910	297	58.1	.1007	1	4	40	16	88	120	.....	21	5	2	.....	.....	.....	.....	.....
46 establishments.	1910	408	58.3	.0994	4	10	49	38	109	159	6	25	6	2	.....	.....	.....	.....	.....
	1911	474	58.7	.1018	4	12	56	27	121	177	32	41	3	.....	.....	.....	.....	.....	.....
75 establishments.	1911	712	58.7	.1031	11	12	90	62	145	236	89	48	16	2	1	.....	.....	.....	.....
	1912	708	58.0	.1123	6	61	66	61	151	256	148	53	41	7	3	.....	.....	.....	.....
Weavers, male:	1907	2,769	60.3	.1609	.....	.....	6	61	149	333	433	372	474	454	415	72	.....	.....	.....
	1908	2,848	59.6	.1596	.....	.....	1	40	113	418	462	437	402	456	479	40	.....	.....	.....
	1909	3,123	59.8	.1506	.....	.....	5	47	147	517	573	671	534	293	303	33	.....	.....	.....
	1910	3,037	58.3	.1544	.....	.....	1	24	129	430	581	632	542	318	348	32	.....	.....	.....
58 establishments.	1910	5,334	58.8	.1509	.....	.....	8	59	211	845	1,119	1,125	900	535	491	41	.....	.....	.....
	1911	5,012	58.8	.1549	.....	.....	4	51	172	612	961	1,169	902	556	540	45	.....	.....	.....
88 establishments.	1911	8,855	58.6	.1556	.....	.....	9	90	278	1,048	1,709	1,904	1,672	1,133	945	67	.....	.....	.....
	1912	9,751	57.5	.1688	.....	.....	.....	50	203	900	1,452	1,565	1,839	1,545	1,911	286	.....	.....	.....
Weavers, female:	1907	3,724	59.5	.1514	.....	.....	12	84	165	516	646	707	821	505	257	11	.....	.....	.....
	1908	3,903	59.0	.1521	.....	.....	3	59	151	593	768	779	796	486	252	16	.....	.....	.....
	1909	3,930	59.1	.1438	.....	.....	.....	69	181	689	863	1,009	725	228	153	13	.....	.....	.....
	1910	3,905	57.6	.1508	.....	.....	.....	45	162	704	851	1,011	664	292	166	10	.....	.....	.....
59 establishments.	1910	6,334	57.8	.1471	.....	.....	3	96	278	1,213	1,423	1,583	960	498	267	13	.....	.....	.....
	1911	6,242	57.8	.1440	.....	.....	7	74	268	1,118	1,482	1,531	1,019	437	292	14	.....	.....	.....
88 establishments.	1911	10,792	57.9	.1479	.....	.....	12	124	438	1,689	2,381	2,460	1,929	1,100	619	40	.....	.....	.....
	1912	10,980	56.9	.1631	.....	.....	.....	91	283	1,109	1,611	2,081	2,222	1,798	1,647	138	.....	.....	.....

PER CENT.

Card strippers, male:	1907	284	59.8	\$0.1314	.....	.....	1.1	11.6	8.5	38.7	34.5	5.6	.....	.....	.....	.....	.....	.....	.....
	1908	289	59.3	.1240	.....	.....	.....	7	11.1	20.8	51.2	13.8	2.4	.....	.....	.....	.....	.....	.....
	1909	287	59.3	.1207	.....	.....	.....	.....	7	10.5	26.8	56.8	5.2	.....	.....	.....	.....	.....	.....
	1910	318	57.8	.1235	.....	.....	.....	.....	9	5.0	26.1	61.6	6.0	.....	.....	.....	.....	.....	.....
59 establishments.	1910	523	58.4	.1199	.....	.....	0.2	5.4	5.2	26.4	56.4	5.5	1.0	.....	.....	.....	.....	.....	.....
	1911	515	58.3	.1220	.....	.....	.....	2	3.9	5.4	26.2	57.9	5.4	1.0	.....	.....	.....	.....	.....
88 establishments.	1911	786	58.3	.1209	.....	.....	.....	1	3.3	3.8	28.6	58.7	4.7	.....	.....	.....	.....	.....	.....
	1912	800	57.1	.1339	.....	.....	.....	.....	8	1.3	18.9	31.6	43.0	4.5	.....	.....	.....	.....	.....
Drawing tenders, male:	1907	219	60.4	.0997	7.8	10.0	7.8	5.9	7.8	33.8	24.7	2.3	.....	.....	.....	.....	.....	.....	.....
	1908	234	59.7	.0976	3.4	7.7	15.4	8.1	12.4	36.3	15.0	1.7	.....	.....	.....	.....	.....	.....	.....
	1909	253	59.7	.0985	2.8	9.1	8.3	9.5	18.6	36.8	13.8	1.2	.....	.....	.....	.....	.....	.....	.....
	1910	253	58.5	.0975	5.1	3.6	13.4	7.1	20.9	32.0	15.8	2.0	.....	.....	.....	.....	.....	.....	.....
56 establishments.	1910	436	59.5	.0962	3.4	3.4	10.6	13.3	28.4	21.9	10.8	1.1	.....	.....	.....	.....	.....	.....	.....
	1911	457	59.7	.0974	3.3	4.8	8.1	19.7	25.4	28.7	15.3	1.8	.....	.....	.....	.....	.....	.....	.....
84 establishments.	1911	750	59.5	.0968	4.1	2.9	11.1	16.7	24.8	25.6	12.0	2.5	.....	.....	.....	.....	.....	.....	.....
	1912	723	57.9	.1080	1.0	1.7	11.6	5.4	9.8	35.8	25.4	7.1	1.9	0.3	.....	.....	.....	.....	.....

TABLE I.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.
COTTON GOODS MANUFACTURING—Continued.
PER CENT—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour.													
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.		
Drawing tenders, female:																		
19 establishments.	1907	234	60.2	\$0.0926	8.1	3.4	8.5	16.2	17.5	42.7	3.4	.....	.....	.....	.....
	1908	232	59.3	.0632	7.8	5.6	17.2	18.5	10.8	23.3	16.8	.....	.....	.....	.....
	1909	249	59.4	.0905	7.6	4.8	15.3	21.7	12.0	31.7	6.8	.....	.....	.....	.....
	1910	233	58.1	.0693	6.0	2.6	16.7	24.0	21.9	26.2	2.1	0.4	.....	.....	.....
27 establishments.	1910	359	58.2	.0898	3.9	7.2	11.1	19.8	29.0	27.3	1.4	.3	.....	.....	.....
	1911	344	57.7	.0940	4.7	3.2	12.5	17.2	25.0	27.6	9.6	.3	.....	.....	.....
41 establishments.	1911	502	57.8	.0946	3.2	3.8	9.4	13.5	30.9	30.1	9.0	.2	.....	.....	.....
	1912	525	57.0	.1095	.8	2.3	.8	5.0	11.0	62.3	13.1	3.8	0.8	0.2	.....		
Fine speeders, male:																		
16 establishments.	1907	201	63.9	.1157	1.0	6.0	5.0	6.0	8.5	31.3	25.9	9.0	5.0	2.5	.....		
	1908	224	61.1	.1225	.....	2.7	6.3	10.7	34.4	25.9	8.9	5.4	2.2	3.6	.....		
	1909	258	61.2	.1286	.....	4	1.6	3.9	7.4	25.6	30.6	20.2	8.1	1.6	.8		
	1910	249	61.0	.1306	.....	.....	1.6	4.4	5.6	25.3	28.9	17.3	12.9	3.2	.8	
32 establishments.	1910	426	61.4	.1310	.....	.....	.9	5.4	6.1	25.1	27.0	16.2	14.1	4.5	.7
	1911	396	61.4	.1351	.....	.....	.3	5.1	5.1	22.0	29.8	16.9	11.4	8.8	.8
62 establishments.	1911	623	61.2	.1350	.....	.....	.8	4.8	5.1	21.0	27.0	22.5	10.6	7.4	.8
	1912	666	59.7	.1421	.....	.2	.8	2.9	2.4	14.6	29.7	23.3	15.9	9.0	1.4	
Fine speeders, female:																		
35 establishments.	1907	721	59.3	.1390	.....	.3	1.0	3.6	3.5	13.2	24.4	33.6	17.1	2.6	.8	
	1908	694	59.1	.1377	.....	.....	1.2	3.6	5.2	17.0	24.2	26.7	14.4	7.3	.4	
	1909	714	59.1	.1345	.....	.....	.1	1.8	4.3	16.7	34.5	34.5	7.1	.7	.3
	1910	800	57.6	.1338	.....	.....	1.3	3.3	4.9	15.6	35.8	27.1	8.0	3.6	.5	
57 establishments.	1910	1,175	57.8	.1334	.....	.....	.9	3.1	5.0	16.5	35.1	27.7	8.4	2.6	.5
	1911	1,189	57.9	.1353	.....	.2	.6	2.4	5.2	17.0	29.6	32.6	8.9	2.9	4.0	
82 establishments.	1911	1,753	57.9	.1362	.....	.2	.7	2.2	5.1	16.1	28.8	33.6	9.6	3.0	.5	
	1912	1,784	56.6	.1490	.....	.1	.1	1.5	3.4	10.9	16.0	33.2	24.0	8.4	2.2	
Loom fixers, male:																		
36 establishments.	1907	631	60.8	.2069	.....	.....	.....	.....	.....	.3	2.5	22.8	11.9	4.6	35.2
	1908	619	59.7	.2020	.....	.....	.....	.....	.....	.....	1.1	11.1	25.0	11.1	33.3
	1909	680	59.8	.1973	.....	.....	.....	.....	.....	.....	.3	1.3	10.3	23.5	12.8
	1910	728	58.3	.2022	.....	.....	.....	.....	.....	.....	1.2	9.3	24.0	13.7	29.3
59 establishments.	1910	1,267	58.7	.1998	.....	.....	.....	.....	.....	.....	1.1	17.4	18.9	8.8	39.7
	1911	1,314	58.6	.2031	.....	.....	.....	.....	.....	.....	.9	16.2	18.0	8.5	41.4
88 establishments.	1911	2,200	58.6	.2026	.....	.....	.....	.....	.....	.....	.5	15.2	18.1	6.5	47.9
	1912	2,273	57.7	.2244	.....	.....	.....	.....	.....	.....	.....	5.9	21.0	6.7	29.1
Slashers, male:																		
35 establishments.	1907	159	60.3	.1829	.....	.....	.....	.....	.6	18.9	10.1	4.4	5.7	5.0	51.6
	1908	158	59.6	.1828	.....	.....	.....	.....	.....	7.6	20.3	10.8	5.1	18.4	22.8
	1909	167	59.4	.1795	.....	.....	.....	.....	.....	6.0	19.8	12.6	3.6	20.4	28.7
	1910	166	58.1	.1808	.....	.....	.....	.....	.....	5.4	16.9	12.0	7.8	22.9	29.5
57 establishments.	1910	276	58.4	.1780	.....	.....	.....	.....	.....	3.3	22.8	10.1	5.8	28.6	26.1
	1911	303	58.5	.1776	.....	.....	.....	.....	.....	3.3	20.8	12.5	6.6	27.1	26.7
85 establishments.	1911	455	58.5	.1937	.....	1.3	.....	.....	.....	2.2	14.9	12.3	5.7	24.2	24.4
	1912	447	57.4	.2153	.....	.....	.....	.....	.....	1.8	11.0	13.0	7.6	2.9	40.7
Spinners' frame, male:																		
25 establishments.	1907	184	59.4	.1238	1.6	2.2	8.2	4.3	15.8	17.4	17.4	12.5	16.8	1.1	2.7			
	1908	214	58.8	.1193	1.9	1.4	4.7	3.3	4.7	38.3	23.8	13.1	7.0	1.9	.....		
	1909	188	58.9	.1173	2.1	8.5	4.8	2.7	13.3	19.1	27.7	12.2	3.2	6.4	.....		
	1910	188	57.2	.1192	.5	5.9	.5	2.1	17.0	21.3	33.0	11.2	5.3	3.2	.....		
36 establishments.	1910	261	57.2	.1198	.4	5.7	1.1	1.9	13.0	20.7	40.2	9.6	5.0	2.3	.....		
	1911	420	57.0	.1247	.4	1.4	.2	3.3	5.5	22.6	43.8	18.6	2.6	1.4	.....		
46 establishments.	1911	700	57.2	.1257	.2	.9	.1	2.4	7.4	24.4	39.7	19.0	4.7	.9	.....		
	1912	679	56.2	.1484	.....	.1	.9	.7	3.4	16.8	18.0	24.9	15.2	15.3	4.7	

TABLE I.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Concluded.

COTTON GOODS MANUFACTURING—Continued.

PER CENT—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average nom-inal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
Spinners, frame, female:																
36 establish-ments.	1907	2,317	61.0	\$0.1103	2.5	9.7	8.7	7.5	15.8	14.8	22.7	12.4	4.0	1.8	.....	.....
	1908	2,114	59.9	.1073	2.6	9.3	9.3	7.0	7.4	28.9	22.0	8.8	2.8	.2	1.0	.....
	1909	2,408	59.8	.1063	2.0	6.9	7.3	7.6	16.9	26.3	23.8	7.7	1.6	.....	.....	.....
	1910	2,500	58.5	.1119	1.8	5.9	6.6	7.6	11.0	27.0	23.9	12.6	3.4	.3	.....	.....
59 establish-ments.	1910	3,704	59.0	.1083	2.5	7.8	8.0	9.2	12.1	23.2	22.9	11.0	2.9	.4	.1	.....
	1911	3,735	59.1	.1105	.9	5.8	7.7	9.9	13.1	23.3	23.9	11.6	3.3	.5	.....	.....
88 establish-ments.	1911	5,981	59.1	.1110	.9	5.0	6.3	9.9	12.8	26.0	25.0	10.9	2.5	.5	.1	.....
	1912	6,214	58.0	.1232	.3	2.6	5.2	5.2	8.2	23.4	21.0	25.6	6.4	1.9	.2	.....
Spinners, mule, male:																
11 establish-ments.	1907	199	58.6	.2343	.....	.....	.....	.....	.....	.....	1.0	.5	4.0	11.6	53.8	29.1
	1908	193	58.4	.2249	.....	.....	.....	.....	.....	.....	.....	1.0	6.7	10.9	58.0	23.3
	1909	156	58.5	.2209	.....	.....	.....	.....	.....	.....	.....	2.6	6.4	10.9	67.9	12.2
	1910	131	56.8	.2181	.....	.....	.....	.....	.....	.....	.....	.8	8.4	20.6	61.1	9.2
14 establish-ments.	1910	222	57.0	.2192	.....	.....	.....	.....	.....	.....	.....	1.4	5.0	19.4	62.6	11.7
	1911	207	57.0	.2247	.....	.....	.....	.....	.....	.....	1.0	2.4	2.9	15.9	64.3	13.5
18 establish-ments.	1911	288	56.8	.2546	.....	.....	.....	.....	.....	.....	.7	1.7	2.1	11.5	51.0	33.0
	1912	266	55.7	.2789	.....	.....	.....	.....	.....	.....	.4	.....	1.9	7.5	35.7	54.5
Trimmers or inspectors, female:																
30 establish-ments.	1907	251	60.4	.1018	2.8	10.4	12.4	.8	15.9	36.7	9.6	9.6	2.0	.....	.....	.....
	1908	261	60.0	.1008	.....	5.0	15.7	8.4	29.5	18.8	11.1	5.7	5.7	.....	.....	.....
	1909	285	59.6	.0994	.....	1.8	15.8	5.3	37.9	28.4	.7	7.4	2.5	.4	.....	.....
	1910	297	58.1	.1007	.3	1.3	13.5	5.4	29.6	40.4	.....	7.1	1.7	.7	.....	.....
46 establish-ments.	1910	408	58.3	.0994	1.0	2.5	12.0	9.3	26.7	39.0	1.5	6.1	1.5	.5	.....	.....
	1911	474	58.7	.1018	.8	2.5	11.8	5.7	25.5	37.3	6.8	8.6	.6	.....	.2	.....
75 establish-ments.	1911	712	58.7	.1031	1.5	1.7	12.6	8.7	20.4	33.1	12.5	6.7	2.2	.3	.1	.....
	1912	703	58.0	.1123	.....	.9	8.7	9.4	8.7	36.6	21.1	7.5	5.8	1.0	.4	.....
Weavers, male:																
36 establish-ments.	1907	2,769	60.3	.1609	.....	.....	.2	2.2	5.4	12.0	15.6	13.4	17.1	16.4	15.0	2.6
	1908	2,848	59.6	.1596	.....	.....	.....	1.4	4.0	14.7	16.2	15.3	14.1	16.0	16.8	1.4
	1909	3,123	59.8	.1506	.....	.....	.2	1.5	4.7	16.6	18.3	21.5	17.1	9.4	9.7	1.1
	1910	3,087	58.3	.1544	.....	.....	.....	.8	4.2	14.2	19.1	20.8	17.8	10.5	11.5	1.1
58 establish-ments.	1910	5,334	58.8	.1509	.....	.....	.1	1.1	4.0	15.8	21.0	21.1	16.9	10.0	9.2	.8
	1911	5,012	58.8	.1549	.....	.....	.1	1.0	3.4	12.2	19.2	23.3	18.0	11.1	10.8	.9
88 establish-ments.	1911	8,855	58.0	.1556	.....	.....	.1	1.0	3.1	11.8	19.3	21.5	18.9	12.8	10.7	.8
	1912	9,751	57.5	.1688	.....	.....	.....	.5	2.1	9.2	14.9	16.0	18.9	15.8	19.6	2.9
Weavers, female:																
36 establish-ments.	1907	3,724	59.5	.1514	.....	.....	.3	2.3	4.4	13.9	17.3	19.0	22.0	13.6	6.9	.3
	1908	3,903	59.0	.1521	.....	.....	.1	1.5	3.9	15.2	19.7	20.0	20.4	12.5	6.5	.4
	1909	3,930	59.1	.1438	.....	.....	.....	1.8	4.6	17.5	22.0	25.7	18.4	5.8	3.9	.3
	1910	3,905	57.6	.1508	.....	.....	.....	1.2	4.1	18.0	21.8	25.9	17.0	7.5	4.3	.2
59 establish-ments.	1910	6,334	57.8	.1471	.....	.....	.....	1.5	4.4	19.2	22.5	25.0	15.2	7.9	4.2	.2
	1911	6,242	57.8	.1440	.....	.....	.1	1.2	4.3	17.9	23.7	24.5	16.3	7.0	4.7	.2
88 establish-ments.	1911	10,792	57.9	.1479	.....	.....	.1	1.1	4.1	15.7	22.1	22.8	17.9	10.2	5.7	.4
	1912	10,980	56.9	.1631	.....	.....	.....	.8	2.6	10.1	14.7	19.0	20.2	16.4	15.0	1.3

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912.

COTTON GOODS MANUFACTURING—Continued.

CARD STRIPPERS: Male.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
					1907.											
Alabama.....	3	13	66.0	\$0.0928				3	7	3						
Georgia.....	4	14	64.5	.0934					12	2						
Maine.....	3	33	60.0	.1304							27	5	1			
Massachusetts...	11	115	58.0	.1415							46	69				
North Carolina..	4	13	66.0	.0996					9	1	3					
Rhode Island....	2	26	58.0	.1494							12		14			
South Carolina..	5	24	62.0	.1147					5	10	8		1			
Other States....	4	46	58.9	.1368						8	14	24				
Total.....	36	284	59.8	.1314				3	33	24	110	98	16			
1908.																
Alabama.....	3	12	62.0	.0990				1	5	6						
Georgia.....	4	17	63.0	.0930					13	4						
Maine.....	3	32	60.0	.1204						23	9					
Massachusetts...	11	126	58.0	.1325							1	92	26	7		
North Carolina..	4	14	63.8	.0969					11	3						
Rhode Island....	2	26	58.0	.1387								12	14			
South Carolina..	5	20	60.0	.1063				1	3	14	2					
Other States....	4	42	58.4	.1290						9	33					
Total.....	36	289	59.3	.1240				2	32	60	148	40	7			
1909.																
Alabama.....	3	8	63.0	.1018						2	6					
Georgia.....	4	15	64.4	.0936					11	4						
Maine.....	3	36	60.0	.1197						27	9					
Massachusetts...	11	112	58.0	.1262							5	106	1			
North Carolina..	4	15	64.2	.0980						10	5					
Rhode Island....	2	26	58.0	.1387								12	14			
South Carolina..	5	30	60.0	.1034				2	7	20	1					
Other States....	4	45	58.4	.1291							10	35				
Total.....	36	287	59.3	.1207				2	30	77	163	15				
1910.																
Alabama.....	3	12	63.0	.1005					1	4	7					
Georgia.....	7	54	64.2	.1020					18	2	25	5		4		
Maine.....	4	40	58.0	.1223							23	17				
Massachusetts...	13	216	56.0	.1270							28	183	5			
New Hampshire	3	66	58.0	.1260							3	52	10	1		
North Carolina..	12	40	63.4	.1004					3	19	16	2				
Rhode Island....	3	34	56.0	.1385								20	14			
South Carolina..	11	40	60.0	.1012						1	6	2	30	1		
Other States....	3	21	58.6	.1233								6	15			
Total.....	59	523	58.4	.1199				1	28	27	138	295	29	5		
1911.																
Alabama.....	7	20	62.6	.1053						7	12				1	
Connecticut.....	2	21	58.0	.1287									21			
Georgia.....	13	64	63.8	.1064					19	3	25	6	7	4		
Maine.....	5	59	58.0	.1228							27	32				
Massachusetts...	18	278	56.0	.1277							24	542	8	1		
New Hampshire	5	173	58.0	.1251							36	131	6			
North Carolina..	13	42	63.3	.1008					3	17	22					
Rhode Island....	3	36	56.0	.1379								1	21	14		
South Carolina..	20	85	60.0	.1047					1	4	3	71	4	2		
Other States....	2	8	59.5	.1151								7	1			
Total.....	88	786	58.3	.1209				1	26	30	225	461	37	6		

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

CARD STRIPPERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1912.															
Alabama.....	7	21	62.4	\$0.1053				4	4	9	3		1		
Connecticut.....	2	22	58.0	.1380							21	1			
Georgia.....	13	69	60.0	.1184					2	33	29	5			
Maine.....	5	51	58.0	.1312							42	9			
Massachusetts.....	18	279	54.0	.1437						7	81	172	19		
New Hampshire.....	5	175	58.0	.1432						1	35	138	1		
North Carolina.....	13	43	60.0	.1077				2		35	6				
Rhode Island.....	3	37	56.0	.1493							13	9	15		
South Carolina.....	20	95	60.0	.1119					3	65	22	5			
Other States.....	2	8	55.5	.1374					1	1	1	5			
Total.....	88	800	57.1	.1339				6	10	151	253	344	36		

DRAWING TENDERS: Male.

1907.														
Alabama.....	3	15	66.0	\$0.0691	10		1				4			
Georgia.....	3	8	65.6	.0802		3	2			2	2			
Maine.....	3	8	60.0	.1078				1	2	1	4			
Massachusetts.....	11	96	58.0	.1147				5		57	29	5		
North Carolina.....	4	16	66.0	.0858		4	2	1	6	3				
Rhode Island.....	2	16	58.0	.1175						4	12			
South Carolina.....	5	42	62.0	.0804	7	9	8	5	8		5			
Other States.....	3	18	60.0	.0918		6	4	1		3	4			
Total.....	34	219	60.4	.0997	17	22	17	13	17	74	54	5		
1908.														
Alabama.....	3	20	62.1	.0664	8	4	7			1				
Georgia.....	3	16	64.1	.0891			3	2	10	1				
Maine.....	3	15	60.0	.0978				2	7	6				
Massachusetts.....	11	88	58.0	.1157				2	1	55	27	3		
North Carolina.....	4	12	63.8	.0860		4	1	1	4	2				
Rhode Island.....	2	22	58.0	.1129					4	11	6	1		
South Carolina.....	5	46	60.0	.0784		5	23	8	3	7				
Other States.....	3	15	60.0	.0868		5	2	4		2	2			
Total.....	34	234	59.7	.0976	8	18	36	19	29	85	35	4		
1909.														
Alabama.....	3	23	61.8	.0695	7	7	1	4	4					
Georgia.....	3	12	65.5	.0878					4	8				
Maine.....	3	8	60.0	.0986				2	2	4				
Massachusetts.....	11	103	58.0	.1135			1		19	55	26	2		
North Carolina.....	4	17	63.9	.0821		8		2	5	2				
Rhode Island.....	2	19	58.0	.1113					4	11	3	1		
South Carolina.....	5	46	60.0	.0862		2	15	8	3	17	1			
Other States.....	3	25	59.4	.0923		6	4	4	2	4	5			
Total.....	34	253	59.7	.0985	7	23	21	24	47	93	35	3		

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

DRAWING TENDERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employes.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1910.																
Alabama.....	3	30	62.2	\$0.0695	13	5	1	3	6	2	.....	.....	.....	.....	.....	.....
Georgia.....	7	41	63.8	.0902	2	2	5	11	10	7	4	.....	.....	.....	.....	.....
Maine.....	3	19	58.0	.0904	.....	.....	2	8	6	3	.....	.....	.....	.....	.....	.....
Massachusetts...	12	111	56.0	.1125	.....	.....	.....	.....	15	64	28	4	.....	.....	.....	.....
New Hampshire	2	13	58.0	.0991	.....	.....	.....	4	2	6	1	.....	.....	.....	.....	.....
North Carolina..	12	90	62.6	.0935	.....	2	5	7	74	2	.....	.....	.....	.....	.....	.....
Rhode Island...	3	33	56.0	.1122	.....	.....	.....	.....	4	21	7	1	.....	.....	.....	.....
South Carolina..	11	74	60.0	.0826	.....	6	24	21	5	18	.....	.....	.....	.....	.....	.....
Other States....	3	25	58.2	.0967	.....	.....	9	4	2	3	7	.....	.....	.....	.....	.....
Total.....	56	436	59.5	.0962	15	15	46	58	124	126	47	5	.....	.....	.....	.....
1911.																
Alabama.....	6	46	62.0	.0797	10	7	1	7	18	1	2	.....	.....	.....	.....	.....
Georgia.....	13	109	63.6	.0864	21	7	6	6	38	24	5	2	.....	.....	.....	.....
Maine.....	5	32	58.0	.1046	.....	.....	.....	7	3	22	.....	.....	.....	.....	.....	.....
Massachusetts...	17	179	56.0	.1098	.....	.....	.....	22	27	71	51	6	2	.....	.....	.....
New Hampshire	4	79	58.0	.1056	.....	.....	.....	.....	40	23	12	4	.....	.....	.....	.....
North Carolina..	13	92	62.4	.0947	.....	2	3	45	38	4	.....	.....	.....	.....	.....	.....
Rhode Island...	3	32	56.0	.1159	.....	.....	.....	.....	4	21	6	1	.....	.....	.....	.....
South Carolina..	20	158	60.0	.0862	.....	6	64	33	16	24	9	6	.....	.....	.....	.....
Other States....	3	23	58.3	.0938	.....	.....	9	5	2	2	5	.....	.....	.....	.....	.....
Total.....	84	750	59.5	.0968	31	22	83	125	186	192	90	19	2	.....	.....	.....
1912.																
Alabama.....	6	36	62.3	.0871	7	6	3	1	9	7	3	.....	.....	.....	.....	.....
Georgia.....	13	91	60.0	.0976	.....	4	15	6	8	43	13	1	1	.....	.....	.....
Maine.....	5	35	58.0	.1108	.....	.....	.....	6	1	17	11	.....	.....	.....	.....	.....
Massachusetts...	17	190	54.0	.1245	.....	.....	.....	.....	24	44	89	22	10	1	.....	.....
New Hampshire	4	67	58.0	.1237	.....	.....	.....	.....	.....	33	22	8	3	1	.....	.....
North Carolina..	13	92	60.0	.0980	.....	.....	9	.....	3	77	3	.....	.....	.....	.....	.....
Rhode Island...	3	39	56.0	.1255	.....	.....	.....	.....	.....	5	25	9	.....	.....	.....	.....
South Carolina..	20	145	60.0	.0909	.....	2	57	21	16	30	12	7	.....	.....	.....	.....
Other States....	3	28	57.3	.1112	.....	.....	.....	5	10	3	6	4	.....	.....	.....	.....
Total.....	84	723	57.9	.1080	7	12	84	39	71	259	184	51	14	2	.....	.....

DRAWING TENDERS: Female.

1907.																
Alabama.....	3	30	66.0	\$0.0666	19	2	1	.....	.....	8	.....	.....	.....	.....	.....	.....
Georgia.....	3	22	63.8	.0732	.....	6	16	.....	.....	.....	.....	.....	.....	.....	.....	.....
Maine.....	2	64	60.0	.0833	.....	.....	.....	34	15	15	.....	.....	.....	.....	.....	.....
Massachusetts...	7	71	58.0	.1089	.....	.....	.....	.....	.....	66	5	.....	.....	.....	.....	.....
Other States....	4	47	58.2	.0979	.....	.....	3	4	26	11	3	.....	.....	.....	.....	.....
Total.....	19	234	60.2	.0926	19	8	20	38	41	100	8	.....	.....	.....	.....	.....
1908.																
Alabama.....	3	28	61.9	.0581	18	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Georgia.....	3	19	62.2	.0840	.....	.....	1	11	7	.....	.....	.....	.....	.....	.....	.....
Maine.....	2	55	60.0	.0837	.....	.....	35	9	1	10	.....	.....	.....	.....	.....	.....
Massachusetts...	7	76	58.0	.1141	.....	.....	.....	.....	10	38	28	.....	.....	.....	.....	.....
Other States....	4	54	58.0	.0949	.....	3	4	23	7	6	11	.....	.....	.....	.....	.....
Total.....	19	232	59.3	.0932	18	13	40	43	25	54	39	.....	.....	.....	.....	.....

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

DRAWING TENDERS: Female—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.												
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.	
1909.																	
Alabama.....	3	28	61.7	\$0.0580	19	8			1								
Georgia.....	3	27	61.8	.0852				14	13								
Maine.....	2	66	60.0	.0864			35	11	4	16							
Massachusetts...	7	71	58.0	.1082					4	58	9						
Other States....	4	57	58.0	.0917		4	3	29	8	5	8						
Total.....	19	249	59.4	.0905	19	12	38	54	30	79	17						
1910.																	
Alabama.....	3	25	61.7	.0612	14	5	2	1	3								
Georgia.....	5	56	62.3	.0805		19		10	23	4							
Maine.....	3	78	58.0	.0887			33	23	3	19							
Massachusetts...	9	127	56.0	.0987				5	65	56	1						
New Hampshire	3	61	58.0	.0911		1	4	32	10	14							
Other States....	4	12	57.0	.1105		1	1			5	5						
Total.....	27	359	58.2	.0898	14	26	40	71	104	98	5	1					
1911.																	
Alabama.....	6	39	61.4	.0646	16	12	2	4	4	1							
Georgia.....	9	35	61.7	.0889		5	2	8	9	8	3						
Maine.....	4	83	58.0	.0869			37	24	3	17	2						
Massachusetts...	14	156	56.0	.1020					61	89	5	1					
New Hampshire	5	163	58.0	.0980		2	5	23	78	30	25						
Other States....	4	26	56.8	.1073			1	9		6	10						
Total.....	42	502	57.8	.0946	16	19	47	68	155	151	45	1					
1912.																	
Alabama.....	6	40	62.0	.0802	4	12	4	4	10	5			1				
Georgia.....	9	53	60.0	.1033				5	10	33	5						
Maine.....	4	45	58.0	.0998				16	10	18	1						
Massachusetts...	14	190	54.0	.1166					1	146	32	10	1				
New Hampshire	5	177	58.0	.1128				1	18	119	30	6	2	1			
Other States....	4	20	57.3	.1111					9	6	1	4					
Total.....	42	525	57.0	.1095	4	12	4	26	58	327	69	20	4	1			

FINE SPEEDERS: Male.

1907.														
Alabama.....	3	42	66.0	\$0.0924	1	10	6	7		9	8	1		
Georgia.....	4	24	64.8	.1047	1	1	2	2	6	4	8			
North Carolina..	4	39	66.9	.1150				1	5	23	8	1	1	
South Carolina..	5	96	62.0	.1288		1	2	2	6	27	28	16	9	5
Total.....	16	201	63.9	.1157	2	12	10	12	17	63	52	18	10	5
1908.														
Alabama.....	3	38	60.9	.1072				9	6	11				1
Georgia.....	4	30	63.0	.1124			3		5	12	8	2		
North Carolina..	4	32	63.8	.1085				2	8	17	5			
South Carolina..	5	124	60.0	.1332			3	3	5	37	34	18	12	4
Total.....	16	224	61.1	.1225			6	14	24	77	58	20	12	5

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

FINE SPEEDERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employes.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1909.															
Alabama.....	3	53	61.0	\$0.1135			2	5	9	19	11	5	2		
Georgia.....	4	37	63.1	.1294			1	1	1	4	19	11			
North Carolina..	4	35	63.9	.1143					4	21	7	2			
South Carolina..	5	133	60.0	.1382		1	1	3	5	22	42	34	19	4	2
Total.....	16	258	61.2	.1286		1	4	10	19	66	79	52	21	4	2
1910.															
Alabama.....	3	45	61.6	.1095			4	10	7	10	6	5	2	1	
Georgia.....	6	88	61.9	.1214				6	5	35	24	8	8	1	1
North Carolina..	12	113	63.1	.1313				4	10	31	32	13	13	10	
South Carolina..	11	180	60.0	.1409				3	4	31	53	43	37	7	2
Total.....	32	426	61.4	.1310			4	23	26	107	115	69	60	19	3
1911.															
Alabama.....	6	46	61.4	.1147				7	4	20	8	4	3		
Georgia.....	12	118	62.8	.1275			3	6	8	26	40	21	12	2	
North Carolina..	13	125	62.9	.1397				6	7	28	31	15	13	24	1
South Carolina..	20	314	60.0	.1364		2	11	13	57	88	95	30	16	2	2
Other States....	11	20	57.7	.1741							1	5	8	4	2
Total.....	62	623	61.2	.1350			5	30	32	131	168	140	66	46	5
1912.															
Alabama.....	6	54	62.6	.1218		1	2	6	2	15	19	3	3	3	
Georgia.....	12	112	60.0	.1425			1	1	2	20	27	32	18	10	1
North Carolina..	13	136	60.0	.1431			2	1	6	17	34	37	24	13	2
South Carolina..	20	302	60.0	.1435				9	6	39	90	78	53	22	5
Other States....	11	62	54.8	.1500				2		6	28	5	8	12	1
Total.....	62	666	59.7	.1421		1	5	19	16	97	198	155	106	60	9

FINE SPEEDERS: Female.

1907.															
Alabama.....	3	37	66.0	\$0.1032		1	1	12	6	10	6			1	
Georgia.....	4	30	63.8	.1049		1	2	4	4	13	5	1			
Maine.....	3	83	60.0	.1451				3	3	5	13	39	19		1
Massachusetts..	11	365	58.0	.1480			4	1	2	22	86	143	87	15	5
North Carolina..	3	8	66.0	.1128					1	6	1				
Rhode Island..	2	64	58.0	.1453					1	8	10	31	12	2	
South Carolina..	5	30	62.0	.1320				3	2	6	5	8	5	1	
Other States....	4	104	59.3	.1250				3	6	25	50	20			
Total.....	35	721	59.3	.1390		2	7	26	25	95	176	242	123	19	6
1908.															
Alabama.....	3	53	62.9	.0975			2	14	17	16	4				
Georgia.....	4	43	62.2	.1162			2	2	5	12	16	6			
Maine.....	3	70	60.0	.1360				2	3	6	25	32	1	1	
Massachusetts..	11	344	58.0	.1516				1	2	33	70	100	90	46	2
North Carolina..	3	6	63.5	.1117						6					
Rhode Island..	2	44	58.0	.1529							3	33	8		
South Carolina..	5	42	60.0	.1178			4	5	6	9	7	7	1	3	
Other States....	4	92	58.9	.1239				1	3	36	43	7		1	1
Total.....	35	694	59.1	.1377			8	25	36	118	168	185	100	51	3

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

FINE SPEEDERS: Female—Concluded.

Year and State.	Number of establishments.	Number of employes.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1909.															
Alabama.....	3	55	62.7	\$0.1042			12	15	20	6	2				
Georgia.....	4	33	62.4	.1217			1		10	18	3				
Maine.....	3	93	60.0	.1391				1	7	37	42	5		1	
Massachusetts.....	11	351	58.0	.1420				6	21	126	158	38	2		
North Carolina.....	3	3	65.0	.1145						3					
Rhode Island.....	2	46	58.0	.1477					2	9	30	4		1	
South Carolina.....	5	34	60.0	.1316			1	3	10	9	4	4	3		
Other States.....	4	99	58.9	.1199				5	46	41	7				
Total.....	35	714	59.1	.1345			1	13	31	119	246	246	51	5	
1910.															
Alabama.....	3	61	62.5	.1009			3	15	12	23	8				
Georgia.....	7	70	63.0	.1160			2	4	6	28	22	7	1		
Maine.....	4	120	58.0	.1366				2		10	57	45	5	1	
Massachusetts.....	13	492	56.0	.1430				8	38	190	168	58	26	4	
New Hampshire.....	3	142	58.0	.1298				2	7	39	54	26	12	2	
North Carolina.....	11	35	62.5	.1085				5	11	11	4	3	1		
Rhode Island.....	3	110	56.0	.1410			3	3	7	25	53	14	2		
South Carolina.....	10	71	60.0	.1262			3	4	8	13	20	13	8	1	
Other States.....	3	74	58.6	.1225				1	4	25	33	11			
Total.....	57	1,175	57.8	.1334			11	36	59	194	413	326	99	31	
1911.															
Alabama.....	7	82	62.7	.1002		1	6	19	17	30	8	1			
Connecticut.....	2	39	58.0	.1297					1	10	21	6	1		
Georgia.....	12	125	62.8	.1161		1	1	6	21	49	28	9	10		
Maine.....	5	134	58.0	.1381			1		4	9	53	64	3		
Massachusetts.....	18	693	56.0	.1441			1	3	12	49	218	295	82	27	
New Hampshire.....	5	347	58.0	.1431					7	37	103	138	44	15	
North Carolina.....	10	49	62.2	.1119			2	5	6	22	9	3	2		
Rhode Island.....	3	108	56.0	.1468				1	3	5	23	53	14	7	
South Carolina.....	18	126	60.0	.1246		1	2	3	17	43	26	18	12	4	
Other States.....	2	50	58.9	.1192				1	1	29	16	2	1		
Total.....	82	1,753	57.9	.1362		3	13	38	89	283	505	589	169	53	
1912.															
Alabama.....	7	80	62.4	.1085		1	1	8	20	29	16	5			
Connecticut.....	2	38	58.0	.1433					1	15	20	2			
Georgia.....	12	115	60.0	.1283				2	8	39	31	24	7	3	
Maine.....	5	133	58.0	.1509				2	2	7	20	61	33	6	
Massachusetts.....	18	755	54.0	.1573					5	27	84	315	234	74	
New Hampshire.....	5	332	58.0	.1590				2	4	20	42	97	101	52	
North Carolina.....	10	43	60.0	.1166			1	3	10	13	10	3	2	1	
Rhode Island.....	3	106	56.0	.1621				1		2	7	45	34	9	
South Carolina.....	18	125	60.0	.1290				4	9	34	46	15	12	4	
Other States.....	2	57	56.0	.1235		1			4	2	23	15	8	4	
Total.....	82	1,784	56.6	.1490		2	2	26	60	195	286	593	429	149	

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

LOOM FIXERS: Male.

Year and State.	Number of establishments.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1907.															
Alabama.....	3	82	66.0	\$0.1596								45	37		
Georgia.....	4	40	64.4	.1521						3	22	15			
Maine.....	3	69	60.0	.2304											53
Massachusetts...	11	194	58.0	.2465										1	98
North Carolina..	4	32	66.0	.1435						7	25				
Rhode Island...	2	60	58.0	.2540											28
South Carolina...	5	95	62.0	.1676							50	22	20	3	
Other States.....	4	59	59.2	.2023					2	6	2	1	8	40	
Total.....	36	631	60.8	.2069					2	16	144	75	29	222	143
1908.															
Alabama.....	3	73	61.6	.1658							20	46	7		
Georgia.....	4	50	63.5	.1570							31	19			
Maine.....	3	61	60.0	.2110									24	32	5
Massachusetts...	11	179	58.0	.2419										2	108
North Carolina..	4	22	64.2	.1511						3	12	7			
Rhode Island...	2	64	58.0	.2351										8	19
South Carolina...	5	113	60.0	.1720								76	22	15	
Other States.....	4	57	58.8	.1953						4	6	7	6	32	2
Total.....	36	619	59.7	.2020						7	69	155	69	206	113
1909.															
Alabama.....	3	83	62.2	.1646							30	50	3		
Georgia.....	4	48	65.4	.1596						2	23	23			
Maine.....	3	79	60.0	.2079									36	38	5
Massachusetts...	11	194	58.0	.2249								10	19	126	39
North Carolina..	4	33	63.9	.1531					2	2	10	19			
Rhode Island...	2	73	58.0	.2361										6	29
South Carolina...	5	114	60.0	.1706							2	88	17	7	
Other States.....	4	56	58.7	.1969						5	5	4	6	34	2
Total.....	36	680	59.8	.1973					2	9	70	194	87	234	84
1910.															
Alabama.....	3	79	62.7	.1648							33	44	1	1	
Georgia.....	7	124	63.1	.1601						4	60	58		2	
Maine.....	4	111	58.0	.2126								1	35	65	10
Massachusetts...	13	371	56.0	.2281									31	215	125
New Hampshire	3	94	58.0	.2150									1	93	
North Carolina..	12	114	62.8	.1521						6	96	12			
Rhode Island...	3	157	56.0	.2382										4	116
South Carolina...	11	180	60.0	.1667						1	27	114	34	4	
Other States.....	3	37	58.5	.1922						3	5	10	6	7	6
Total.....	59	1,267	58.7	.1998						14	221	240	111	503	178
1911.															
Alabama.....	7	107	62.0	.1701							27	65	11	4	
Connecticut.....	2	27	58.0	.2239										22	5
Georgia.....	13	215	63.1	.1614							101	103	9		2
Maine.....	5	124	58.0	.2160								1	18	94	11
Massachusetts...	18	544	56.0	.2309										45	302
New Hampshire	5	495	58.0	.2195								1	6	487	1
North Carolina..	13	120	62.8	.1518						8	102	10			
Rhode Island...	3	185	56.0	.2426										4	140
South Carolina...	20	360	60.0	.1632							103	207	45	5	
Other States.....	2	23	58.9	.1677						4	2	11	6		
Total.....	88	2,200	58.6	.2026						12	335	398	144	1,054	257

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

LOOM FIXERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1912.																
Alabama.....	7	133	62.3	\$0.1740								31	60	35	7	10
Connecticut.....	2	25	58.0	.2466											15	24
Georgia.....	13	201	60.0	.1750								10	141	25	1	1
Maine.....	5	132	58.0	.2398											1	95
Massachusetts....	18	558	54.0	.2592											258	300
New Hampshire.....	5	529	58.0	.2485												200
North Carolina...	13	130	60.0	.1678								25	102	3	3	329
Rhode Island.....	3	191	56.0	.2652												21
South Carolina...	20	351	60.0	.1743								63	170	33	35	170
Other States.....	2	23	56.6	.1846								6	5	5	7	5
Total.....	88	2,273	57.7	.2244								135	478	152	662	846

SLASHERS, MALE.

1907.																
Alabama.....	3	11	66.0	\$0.1168							8	2	1			
Georgia.....	4	12	64.3	.1262						7	5					
Maine.....	3	18	60.0	.1947									4		14	
Massachusetts....	11	61	58.0	.2214									1	5	49	6
North Carolina...	3	5	66.0	.1364					1	3				1		
Rhode Island.....	2	9	58.0	.2228										2	7	
South Carolina...	5	25	62.0	.1256				1	14	2	7	1				
Other States.....	4	18	59.2	.1912						4			2		12	
Total.....	35	159	60.3	.1829				1	30	16	7	9	8	82	6	
1908.																
Alabama.....	3	15	60.8	.1287						8	2	4				1
Georgia.....	4	15	63.2	.1286						2	12	1				
Maine.....	3	16	60.0	.1846									4	12		
Massachusetts....	11	55	58.0	.2308									1	7	23	24
North Carolina...	3	4	65.3	.1408					1	2				1		
Rhode Island.....	2	10	58.0	.2161									2	1	8	
South Carolina...	5	26	60.0	.1362					1	12	12					
Other States.....	4	17	58.8	.1827						4			1	8	4	
Total.....	35	158	59.6	.1828					12	32	17	8	29	36	24	
1909.																
Alabama.....	3	17	61.1	.1288						7	4	5				1
Georgia.....	4	12	62.5	.1316							11	1				
Maine.....	3	17	60.0	.1849									4	13		
Massachusetts....	11	63	58.0	.2186										12	36	15
North Carolina...	3	4	65.3	.1266					1	2	1					
Rhode Island.....	2	9	58.0	.2152									2		7	
South Carolina...	5	27	60.0	.1320					2	13	12					
Other States.....	4	18	58.9	.1820						3	2			9	4	
Total.....	35	167	59.4	.1795					10	33	21	6	34	48	15	
1910.																
Alabama.....	3	15	61.2	.1312						7	3	4				1
Georgia.....	7	27	62.2	.1404							18	7	1			1
Maine.....	4	23	58.0	.1851									4	19		
Massachusetts....	13	99	56.0	.2106									3	38	49	9
New Hampshire.....	3	21	58.0	.1913										21		

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

SLASHERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employ-ees.	Average nomi-nal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1910.																
North Carolina...	10	22	62.8	\$0.1346						1	17	1	2	1		
Rhode Island...	3	17	56.0	.2162									2		15	
South Carolina...	11	41	60.0	.1362						1	24	13	2		1	
Other States.....	3	11	58.4	.1847							1	3	2		5	
Total.....	57	276	58.4	.1780						9	63	28	16	79	72	9
1911.																
Alabama.....	7	26	61.0	.1388					7	4	12	2			1	
Connecticut.....	2	6	58.0	.2330											4	2
Georgia.....	13	38	62.7	.1380		6				11	15	5			1	
Maine.....	5	26	58.0	.1857								4	22			
Massachusetts...	17	132	56.0	.2113								2	45	76	9	
New Hampshire.	5	107	58.0	.2514								1	40	9	57	
North Carolina...	11	34	62.5	.1339					1	28	2	2			1	
Rhode Island...	3	17	56.0	.2170								2			15	
South Carolina...	20	62	60.0	.1413					2	25	24	7	1	3		
Other States.....	2	7	58.6	.1782							3	1	1	2		
Total.....	85	455	58.5	.1937		6			10	68	56	26	110	111	68	
1912.																
Alabama.....	7	18	61.8	.1451					2	2	12	2				
Connecticut.....	2	7	58.0	.2432											5	2
Georgia.....	13	45	60.0	.1535					6	3	19	14	1	2		
Maine.....	5	30	58.0	.1877						13			4	13		
Massachusetts...	17	138	54.0	.2331									6	102	30	
New Hampshire.	5	111	58.0	.2833											45	66
North Carolina...	11	34	60.0	.1418						26	3	4			1	
Rhode Island...	3	17	56.0	.2377										2	12	3
South Carolina...	20	40	60.0	.1558						5	20	13			2	
Other States.....	2	7	56.9	.1844							4	1			2	
Total.....	85	447	57.4	.2153					8	49	58	34	13	182	103	

SPINNERS, FRAME: Male.

1907.															
Alabama.....	3	11	66.0	\$0.0719	2	3	2	4							
Massachusetts...	11	72	58.0	.1422			1		5	13	18	11	20	2	2
South Carolina...	3	26	62.0	.0977		1	6		15	2			2		
Other States.....	8	75	58.9	.1228	1		6	4	9	19	12	12	9		3
Total.....	25	184	59.4	.1238	3	4	15	8	29	32	32	23	31	2	5
1908.															
Alabama.....	3	13	61.4	.0705	4	3		6							
Massachusetts...	11	93	58.0	.1355				1	5	28	27	14	15	3	
South Carolina...	3	21	60.0	.0929			7			13	1				
Other States.....	8	87	59.0	.1179			3		5	41	23	14		1	
Total.....	25	214	58.8	.1193	4	3	10	7	10	82	51	28	15	4	
1909.															
Alabama.....	3	20	62.7	.0692	3	8	5	3	1						
Massachusetts...	11	81	58.0	.1366				1	6	19	22	15	6	12	
South Carolina...	3	21	60.0	.0865			7			12	2				
Other States.....	8	66	58.6	.1180	1	1	4	1	6	15	30	8			
Total.....	25	188	58.9	.1173	4	16	9	5	25	36	52	23	6	12	

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

SPINNERS, FRAME: Male—Concluded.

Year and State.	Number of establishments.	Number of employes.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1910.															
Alabama.....	3	7	60.0	\$0.0905	1		1	1	1	3					
Massachusetts...	13	154	56.0	.1276					18	28	75	16	10	6	
New Hampshire...	3	42	58.0	.1262					1	9	25	7			
South Carolina...	6	30	60.0	.0837		13		1	11	5					
Other States....	11	28	58.9	.1134		2	2	2	3	9	5	2	3		
Total.....	36	261	57.2	.1198	1	15	3	5	34	54	105	25	13	6	
1911.															
Alabama.....	4	18	63.7	.1009				6	6	3	2	1			
Georgia.....	3	9	64.7	.0867	2	4				1		2			
Maine.....	3	27	58.0	.1160				2	2	11	8	3	1		
Massachusetts...	16	402	56.0	.1300				3	12	84	198	81	19	5	
New Hampshire...	4	188	58.0	.1265				3	17	54	62	40	10	1	
South Carolina...	12	35	60.0	.1021		2	1	3	11	12	5		1		
Other States....	4	21	58.8	.1266					4	6	3	6	2		
Total.....	46	700	57.2	.1257	2	6	1	17	52	171	278	133	33	6	
1912.															
Alabama.....	4	15	65.2	.1138						10	5				
Georgia.....	3	4	60.0	.1025			1	1		1		1			
Maine.....	3	26	58.0	.1188						18	7	1			
Massachusetts...	16	353	54.0	.1598			1		5	29	52	90	69	80	
New Hampshire...	4	228	58.0	.1468					1	43	49	76	30	24	
South Carolina...	12	37	60.0	.1132			3	3	4	13	9		4		
Other States....	4	16	58.1	.0919		1	1	1	13						
Total.....	46	679	56.2	.1484		1	6	5	23	114	122	169	103	104	

SPINNERS, FRAME: Female.

1907.														
Alabama.....	3	361	66.0	\$0.0729	52	137	31	72	53	16				
Georgia.....	4	196	64.3	.0867	1	15	67	13	72	20	3			
Maine.....	3	202	60.0	.1205		2	8	8	12	66	62	34	9	1
Massachusetts...	11	774	58.0	.1376			3	24	29	79	339	198	64	37
North Carolina...	4	128	66.0	.0836	4	39	21	13	31	16	3	1		
Rhode Island...	2	110	58.0	.1346			1	3	10	16	37	24	15	4
South Carolina...	5	327	62.0	.0952	1	21	53	22	129	79	19	3		
Other States....	4	219	58.9	.1131		10	18	14	31	51	64	27	4	
Total.....	36	2,317	61.0	.1103	58	224	202	174	367	343	527	287	92	42
1908.														
Alabama.....	3	323	61.9	.0780	34	81	80	61	15	52				
Georgia.....	4	176	62.6	.0879		29	50	4	18	64	11			
Maine.....	3	189	60.0	.1054	13	5	4	21	22	70	45	8	1	
Massachusetts...	11	688	58.0	.1322			2	3	23	176	267	144	48	3
North Carolina...	4	102	64.2	.0759	9	44	3	19	22	5				
Rhode Island...	2	102	58.0	.1248				6	9	23	40	18	4	2
South Carolina...	5	333	60.1	.0943		38	59	25	20	163	24	2	2	
Other States....	4	201	58.9	.1164			10	8	27	59	79	14	4	
Total.....	36	2,114	59.9	.1073	56	197	208	147	156	612	466	186	59	5

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

SPINNERS, FRAME: Female—Concluded.

Year and State.	Number of establishments.	Number of employes.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1909.															
Alabama.....	3	336	62.3	\$0.0799	17	78	78	92	25	46
Georgia.....	4	194	62.8	.0887	4	31	49	7	20	62	21
Maine.....	3	215	60.0	.1088	6	2	4	12	23	112	47	8	1	.....
Massachusetts.....	11	845	58.0	.1242	.....	.....	2	23	59	235	354	140	31	1
North Carolina..	4	131	64.1	.0839	20	4	25	11	57	13	1	.....	.....	.....
Rhode Island....	2	123	58.0	.1197	.....	.....	3	9	8	39	47	14	3	.....
South Carolina..	5	359	60.0	.0953	.....	51	11	21	177	60	38	1	.....	.....
Other States.....	4	205	58.6	.1156	.....	.....	4	7	37	67	65	22	3	.....
Total.....	36	2,408	59.8	.1063	47	166	176	182	406	634	573	185	38	1	
1910.															
Alabama.....	3	340	61.5	.0832	12	44	104	91	21	68	.....	.....	.....	.....
Georgia.....	7	426	62.9	.0895	15	69	49	76	32	148	36	1	.....	.....
Maine.....	4	302	58.0	.1211	.....	1	.....	8	20	117	94	53	7	2
Massachusetts...	13	1,107	56.0	.1307	.....	.....	.....	3	41	212	510	266	70	5
New Hampshire	3	221	58.0	.1213	.....	.....	.....	11	8	70	103	27	2	.....
North Carolina..	12	393	63.1	.0790	48	55	112	44	121	11	2	.....	.....	.....
Rhode Island....	3	306	56.0	.1397	.....	.....	2	12	11	43	67	49	14	8
South Carolina..	11	582	60.0	.0896	18	119	28	91	159	146	13	1	7	.....
Other States.....	3	127	58.5	.1146	.....	.....	3	3	36	46	22	9	7	1
Total.....	59	3,704	59.0	.1083	93	288	298	339	449	861	847	406	107	14	
1911.															
Alabama.....	7	475	62.1	.0843	12	90	93	129	62	79	4	6	.....	.....
Connecticut.....	2	76	58.0	.1367	.....	.....	.....	2	.....	16	34	15	4	1
Georgia.....	13	678	62.9	.0958	21	68	99	68	95	210	83	33	.....	4
Maine.....	5	343	58.0	.1165	.....	.....	.....	36	49	108	93	50	7	.....
Massachusetts...	18	1,384	56.0	.1304	.....	.....	.....	4	47	315	611	311	89	7
New Hampshire	5	1,151	58.0	.1250	.....	.....	4	9	67	353	501	183	24	9
North Carolina..	13	437	63.0	.0852	18	55	100	56	164	30	11	1	2	.....
Rhode Island....	3	206	56.0	.1317	.....	.....	.....	6	17	32	87	41	16	7
South Carolina..	20	1,134	60.0	.0964	4	87	80	279	224	382	67	8	3	.....
Other States.....	2	97	58.6	.1075	.....	.....	2	5	42	32	7	1	5	3
Total.....	88	5,981	59.1	.1110	55	300	378	594	767	1,557	1,498	649	150	28	
1912.															
Alabama.....	7	468	62.6	.0901	4	34	72	22	91	148	88	9	.....	.....
Connecticut.....	2	77	58.0	.1443	.....	.....	.....	.....	2	19	13	21	13	7
Georgia.....	13	701	60.0	.1072	3	57	55	41	63	209	204	59	8	2	
Maine.....	5	351	58.0	.1330	.....	.....	.....	4	6	94	121	67	41	18
Massachusetts...	18	1,552	54.0	.1440	.....	.....	.....	.....	22	164	379	735	201	48
New Hampshire	5	1,134	58.0	.1436	.....	.....	.....	4	15	142	242	649	91	36
North Carolina..	13	442	60.0	.0943	.....	40	75	52	56	170	43	4	1	1
Rhode Island....	3	192	56.0	.1208	9	9	3	17	20	34	38	32	28	2	
South Carolina..	20	1,172	60.0	.1017	.....	19	112	179	218	446	175	10	11	2
Other States.....	2	75	56.9	.1169	.....	.....	5	6	19	26	1	5	3	3
Total.....	88	6,214	58.0	.1282	16	159	322	325	512	1,452	1,304	1,591	397	121	

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

SPINNERS, MULE: Male.

Year and State.	Number of establishments.	Number of employes.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1907.																
Maine.....	2	25	60.0	\$0.2496									1	1	11	12
Massachusetts...	5	88	58.0	.2373									1	8	56	23
Rhode Island....	2	50	58.0	.2372							2		4	2	23	19
Other States.....	2	36	60.0	.2120								1	2	12	17	4
Total.....	11	199	58.6	.2343							2	1	8	23	107	58
1908.																
Maine.....	2	20	60.0	.2364											17	3
Massachusetts...	5	93	58.0	.2317							1		4	3	62	23
Rhode Island....	2	46	58.0	.2243									1	10	17	18
Other States.....	2	34	58.9	.2008								1	8	8	16	1
Total.....	11	193	58.4	.2249								2	13	21	112	45
1909.																
Maine.....	2	23	60.0	.2288											21	2
Massachusetts...	5	60	58.0	.2263											55	3
Rhode Island....	2	41	58.0	.2309								1	3	2	21	14
Other States.....	2	32	58.9	.1921								3	5	15	9	
Total.....	11	156	58.5	.2209								4	10	17	106	19
1910.																
Maine.....	3	56	58.0	.2331									2		34	15
Massachusetts...	4	50	56.0	.2243										2	11	30
New Hampshire	2	27	58.0	.2256											2	23
Rhode Island....	3	67	56.0	.2117										1	19	45
Other States.....	2	22	58.8	.1870									1	8	6	7
Total.....	14	222	57.0	.2192									3	11	43	139
1911.																
Maine.....	4	57	58.0	.2492										1	5	29
Massachusetts...	6	115	56.0	.3023							1				2	45
New Hampshire	3	31	58.0	.2201									1			30
Rhode Island....	3	64	56.0	.2128							1				18	38
Other States.....	2	21	58.9	.1859									3	5	8	5
Total.....	18	288	56.8	.2546							2	5	6	33	147	95
1912.																
Maine.....	4	49	58.0	.2510											8	13
Massachusetts...	6	111	54.0	.3392												27
New Hampshire	3	20	58.0	.2502										1	1	2
Rhode Island....	3	64	56.0	.2313							1				4	43
Other States.....	2	22	56.7	.2018									4	7	10	1
Total.....	18	266	55.7	.2789							1		5	20	95	145

TRIMMERS OR INSPECTORS: Female.

1907.																
Alabama.....	2	25	66.0	\$0.0760	5	8		1	11							
Maine.....	3	58	60.0	.1037					4	52		1	1			
Massachusetts...	11	88	58.0	.1200					14	36	18	20				
Rhode Island....	2	8	58.0	.1565						1		3	4			
South Carolina.	5	40	62.0	.0733	2	13	20		5							
Other States.....	7	32	62.3	.0906			5	11	1	6	3	6				
Total.....	30	251	60.4	.1018	7	26	31	2	40	92	24	24	5			

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

TRIMMERS OR INSPECTORS: Female—Concluded.

Year and State.	Number of establishments.	Number of employes.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.												
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.	
1908.																	
Alabama.....	2	38	62.8	\$0.0863			7	10	16	5							
Maine.....	3	46	60.0	.0995					31	14		1					
Massachusetts.....	11	84	58.0	.1208				2	20	13	28	11	10				
Rhode Island.....	2	9	58.0	.1563						1		3	5				
South Carolina.....	5	43	60.0	.0765		13	16	2	5	7							
Other States.....	7	41	61.9	.0880				18	8	5	9	1					
Total.....	30	261	60.0	.1003		13	41	22	77	49	29	15	15				
1909.																	
Alabama.....	2	29	63.3	.0873			9		16	4							
Maine.....	3	60	60.0	.1051					41	9							
Massachusetts.....	11	94	58.0	.1059				4	35	43	1	9	1				
Rhode Island.....	2	10	58.0	.1544						1		1	6	1			
South Carolina.....	5	65	60.0	.0814		5	27	10	16	6	1						
Other States.....	7	27	59.9	.0975			9			18							
Total.....	30	285	59.6	.0994		5	45	15	108	81	2	21	7	1			
1910.																	
Alabama.....	2	25	62.9	.0878		2	4	3	10	6							
Georgia.....	4	29	62.1	.0886			2	13	13		1						
Maine.....	4	65	58.0	.1040					46	10		9					
Massachusetts.....	13	142	56.0	.1072				4	24	99	2	13					
New Hampshire.....	3	28	58.0	.1102						26	2						
North Carolina.....	6	16	62.8	.0806	1		8	4	2	1							
Rhode Island.....	3	19	56.0	.1383				1	4	2	1	3	6	2			
South Carolina.....	8	69	60.0	.0767	3	8	32	13	10	3							
Other States.....	3	15	59.1	.1016			3			12							
Total.....	46	408	58.3	.0994	4	10	49	38	109	159	6	25	6	2			
1911.																	
Alabama.....	5	46	62.5	.0851	2	1	13	2	19	9							
Connecticut.....	2	3	58.0	.1172						3							
Georgia.....	10	74	62.7	.0891	5		12	5	30	21	1						
Maine.....	5	90	58.0	.1007					19	41	20	10					
Massachusetts.....	17	203	56.0	.1120				4	26	118	34	21					
New Hampshire.....	4	106	58.0	.1301						34	50	7	13	2			
North Carolina.....	9	25	62.6	.0300	1	2	10	9	2	1							
Rhode Island.....	3	23	56.0	.1406						7	2	10	3	1			
South Carolina.....	13	130	60.0	.0817	3	9	52	23	27	14	2						
Other States.....	2	12	59.5	.0949			3			9							
Total.....	75	712	58.7	.1031	11	12	90	62	145	236	89	48	16	2			
1912.																	
Alabama.....	5	39	62.6	.0923			3	9	17	7	3						
Connecticut.....	2	9	58.0	.1297							9						
Georgia.....	10	63	60.0	.0950		6		11	6	38	1	1					
Maine.....	5	88	58.0	.1123						1	72	5	10				
Massachusetts.....	17	198	54.0	.1254					2	81	80	35					
New Hampshire.....	4	94	58.0	.1415					2	11	40	14	23	3			
North Carolina.....	9	31	60.0	.0941			8	3	3	13	4						
Rhode Island.....	3	22	56.0	.1627						1	4	3	8	4			
South Carolina.....	18	150	60.0	.0848			50	43	27	28	2						
Other States.....	2	9	55.3	.1095					3	6							
Total.....	75	703	58.0	.1123		6	61	66	61	257	148	53	41	7			

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

WEAVERS: Male.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.												
					Under 6	6 and under 7	7 and under 8	8 and under 9	9 and under 10	10 and under 12	12 and under 14	14 and under 16	16 and under 18	18 and under 20	20 and under 25	25 cts. and over.	
					cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	
1907.																	
Alabama.....	3	200	66.0	\$0.1239	.....	.....	5	21	26	64	33	22	11	.....	5	1
Georgia.....	4	207	64.9	.1155	.....	.....	1	15	48	60	50	22	9	.....	2	.....
Maine.....	3	220	60.0	.1920	.....	.....	.....	.....	.....	8	19	23	39	36	70	25
Massachusetts...	11	1,075	58.0	.1790	.....	.....	.....	.....	7	38	89	145	271	282	223	20
North Carolina..	4	142	66.0	.1240	.....	.....	.....	2	13	50	51	19	6	1	.....	.....
Rhode Island....	2	297	58.0	.1922	.....	.....	.....	.....	.....	7	18	29	55	74	89	25
South Carolina..	5	416	61.5	.1315	.....	.....	.....	22	47	77	139	69	36	19	6	1
Other States....	4	212	59.8	.1549	.....	.....	.....	1	8	29	34	43	46	31	20	.....
Total.....	36	2,769	60.3	.1609	.....	.....	6	61	149	333	433	372	474	454	415	72
1908.																	
Alabama.....	3	315	61.0	.1242	.....	.....	.....	21	46	106	60	44	16	12	10	.....
Georgia.....	4	181	64.1	.1279	.....	.....	1	5	21	50	50	36	12	1	5	.....
Maine.....	3	212	60.0	.1742	.....	.....	.....	1	3	12	16	35	43	57	44	1
Massachusetts...	11	1,063	58.0	.1843	.....	.....	.....	1	3	35	69	127	205	278	322	23
North Carolina..	4	124	64.0	.1292	.....	.....	.....	7	7	41	28	26	12	2	1	.....
Rhode Island....	2	251	58.0	.1895	.....	.....	.....	.....	5	4	13	27	38	67	82	15
South Carolina..	5	490	60.5	.1328	.....	.....	.....	5	22	114	186	96	43	16	8	.....
Other States....	4	212	59.0	.1446	.....	.....	.....	.....	6	56	40	46	33	23	7	1
Total.....	36	2,848	59.6	.1596	.....	.....	1	40	113	418	462	437	402	456	479	40
1909.																	
Alabama.....	3	321	61.7	.1280	.....	.....	1	14	31	100	84	49	27	7	7	1
Georgia.....	4	264	64.1	.1267	.....	.....	1	11	35	81	61	39	26	7	3	.....
Maine.....	3	242	60.0	.1712	.....	.....	.....	2	4	20	25	33	46	57	52	3
Massachusetts...	11	1,083	58.0	.1614	.....	.....	.....	23	37	135	315	277	98	136	12	.....
North Carolina..	4	201	63.8	.1283	.....	.....	3	6	20	55	46	52	16	3	.....	.....
Rhode Island....	2	287	58.0	.1869	.....	.....	.....	.....	3	11	22	24	54	77	79	17
South Carolina..	5	534	60.0	.1311	.....	.....	.....	11	27	125	165	116	56	23	11	.....
Other States....	4	191	58.7	.1488	.....	.....	.....	3	4	38	35	43	32	21	15	.....
Total.....	36	3,123	59.8	.1506	.....	.....	5	47	147	517	573	671	534	293	303	33
1910.																	
Alabama.....	3	305	62.1	.1308	.....	.....	1	8	35	98	82	38	24	14	5	.....
Georgia.....	7	545	62.9	.1299	.....	.....	6	13	39	184	125	93	57	19	8	1
Maine.....	4	332	58.0	.1689	.....	.....	.....	1	5	29	40	62	62	65	64	4
Massachusetts...	12	1,625	56.0	.1625	.....	.....	.....	1	15	124	257	426	383	183	225	11
New Hampshire	3	261	58.0	.1547	.....	.....	.....	1	2	51	47	49	51	31	26	3
North Carolina..	12	627	62.7	.1319	.....	.....	1	17	52	120	201	164	59	11	2	.....
Rhode Island....	3	565	56.0	.1786	.....	.....	.....	1	9	21	63	81	114	126	128	22
South Carolina..	11	921	60.0	.1358	.....	.....	.....	17	53	203	280	187	105	56	19	.....
Other States....	3	154	58.6	.1625	.....	.....	.....	.....	1	15	24	25	45	30	14	.....
Total.....	58	5,334	58.8	.1509	.....	.....	8	59	211	845	1,119	1,125	900	535	491	41

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

WEAVERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employes.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1911.																
Alabama.....	7	324	61.5	\$0.1345			1	6	29	91	76	46	40	22	13	.....
Connecticut.....	2	107	58.0	.1654						9	16	21	26	18	17	.....
Georgia.....	13	691	62.8	.1282			8	29	56	182	197	137	62	13	6	1
Maine.....	5	300	58.0	.1780					1	21	21	49	53	67	78	5
Massachusetts....	18	2,576	56.0	.1638				3	45	171	413	604	555	419	339	27
New Hampshire.....	5	1,920	58.0	.1672				10	33	121	224	385	479	384	270	14
North Carolina...	13	767	62.7	.1385				21	41	129	189	233	127	21	6	.....
Rhode Island.....	3	553	56.0	.1822					4	20	54	83	103	105	164	20
South Carolina...	20	1,533	60.0	.1384				21	63	295	497	327	206	76	48	.....
Other States.....	2	84	59.1	.1466					6	9	22	19	16	8	4	.....
Total.....	88	8,855	58.6	.1556			9	90	278	1,048	1,709	1,904	1,672	1,133	945	67
1912.																
Alabama.....	7	358	62.1	.1412				10	22	88	84	69	62	33	18	2
Connecticut.....	2	97	58.0	.1826				1		4	4	15	16	21	35	1
Georgia.....	13	768	60.0	.1431				10	53	142	195	146	107	71	37	7
Maine.....	5	384	58.0	.1967				1	1	15	21	39	61	57	154	35
Massachusetts....	18	2,903	54.0	.1797					23	118	251	415	722	606	680	88
New Hampshire.....	5	1,825	58.0	.1902				4	8	56	73	173	307	460	676	59
North Carolina...	13	866	60.0	.1436				9	25	123	229	231	187	44	17	1
Rhode Island.....	3	766	56.0	.1917					9	38	70	79	117	131	233	89
South Carolina...	20	1,704	60.0	.1407				15	60	314	522	387	246	106	53	1
Other States.....	2	50	55.3	.1744					2	2	3	11	14	7	8	3
Total.....	88	9,751	57.5	.1688			50	203	900	1,452	1,565	1,839	1,545	1,911	286	*

WEAVERS: Female.

Year and State.	Number of establishments.	Number of employes.	Average nominal full-time hours per week.	Average rate of wages per hour.	Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1907.																
Alabama.....	3	158	66.0	\$0.1119			10	22	18	66	29	8	4			1
Georgia.....	4	249	63.8	.1087			2	34	59	89	44	16	5			
Maine.....	3	462	60.0	.1616					1	28	87	111	117	67	48	3
Massachusetts....	11	1,562	58.0	.1622				10	26	109	208	291	512	293	110	3
North Carolina...	4	69	66.0	.1136				5	6	37	17	4				
Rhode Island.....	2	459	58.0	.1694				2	3	46	57	65	81	115	86	4
South Carolina...	5	172	62.0	.1215				4	27	59	54	17	7	2	2	
Other States.....	4	593	59.2	.1425				7	25	82	150	195	95	28	10	1
Total.....	36	3,724	59.5	.1514			12	84	165	516	646	707	821	505	257	11
1908.																
Alabama.....	3	170	61.9	.1194				20	27	54	38	11	12	6		2
Georgia.....	4	299	62.0	.1410			3	11	46	109	90	33	6	1		
Maine.....	3	512	60.0	.1490				8	7	73	123	125	99	44	31	2
Massachusetts....	11	1,700	58.0	.1634				2	15	129	239	342	493	317	151	12
North Carolina...	4	49	64.2	.1210				5	7	12	15	6	4			
Rhode Island.....	2	397	58.0	.1693				3	17	51	83	82	99	61	1	
South Carolina...	5	144	60.4	.1220				8	19	53	35	14	10	2	3	
Other States.....	4	832	58.8	.1369				5	27	146	177	165	90	17	4	1
Total.....	36	3,933	59.0	.1521			3	59	151	593	768	779	796	486	252	16

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Concluded.

COTTON GOODS MANUFACTURING—Continued.

WEAVERS: Female—Concluded.

Year and State.	Number of establishments.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
1909.															
Alabama.....	3	195	62.3	\$0.1225				13	20	76	48	22	10	5	1
Georgia.....	4	260	61.9	.1133				21	44	111	63	17	4		
Maine.....	3	583	60.0	.1512				5	13	70	122	161	121	50	44
Massachusetts.....	11	1,615	58.0	.1505				8	38	189	256	547	444	84	43
North Carolina..	4	67	64.5	.1184				2	5	34	18	7	1		
Rhode Island...	2	400	58.0	.1655				1	12	37	59	57	90	79	61
South Carolina..	5	185	60.0	.1213				9	15	62	68	23	7		1
Other States....	4	620	58.9	.1342				10	34	110	229	175	48	10	3
Total.....	36	3,930	59.1	.1438				69	181	689	863	1,009	725	228	153
1910.															
Alabama.....	3	207	62.1	.1222				16	24	73	49	25	11	7	2
Georgia.....	7	443	62.2	.1203		3		29	45	183	99	52	26	3	3
Maine.....	4	763	58.0	.1488				6	27	110	181	185	123	79	48
Massachusetts....	13	2,605	56.0	.1501				6	61	332	493	845	548	218	103
New Hampshire	3	674	58.0	.1450				6	28	134	165	143	77	79	41
North Carolina..	12	361	62.8	.1206				23	43	126	99	53	14	1	2
Rhode Island...	3	605	56.0	.1950				4	14	92	117	124	100	88	63
South Carolina..	11	340	60.0	.1220				11	24	117	125	50	10	3	
Other States....	3	336	58.6	.1428				1	12	46	95	106	51	20	5
Total.....	59	6,334	57.8	.1471		3		96	278	1,213	1,423	1,583	960	498	267
1911.															
Alabama.....	7	298	61.6	.1255				14	30	102	85	30	23	12	2
Connecticut.....	2	118	58.0	.1331				2	3	24	48	33	5	2	1
Georgia.....	13	593	62.2	.1200		12		26	72	224	153	68	32	3	2
Maine.....	5	800	58.0	.1517				12	30	105	173	209	112	80	75
Massachusetts....	18	3,619	56.0	.1484				4	105	474	816	1,044	745	281	144
New Hampshire	5	3,361	58.0	.1599				16	79	307	561	698	777	579	321
North Carolina..	13	400	62.6	.1248				19	34	112	140	72	22		1
Rhode Island...	3	597	56.0	.1607					12	73	93	115	112	127	59
South Carolina..	20	746	60.0	.1266				26	58	218	256	116	53	11	8
Other States....	2	260	58.7	.1393				5	15	50	56	75	48	5	6
Total.....	88	10,792	57.9	.1479		12		124	438	1,689	2,381	2,460	1,929	1,100	619
1912.															
Alabama.....	7	279	62.1	.1245				19	29	73	83	47	19	8	1
Connecticut.....	2	133	58.0	.1479				2	2	15	29	45	28	9	2
Georgia.....	13	583	60.0	.1306				21	47	163	167	96	54	24	10
Maine.....	5	739	58.0	.1627				2	17	48	112	183	183	101	83
Massachusetts....	18	3,813	54.0	.1668					35	241	476	757	1,066	783	422
New Hampshire	5	3,408	58.0	.1799				10	39	135	302	539	614	717	975
North Carolina..	13	414	60.0	.1302				16	30	101	117	105	39	5	1
Rhode Island...	3	626	56.0	.1705				1	23	49	66	124	99	113	139
South Carolina..	20	724	60.0	.1281				15	40	241	219	124	64	18	3
Other States....	2	261	56.8	.1461				5	21	43	40	61	56	20	12
Total.....	88	10,980	56.9	.1631				91	283	1,109	1,611	2,081	2,222	1,798	1,647

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912.

COTTON GOODS MANUFACTURING—Continued.

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

State, and number of establishments.	Year.	Number of employ-ees.	Average nom-inal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
CARD STRIPPERS, MALE.															
Alabama:															
3 establishments.	1907	13	66.0	\$0.0928				3	7	3					
	1908	12	62.0	.0990				1	5	6					
	1909	8	63.0	.1018					2	6					
	1910	12	63.0	.1005			1	4	7						
3 establishments.	1910	12	63.0	.1005				1	4	7					
	1911	13	62.8	.1016					5	8					
7 establishments.	1911	20	62.6	.1053					7	12					
	1912	21	62.4	.1053			4	4		9	3		1		
Connecticut:															
2 establishments.	1911	21	58.0	.1287							21				
	1912	22	58.0	.1380							21	1			
Georgia:															
4 establishments.	1907	14	64.5	.0934					12	2					
	1908	17	63.0	.0930					13	4					
	1909	15	64.4	.0936					11	4					
	1910	14	60.9	.0987					2	12					
7 establishments.	1910	54	64.2	.1020			18	2	25	5		4			
	1911	45	64.4	.1078			13	3	17	1	7	4			
13 establishments.	1911	64	63.8	.1064			19	3	25	6	7	4			
	1912	69	60.0	.1184				2	33	29	5				
Maine:															
3 establishments.	1907	33	60.0	.1304							27	5	1		
	1908	32	60.0	.1204						23	9				
	1909	36	60.0	.1197						27	9				
	1910	34	58.0	.1208						23	11				
4 establishments.	1910	40	58.0	.1223						23	17				
	1911	39	58.0	.1227						22	17				
5 establishments.	1911	59	58.0	.1228						27	32				
	1912	51	58.0	.1312							42	9			
Massachusetts:															
11 establishments.	1907	115	58.0	.1415							46	69			
	1908	126	58.0	.1325						1	92	26	7		
	1909	112	58.0	.1262						5	106	1			
	1910	140	56.0	.1296						3	132	5			
13 establishments.	1910	216	56.0	.1270						28	183	5			
	1911	217	56.0	.1297						4	205	7	1		
18 establishments.	1911	278	56.0	.1277						24	245	8	1		
	1912	279	54.0	.1437						7	81	172	19		
New Hampshire:															
3 establishments.	1910	66	58.0	.1260						3	52	10	1		
	1911	69	58.0	.1254						30	39				
5 establishments.	1911	173	58.0	.1251						36	131	6			
	1912	175	58.0	.1432						1	35	138	1		
North Carolina:															
4 establishments.	1907	13	66.0	.0996					9	1	3				
	1908	14	63.8	.0969					11	3					
	1909	15	64.2	.0980					10	5					
	1910	14	64.3	.0982					9	5					
12 establishments.	1910	40	63.4	.1004			3	19	16	2					
	1911	40	63.4	.0999			3	17	20						
13 establishments.	1911	42	63.3	.1008			3	17	22						
	1912	43	60.0	.1077			2		35	6					

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
CARD STRIPPERS, MALE—concl'd.																
Rhode Island:																
2 establishments.	1907	26	58.0	\$.1494								12		14		
	1908	26	58.0	.1387								12	14			
	1909	26	58.0	.1387								12	14			
	1910	26	58.0	.1387								12	14			
3 establishments.	1910	34	56.0	.1385								20	14			
	1911	36	56.0	.1379						1		21	14			
3 establishments.	1911	36	56.0	.1379							1	21	14			
	1912	37	56.0	.1493								13	9	15		
South Carolina:																
5 establishments.	1907	24	62.0	.1147					5	10		8		1		
	1908	20	60.0	.1063				1	3	14		2				
	1909	30	60.0	.1034				2	7	20		1				
	1910	28	60.0	.1051				2	1	24		1				
11 establishments.	1910	40	60.0	.1012			1	6	2	30		1				
	1911	35	60.0	.1003			1	4	3	26		1				
20 establishments.	1911	85	60.0	.1047			1	4	3	71		4	2			
	1912	95	60.0	.1119					3	65		22	5			
DRAWING TENDERS, MALE.																
Alabama:																
3 establishments.	1907	15	66.0	.0691	10		1					4				
	1908	20	62.1	.0664	8	4	7					1				
	1909	23	61.8	.0695	7	7	1	4	4							
	1910	30	62.2	.0695	13	5	1	3	6	2						
3 establishments.	1910	30	62.2	.0695	13	5	1	3	6	2						
	1911	30	61.8	.0703	10	7		5	8							
6 establishments.	1911	46	62.0	.0797	10	7	1	7	18	1	2					
	1912	36	62.3	.0871	7	6	3	1	9	7	3					
Georgia:																
3 establishments.	1907	8	65.6	.0802		3	2		1	2						
	1908	16	64.1	.0891			3	2	10	1						
	1909	12	65.5	.0878					4	8						
	1910	9	61.3	.0891			1		8							
7 establishments.	1910	41	63.8	.0902	2	2	5	11	10	7	4					
	1911	74	63.7	.0894	5	7	4	6	35	12	3	2				
13 establishments.	1911	109	63.6	.0864	21	7	6	6	38	24	5	2				
	1912	91	60.0	.0976		4	15	6	8	43	13	1	1			
Maine:																
3 establishments.	1907	8	60.0	.1078				1	2	1	4					
	1908	15	60.0	.0978				2	7	6						
	1909	8	60.0	.0986				2	2	4						
	1910	12	58.0	.0941			2	1	6	3						
3 establishments.	1910	19	58.0	.0904			2	8	6	3						
	1911	15	58.0	.0949				7	3	5						
5 establishments.	1911	32	58.0	.1046				7	3	22						
	1912	35	58.0	.1108				6	1	17	11					
Massachusetts:																
11 establishments.	1907	96	58.0	.1147				5		57	29	5				
	1908	88	58.0	.1157				2	1	55	27	3				
	1909	103	58.0	.1135			1		19	55	26	2				
	1910	90	56.0	.1127					15	45	26	4				
12 establishments.	1910	111	56.0	.1125					15	64	28	4				
	1911	115	56.0	.1146					22	38	50	5				
17 establishments.	1911	179	56.0	.1098				22	27	71	51		2			
	1912	190	54.0	.1245					24	44	89	226	10	1		

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over
					DRAWING TENDERS, MALE—CON.											
New Hampshire:																
2 establishments.	1910	13	58.0	\$0.0991				4	2	6	1					
	1911	11	58.0	.1224					1	4	6					
4 establishments.	1911	79	58.0	.1056					40	23	12	4				
	1912	67	58.0	.1237						33	22	8	3	1		
North Carolina:																
4 establishments.	1907	16	66.0	.0858		4	2	1	6	3						
	1908	12	63.8	.0860		4	1	1	4	2						
	1909	17	63.9	.0821		8		2	5	2						
	1910	15	64.0	.0918		2		2	9	2						
12 establishments.	1910	90	62.6	.0935		2	5	7	74	2						
	1911	90	62.4	.0947		2	3	45	36	4						
13 establishments.	1911	92	62.4	.0947		2	3	45	38	4						
	1912	92	60.0	.0980			9		3	77	3					
Rhode Island:																
2 establishments.	1907	16	58.0	.1175						4	12					
	1908	22	58.0	.1129					4	11	6	1				
	1909	19	58.0	.1113					4	11	3	1				
	1910	23	56.0	.1147					4	11	7	1				
3 establishments.	1910	33	56.0	.1122					4	21	7	1				
	1911	32	56.0	.1159					4	21	6	1				
3 establishments.	1911	32	56.0	.1159					4	21	6	1				
	1912	39	56.0	.1255						5	25	9				
South Carolina:																
5 establishments.	1907	42	62.0	.0804	7	9	8	5	8		5					
	1908	46	60.0	.0784		5	23	8	3	7						
	1909	46	60.0	.0862		2	15	8	3	17	1					
	1910	49	60.0	.0835		2	21	8	3	15						
11 establishments.	1910	74	60.0	.0826		6	24	21	5	18						
	1911	67	60.0	.0815		6	21	22	5	13						
20 establishments.	1911	158	60.0	.0862		6	64	33	16	24	9	6				
	1912	145	60.0	.0909		2	57	21	16	30	12	7				
DRAWING TENDERS, FEMALE.																
Alabama:																
3 establishments.	1907	30	66.0	.0666	19	2	1			8						
	1908	28	61.9	.0581	18	10										
	1909	28	61.7	.0580	19	8				1						
	1910	25	61.7	.0612	14	5	2	1	3							
3 establishments.	1910	25	61.7	.0612	14	5	2	1	3							
	1911	26	61.4	.0615	16	4		4	2							
6 establishments.	1911	39	61.4	.0646	16	12	2	4	4	1						
	1912	40	62.0	.0802	4	12	4	4	10	5			1			
Georgia:																
3 establishments.	1907	22	63.8	.0732		6	16									
	1908	19	62.2	.0840			1	11	7							
	1909	27	61.8	.0852				14	13							
	1910	31	60.0	.0874				10	21							
5 establishments.	1910	56	62.3	.0805		19		10	23	4						
	1911	26	62.3	.0841		5		8	9	4						
9 establishments.	1911	35	61.7	.0889		5	2	8	9	8	3					
	1912	53	60.0	.1033				5	10	33	5					

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.												
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.	
DRAWING TENDERS, FEMALE—concluded.																	
Maine:																	
2 establish-ments.	1907	64	60.0	\$.0893			34	15	15								
	1908	55	60.0	.0837			35	9	1	10							
	1909	66	60.0	.0864			35	11	4	16							
	1910	65	58.0	.0873			33	10	3	19							
3 establish-ments.	1910	78	58.0	.0867			33	23	3	19							
	1911	83	58.0	.0869			37	24	3	17	2						
4 establish-ments.	1911	83	58.0	.0869			37	24	3	17	2						
	1912	45	58.0	.0998				16	10	18	1						
Massachusetts:																	
7 establish-ments.	1907	71	58.0	.1089						66	5						
	1908	76	58.0	.1141					10	38	28						
	1909	71	58.0	.1082					4	58	9						
	1910	58	56.0	.1032			5	14	38			1					
9 establish-ments.	1910	127	56.0	.0987			5	65	56			1					
	1911	130	56.0	.1013					58	68	3	1					
14 establish-ments.	1911	156	56.0	.1020					61	89	5	1					
	1912	190	54.0	.1166					1	146	32	10	1				
New Hampshire:																	
3 establish-ments.	1910	61	58.0	.0911		1	4	32	10	14							
	1911	62	58.0	.0992		2	5	23	14		18						
5 establish-ments.	1911	163	58.0	.0980		2	5	23	78	30	25						
	1912	177	58.0	.1128				1	18	119	30	6	2	1			
FINE SPEEDERS, MALE.																	
Alabama:																	
3 establish-ments.	1907	42	66.0	.0924		1	10	6	7		9	8	1				
	1908	38	60.9	.1072					9	6	11	11				1	
	1909	53	61.0	.1135			2	5	9	19	11	5	2				
	1910	45	61.6	.1095			4	10	7	10	6	5	2	1			
3 establish-ments.	1910	45	61.6	.1095			4	10	7	10	6	5	2	1			
	1911	40	61.5	.1145				7	4	17	6	3	3				
6 establish-ments.	1911	46	61.4	.1147				7	4	20	8	4	3				
	1912	54	62.6	.1218		1	2	6	2	15	19	3	3	3			
Georgia:																	
4 establish-ments.	1907	24	64.8	.1047		1	1	2	2	6	4	8					
	1908	30	63.0	.1124				3		5	12	8	2				
	1909	37	63.1	.1294				1	1	1	4	19	11				
	1910	34	60.0	.1311							9	16	6	3			
6 establish-ments.	1910	88	61.9	.1214				6	5	35	24	8	8	1	1		
	1911	59	62.0	.1284			1	4	2	14	21	8	7	2			
12 establish-ments.	1911	118	62.8	.1275			3	6	8	26	40	21	12	2			
	1912	112	60.0	.1425			1	1	2	20	27	32	18	10	1		
North Carolina:																	
4 establish-ments.	1907	39	66.0	.1150				1	5	23	8	1	1				
	1908	32	63.8	.1085					2	17	5						
	1909	35	63.9	.1143				1	4	21	7	2					
	1910	45	64.1	.1163					5	23	13	4					
12 establish-ments.	1910	113	63.1	.1313				4	10	31	32	13	13	10			
	1911	123	63.0	.1400				6	7	26	31	15	13	24	1		
13 establish-ments.	1911	125	62.9	.1397				6	7	28	31	15	13	24	1		
	1912	136	60.0	.1431			2	1	6	17	34	37	24	13	2		

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average number of full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
FINE SPEEDERS, MALE—concl'd.																
South Carolina:																
5 establish-ments.	1907	96	62.0	\$.1288	1	2	2	6	27	28	16	9	5	.....	
	1908	124	60.0	.1332	.....	3	3	5	37	34	18	12	4	8	
	1909	133	60.0	.1382	1	1	3	5	22	42	34	19	4	2		
	1910	125	60.0	.1432	.....	1	2	2	21	37	28	27	7	2	
11 establish-ments.	1910	180	60.0	.1409	.....	.....	3	4	31	53	43	37	7	2
	1911	174	60.0	.1387	.....	.....	3	7	30	60	41	22	9	2
20 establish-ments.	1911	314	60.0	.1364	.....	2	11	13	57	88	95	30	16	2	
	1912	302	60.0	.1435	.....	.....	9	6	39	90	78	53	22	5
FINE SPEEDERS, FEMALE.																
Alabama:																
3 establish-ments.	1907	37	66.0	.1032	1	1	12	6	10	6	.....	.....	1	.....	
	1908	53	62.9	.0975	.....	2	14	17	16	4	.....	.....	.....	.....
	1909	55	62.7	.1042	.....	.....	12	15	20	6	2	.....	.....	.....
	1910	61	62.5	.1009	.....	3	15	12	23	8	.....	.....	.....	.....
3 establish-ments.	1910	61	62.5	.1009	.....	3	15	12	23	8	.....	.....	.....	.....
	1911	53	62.4	.0994	1	1	14	11	22	4	.....	.....	.....	.....
7 establish-ments.	1911	82	62.7	.1002	1	6	19	17	30	8	1	.....	.....	.....
	1912	80	62.4	.1085	1	1	8	20	29	16	5	.....	.....	.....
Connecticut:																
2 establish-ments.	1911	39	58.0	.1297	.....	.....	.....	1	10	21	6	1	.....	.....
	1912	38	58.0	.1433	.....	.....	.....	.....	1	15	20	2	.....	.....
Georgia:																
4 establish-ments.	1907	30	63.8	.1049	1	2	4	4	13	5	1	.....	.....	.....
	1908	43	62.2	.1162	.....	2	2	5	12	16	6	.....	.....	.....
	1909	33	62.4	.1217	.....	1	.....	1	10	18	3	.....	.....	.....
	1910	39	60.8	.1231	.....	1	1	1	11	20	4	1	.....	.....
7 establish-ments.	1910	70	63.0	.1160	.....	2	4	6	28	22	7	1	.....	.....
	1911	91	63.2	.1144	1	1	4	14	39	22	4	6	.....	.....
12 establish-ments.	1911	125	62.8	.1161	1	1	6	21	49	28	9	10	.....	.....
	1912	115	60.0	.1283	.....	2	8	39	31	24	7	3	1	.....	
Maine:																
3 establish-ments.	1907	83	60.0	.1451	.....	.....	3	3	5	13	39	19	.....	1
	1908	70	60.0	.1360	.....	.....	2	3	6	25	32	1	1	.....	
	1909	93	60.0	.1391	.....	.....	1	7	37	42	5	.....	1	.....	
	1910	95	58.0	.1383	.....	2	.....	7	36	44	5	.....	1	.....	
4 establish-ments.	1910	120	58.0	.1366	.....	2	.....	10	57	45	5	.....	1	.....	
	1911	107	58.0	.1383	.....	1	.....	2	5	47	50	2	.....	.....
5 establish-ments.	1911	134	58.0	.1381	.....	1	.....	4	9	53	64	3	.....	.....
	1912	133	58.0	.1509	.....	2	.....	2	7	20	61	33	6	2
Massachusetts:																
11 establish-ments.	1907	365	58.0	.1480	.....	4	1	2	22	86	143	87	15	5	
	1908	344	58.0	.1516	.....	.....	1	2	33	70	100	90	46	2
	1909	351	58.0	.1420	.....	.....	.....	6	21	126	158	38	2	.....	
	1910	372	56.0	.1433	.....	.....	.....	8	28	148	117	42	26	3
13 establish-ments.	1910	492	56.0	.1430	.....	.....	8	38	190	168	58	26	4	.....	
	1911	489	56.0	.1445	.....	1	8	29	166	206	54	20	3	2	
18 establish-ments.	1911	693	56.0	.1441	.....	1	3	12	49	218	295	82	27	4	
	1912	755	54.0	.1573	.....	.....	5	27	84	315	234	74	14	2
New Hampshire:																
3 establish-ments.	1910	142	58.0	.1298	.....	.....	2	7	39	54	26	12	2	.....	
	1911	149	58.0	.1379	.....	.....	6	27	39	56	18	3	.....	.....
5 establish-ments.	1911	347	58.0	.1431	.....	.....	7	37	103	138	44	15	2	1
	1912	332	58.0	.1590	.....	2	4	20	42	97	101	52	13	1	

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
FINE SPEEDERS, FEMALE—concl'd.															
North Carolina:															
3 establish-ments.	1907	8	66.0	\$0.1128					1	6	1				
	1908	6	63.5	.1117						6					
	1909	3	65.0	.1145						3					
	1910	5	64.2	.1059				2	2	1					
11 establish-ments.	1910	35	62.5	.1085			5	11	11	4	3	1			
	1911	47	62.2	.1116		2	5	6	20	9	3	2			
10 establish-ments.	1911	49	62.2	.1119		2	5	6	22	9	3	2			
	1912	43	60.0	.1166		1	3	10	13	10	3	2	1		
Rhode Island:															
2 establish-ments.	1907	64	58.0	.1453				1	8	10	31	12	2		
	1908	44	58.0	.1529						3	33	8			
	1909	46	58.0	.1477					2	9	30	4		1	
	1910	65	56.0	.1379		3	3	2	4	14	33	5	1		
3 establish-ments.	1910	110	56.0	.1410		3	3	3	7	25	53	14	2		
	1911	108	56.0	.1468			1	3	5	23	53	14	7	2	
3 establish-ments.	1911	108	56.0	.1468			1	3	5	23	53	14	7	2	
	1912	106	56.0	.1621				1	2	7	45	34	9	8	
South Carolina:															
5 establish-ments.	1907	30	62.0	.1320			3	2	6	5	8	5	1		
	1908	42	60.0	.1178		4	5	6	9	7	7	1	3		
	1909	34	60.0	.1316			1	3	10	9	4	4	3		
	1910	50	60.0	.1207		3	3	8	11	13	6	5	1		
10 establish-ments.	1910	71	60.0	.1262		3	4	8	13	20	13	8	1	1	
	1911	67	60.0	.1263		2	3	10	21	9	9	9	4		
18 establish-ments.	1911	126	60.0	.1246		1	2	3	17	43	26	18	12	4	
	1912	125	60.0	.1290				4	9	34	46	15	12	4	1
LOOM FIXERS, MALE.															
Alabama:															
3 establish-ments.	1907	82	66.0	.1596							45	37			
	1908	73	61.6	.1658							20	46	7		
	1909	83	62.2	.1646							30	50	3		
	1910	79	62.7	.1648							33	44	1	1	
3 establish-ments.	1910	79	62.7	.1648							33	44	1	1	
	1911	74	62.2	.1668							27	41	2	4	
7 establish-ments.	1911	107	62.0	.1701							27	65	11	4	
	1912	133	62.3	.1740							31	60	35	7	
Connecticut:															
2 establish-ments.	1911	27	58.0	.2239										22	5
	1912	25	58.0	.2466										15	10
Georgia:															
4 establish-ments.	1907	40	64.4	.1521						3	22	15			
	1908	50	63.5	.1570							31	19			
	1909	48	63.4	.1596						2	23	23			
	1910	41	60.4	.1613							2	17	22		
7 establish-ments.	1910	124	63.1	.1601						4	60	58		2	
	1911	135	63.2	.1639							60	69	4		2
13 establish-ments.	1911	215	63.1	.1614							101	103	9		2
	1912	201	60.0	.1750							10	141	25	24	1

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.													
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.		
LOOM FIXERS, MALE—concl'd.																		
Maine:																		
3 establishments.	1907	69	60.0	\$0.2304													53	16
	1908	61	60.0	.2110													24	32
	1909	79	60.0	.2079													36	38
	1910	85	58.0	.2091													35	41
4 establishments.	1910	111	58.0	.2126													1	35
	1911	103	58.0	.2152													1	18
5 establishments.	1911	124	58.0	.2160														1
	1912	132	58.0	.2398														1
Massachusetts:																		
11 establishments.	1907	194	58.0	.2465														1
	1908	179	58.0	.2419														2
	1909	194	58.0	.2249														10
	1910	247	56.0	.2302														31
13 establishments.	1910	371	56.0	.2231														31
	1911	389	56.0	.2301														33
18 establishments.	1911	544	56.0	.2309														45
	1912	558	54.0	.2592														258
New Hampshire:																		
3 establishments.	1910	94	58.0	.2150														1
	1911	97	58.0	.2167														1
5 establishments.	1911	495	58.0	.2195														1
	1912	529	58.0	.2485														6
North Carolina:																		
4 establishments.	1907	32	66.0	.1435								7	25					
	1908	22	64.2	.1511								3	12	7				
	1909	33	63.9	.1531						2		2	10	19				
	1910	27	64.1	.1521								4	12	11				
12 establishments.	1910	114	62.8	.1521									6	96	12			
	1911	119	62.8	.1518									8	101	10			
13 establishments.	1911	120	62.8	.1518									8	102	10			
	1912	130	60.0	.1678										25	102	3		
Rhode Island:																		
2 establishments.	1907	60	58.0	.2540														28
	1908	64	58.0	.2351														8
	1909	73	58.0	.2361														6
	1910	76	56.0	.2345														4
3 establishments.	1910	157	56.0	.2382														4
	1911	185	56.0	.2426														4
3 establishments.	1911	185	56.0	.2426														4
	1912	191	56.0	.2652														21
South Carolina:																		
5 establishments.	1907	95	62.0	.1676										50	22	20		3
	1908	113	60.0	.1720											76	22		15
	1909	114	60.0	.1706											2	88	17	7
	1910	115	60.0	.1701											1	87	23	4
11 establishments.	1910	180	60.0	.1667										1	27	114	34	4
	1911	176	60.0	.1694											23	103	45	5
20 establishments.	1911	360	60.0	.1632											103	207	45	5
	1912	351	60.0	.1743											63	170	83	35

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average nom-inal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
SLASHERS, MALE.															
Alabama:															
3 establish-ments.	1907	11	66.0	\$0.1168						8	2		1		
	1908	15	60.8	.1287						8	2	4			1
	1909	17	61.1	.1288						7	4	5			1
	1910	15	61.2	.1312						7	3	4			1
3 establish-ments.	1910	15	61.2	.1312						7	3	4			1
	1911	18	60.7	.1318						7	4	5	1		1
7 establish-ments.	1911	26	61.0	.1388						7	4	12	2		1
	1912	18	61.8	.1451						2	2	12	2		
2 establish-ments.	1911	6	58.0	.2330											4
	1912	7	58.0	.2432											5
Georgia:															
4 establish-ments.	1907	12	64.3	.1262						7	5				
	1908	15	63.2	.1286						2	12	1			
	1909	12	62.5	.1316							11	1			
	1910	12	60.5	.1336							10	1	1		
7 establish-ments.	1910	27	62.2	.1404							18	7	1		1
	1911	25	62.4	.1484							10	11	3		1
13 establish-ments.	1911	38	62.7	.1380		6					11	15	5		1
	1912	45	60.0	.1535						6	3	19	14	1	2
Maine:															
3 establish-ments.	1907	18	60.0	.1947									4		14
	1908	16	60.0	.1846									4	12	
	1909	17	60.0	.1849									4	13	
	1910	18	58.0	.1844									4	14	
4 establish-ments.	1910	23	58.0	.1851									4	19	
	1911	22	58.0	.1849									4	18	
5 establish-ments.	1911	26	58.0	.1857									4	22	
	1912	30	58.0	.1677							13			4	13
Massachusetts:															
11 establish-ments.	1907	61	58.0	.2214									1	5	49
	1908	55	58.0	.2306									1	7	23
	1909	63	58.0	.2186										12	36
	1910	63	56.0	.2149									3	16	35
13 establish-ments.	1910	99	56.0	.2106									3	38	49
	1911	105	56.0	.2115									2	36	58
17 establish-ments.	1911	132	56.0	.2113									2	45	76
	1912	138	54.0	.2331										6	102
New Hampshire:															
3 establish-ments.	1910	21	58.0	.1913										21	
	1911	25	58.0	.1917										25	
5 establish-ments.	1911	107	58.0	.2514									1	40	9
	1912	111	58.0	.2833											45
North Carolina:															
3 establish-ments.	1907	5	66.0	.1364						1	3			1	
	1908	4	65.3	.1408						1	2			1	
	1909	4	65.3	.1266						1	2	1			
	1910	4	65.3	.1385						1	2			1	
10 establish-ments.	1910	22	62.8	.1346						1	17	1	2	1	
	1911	33	62.5	.1337						1	28	1	2	1	
11 establish-ments.	1911	34	62.5	.1339						1	28	2	2	1	
	1912	34	60.0	.1418							26	3	4		1

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.												
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.	
SLASHERS, MALE																	
concluded.																	
Rhode Island:																	
2 establishments.	1907	9	58.0	\$0.2228											2	7	
	1908	10	58.0	.2161											2	8	
	1909	9	58.0	.2152											2	7	
	1910	9	56.0	.2147											2	7	
3 establishments.	1910	17	56.0	.2162											2	15	
	1911	17	56.0	.2170											2	15	
3 establishments.	1911	17	56.0	.2170											2	15	
	1912	17	56.0	.2377											2	12 3	
South Carolina:																	
5 establishments.	1907	25	62.0	.1256				1	14	2	7	1					
	1908	26	60.0	.1362				1	12	12				1			
	1909	27	60.0	.1320				1	12	13	12						
	1910	27	60.0	.1383				1	12	12	12	1				1	
11 establishments.	1910	41	60.0	.1362					1	24	13	2				1	
	1911	48	60.0	.1383					2	21	18	5	1			1	
20 establishments.	1911	62	60.0	.1413					2	25	24	7	1			3	
	1912	40	60.0	.1558						5	20	13				2	
SPINNERS, FRAME, MALE.																	
Alabama:																	
3 establishments.	1907	11	66.0	.0719	2	3	2	4									
	1908	13	61.4	.0705	4	3		6									
	1909	20	62.7	.0692	3	8	5	3	1								
	1910	7	60.0	.0905	1		1	1	1	3							
3 establishments.	1910	7	60.0	.0905	1		1	1	1	3							
	1911	8	61.5	.0890				6	1	1							
4 establishments.	1911	18	63.7	.1009				6	6	3	2	1					
	1912	15	65.2	.1168						10	5						
Georgia:																	
3 establishments.	1911	9	64.7	.0867	1	4				1		2					
	1912	4	60.0	.1025			1	1		1		1					
Maine:																	
3 establishments.	1911	27	58.0	.1160				2	2	11	8	3	1				
	1912	26	58.0	.1188						18	7						
Massachusetts:																	
11 establishments.	1907	72	58.0	.1422			1		5	13	18	11	20	2		2	
	1908	93	58.0	.1335				1	5	28	27	14	15	3			
	1909	81	58.0	.1366				1	6	19	22	15	6	12			
	1910	107	56.0	.1274				1	18	21	38	13	10	6			
13 establishments.	1910	154	56.0	.1276				1	18	28	75	16	10	6			
	1911	291	56.0	.1288				3	6	60	158	52	7	5			
16 establishments.	1911	402	56.0	.1300				3	12	84	198	81	19	5			
	1912	353	54.0	.1598			1		5	29	52	90	69	80	27		
New Hampshire:																	
3 establishments.	1910	42	58.0	.1262					1	9	25	7					
	1911	41	58.0	.1336					1	8	13	17	1	1			
4 establishments.	1911	188	58.0	.1265				3	17	54	62	40	10	1	1		
	1912	228	58.0	.1468					1	43	49	76	30	24	5		
South Carolina:																	
3 establishments.	1907	26	62.0	.0977		1	6		15		2		2				
	1908	21	60.0	.0929			7			13	1						
	1909	21	60.0	.0865						12	2						
	1910	24	60.0	.0843			10		1	10	3						
6 establishments.	1910	30	60.0	.0837		13		1	11	5							
	1911	25	60.0	.0971		2	1	2	10	8	2						
12 establishments.	1911	35	60.0	.1021		2	1	3	11	12	5		1				
	1912	37	60.0	.1132			3	3	4	13	9	1	4				

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON-GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
SPINNERS, FRAME, FEMALE.															
Alabama:															
3 establishments.	1907	361	66.0	.0729	52	137	31	72	53	16					
	1908	323	61.9	.0780	34	81	80	61	15	52					
	1909	336	62.3	.0799	17	78	78	92	25	46					
	1910	340	61.5	.0832	12	44	104	91	21	68					
3 establishments.	1910	340	61.5	.0832	12	44	104	91	21	68					
	1911	323	61.9	.0851	3	41	68	118	28	65					
7 establishments.	1911	475	62.1	.0843	12	90	93	129	62	79	4	6			
	1912	468	62.6	.0991	4	34	72	22	91	148	88	9			
Connecticut:															
2 establishments.	1911	76	58.0	.1367					2	16	34	15	4	1	4
	1912	77	58.0	.1443					2	19	13	21	13	7	2
Georgia:															
4 establishments.	1907	196	64.3	.0867	1	15	67	18	72	20	3				
	1908	176	62.6	.0879		29	50	4	18	64	11				
	1909	194	62.8	.0887	4	31	49	7	20	62	21				
	1910	186	60.7	.0952	6	23	10	28	1	92	25	1			
7 establishments.	1910	426	62.9	.0895	15	69	49	76	32	148	36	1			
	1911	433	63.0	.0944	9	35	67	52	55	164	50	1			
13 establishments.	1911	678	62.9	.0958	21	68	99	68	95	210	83	33		1	
	1912	701	60.0	.1072	3	57	55	41	63	209	204	59	8		2
Maine:															
3 establishments.	1907	202	60.0	.1205		2	8	8	12	66	62	34	9	1	
	1908	189	60.0	.1054	13	5	4	21	22	70	45	8	1		
	1909	215	60.0	.1098	6	2	4	12	23	112	47	8	1		
	1910	255	58.0	.1178		1		8	17	110	79	39	1		
4 establishments.	1910	302	58.0	.1211		1		8	20	117	94	53	7		2
	1911	276	58.0	.1213				21	10	95	93	50	7		
5 establishments.	1911	343	58.0	.1165				36	49	108	93	50	7		
	1912	351	58.0	.1330				4	6	94	121	67	41	18	
Massachusetts:															
11 establishments.	1907	774	58.0	.1376			3	24	29	79	339	198	64	37	1
	1908	688	58.0	.1322			2	3	23	176	267	144	48	8	22
	1909	845	58.0	.1242			2	23	59	235	354	140	31	1	
	1910	881	56.0	.1306				3	36	182	363	233	61	3	
13 establishments.	1910	1,107	56.0	.1307				3	41	212	510	266	70	5	
	1911	1,079	56.0	.1323				1	38	195	478	278	82	7	
18 establishments.	1911	1,384	56.0	.1304				4	47	315	611	311	89	7	
	1912	1,552	54.0	.1440					22	164	379	735	201	48	3
New Hampshire:															
3 establishments.	1910	221	58.0	.1213				11	8	70	103	27	2		
	1911	254	58.0	.1279			1	1	8	70	108	53	10	3	
5 establishments.	1910	1,151	58.0	.1250			4	9	67	353	501	183	24	9	1
	1912	1,184	58.0	.1436				4	15	142	242	649	91	36	5
North Carolina:															
4 establishments.	1907	128	66.0	.0836	4	39	21	13	31	16	3	1			
	1908	102	64.2	.0759	9	44	3	19	22	5					
	1909	131	64.1	.0839	20	4	25	11	57	13	1				
	1910	147	64.0	.0782	27	14	43	9	49	5					
12 establishments.	1910	393	63.1	.0790	48	55	112	44	121	11	2				
	1911	430	63.0	.0850	18	55	100	56	159	28	11	1	2		
13 establishments.	1911	437	63.0	.0852	18	55	100	56	164	30	11	1	2		
	1912	442	60.0	.0943		40	75	52	56	170	43	4	1	1	

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
					SPINNERS, FRAME, FEMALE—CON.											
Rhode Island:																
2 establishments.	1907	110	58.0	\$0.1346		1	3	10	16	37	24	15	4			
	1908	102	58.0	.1248			6	9	23	40	18	4	2			
	1909	123	58.0	.1197			3	9	39	47	14	3				
3 establishments.	1910	139	56.0	.1388		2	12	9	34	49	21	8	4			
	1911	206	56.0	.1397		2	12	11	43	67	49	14	8			
	1912	206	56.0	.1317			6	17	32	87	41	16	7			
3 establishments.	1911	206	56.0	.1317			9	3	17	20	34	38	32	28	2	
	1912	192	56.0	.1208												
	1911	192	56.0	.1208												
South Carolina:																
5 establishments.	1907	327	62.0	.0952	1	21	53	22	129	79	19	3				
	1908	333	60.1	.0943		38	59	25	20	163	24	2	2			
	1909	359	60.0	.0853		51	11	21	177	60	38	1				
11 establishments.	1910	336	60.0	.0958		65	2	35	105	109	12	1	7			
	1911	582	60.0	.0896	18	119	28	91	159	146	13	1	7			
	1912	590	60.0	.0947	4	87	48	107	131	178	29	4	2			
20 establishments.	1911	1,134	60.0	.0964	4	87	80	279	224	382	67	8	3			
	1912	1,172	60.0	.1017		19	112	179	218	446	175	10	11	2		
	1912	1,172	60.0	.1017												
SPINNERS, MULE, MALE.																
Maine:																
2 establishments.	1907	25	60.0	.2496									1	1	11	12
	1908	20	60.0	.2364											17	3
	1909	23	60.0	.2288											21	2
	1910	20	58.0	.2361										1	16	3
3 establishments.	1910	56	58.0	.2331							2			5	34	15
	1911	53	58.0	.2477								1	5	29	18	
4 establishments.	1911	57	58.0	.2492									1	5	29	22
	1912	49	58.0	.2510										8	13	28
Massachusetts:																
5 establishments.	1907	88	58.0	.2373									1	8	56	23
	1908	93	58.0	.2317								1	4	3	62	3
	1909	60	58.0	.2263									2		55	3
	1910	50	56.0	.2243									2	11	30	7
4 establishments.	1910	50	56.0	.2243									2	11	30	7
	1911	46	56.0	.2313						1				2	39	4
6 establishments.	1911	115	56.0	.3023							1			2	45	67
	1912	111	54.0	.3392											27	34
New Hampshire:																
2 establishments.	1910	27	58.0	.2256										2	23	2
	1911	23	58.0	.2271								1			22	
3 establishments.	1911	31	58.0	.2201									1		30	
	1912	20	58.0	.2502									1	1	2	16
Rhode Island:																
2 establishments.	1907	50	58.0	.2372						2			4	2	23	19
	1908	46	58.0	.2243									1	10	17	18
	1909	41	58.0	.2309								1	3	2	21	14
	1910	39	56.0	.2184									1	9	27	2
3 establishments.	1910	67	56.0	.2117									1	19	45	2
	1911	64	56.0	.2128						1	1			18	38	6
3 establishments.	1911	64	56.0	.2128						1	1			18	38	6
	1912	64	56.0	.2313						1				4	43	16

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.													
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.		
					TRIMMERS OR INSPECTORS, FEMALE.													
Alabama:																		
2 establishments.	1907	25	66.0	\$0.0760	5	8	1	11										
	1908	38	62.8	.0863			7	10	16	5								
	1909	29	63.3	.0873			9		16	4								
	1910	25	62.9	.0878		2	4	3	10	6								
2 establishments.	1910	25	62.9	.0878		2	4	3	10	6								
	1911	38	62.8	.0869		1	10	2	19	6								
5 establishments.	1911	46	62.5	.0851	2	1	13	2	19	9								
	1912	39	62.6	.0923			3	9	17	7	3							
Connecticut:																		
2 establishments.	1911	3	58.0	.1172						3								
	1912	9	58.0	.1297							9							
Georgia:																		
4 establishments.	1910	29	62.1	.0886			2	13	13		1							
	1911	42	62.7	.0920			2	4	28	8								
10 establishments.	1911	74	62.7	.0891	5		12	5	30	21	1							
	1912	63	60.0	.0950		6		11	6	38	1	1						
Maine:																		
3 establishments.	1907	58	60.0	.1037					4	52		1	1					
	1908	46	60.0	.0985					31	14		1						
	1909	60	60.0	.1061					41	9		9	1					
	1910	60	58.0	.1045					45	6		9						
4 establishments.	1910	65	58.0	.1040					46	10		9						
	1911	71	58.0	.1055					41	20		10						
5 establishments.	1911	90	58.0	.1007				19	41	20		10						
	1912	88	58.0	.1123					1	72	5		10					
Massachusetts:																		
11 establishments.	1907	88	58.0	.1200					14	36	18	20						
	1908	84	58.0	.1208					2	20	13	28	11	10				
	1909	94	58.0	.1059					4	35	43	1	11					
	1910	118	56.0	.1077					4	24	82		12					
13 establishments.	1910	142	56.0	.1072					4	24	99	2	13					
	1911	144	56.0	.1110					4	16	94	9	21					
17 establishments.	1911	203	56.0	.1120					4	26	118	34	21					
	1912	198	54.0	.1254						2	81	80	35					
New Hampshire:																		
3 establishments.	1910	28	58.0	.1102						26	2							
	1911	42	58.0	.1183						23	19							
4 establishments.	1911	106	58.0	.1301						34	50	7	13	2				
	1912	94	58.0	.1415					2	11	40	14	23	3	1			
North Carolina:																		
6 establishments.	1910	16	62.8	.0806	1		8	4	2	1								
	1911	23	62.6	.0807	1	2	8	9	2	1								
9 establishments.	1911	25	62.6	.0800	1	2	10	9	2	1								
	1912	31	60.0	.0941			8	3	3	13	4							
Rhode Island:																		
2 establishments.	1907	8	58.0	.1565						1		3	4					
	1908	9	58.0	.1563						1		3	5					
	1909	10	58.0	.1544					1	1		1	6	1				
	1910	9	56.0	.1579						2			5	2				
3 establishments.	1910	19	56.0	.1383				1	4	2	1	3	6	2				
	1911	23	56.0	.1406						7	2	10	3				1	
3 establishments.	1911	23	56.0	.1406						7	2	10	3				1	
	1912	22	56.0	.1627						1	4	3	8	4			2	

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over
					TRIMMERS OR INSPECTORS, FEMALE—concd.											
South Carolina:																
5 establish-ments.	1907	40	62.0	\$0.0733	2	13	20	...	5	...	...	...	...	...	...	...
	1908	43	60.0	.0765	...	13	16	2	5	...	...	...	...	...	...	...
	1909	65	60.0	.0814	...	5	27	10	16	6	1	...	...	...	...	...
8 establish-ments.	1910	52	60.0	.0793	...	2	25	13	9	3	...	...	...	...	...	...
	1910	69	60.0	.0767	3	8	32	13	10	3	...	...	...	...	...	...
	1911	76	60.0	.0797	3	9	33	8	15	6	2	...	...	...	...	...
18 establish-ments.	1911	130	60.0	.0817	3	9	52	23	27	14	2	...	...	...	...	...
	1912	150	60.0	.0848	...	...	50	43	27	28	2	...	...	...	...	...
WEAVERS, MALE.																
Alabama:																
3 establish-ments.	1907	200	66.0	.1239	...	...	5	21	26	64	33	22	12	11	5	1
	1908	315	61.0	.1242	...	...	...	21	46	106	60	44	16	12	10	...
	1909	321	61.7	.1280	...	...	1	14	31	100	84	49	27	7	7	1
	1910	305	62.1	.1308	...	...	1	8	35	98	82	38	24	14	5	...
3 establish-ments.	1910	305	62.1	.1308	...	...	1	8	35	98	82	38	24	14	5	...
	1911	217	61.8	.1303	...	...	1	6	26	68	50	26	20	13	7	...
7 establish-ments.	1911	324	61.5	.1345	...	...	1	6	29	91	76	46	40	22	13	...
	1912	388	62.1	.1412	...	...	...	10	22	88	84	69	62	33	18	2
Connecticut:																
2 establish-ments.	1911	107	58.0	.1654	...	...	...	...	...	9	16	21	26	18	17	...
	1912	97	58.0	.1826	...	...	...	1	...	4	4	15	16	21	35	1
Georgia:																
4 establish-ments.	1907	207	64.9	.1155	...	...	1	15	48	60	50	22	9	...	2	...
	1908	181	64.1	.1279	...	...	1	5	21	50	50	36	12	1	5	...
	1909	264	64.1	.1267	...	...	1	11	35	81	61	39	26	7	3	...
	1910	216	60.5	.1275	...	...	...	5	29	68	43	45	19	4	3	...
7 establish-ments.	1910	545	62.9	.1299	...	...	6	13	39	184	125	93	57	19	8	1
	1911	446	63.0	.1298	...	...	3	10	31	127	122	101	42	7	3	...
13 establish-ments.	1911	691	62.8	.1282	...	...	8	29	56	182	197	137	62	13	6	1
	1912	768	60.0	.1431	...	...	...	10	53	142	195	146	107	71	37	7
Maine:																
3 establish-ments.	1907	220	60.0	.1920	...	...	...	...	...	8	19	23	39	36	70	25
	1908	212	60.0	.1742	...	...	...	1	3	12	16	35	43	57	44	1
	1909	242	60.0	.1712	...	...	...	2	4	20	25	33	46	57	52	3
	1910	203	58.0	.1741	...	...	...	...	3	9	21	42	38	44	42	4
4 establish-ments.	1910	332	58.0	.1689	...	...	...	1	5	29	40	62	62	65	64	4
	1911	275	58.0	.1780	...	...	...	1	20	19	41	54	64	73	3	...
5 establish-ments.	1911	300	58.0	.1780	...	...	...	...	1	21	21	49	58	67	78	5
	1912	384	58.0	.1967	...	...	...	1	1	15	21	39	61	57	154	35
Massachusetts:																
11 establish-ments.	1907	1,075	58.0	.1790	...	...	...	...	7	38	89	145	271	282	223	20
	1908	1,063	58.0	.1843	...	...	...	1	3	35	69	127	205	278	322	23
	1909	1,083	58.0	.1614	...	...	...	...	23	87	135	315	277	98	136	12
	1910	1,230	56.0	.1631	...	...	...	...	12	101	181	390	286	119	191	10
12 establish-ments.	1910	1,625	56.0	.1625	...	...	...	1	15	124	257	426	383	183	225	11
	1911	1,516	56.0	.1635	...	...	...	...	23	99	226	411	347	206	184	20
18 establish-ments.	1911	2,576	56.0	.1638	...	...	...	3	45	171	413	604	555	419	339	27
	1912	2,903	54.0	.1797	...	...	...	...	23	118	251	415	722	606	680	88
New Hampshire:																
3 establish-ments.	1910	261	58.0	.1547	...	...	...	1	2	51	47	49	51	31	26	3
	1911	274	58.0	.1688	...	...	...	...	8	22	32	50	45	65	50	2
5 establish-ments.	1911	1,920	58.0	.1672	...	...	...	10	33	121	224	385	479	384	270	14
	1912	1,825	58.0	.1902	...	...	...	4	8	56	73	173	307	469	676	59

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
WEAVERS, MALE—concluded.															
North Carolina:															
4 establishments.	1907	142	66.0	\$0.1240				2	13	50	51	19	6	1	
	1908	124	64.0	.1292				7	7	41	28	26	12	2	1
	1909	201	63.8	.1283			3	6	20	55	46	52	16	3	
	1910	161	63.8	.1287				3	24	35	40	43	13	3	
12 establishments.	1910	627	62.7	.1319		1	17	52	120	201	164	59	11	2	
	1911	761	62.7	.1386			21	41	125	187	233	127	21	6	
13 establishments.	1911	767	62.7	.1385			21	41	129	189	233	127	21	6	
	1912	866	60.0	.1436			9	25	123	229	231	187	44	17	1
Rhode Island:															
2 establishments.	1907	297	58.0	.1922					7	18	29	55	74	89	25
	1908	251	58.0	.1895					5	4	13	27	38	67	15
	1909	287	58.0	.1869					3	11	22	24	54	77	17
	1910	259	56.0	.1920					2	7	16	21	44	70	81
3 establishments.	1910	565	56.0	.1786			1	9	21	63	81	114	126	128	22
	1911	553	56.0	.1822				4	20	54	83	103	105	164	20
3 establishments.	1911	553	56.0	.1822				4	20	54	83	103	105	164	20
	1912	766	56.0	.1917				9	38	70	79	117	131	233	89
South Carolina:															
5 establishments.	1907	416	61.5	.1315				22	47	77	139	69	36	19	6
	1908	490	60.5	.1328				5	22	114	186	96	43	16	8
	1909	534	60.0	.1341				11	27	125	165	116	56	23	11
	1910	485	60.0	.1382				8	21	89	168	86	67	34	12
11 establishments.	1910	920	60.0	.1358				17	53	203	280	187	105	56	19
	1911	804	60.0	.1420				14	32	120	238	193	126	49	32
20 establishments.	1911	1,533	60.0	.1384				21	63	295	497	327	206	76	48
	1912	1,704	60.0	.1407				15	60	314	522	387	246	106	53
WEAVERS, FE-MALE.															
Alabama:															
3 establishments.	1907	158	66.0	.1119			10	22	18	66	29	8	4		1
	1908	170	61.9	.1194				20	27	54	38	11	12	6	2
	1909	195	62.3	.1225				13	20	76	48	22	10	5	1
	1910	207	62.1	.1222				16	24	73	49	25	11	7	2
3 establishments.	1910	207	62.1	.1222				16	24	73	49	25	11	7	2
	1911	193	61.5	.1263				8	13	81	45	18	19	8	1
7 establishments.	1911	298	61.6	.1255				14	30	102	85	30	23	12	2
	1912	279	62.1	.1245				19	29	73	83	47	19	8	1
Connecticut:															
2 establishments.	1911	118	58.0	.1331				2	3	24	48	33	5	2	1
	1912	133	58.0	.1479				2	2	15	29	45	28	9	2
Georgia:															
4 establishments.	1907	249	63.8	.1087			2	34	59	89	44	16	5		
	1908	299	62.0	.1410			3	11	46	109	90	33	6	1	
	1909	260	61.9	.1133				21	44	111	63	17	4		
	1910	235	60.4	.1170				11	25	110	64	20	5		
7 establishments.	1910	443	62.2	.1203			3	29	45	183	99	52	26	3	3
	1911	459	62.3	.1207			7	14	50	180	126	56	23	2	1
13 establishments.	1911	593	62.2	.1200			12	26	72	224	153	68	32	3	2
	1912	583	60.0	.1306				21	47	163	167	96	54	24	10

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Concluded.

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					Under 6 cts.	6 and under 7 cts.	7 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 cts. and over.
WEAVERS, FEMALE—concl'd.															
Maine:															
3 establishments.	1907	462	60.0	\$.1616				1	28	87	111	117	67	48	3
	1908	512	60.0	.1496				8	7	78	123	125	99	44	31
	1909	588	60.0	.1512				5	13	70	122	161	121	50	44
	1910	539	58.0	.1496				5	16	68	128	144	92	47	36
4 establishments.	1910	763	58.0	.1488				6	27	110	181	185	123	79	48
	1911	694	58.0	.1519				11	26	93	149	172	103	71	65
5 establishments.	1911	800	58.0	.1517				12	30	105	173	209	112	80	75
	1912	739	58.0	.1627				2	17	48	112	183	183	101	83
Massachusetts:															
11 establishments.	1907	1,562	58.0	.1622				10	26	109	208	291	512	293	110
	1908	1,700	58.0	.1634				2	15	129	239	342	493	317	151
	1909	1,615	58.0	.1505				8	38	189	256	547	444	84	43
	1910	1,728	56.0	.1513				47	205	277	589	406	134	66	4
13 establishments.	1910	2,605	56.0	.1501				61	332	493	845	548	218	103	5
	1911	2,601	56.0	.1469				3	75	366	588	774	547	161	83
18 establishments.	1911	3,619	56.0	.1484				4	105	474	816	1,044	745	281	144
	1912	3,813	54.0	.1668				35	241	476	757	1,066	783	483	422
New Hampshire:															
3 establishments.	1910	674	58.0	.1450				6	28	134	165	143	77	79	41
	1911	677	58.0	.1513				2	27	83	151	170	116	57	71
5 establishments.	1911	3,361	58.0	.1599				16	79	307	561	698	777	579	321
	1912	3,408	58.0	.1799				10	39	135	302	539	614	717	975
North Carolina:															
4 establishments.	1907	69	66.0	.1136				5	6	37	17	4			
	1908	49	64.2	.1210				5	7	12	15	6	4		
	1909	67	64.5	.1184				2	5	34	18	7	1		
	1910	74	64.5	.1163				4	13	29	17	10	1		
12 establishments.	1910	361	62.8	.1206				23	43	126	99	53	14	1	2
	1911	398	62.6	.1248				19	34	112	138	72	22		1
13 establishments.	1911	400	62.6	.1248				19	34	112	140	72	22		1
	1912	414	60.0	.1302				16	30	101	117	105	39	5	
Rhode Island:															
2 establishments.	1907	459	58.0	.1694				2	3	46	57	65	81	115	86
	1908	397	58.0	.1693					3	17	51	83	82	99	61
	1909	400	58.0	.1655				1	12	37	59	57	90	79	61
	1910	337	56.0	.2382					5	33	47	59	66	68	57
3 establishments.	1910	605	56.0	.1950				4	14	92	117	124	100	88	63
	1911	597	56.0	.1607					12	73	93	115	112	127	59
3 establishments.	1911	597	56.0	.1607					12	73	93	115	112	127	59
	1912	626	56.0	.1705				1	23	49	66	124	99	113	139
South Carolina:															
5 establishments.	1907	172	62.0	.1215				4	27	59	54	17	7	2	2
	1908	144	60.4	.1220				8	19	53	35	14	10	2	3
	1909	185	60.0	.1213				9	15	62	68	23	7		1
	1910	175	60.0	.1222				6	7	63	70	20	8	1	
11 establishments.	1910	340	60.0	.1220				11	24	117	125	50	10	3	
	1911	307	60.0	.1296				11	16	75	114	57	26	4	4
20 establishments.	1911	746	60.0	.1266				26	58	218	256	116	53	11	8
	1912	724	60.0	.1281				15	40	241	219	124	64	18	3

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

COTTON GOODS MANUFACTURING—Continued.

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

NUMBER.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
Card strippers, male:										
36 establishments	1907	284	59.8			166	54	24	4	36
	1908	289	59.3			186	70		10	23
	1909	287	59.3			175	82		9	21
	1910	318	57.8		166	78	52		8	14
59 establishments	1910	523	58.4		250	121	68	12	19	53
	1911	515	58.3		253	123	60	12	19	48
88 establishments	1911	786	58.3		314	255	126	12	22	57
	1912	800	57.1	284	37	251	219		1	8
Drawing tenders, male:										
34 establishments	1907	219	60.4			112	26	42	1	38
	1908	234	59.7			110	94		9	21
	1909	253	59.7			129	89		12	23
	1910	253	58.5		113	34	78		10	18
56 establishments	1910	436	59.5		144	54	111	62	17	48
	1911	457	59.7		147	45	120	62	23	60
84 establishments	1911	750	59.5		211	130	235	62	28	84
	1912	723	57.9	195	39	125	348		4	12
Drawing tenders, female:										
19 establishments	1907	234	60.2			117	64		16	37
	1908	232	59.3			130	86			16
	1909	249	59.4			128	105			16
	1910	233	58.1		67	110	49			7
27 establishments	1910	359	58.2		136	139	56			28
	1911	344	57.7		146	145	37			16
42 establishments	1911	502	57.8		172	255	56			19
	1912	525	57.0	190	9	231	82			13
Fine speeders, male:										
16 establishments	1907	201	63.9					96	10	95
	1908	224	61.1				171		24	29
	1909	258	61.2				195		24	39
	1910	249	61.0				192		29	28
32 establishments	1910	426	61.4				273	41	52	60
	1911	396	61.4				243	63	35	55
62 establishments	1911	623	61.2		3	17	474		41	88
	1912	666	59.7	50		12	581			23
Fine speeders, female:										
35 establishments	1907	721	59.3			463	153	30	22	53
	1908	694	59.1			438	208		5	43
	1909	714	59.1			453	220		1	40
	1910	800	57.6		437	185	143		3	32
57 establishments	1910	1,175	57.8		602	313	165	21	12	62
	1911	1,189	57.9		597	311	165	36	10	70
82 establishments	1911	1,753	57.9		801	547	258	36	16	95
	1912	1,784	56.6	784	106	531	328		5	30
Loom fixers, male:										
36 establishments	1907	631	60.8			277	105	95	21	133
	1908	619	59.7			278	270		13	58
	1909	680	59.8			304	286		23	67
	1910	728	58.3		323	133	207		17	48
59 establishments	1910	1,267	58.7		528	232	293	56	46	112
	1911	1,314	58.6		574	226	296	60	46	112
88 establishments	1911	2,200	58.6		729	659	543	60	51	158
	1912	2,273	57.7	566	191	701	762		4	49
Slashers, male:										
35 establishments	1907	159	60.3			77	29	25	7	21
	1908	158	59.6			75	69		1	13
	1909	167	59.4			82	73		1	11
	1910	166	58.1		72	34	52		1	7

TABLE IV.—CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.
COTTON GOODS MANUFACTURING—Continued.
NUMBER—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
Slashers, male—Concluded.										
57 establishments.....	1910	276	58.4	.....	116	53	72	14	4	17
	1911	303	58.5	.....	122	55	81	25	4	16
85 establishments.....	1911	455	58.5	.....	149	144	106	25	6	25
	1912	447	57.4	140	17	153	131	.....	1	5
Spinners, frame, male:										
25 establishments.....	1907	184	59.4	.....	.....	122	22	26	.....	14
	1908	214	58.8	.....	.....	136	74	.....	1	3
	1909	188	58.9	.....	.....	135	41	.....	1	11
	1910	188	57.2	.....	109	47	31	.....	.....	1
36 establishments.....	1910	261	57.2	.....	160	53	44	.....	3	1
	1911	420	57.0	.....	291	81	39	.....	.....	9
46 establishments.....	1911	700	57.2	.....	402	228	52	.....	.....	18
	1912	679	56.2	353	.....	269	44	.....	.....	13
Spinners, frame, female:										
36 establishments.....	1907	2,317	61.0	.....	.....	1,000	305	327	113	572
	1908	2,114	59.9	.....	.....	896	923	17	61	217
	1909	2,408	59.8	.....	.....	1,107	951	.....	84	266
	1910	2,500	58.5	.....	1,020	442	784	.....	98	156
59 establishments.....	1910	3,704	59.0	.....	1,313	621	1,087	140	186	357
	1911	3,735	59.1	.....	1,285	646	1,053	181	181	339
88 establishments.....	1911	5,981	59.1	.....	1,590	1,639	1,811	181	209	551
	1912	6,214	58.0	1,572	192	1,667	2,566	.....	23	194
Spinners, mule, male:										
11 establishments.....	1907	199	58.6	.....	.....	138	61	.....	.....	.....
	1908	193	58.4	.....	.....	158	35	.....	.....	.....
	1909	156	58.5	.....	.....	118	33	.....	.....	.....
	1910	131	56.8	.....	89	33	9	.....	.....	.....
14 establishments.....	1910	222	57.0	.....	117	96	9	.....	.....	.....
	1911	207	57.0	.....	110	88	9	.....	.....	.....
18 establishments.....	1911	288	56.8	.....	179	100	9	.....	.....	.....
	1912	266	55.7	118	64	84	.....	.....	.....	.....
Trimmers or inspectors, female:										
30 establishments.....	1907	251	60.4	.....	.....	102	70	40	.....	39
	1908	261	60.0	.....	.....	103	120	.....	7	31
	1909	285	59.6	.....	.....	115	147	.....	6	17
	1910	297	58.1	.....	127	76	73	.....	9	12
46 establishments.....	1910	408	58.3	.....	161	100	109	4	12	22
	1911	474	58.7	.....	167	119	128	9	14	37
75 establishments.....	1911	712	58.7	.....	226	202	205	9	19	51
	1912	703	58.0	204	22	194	266	.....	.....	17
Weavers, male:										
36 establishments.....	1907	2,769	60.3	.....	.....	1,397	502	321	76	473
	1908	2,848	59.6	.....	.....	1,424	1,006	115	81	222
	1909	3,123	59.8	.....	.....	1,497	1,156	.....	147	323
	1910	3,037	58.3	.....	1,489	337	925	.....	119	167
58 establishments.....	1910	5,334	58.8	.....	2,190	703	1,440	299	272	430
	1911	5,012	58.8	.....	2,069	670	1,225	434	236	378
88 establishments.....	1911	8,855	58.6	.....	3,129	2,366	2,195	434	244	487
	1912	9,751	57.5	2,937	766	2,322	3,590	.....	2	134
Weavers, female:										
36 establishments.....	1907	3,724	59.5	.....	.....	2,267	809	172	185	291
	1908	3,903	59.0	.....	.....	2,473	1,197	31	29	173
	1909	3,930	59.1	.....	.....	2,363	1,345	.....	34	188
	1910	3,905	57.6	.....	2,065	1,052	625	.....	37	126
59 establishments.....	1910	6,334	57.8	.....	3,210	1,676	849	189	130	280
	1911	6,242	57.8	.....	3,198	1,590	830	236	120	268
88 establishments.....	1911	10,792	57.9	.....	4,216	4,442	1,422	236	149	327
	1912	10,980	56.9	3,890	626	4,464	1,800	.....	24	86

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

COTTON GOODS MANUFACTURING—Continued.

PER CENT.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
Card strippers, male:										
36 establishments.....	{ 1907	284	59.8	.....	.....	58.5	19.0	8.5	1.4	12.7
	{ 1908	289	59.3	.....	.....	64.4	24.2	.....	3.5	8.0
	{ 1909	287	59.3	.....	.....	61.0	28.6	.....	3.1	7.3
	{ 1910	318	57.8	.....	52.2	24.5	16.4	.....	2.5	4.4
59 establishments.....	{ 1910	523	58.4	.....	47.8	23.1	13.0	2.3	3.6	10.1
	{ 1911	515	58.3	.....	49.1	23.9	11.7	2.3	3.7	9.3
88 establishments.....	{ 1911	786	58.3	.....	39.9	32.4	16.0	1.5	2.8	7.3
	{ 1912	800	57.1	35.5	4.6	31.4	27.4	.....	.1	1.0
Drawing tenders, male:										
34 establishments.....	{ 1907	219	60.4	.....	.....	51.1	11.9	19.2	.5	17.4
	{ 1908	234	59.7	.....	.....	47.0	40.2	.....	3.8	9.0
	{ 1909	253	59.7	.....	.....	51.0	35.2	.....	4.7	9.1
	{ 1910	253	58.5	.....	44.7	13.4	30.8	.....	4.0	7.1
56 establishments.....	{ 1910	436	59.5	.....	33.0	12.4	25.5	14.2	3.9	11.0
	{ 1911	457	59.7	.....	32.2	9.8	26.3	13.6	5.0	13.1
84 establishments.....	{ 1911	750	59.5	.....	28.1	17.3	31.3	8.3	3.7	11.2
	{ 1912	723	57.9	27.0	5.4	17.3	48.1	.....	.6	1.7
Drawing tenders, female:										
19 establishments.....	{ 1907	234	60.2	.....	.....	50.0	27.4	.....	6.8	15.8
	{ 1908	232	59.3	.....	.....	56.0	37.1	.....	.....	6.9
	{ 1909	249	59.4	.....	.....	51.4	42.2	.....	.....	6.4
	{ 1910	233	58.1	.....	28.8	47.2	21.0	.....	.....	3.0
27 establishments.....	{ 1910	359	58.2	.....	37.9	38.7	15.6	.....	.....	7.8
	{ 1911	344	57.7	.....	42.4	42.2	10.8	.....	.....	4.7
42 establishments.....	{ 1911	502	57.8	.....	34.3	50.8	11.2	.....	.....	3.8
	{ 1912	525	57.0	36.2	1.7	44.0	15.6	.....	.....	2.5
Fine speeders, male:										
16 establishments.....	{ 1907	201	63.9	.....	.....	.....	.....	47.8	5.0	47.3
	{ 1908	224	61.1	.....	.....	.....	76.3	.....	10.7	12.9
	{ 1909	258	61.2	.....	.....	.....	75.6	.....	9.3	15.1
	{ 1910	249	61.0	.....	.....	.....	77.1	.....	11.6	11.2
32 establishments.....	{ 1910	426	61.4	.....	.....	.....	64.1	9.6	12.2	14.1
	{ 1911	396	61.4	.....	.....	.....	61.4	15.9	8.8	13.9
62 establishments.....	{ 1911	623	61.2	.....	.5	2.7	76.1	.....	6.6	14.1
	{ 1912	666	59.7	7.5	.....	1.8	87.2	.....	.....	3.5
Fine speeders, female:										
35 establishments.....	{ 1907	721	59.3	.....	.....	64.2	21.2	4.2	3.1	7.4
	{ 1908	694	59.1	.....	.....	63.1	30.0	.....	.7	6.2
	{ 1909	714	59.1	.....	.....	63.4	30.8	.....	.1	5.6
	{ 1910	800	57.6	.....	54.6	23.1	17.9	.....	.4	4.0
57 establishments.....	{ 1910	1,175	57.8	.....	51.2	26.6	14.0	1.8	1.0	5.3
	{ 1911	1,189	57.9	.....	50.2	26.2	13.9	3.0	.8	5.9
82 establishments.....	{ 1911	1,753	57.9	.....	45.7	31.2	14.7	2.1	.9	5.4
	{ 1912	1,784	56.6	43.9	5.9	29.8	18.4	.....	.3	1.7
Loom fixers, male:										
36 establishments.....	{ 1907	631	60.8	.....	.....	43.9	16.6	15.1	3.3	21.1
	{ 1908	619	59.7	.....	.....	44.9	43.6	.....	2.1	9.4
	{ 1909	680	59.8	.....	.....	44.7	42.1	.....	3.4	9.9
	{ 1910	728	58.3	.....	44.4	18.3	28.4	.....	2.3	6.6
59 establishments.....	{ 1910	1,267	58.7	.....	41.7	18.3	23.1	4.4	3.6	8.8
	{ 1911	1,314	58.6	.....	43.7	17.2	22.5	4.6	3.5	8.5
88 establishments.....	{ 1911	2,200	58.6	.....	33.1	30.0	24.7	2.7	2.3	7.2
	{ 1912	2,273	57.7	24.9	8.4	30.8	33.5	.....	.2	2.2
Slashers, male:										
35 establishments.....	{ 1907	159	60.3	.....	.....	48.4	18.2	15.7	4.4	13.2
	{ 1908	158	59.6	.....	.....	47.5	43.7	.....	.6	8.2
	{ 1909	167	59.4	.....	.....	49.1	43.7	.....	.6	6.6
	{ 1910	166	58.1	.....	43.4	20.5	31.3	.....	.6	4.2

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

COTTON GOODS MANUFACTURING—Continued.

PER CENT—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
Slashers, male—Concluded.	1910	276	58.4	.....	42.0	19.2	26.1	5.1	1.4	6.2
	1911	303	58.5	.....	40.3	18.2	26.7	8.3	1.3	5.3
57 establishments.....	1911	455	58.5	.....	32.7	31.6	23.3	5.5	1.3	5.5
	1912	447	57.4	31.3	3.8	34.2	29.3	.....	.2	1.1
Spinners, frame, male:	1907	184	59.4	.....	.....	66.3	12.0	14.1	.....	7.6
	1908	214	58.8	.....	.....	63.6	34.6	.....	.5	1.4
	1909	188	58.9	.....	.....	71.8	21.8	.....	.5	5.9
	1910	188	57.2	.....	58.0	25.0	16.5	.....	.....	.6
25 establishments.....	1910	261	57.2	.....	61.3	20.3	16.9	.....	1.1	.4
	1911	420	57.0	.....	69.3	19.3	9.3	.....	.....	2.1
36 establishments.....	1911	700	57.2	.....	57.4	32.6	7.4	.....	.....	2.6
	1912	679	56.2	52.0	.....	39.6	6.5	.....	.....	1.9
Spinners, frame, female:	1907	2,317	61.0	.....	.....	43.2	13.2	14.1	4.9	24.7
	1908	2,114	59.9	.....	.....	42.4	43.7	.8	2.9	10.3
	1909	2,408	59.8	.....	.....	46.0	39.5	.....	3.5	11.0
	1910	2,500	58.5	.....	40.8	17.7	31.4	.....	3.9	6.2
59 establishments.....	1910	3,704	59.0	.....	35.4	16.8	29.3	3.8	5.0	9.6
	1911	3,735	59.1	.....	34.4	17.3	28.2	4.8	4.8	10.4
88 establishments.....	1911	5,981	59.1	.....	26.6	27.4	30.3	3.0	3.5	9.2
	1912	6,214	58.0	25.3	3.1	26.8	41.3	.....	.4	3.1
Spinners, mule, male:	1907	199	58.6	.....	.....	69.3	30.7	.....	.....	.....
	1908	193	58.4	.....	.....	81.9	18.1	.....	.....	.....
	1909	156	58.5	.....	.....	75.6	24.4	.....	.....	.....
	1910	131	56.8	.....	67.9	25.2	6.9	.....	.....	.....
11 establishments.....	1910	222	57.0	.....	52.7	43.2	4.1	.....	.....	.....
	1911	207	57.0	.....	53.1	42.5	4.3	.....	.....	.....
14 establishments.....	1911	288	56.8	.....	62.2	34.7	3.1	.....	.....	.....
	1912	266	55.7	44.4	24.1	31.6	.....	.....	.....	.....
Trimmers or inspectors, female:	1907	251	60.4	.....	.....	40.6	27.9	15.9	.....	15.5
	1908	261	60.0	.....	.....	39.5	46.0	.....	2.7	11.9
	1909	285	59.6	.....	.....	40.4	51.6	.....	2.1	6.0
	1910	297	58.1	.....	42.8	25.6	24.6	.....	3.0	4.0
30 establishments.....	1910	408	58.3	.....	39.5	24.5	26.7	1.0	2.9	5.4
	1911	474	58.7	.....	35.2	25.1	27.0	1.9	3.0	7.8
46 establishments.....	1911	712	58.7	.....	31.7	28.4	28.8	1.3	2.7	7.2
	1912	703	58.0	29.0	3.1	27.6	37.8	.....	.....	2.4
Weavers, male:	1907	2,769	60.3	.....	.....	50.5	18.1	11.6	2.7	17.1
	1908	2,848	59.6	.....	.....	50.0	35.3	4.0	2.8	7.8
	1909	3,123	59.8	.....	.....	47.9	37.0	.....	4.7	10.3
	1910	3,037	58.3	.....	49.0	11.1	30.5	.....	3.9	5.5
58 establishments.....	1910	5,334	58.8	.....	41.1	13.2	27.0	5.6	5.1	8.1
	1911	5,012	58.8	.....	41.3	13.4	24.4	8.7	4.7	7.5
88 establishments.....	1911	8,855	58.6	.....	35.3	26.7	24.8	4.9	2.8	5.5
	1912	9,751	57.5	30.1	7.9	23.8	36.8	.....	(¹)	1.4
Weavers, female:	1907	3,724	59.5	.....	.....	60.9	21.7	4.6	5.0	7.8
	1908	3,903	59.0	.....	.....	63.4	30.7	.8	.7	4.4
	1909	3,930	59.1	.....	.....	60.1	34.2	.....	.9	4.8
	1910	3,905	57.6	.....	52.9	26.9	16.0	.....	.9	3.2
59 establishments.....	1910	6,334	57.8	.....	50.7	26.5	13.4	3.0	2.1	4.4
	1911	6,242	57.8	.....	51.2	25.5	13.3	3.8	1.9	4.3
88 establishments.....	1911	10,792	57.9	.....	39.1	41.2	13.2	2.2	1.4	3.0
	1912	10,980	56.9	35.4	5.7	40.7	17.2	.....	.2	.8

¹ Less than one-tenth of 1 per cent.

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

COTTON GOODS MANUFACTURING—Continued.

CARD STRIPPERS: Male.

Year and State.	Number of establishments.	Number of employ-ees.	Average nomi-nal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
1907.										
Alabama.....	3	13	66.0						13	
Georgia.....	4	14	64.5					4	10	
Maine.....	3	33	60.0				33			
Massachusetts.....	11	115	58.0			115				
North Carolina.....	4	13	66.0						13	
Rhode Island.....	2	26	58.0			26				
South Carolina.....	5	24	62.0				24			
Other States.....	4	46	58.9			25	21			
Total.....	36	284	59.8			166	54	24	4	36
1908.										
Alabama.....	3	12	62.0				6		6	
Georgia.....	4	17	63.0				4		13	
Maine.....	3	32	60.0				32			
Massachusetts.....	11	126	58.0			126				
North Carolina.....	4	14	63.8					10	4	
Rhode Island.....	2	26	58.0			26				
South Carolina.....	5	20	60.0				20			
Other States.....	4	42	58.4			34	8			
Total.....	36	289	59.3			186	70		10	23
1909.										
Alabama.....	3	8	63.0				4		4	
Georgia.....	4	15	64.4				4		11	
Maine.....	3	36	60.0				36			
Massachusetts.....	11	112	58.0			112				
North Carolina.....	4	15	64.2					9	6	
Rhode Island.....	2	26	58.0			26				
South Carolina.....	5	30	60.0				30			
Other States.....	4	45	58.4			37	8			
Total.....	36	287	59.3			175	82		9	21
1910.										
Alabama.....	3	12	63.0				6		6	
Georgia.....	7	54	64.2				16		38	
Maine.....	4	40	58.0			40				
Massachusetts.....	13	216	56.0		216					
New Hampshire.....	3	66	58.0			66				
North Carolina.....	12	40	63.4					12	19	
Rhode Island.....	3	34	56.0		34					
South Carolina.....	11	40	60.0				40			
Other States.....	3	21	53.6			15	6			
Total.....	59	523	58.4		250	121	68	12	19	53
1911.										
Alabama.....	7	20	62.6				11		1	8
Connecticut.....	2	21	58.0			21				
Georgia.....	13	64	63.8				24		40	
Maine.....	5	59	58.0			59				
Massachusetts.....	18	278	56.0		278					
New Hampshire.....	5	173	58.0			173				
North Carolina.....	13	42	63.3					12	21	
Rhode Island.....	3	36	56.0		36					
South Carolina.....	20	85	60.0				85			
Other States.....	2	8	59.5			2	6			
Total.....	88	786	58.3		314	255	126	12	22	57
1912.										
Alabama.....	7	21	62.4				12		1	8
Connecticut.....	2	22	58.0				22			
Georgia.....	13	69	60.0				69			
Maine.....	5	51	58.0							
Massachusetts.....	18	279	54.0	279		51				

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

COTTON GOODS MANUFACTURING—Continued.

CARD STRIPPERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employ-ees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
1912—Concluded.										
New Hampshire.....	5	175	58.0			175				
North Carolina.....	13	43	60.0				43			
Rhode Island.....	3	37	56.0		37					
South Carolina.....	20	95	60.0				95			
Other States.....	2	8	55.5	5		3				
Total.....	88	800	57.1	284	37	251	219		1	8

DRAWING TENDERS: Male.

1907.										
Alabama.....	3	15	66.0							15
Georgia.....	3	8	65.6						1	7
Maine.....	3	8	60.0				8			
Massachusetts.....	11	96	58.0			96				
North Carolina.....	4	16	66.0							16
Rhode Island.....	2	16	58.0			16				
South Carolina.....	5	42	62.0					42		
Other States.....	3	18	60.0				18			
Total.....	34	219	60.4			112	26	42	1	38
1908.										
Alabama.....	3	20	62.1				13			7
Georgia.....	3	16	64.1				5			11
Maine.....	3	15	60.0				15			
Massachusetts.....	11	88	58.0			88				
North Carolina.....	4	12	63.8						9	3
Rhode Island.....	2	22	58.0			22				
South Carolina.....	5	46	60.0				46			
Other States.....	3	15	60.0				15			
Total.....	34	234	59.7			110	94		9	21
1909.										
Alabama.....	3	23	61.8				16			7
Georgia.....	3	12	65.5				1			11
Maine.....	3	8	60.0				8			
Massachusetts.....	11	103	58.0			103				
North Carolina.....	4	17	63.9						12	5
Rhode Island.....	2	19	58.0			19				
South Carolina.....	5	46	60.0				46			
Other States.....	3	25	59.4			7	18			
Total.....	34	253	59.7			129	89		12	23
1910.										
Alabama.....	3	30	62.2				19			11
Georgia.....	7	41	63.8				15			26
Maine.....	3	19	58.0			19				
Massachusetts.....	12	111	56.0			111				
New Hampshire.....	2	13	58.0				13			
North Carolina.....	12	90	62.6					62	17	11
Rhode Island.....	3	33	56.0			33				
South Carolina.....	11	74	60.0				74			
Other States.....	3	25	58.2				22	3		
Total.....	56	436	59.5			144	54	111	62	17
1911.										
Alabama.....	6	46	62.0				29		3	14
Georgia.....	13	109	63.6				44			65
Maine.....	5	32	58.0				32			
Massachusetts.....	17	179	56.0			179				
New Hampshire.....	4	79	58.0				79			

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

COTTON GOODS MANUFACTURING—Continued.

DRAWING TENDERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employ-ees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
1911—Concluded.										
North Carolina.....	13	92	62.4					62	25	5
Rhode Island.....	3	32	56.0		32					
South Carolina.....	20	158	60.0				158			
Other States.....	3	23	58.3			19	4			
Total.....	84	750	59.5		211	130	235	62	28	84
1912.										
Alabama.....	6	36	62.3				20		4	12
Georgia.....	13	91	60.0				91			
Maine.....	5	35	58.0			35				
Massachusetts.....	17	190	54.0	190						
New Hampshire.....	4	67	58.0			67				
North Carolina.....	13	92	60.0				92			
Rhode Island.....	3	39	56.0		39					
South Carolina.....	20	145	60.0				145			
Other States.....	3	28	57.3	5		23				
Total.....	84	723	57.9	195	39	125	348		4	12

DRAWING TENDERS: Female.

1907.										
Alabama.....	3	30	66.0							30
Georgia.....	3	22	63.8						16	6
Maine.....	2	64	60.0				64			
Massachusetts.....	7	71	58.0			71				
Other States.....	4	47	58.2			46				1
Total.....	19	234	60.2			117	64		16	37
1908.										
Alabama.....	3	28	61.9				19			9
Georgia.....	3	19	62.2				12			7
Maine.....	2	55	60.0				55			
Massachusetts.....	7	76	58.0			76				
Other States.....	4	54	58.0			54				
Total.....	19	232	59.3			130	86			16
1909.										
Alabama.....	3	28	61.7				20			8
Georgia.....	3	27	61.8				19			8
Maine.....	2	66	60.0				66			
Massachusetts.....	7	71	58.0			71				
Other States.....	4	57	58.0			57				
Total.....	19	249	59.4			128	105			16
1910.										
Alabama.....	3	25	61.7				18			7
Georgia.....	5	56	62.3				35			21
Maine.....	3	78	58.0			78				
Massachusetts.....	9	127	56.0			127				
New Hampshire.....	3	61	58.0			61				
Other States.....	4	12	57.0			9	3			
Total.....	27	359	58.2			136	139	56		28
1911.										
Alabama.....	6	39	61.4				30			9
Georgia.....	9	35	61.7				25			10
Maine.....	4	83	58.0			83				
Massachusetts.....	14	156	56.0			156				
New Hampshire.....	5	163	58.0			163				
Other States.....	4	26	56.8			16	9	1		
Total.....	42	502	57.8			172	255	56		19

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

COTTON GOODS MANUFACTURING—Continued.

DRAWING TENDERS: Female—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.
1912—Concluded.									
Alabama.....	6	40	62.0				27		13
Georgia.....	9	53	60.0				53		
Maine.....	4	45	58.0			45			
Massachusetts.....	14	190	54.0	190					
New Hampshire.....	5	177	58.0			177			
Other States.....	4	20	57.3		9	9	2		
Total.....	42	525	57.0	190	9	231	82		13

FINE SPEEDERS: Male.

1907.									
Alabama.....	3	42	66.0						42
Georgia.....	4	24	64.8					10	14
North Carolina.....	4	39	66.0						39
South Carolina.....	5	96	62.0				96		
Total.....	16	201	63.9				96	10	95
1908.									
Alabama.....	3	38	60.9				32		6
Georgia.....	4	30	63.0				15		15
North Carolina.....	4	32	63.8					24	8
South Carolina.....	5	124	60.0				124		
Total.....	16	224	61.1				171	24	29
1909.									
Alabama.....	3	53	61.0				44		9
Georgia.....	4	37	63.1				18		19
North Carolina.....	4	35	63.9					24	11
South Carolina.....	5	133	60.0				133		
Total.....	16	258	61.2				195	24	39
1910.									
Alabama.....	3	45	61.6				33		12
Georgia.....	6	88	61.9				60		28
North Carolina.....	12	113	63.1					41	52
South Carolina.....	11	180	60.0				180		20
Total.....	32	426	61.4				273	41	60
1911.									
Alabama.....	6	46	61.4				35		11
Georgia.....	12	118	62.8				62		56
North Carolina.....	13	125	62.9				63	41	21
South Carolina.....	20	314	60.0				314		
Other States.....	11	20	57.7		3	17			
Total.....	62	623	61.2		3	17	474	41	88
1912.									
Alabama.....	6	54	62.6				31		23
Georgia.....	12	112	60.0				112		
North Carolina.....	13	136	60.0				136		
South Carolina.....	20	302	60.0				302		
Other States.....	11	62	54.8	50		12			
Total.....	62	666	59.7	50		12	581		23

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

COTTON GOODS MANUFACTURING—Continued.

FINE SPEEDERS: Female.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
1907.										
Alabama.....	3	37	66.0							37
Georgia.....	4	30	63.8						22	8
Maine.....	3	83	60.0				83			
Massachusetts.....	11	365	58.0			365				
North Carolina.....	3	8	66.0							8
Rhode Island.....	2	64	58.0			64				
South Carolina.....	5	30	62.0					30		
Other States.....	4	104	59.3			34	70			
Total.....	35	721	59.3			463	153	30	22	53
1908.										
Alabama.....	3	53	62.9				27			26
Georgia.....	4	43	62.2				27			16
Maine.....	3	70	60.0				70			
Massachusetts.....	11	344	58.0			344				
North Carolina.....	3	6	63.5						5	1
Rhode Island.....	2	44	58.0			44				
South Carolina.....	5	42	60.0					42		
Other States.....	4	92	58.9			50	42			
Total.....	35	694	59.1			438	208		5	43
1909.										
Alabama.....	3	55	62.7				30			25
Georgia.....	4	33	62.4				20			13
Maine.....	3	93	60.0				93			
Massachusetts.....	11	351	58.0			351				
North Carolina.....	3	3	65.0						1	2
Rhode Island.....	2	46	58.0			46				
South Carolina.....	5	34	60.0				34			
Other States.....	4	99	58.9			56	43			
Total.....	35	714	59.1			453	220		1	40
1910.										
Alabama.....	3	61	62.5				36			25
Georgia.....	7	70	63.0				35			35
Maine.....	4	120	58.0			120				
Massachusetts.....	13	492	56.0		492					
New Hampshire.....	3	142	58.0			142				
North Carolina.....	11	35	62.5					21	12	2
Rhode Island.....	3	110	56.0		110					
South Carolina.....	10	71	60.0				71			
Other States.....	3	74	58.6			51	23			
Total.....	57	1,175	57.8		602	313	165	21	12	62
1911.										
Alabama.....	7	82	62.7				43		4	35
Connecticut.....	2	39	58.0			39				
Georgia.....	12	125	62.8				66			59
Maine.....	5	134	58.0			134				
Massachusetts.....	18	693	56.0		693					
New Hampshire.....	5	247	58.0			247				
North Carolina.....	10	49	62.2					36	12	1
Rhode Island.....	3	108	56.0		108					
South Carolina.....	18	126	60.0				126			
Other States.....	2	50	58.9			27	23			
Total.....	82	1,753	57.9		801	547	258	36	16	95

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

COTTON GOODS MANUFACTURING—Continued.

FINE SPEEDERS: Female—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
1912.										
Alabama.....	7	80	62.4				45		5	30
Connecticut.....	2	38	58.0			38				
Georgia.....	12	115	60.0				115			
Maine.....	5	133	58.0			133				
Massachusetts.....	18	755	54.0	755						
New Hampshire.....	5	332	58.0			332				
North Carolina.....	10	43	60.0				43			
Rhode Island.....	3	106	56.0		106					
South Carolina.....	18	125	60.0				125			
Other States.....	2	57	56.0	29		28				
Total.....	82	1,784	56.6	784	106	531	328		5	30

LOOM FIXERS: Male.

1907.											
Alabama.....	3	82	66.0							82	
Georgia.....	4	40	64.4						21	19	
Maine.....	3	69	60.0				69				
Massachusetts.....	11	194	58.0			194					
North Carolina.....	4	32	66.0							32	
Rhode Island.....	2	60	58.0			60					
South Carolina.....	5	95	62.0					95			
Other States.....	4	59	59.2			23	36				
Total.....	36	631	60.8			277	105	95	21	133	
1908.											
Alabama.....	3	73	61.6				53			20	
Georgia.....	4	50	63.5				21			29	
Maine.....	3	61	60.0				61				
Massachusetts.....	11	179	58.0			179					
North Carolina.....	4	22	64.2						13	9	
Rhode Island.....	2	64	58.0			64					
South Carolina.....	5	113	60.0					113			
Other States.....	4	57	58.8			35	22				
Total.....	36	619	59.7			278	270		13	58	
1909.											
Alabama.....	3	83	62.2				53			30	
Georgia.....	4	48	63.4				21			27	
Maine.....	3	79	60.0				79				
Massachusetts.....	11	194	58.0			194					
North Carolina.....	4	33	63.9						23	10	
Rhode Island.....	2	73	58.0			73					
South Carolina.....	5	114	60.0					114			
Other States.....	4	56	58.7			37	19				
Total.....	36	680	59.8			304	286		23	67	
1910.											
Alabama.....	3	79	62.7				44			35	
Georgia.....	7	124	63.1				59			65	
Maine.....	4	111	58.0								
Massachusetts.....	13	371	56.0			371					
New Hampshire.....	3	94	58.0				94				
North Carolina.....	12	114	62.8					56	46	12	
Rhode Island.....	3	157	56.0			157					
South Carolina.....	11	180	60.0					180			
Other States.....	3	37	58.5				27	10			
Total.....	59	1,267	58.7			528	232	293	56	46	112

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

COTTON GOODS MANUFACTURING—Continued.

LOOM FIXERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employ-ees.	Aver- age nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
1911.										
Alabama.....	7	107	62.0				70		4	33
Connecticut.....	2	27	58.0			27				
Georgia.....	13	215	63.1				103			112
Maine.....	5	124	58.0			124				
Massachusetts.....	18	544	56.0		544					
New Hampshire.....	5	495	58.0			495				
North Carolina.....	13	120	62.8					60	47	13
Rhode Island.....	3	133	56.0		185					
South Carolina.....	20	360	60.0				360			
Other States.....	2	23	58.9			13	10			
Total.....	88	2,200	58.6		729	659	543	60	51	158
1912.										
Alabama.....	7	133	62.3				80		4	49
Connecticut.....	2	25	58.0			25				
Georgia.....	13	201	60.0				201			
Maine.....	5	132	58.0			132				
Massachusetts.....	18	558	54.0	558						
New Hampshire.....	5	529	58.0			529				
North Carolina.....	13	130	60.0				130			
Rhode Island.....	3	191	56.0		191					
South Carolina.....	20	351	60.0				351			
Other States.....	2	23	56.6	8		15				
Total.....	88	2,273	57.7	566	191	701	762		4	49

SLASHERS: Male.

1907.										
Alabama.....	3	11	66.0							11
Georgia.....	4	12	64.3						7	5
Maine.....	3	18	60.0				18			
Massachusetts.....	11	61	58.0			61				
North Carolina.....	3	5	66.0							5
Rhode Island.....	2	9	58.0			9				
South Carolina.....	5	25	62.0					25		
Other States.....	4	18	59.2			7	11			
Total.....	35	159	60.3			77	29	25	7	21
1908.										
Alabama.....	3	15	60.8				13			2
Georgia.....	4	15	63.2				7			8
Maine.....	3	16	60.0				16			
Massachusetts.....	11	55	58.0			55				
North Carolina.....	3	4	65.3						1	3
Rhode Island.....	2	10	58.0			10				
South Carolina.....	5	26	60.0					26		
Other States.....	4	17	58.8			10	7			
Total.....	35	158	59.6			75	69		1	13
1909.										
Alabama.....	3	17	61.1				14			3
Georgia.....	4	12	62.5				7			5
Maine.....	3	17	60.0				17			
Massachusetts.....	11	63	58.0			63				
North Carolina.....	3	4	65.3						1	3
Rhode Island.....	2	9	58.0			9				
South Carolina.....	5	27	60.0					27		
Other States.....	4	18	58.9			10	8			
Total.....	35	167	59.4			82	73		1	11

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

COTTON GOODS MANUFACTURING—Continued.

SLASHERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employ-ees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.
1910.									
Alabama.....	3	15	61.2				12		3
Georgia.....	7	27	62.2				17		10
Maine.....	4	23	58.0			23			
Massachusetts.....	13	99	56.0		99				
New Hampshire.....	3	21	58.0			21			
North Carolina.....	10	22	62.8					14	4
Rhode Island.....	3	17	56.0		17				4
South Carolina.....	11	41	60.0				41		
Other States.....	3	11	58.4				2		
Total.....	57	276	58.4		116	53	72	14	4
1911.									
Alabama.....	7	26	61.0				21		4
Connecticut.....	2	6	58.0			6			
Georgia.....	13	38	62.7				21		17
Maine.....	5	26	58.0			26			
Massachusetts.....	17	132	56.0		132				
New Hampshire.....	5	107	58.0			107			
North Carolina.....	11	34	62.5					25	4
Rhode Island.....	3	17	56.0		17				
South Carolina.....	20	62	60.0				62		
Other States.....	2	7	58.6				2		
Total.....	85	455	58.5		149	144	106	25	6
1912.									
Alabama.....	7	18	61.8				12		5
Connecticut.....	2	7	58.0			7			
Georgia.....	13	45	60.0				45		
Maine.....	5	30	58.0			30			
Massachusetts.....	17	138	54.0	138					
New Hampshire.....	5	111	58.0			111			
North Carolina.....	11	34	60.0				34		
Rhode Island.....	3	17	56.0		17				
South Carolina.....	20	40	60.0				40		
Other States.....	2	7	56.9	2		5			
Total.....	85	447	57.4	140	17	153	131		1

SPINNERS, FRAME: Male.

1907.									
Alabama.....	3	11	66.0						11
Massachusetts.....	11	72	58.0			72			
South Carolina.....	3	26	62.0					26	
Other States.....	8	75	58.9			50	22		3
Total.....	25	184	59.4			122	22	26	14
1908.									
Alabama.....	3	13	61.4				10		3
Massachusetts.....	11	93	58.0			93			
South Carolina.....	3	21	60.0				21		
Other States.....	8	87	59.0			43	43		1
Total.....	25	214	58.8			136	74		3
1909.									
Alabama.....	3	20	62.7				11		9
Massachusetts.....	11	81	58.0			81			
South Carolina.....	3	21	60.0				21		
Other States.....	8	66	58.6			54	9		2
Total.....	25	188	58.9			135	41		11

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

COTTON GOODS MANUFACTURING—Continued.

SPINNERS, FRAME: Male—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.
1910.									
Alabama.....	3	7	60.0				7		
Massachusetts.....	13	154	56.0		154				
New Hampshire.....	3	42	58.0			42			
South Carolina.....	6	30	60.0				30		
Other States.....	11	28	58.9		6	11	7		3
Total.....	36	261	57.2		160	53	44		3
1911.									
Alabama.....	4	18	63.7				7		11
Georgia.....	3	9	64.7				2		7
Maine.....	3	27	58.0			27			
Massachusetts.....	16	402	56.0		402				
New Hampshire.....	4	188	58.0			188			
South Carolina.....	12	35	60.0				35		
Other States.....	4	21	58.8			13	8		
Total.....	46	700	57.2		402	228	52		18
1912.									
Alabama.....	4	15	65.2				2		13
Georgia.....	3	4	60.0				4		
Maine.....	3	26	58.0			26			
Massachusetts.....	16	353	54.0	353					
New Hampshire.....	4	228	58.0			228			
South Carolina.....	12	37	60.0				37		
Other States.....	4	16	58.1			15	1		
Total.....	46	679	58.2	353		269	44		13

SPINNERS, FRAME: Female.

1907.									
Alabama.....	3	361	66.0						361
Georgia.....	4	196	64.3						83
Maine.....	3	202	60.0				202		113
Massachusetts.....	11	774	58.0			774			
North Carolina.....	4	128	66.0						128
Rhode Island.....	2	110	58.0			110			
South Carolina.....	5	327	62.0					327	
Other States.....	4	219	58.9			116	103		
Total.....	36	2,317	61.0			1,000	305	327	113
1908.									
Alabama.....	3	323	61.9				222		101
Georgia.....	4	176	62.6				101		75
Maine.....	3	189	60.0				189		
Massachusetts.....	11	688	58.0			688			
North Carolina.....	4	102	64.2						61
Rhode Island.....	2	102	58.0			102			
South Carolina.....	5	333	60.1				316	17	
Other States.....	4	201	58.9			106	95		
Total.....	36	2,114	59.9			896	923	17	61

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

COTTON GOODS MANUFACTURING—Continued.

SPINNERS, FRAME: Female—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.
1909.									
Alabama.....	3	336	62.3				207		129
Georgia.....	4	194	62.8				104		90
Maine.....	3	215	60.0				215		
Massachusetts.....	11	845	58.0			845			
North Carolina.....	4	131	64.1						84
Rhode Island.....	2	123	58.0			123			
South Carolina.....	5	359	60.0				359		
Other States.....	4	205	58.6			139	66		
Total.....	36	2,408	59.8			1,107	951		84
1910.									
Alabama.....	3	340	61.5				256		84
Georgia.....	7	426	62.9				220		206
Maine.....	4	302	58.0			302			
Massachusetts.....	13	1,107	56.0		1,107				
New Hampshire.....	3	221	58.0			221			
North Carolina.....	12	393	63.1					140	186
Rhode Island.....	3	206	56.0		206				
South Carolina.....	11	582	60.0				582		
Other States.....	3	127	58.5			98	29		
Total.....	59	3,704	59.0		1,313	621	1,087	140	186
1911.									
Alabama.....	7	475	62.1				298		21
Connecticut.....	2	76	58.0			76			
Georgia.....	13	678	62.9				351		327
Maine.....	5	343	58.0			343			
Massachusetts.....	18	1,384	56.0		1,384				
New Hampshire.....	5	1,151	58.0			1,151			
North Carolina.....	13	437	63.0					181	188
Rhode Island.....	3	206	56.0		206				
South Carolina.....	20	1,134	60.0				1,134		
Other States.....	2	97	58.6			69	28		
Total.....	88	5,981	59.1		1,590	1,639	1,811	181	209
1912.									
Alabama.....	7	468	62.6				251		23
Connecticut.....	2	77	58.0			77			
Georgia.....	13	701	60.0				701		
Maine.....	5	351	58.0			351			
Massachusetts.....	18	1,552	54.0		1,552				
New Hampshire.....	5	1,184	58.0			1,184			
North Carolina.....	13	442	60.0				442		
Rhode Island.....	3	192	56.0		192				
South Carolina.....	20	1,172	60.0				1,172		
Other States.....	2	75	56.9		20		55		
Total.....	88	6,214	58.0		1,572	1,667	2,566		23

SPINNERS, MULE: Male.

1907.								
Maine.....	2	25	60.0				25	
Massachusetts.....	5	88	58.0			88		
Rhode Island.....	2	50	58.0			50		
Other States.....	2	36	60.0				36	
Total.....	11	199	58.6			138	61	

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

COTTON GOODS MANUFACTURING—Continued.

SPINNERS, MULE: Male—Concluded.

Year and State.	Number of establishments.	Number of employ-ees.	Average nomi-nal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.
1908.									
Maine.....	2	20	60.0				20		
Massachusetts.....	5	93	58.0			93			
Rhode Island.....	2	46	58.0			46			
Other States.....	2	34	58.9			19	15		
Total.....	11	193	58.4			158	35		
1909.									
Maine.....	2	23	60.0				23		
Massachusetts.....	5	60	58.0			60			
Rhode Island.....	2	41	58.0			41			
Other States.....	2	32	58.9			17	15		
Total.....	11	156	58.5			118	38		
1910.									
Maine.....	3	56	58.0			56			
Massachusetts.....	4	50	56.0		50				
New Hampshire.....	2	27	58.0			27			
Rhode Island.....	3	67	56.0		67				
Other States.....	2	22	58.8			13	9		
Total.....	14	222	57.0		117	96	9		
1911.									
Maine.....	4	57	58.0			57			
Massachusetts.....	6	115	56.0		115				
New Hampshire.....	3	31	58.0			31			
Rhode Island.....	3	64	56.0		64				
Other States.....	2	21	58.9			12	9		
Total.....	18	288	56.8		179	100	9		
1912.									
Maine.....	4	49	58.0			49			
Massachusetts.....	6	111	54.0	111					
New Hampshire.....	3	20	58.0			20			
Rhode Island.....	3	64	56.0		64				
Other States.....	2	22	56.7	7		15			
Total.....	18	266	55.7	118	64	84			

TRIMMERS OR INSPECTORS: Female.

1907.								
Alabama.....	2	25	66.0					25
Maine.....	3	58	60.0				58	
Massachusetts.....	11	88	58.0			88		
Rhode Island.....	2	8	58.0			8		
South Carolina.....	5	40	62.0				40	
Other States.....	7	32	62.3			6	12	14
Total.....	30	251	60.4			102	70	39
1908.								
Alabama.....	2	38	62.8				20	18
Maine.....	3	46	60.0				46	
Massachusetts.....	11	84	58.0			84		
Rhode Island.....	2	9	58.0			9		
South Carolina.....	5	43	60.0				43	
Other States.....	7	41	61.9			10	11	7
Total.....	30	261	60.0			103	120	31

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

COTTON GOODS MANUFACTURING—Continued.

TRIMMERS OR INSPECTORS: Female—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.
1909.									
Alabama.....	2	29	63.3				13		16
Maine.....	3	60	60.0				60		
Massachusetts.....	11	94	58.0			94			
Rhode Island.....	2	10	58.0			10			
South Carolina.....	5	65	60.0				65		
Other States.....	7	27	59.9			11	9		6
Total.....	30	285	59.6			115	147		6
1910.									
Alabama.....	2	25	62.9				13		12
Georgia.....	4	29	62.1				19		10
Maine.....	4	65	58.0			65			
Massachusetts.....	13	142	56.0		142				
New Hampshire.....	3	28	58.0			28			
North Carolina.....	6	16	62.8					4	12
Rhode Island.....	3	19	56.0		19				
South Carolina.....	8	69	60.0				69		
Other States.....	3	15	59.1				8		
Total.....	46	408	58.3		161	100	109	4	12
1911.									
Alabama.....	5	46	62.5				25		3
Connecticut.....	2	3	58.0			3			
Georgia.....	10	74	62.7				41		33
Maine.....	5	90	58.0			90			
Massachusetts.....	17	203	56.0		203				
New Hampshire.....	4	106	58.0			106			
North Carolina.....	9	25	62.6					9	16
Rhode Island.....	3	23	56.0		23				
South Carolina.....	18	130	60.0				130		
Other States.....	2	12	59.5			3	9		
Total.....	75	712	58.7		226	202	205	9	19
1912.									
Alabama.....	5	39	62.6				22		17
Connecticut.....	2	9	58.0			9			
Georgia.....	10	63	60.0				63		
Maine.....	5	88	58.0			88			
Massachusetts.....	17	198	54.0	198					
New Hampshire.....	4	94	58.0			94			
North Carolina.....	9	31	60.0				31		
Rhode Island.....	3	22	56.0		22				
South Carolina.....	18	150	60.0				150		
Other States.....	2	9	55.3	6		3			
Total.....	75	703	58.0	204	22	194	266		76

WEAVERS: Male.

1907.									
Alabama.....	3	200	66.0						200
Georgia.....	4	207	64.9					76	131
Maine.....	3	220	60.0				220		
Massachusetts.....	11	1,075	58.0			1,075			
North Carolina.....	4	142	66.0						142
Rhode Island.....	2	297	58.0			297			
South Carolina.....	5	416	61.5				95	321	
Other States.....	4	212	59.8			25	187		
Total.....	36	2,769	60.3			1,397	502	321	76

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

COTTON GOODS MANUFACTURING—Continued.

WEAVERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employ-ees.	Average nomi-nal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
1908.										
Alabama.....	3	315	61.0				261			54
Georgia.....	4	181	64.1				56			125
Maine.....	3	212	60.0				212			
Massachusetts.....	11	1,063	58.0			1,063				
North Carolina.....	4	124	64.0						81	43
Rhode Island.....	2	251	58.0			251				
South Carolina.....	5	490	60.5				375	115		
Other States.....	4	212	59.0			110	102			
Total.....	36	2,848	59.6			1,424	1,006	115	81	222
1909.										
Alabama.....	3	321	61.7				231			90
Georgia.....	4	264	64.1				85			179
Maine.....	3	242	60.0				242			
Massachusetts.....	11	1,083	58.0			1,083				
North Carolina.....	4	201	63.8						147	54
Rhode Island.....	2	287	58.0			287				
South Carolina.....	5	534	60.0				534			
Other States.....	4	191	58.7			127	64			
Total.....	36	3,123	59.8			1,497	1,156		147	323
1910.										
Alabama.....	3	305	62.1				197			108
Georgia.....	7	545	62.9				279			266
Maine.....	4	332	58.0				332			
Massachusetts.....	12	1,625	56.0		1,625					
New Hampshire.....	3	261	58.0			261				
North Carolina.....	12	627	62.7					299	272	56
Rhode Island.....	3	565	56.0		565					
South Carolina.....	11	920	60.0				920			
Other States.....	3	154	58.6			110	44			
Total.....	58	5,334	58.8		2,190	703	1,440	299	272	430
1911.										
Alabama.....	7	324	61.5				243		2	79
Connecticut.....	2	107	58.0			107				
Georgia.....	13	691	62.8				374			317
Maine.....	5	300	58.0			300				
Massachusetts.....	18	2,576	56.0		2,576					
New Hampshire.....	5	1,920	58.0			1,920				
North Carolina.....	13	767	62.7					434	242	91
Rhode Island.....	3	553	56.0		553					
South Carolina.....	20	1,533	60.0				1,533			
Other States.....	2	84	59.1			39	45			
Total.....	88	8,855	58.6		3,129	2,366	2,195	434	244	487
1912.										
Alabama.....	7	388	62.1				252		2	134
Connecticut.....	2	97	58.0			97				
Georgia.....	13	768	60.0				768			
Maine.....	5	384	58.0			384				
Massachusetts.....	18	2,903	54.0	2,903						
New Hampshire.....	5	1,825	58.0			1,825				
North Carolina.....	13	866	60.0				866			
Rhode Island.....	3	766	56.0		766					
South Carolina.....	20	1,704	60.0				1,704			
Other States.....	2	50	55.3	34		16				
Total.....	88	9,751	57.5	2,937	766	2,322	3,590		2	134

TABLE V.—CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1907 TO 1912—Concluded.
COTTON GOODS MANUFACTURING—Continued.
WEAVERS: Female.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—							
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.	
1907.											
Alabama.....	3	158	66.0						158		
Georgia.....	4	249	63.8					185	64		
Maine.....	3	462	60.0				462				
Massachusetts.....	11	1,562	58.0			1,502					
North Carolina.....	4	69	66.0						69		
Rhode Island.....	2	459	58.0			459					
South Carolina.....	5	172	62.0					172			
Other States.....	4	593	59.2			246	347				
Total.....	36	3,724	59.5			2,267	809	172	185	291	
1908.											
Alabama.....	3	170	61.9				117			53	
Georgia.....	4	299	62.0				199			100	
Maine.....	3	512	60.0				512				
Massachusetts.....	11	1,700	58.0			1,700					
North Carolina.....	4	49	64.2						29	20	
Rhode Island.....	2	397	58.0			397					
South Carolina.....	5	144	60.4					113	31		
Other States.....	4	632	58.8			376	256				
Total.....	36	3,903	59.0			2,473	1,197	31	29	173	
1909.											
Alabama.....	3	195	62.3				121			74	
Georgia.....	4	260	61.9				179			81	
Maine.....	3	588	60.0				588				
Massachusetts.....	11	1,615	58.0			1,615					
North Carolina.....	4	67	64.5						34	33	
Rhode Island.....	2	400	58.0			400					
South Carolina.....	5	185	60.0				185				
Other States.....	4	620	58.9			348	272				
Total.....	36	3,330	59.1			2,363	1,345		34	188	
1910.											
Alabama.....	3	207	62.1				135			72	
Georgia.....	7	443	62.2				277			166	
Maine.....	4	763	58.0				763				
Massachusetts.....	13	2,605	56.0			2,605					
New Hampshire.....	3	674	58.0				674				
North Carolina.....	12	361	62.8					189	130	42	
Rhode Island.....	3	605	56.0			605					
South Carolina.....	11	340	60.0				340				
Other States.....	3	336	58.6				239	97			
Total.....	59	6,334	57.8			3,210	1,676	849	189	130	280
1911.											
Alabama.....	7	298	61.6				207		27	64	
Connecticut.....	2	118	58.0				118				
Georgia.....	13	593	62.2				372			221	
Maine.....	5	800	58.0				800				
Massachusetts.....	18	3,619	56.0			3,619					
New Hampshire.....	5	3,361	58.0				3,361				
North Carolina.....	13	400	62.6					236	122	42	
Rhode Island.....	3	597	56.0			597					
South Carolina.....	20	746	60.0				736				
Other States.....	2	260	58.7				163	97			
Total.....	88	10,792	57.9			4,216	4,442	1,422	236	149	327
1912.											
Alabama.....	7	279	62.1				169		24	86	
Connecticut.....	2	133	58.0				133				
Georgia.....	13	583	60.0				583				
Maine.....	5	739	58.0				739				
Massachusetts.....	18	3,813	54.0			3,813					
New Hampshire.....	5	3,408	58.0				3,408				
North Carolina.....	13	414	60.0					414			
Rhode Island.....	3	626	56.0			626					
South Carolina.....	20	724	60.0					724			
Other States.....	2	261	56.8			77	184				
Total.....	88	10,980	56.9			3,890	626	4,464	1,890	24	86

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

COTTON GOODS MANUFACTURING—Continued.

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

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
CARD STRIPPERS, MALE.										
Alabama:										
3 establishments	{ 1907	13	66.0	.....	.....	.....	.....	.....	.....	13
	{ 1908	12	62.0	.....	.....	.....	6	.....	.....	6
	{ 1909	8	63.0	.....	.....	.....	4	.....	.....	4
	{ 1910	12	63.0	.....	.....	.....	6	.....	.....	6
3 establishments	{ 1910	12	63.0	.....	.....	.....	6	.....	.....	6
	{ 1911	13	62.8	.....	.....	.....	7	.....	.....	6
7 establishments	{ 1911	20	62.6	.....	.....	.....	11	.....	1	8
	{ 1912	21	62.4	.....	.....	.....	12	.....	1	8
Connecticut:										
2 establishments	{ 1911	21	58.0	.....	.....	21	.....	.....	.....	.....
	{ 1912	22	58.0	.....	.....	22	.....	.....	.....	.....
Georgia:										
4 establishments	{ 1907	14	64.5	.....	.....	.....	.....	.....	4	10
	{ 1908	17	63.0	.....	.....	.....	4	.....	.....	13
	{ 1909	15	64.4	.....	.....	.....	4	.....	.....	11
	{ 1910	14	60.9	.....	.....	.....	12	.....	.....	2
7 establishments	{ 1910	54	64.2	.....	.....	.....	16	.....	.....	38
	{ 1911	45	64.4	.....	.....	.....	12	.....	.....	33
13 establishments	{ 1911	64	63.8	.....	.....	.....	24	.....	.....	40
	{ 1912	69	60.0	.....	.....	.....	69	.....	.....	.....
Maine:										
3 establishments	{ 1907	33	60.0	.....	.....	.....	.....	33	.....	.....
	{ 1908	32	60.0	.....	.....	.....	.....	32	.....	.....
	{ 1909	36	60.0	.....	.....	.....	.....	36	.....	.....
	{ 1910	34	58.0	.....	.....	34	.....	.....	.....	.....
4 establishments	{ 1910	40	58.0	.....	.....	40	.....	.....	.....	.....
	{ 1911	39	58.0	.....	.....	39	.....	.....	.....	.....
5 establishments	{ 1911	59	58.0	.....	.....	59	.....	.....	.....	.....
	{ 1912	51	58.0	.....	.....	51	.....	.....	.....	.....
Massachusetts:										
11 establishments	{ 1907	115	58.0	.....	.....	115	.....	.....	.....	.....
	{ 1908	126	58.0	.....	.....	126	.....	.....	.....	.....
	{ 1909	112	58.0	.....	.....	112	.....	.....	.....	.....
	{ 1910	140	56.0	.....	.....	140	.....	.....	.....	.....
13 establishments	{ 1910	216	56.0	.....	.....	216	.....	.....	.....	.....
	{ 1911	217	56.0	.....	.....	217	.....	.....	.....	.....
18 establishments	{ 1911	278	56.0	.....	.....	278	.....	.....	.....	.....
	{ 1912	279	54.0	279	.....	.....	.....	.....	.....	.....
New Hampshire:										
3 establishments	{ 1910	66	58.0	.....	.....	66	.....	.....	.....	.....
	{ 1911	69	58.0	.....	.....	69	.....	.....	.....	.....
5 establishments	{ 1911	173	58.0	.....	.....	173	.....	.....	.....	.....
	{ 1912	175	58.0	.....	.....	175	.....	.....	.....	.....
North Carolina:										
4 establishments	{ 1907	13	66.0	.....	.....	.....	.....	.....	.....	13
	{ 1908	14	63.8	.....	.....	.....	.....	.....	10	4
	{ 1909	15	64.2	.....	.....	.....	.....	.....	9	6
	{ 1910	14	64.3	.....	.....	.....	.....	.....	8	6
12 establishments	{ 1910	40	63.4	.....	.....	.....	.....	12	19	9
	{ 1911	40	63.4	.....	.....	.....	.....	12	19	9
13 establishments	{ 1911	42	63.3	.....	.....	.....	.....	12	21	9
	{ 1912	43	60.0	.....	.....	43	.....	.....	.....	.....
Rhode Island:										
2 establishments	{ 1907	26	58.0	.....	.....	26	.....	.....	.....	.....
	{ 1908	26	58.0	.....	.....	26	.....	.....	.....	.....
	{ 1909	26	58.0	.....	.....	26	.....	.....	.....	.....
	{ 1910	26	56.0	.....	.....	26	.....	.....	.....	.....

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Aver- age nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
CARD STRIPPERS, MALE—concluded.										
Rhode Island—Concluded.										
3 establishments.....	{ 1910	34	56.0		34					
	{ 1911	36	56.0		36					
3 establishments.....	{ 1911	36	56.0		36					
	{ 1912	37	56.0		37					
South Carolina:										
5 establishments.....	{ 1907	24	62.0					24		
	{ 1908	20	60.0				20			
	{ 1909	30	60.0				30			
	{ 1910	28	60.0				28			
11 establishments.....	{ 1910	40	60.0				40			
	{ 1911	35	60.0				35			
20 establishments.....	{ 1911	85	60.0				85			
	{ 1912	95	60.0				95			
DRAWING TENDERS, MALE.										
Alabama:										
3 establishments.....	{ 1907	15	66.0							15
	{ 1908	20	62.1				13			7
	{ 1909	23	61.8				16			7
	{ 1910	30	62.2				19			11
3 establishments.....	{ 1910	30	62.2				19			11
	{ 1911	30	61.8				21			9
6 establishments.....	{ 1911	46	62.0				29		3	14
	{ 1912	36	62.3				20		4	12
Georgia:										
3 establishments.....	{ 1907	8	65.6						1	7
	{ 1908	16	64.1				5			11
	{ 1909	12	65.5				1			11
	{ 1910	9	61.3				7			2
7 establishments.....	{ 1910	41	63.8				15			26
	{ 1911	74	63.7				28			46
13 establishments.....	{ 1911	109	63.6				44			65
	{ 1912	91	60.0				91			
Maine:										
3 establishments.....	{ 1907	8	60.0				8			
	{ 1908	15	60.0				15			
	{ 1909	8	60.0				8			
	{ 1910	12	58.0							
3 establishments.....	{ 1910	19	58.0				19			
	{ 1911	15	58.0				15			
5 establishments.....	{ 1911	32	58.0				32			
	{ 1912	35	58.0				35			
Massachusetts:										
11 establishments.....	{ 1907	96	58.0				96			
	{ 1908	88	58.0				88			
	{ 1909	103	58.0				103			
	{ 1910	90	56.0		90					
12 establishments.....	{ 1910	111	56.0		111					
	{ 1911	115	56.0		115					
17 establishments.....	{ 1911	179	56.0		179					
	{ 1912	190	54.0	100						
New Hampshire:										
2 establishments.....	{ 1910	13	58.0				13			
	{ 1911	11	58.0				11			
4 establishments.....	{ 1911	79	58.0				79			
	{ 1912	67	58.0				67			

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Aver- age nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
DRAWING TENDERS, MALE—concluded.									
North Carolina:									
4 establishments.....	{ 1907	16	66.0	.....	.....	.....	.....	.....	16
	{ 1908	12	63.8	.....	.....	.....	.....	9	3
	{ 1909	17	63.9	.....	.....	.....	.....	12	5
	{ 1910	15	64.0	.....	.....	.....	.....	10	5
12 establishments.....	{ 1910	90	62.6	.....	.....	.....	62	17	11
	{ 1911	90	62.4	.....	.....	.....	62	23	5
13 establishments.....	{ 1911	92	62.4	.....	.....	.....	62	25	5
	{ 1912	92	60.0	.....	.....	.....	92	.....	.....
Rhode Island:									
2 establishments.....	{ 1907	16	58.0	.....	.....	16	.....	.....	.....
	{ 1908	22	58.0	.....	.....	22	.....	.....	.....
	{ 1909	19	58.0	.....	.....	19	.....	.....	.....
	{ 1910	23	56.0	.....	23	.....	.....	.....	.....
3 establishments.....	{ 1910	33	56.0	.....	33	.....	.....	.....	.....
	{ 1911	32	56.0	.....	32	.....	.....	.....	.....
3 establishments.....	{ 1911	32	56.0	.....	32	.....	.....	.....	.....
	{ 1912	39	56.0	.....	39	.....	.....	.....	.....
South Carolina:									
5 establishments.....	{ 1907	42	62.0	.....	.....	.....	42	.....	.....
	{ 1908	46	60.0	.....	.....	.....	46	.....	.....
	{ 1909	46	60.0	.....	.....	.....	46	.....	.....
	{ 1910	49	60.0	.....	.....	.....	49	.....	.....
11 establishments.....	{ 1910	74	60.0	.....	.....	.....	74	.....	.....
	{ 1911	67	60.0	.....	.....	.....	67	.....	.....
20 establishments.....	{ 1911	158	60.0	.....	.....	.....	158	.....	.....
	{ 1912	145	60.0	.....	.....	.....	145	.....	.....
DRAWING TENDERS, FE-MALE.									
Alabama:									
3 establishments.....	{ 1907	30	66.0	.....	.....	.....	.....	.....	30
	{ 1908	28	61.9	.....	.....	.....	19	.....	9
	{ 1909	28	61.7	.....	.....	.....	20	.....	8
	{ 1910	25	61.7	.....	.....	.....	18	.....	7
3 establishments.....	{ 1910	25	61.7	.....	.....	.....	18	.....	7
	{ 1911	26	61.4	.....	.....	.....	20	.....	6
6 establishments.....	{ 1911	39	61.4	.....	.....	.....	30	.....	9
	{ 1912	40	62.0	.....	.....	.....	27	.....	13
Georgia:									
3 establishments.....	{ 1907	22	63.8	.....	.....	.....	.....	16	6
	{ 1908	19	62.2	.....	.....	.....	12	.....	7
	{ 1909	27	61.8	.....	.....	.....	19	.....	8
	{ 1910	31	60.0	.....	.....	.....	31	.....	.....
5 establishments.....	{ 1910	56	62.3	.....	.....	.....	35	.....	21
	{ 1911	26	62.3	.....	.....	.....	16	.....	10
9 establishments.....	{ 1911	35	61.7	.....	.....	.....	25	.....	10
	{ 1912	53	60.0	.....	.....	.....	53	.....	.....
Maine:									
2 establishments.....	{ 1907	64	60.0	.....	.....	.....	64	.....	.....
	{ 1908	55	60.0	.....	.....	.....	55	.....	.....
	{ 1909	66	60.0	.....	.....	.....	66	.....	.....
	{ 1910	65	58.0	.....	.....	65	.....	.....	.....
3 establishments.....	{ 1910	78	58.0	.....	.....	78	.....	.....	.....
	{ 1911	83	58.0	.....	.....	83	.....	.....	.....
4 establishments.....	{ 1911	83	58.0	.....	.....	83	.....	.....	.....
	{ 1912	45	58.0	.....	45	.....	.....	.....	.....

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.
DRAWING TENDERS, FEMALE—concluded.									
Massachusetts:									
7 establishments.....	1907	71	58.0			71			
	1908	76	58.0			76			
	1909	71	58.0			71			
	1910	58	56.0		58				
9 establishments.....	1910	127	56.0		127				
	1911	130	56.0		130				
14 establishments.....	1911	156	56.0		156				
	1912	190	54.0	190					
New Hampshire:									
3 establishments.....	1910	61	58.0			61			
	1911	62	58.0			62			
5 establishments.....	1911	163	58.0			163			
	1912	177	58.0			177			
FINE SPEEDERS, MALE.									
Alabama:									
3 establishments.....	1907	42	66.0						42
	1908	38	60.9				32		6
	1909	53	61.0				44		9
	1910	45	61.6				33		12
3 establishments.....	1910	45	61.6				33		12
	1911	40	61.5				30		10
6 establishments.....	1911	46	61.4				35		11
	1912	54	62.6				31		23
Georgia:									
4 establishments.....	1907	24	64.8					10	14
	1908	30	63.0				15		15
	1909	37	63.1				18		19
	1910	34	60.0				34		
6 establishments.....	1910	88	61.9				60		28
	1911	59	62.0				39		20
12 establishments.....	1911	118	62.8				62		56
	1912	112	60.0				112		
North Carolina:									
4 establishments.....	1907	39	66.0						39
	1908	32	63.8					24	8
	1909	35	63.9					24	11
	1910	45	64.1					29	16
12 establishments.....	1910	113	63.1				41	52	20
	1911	123	63.0				63	35	25
13 establishments.....	1911	125	62.9				63	41	21
	1912	136	60.0				136		
South Carolina:									
5 establishments.....	1907	96	62.0					96	
	1908	124	60.0				124		
	1909	133	60.0				133		
	1910	125	60.0				125		
11 establishments.....	1910	180	60.0				180		
	1911	174	60.0				174		
20 establishments.....	1911	314	60.0				314		
	1912	302	60.0				302		
FINE SPEEDERS, FEMALE.									
Alabama:									
3 establishments.....	1907	37	66.0						37
	1908	53	62.9				27		26
	1909	55	62.7				30		25
	1910	61	62.5				36		25

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
FINE SPEEDERS, FEMALE—continued.										
Alabama—Concluded.										
3 establishments.....	{ 1910	61	62.5				36			25
	{ 1911	53	62.4				32			21
7 establishments.....	{ 1911	82	62.7				43		4	35
	{ 1912	80	62.4				45		5	30
Connecticut:										
2 establishments.....	{ 1911	39	58.0			39				
	{ 1912	38	58.0			38				
Georgia:										
4 establishments.....	{ 1907	30	63.8						22	8
	{ 1908	43	62.2				27			16
	{ 1909	33	62.4				20			13
	{ 1910	39	60.8				34			5
7 establishments.....	{ 1910	70	63.0				35			35
	{ 1911	91	63.2				43			48
12 establishments.....	{ 1911	125	62.8				66			59
	{ 1912	115	60.0				115			
Maine:										
3 establishments.....	{ 1907	83	60.0				83			
	{ 1908	70	60.0				70			
	{ 1909	93	60.0				93			
	{ 1910	95	58.0			95				
4 establishments.....	{ 1910	120	58.0			120				
	{ 1911	107	58.0			107				
5 establishments.....	{ 1911	134	58.0			134				
	{ 1912	133	58.0			133				
Massachusetts:										
11 establishments.....	{ 1907	365	58.0			365				
	{ 1908	344	58.0			344				
	{ 1909	351	58.0			351				
	{ 1910	372	56.0		372					
13 establishments.....	{ 1910	492	56.0		492					
	{ 1911	489	56.0		489					
18 establishments.....	{ 1911	693	56.0		693					
	{ 1912	755	54.0	755						
New Hampshire:										
3 establishments.....	{ 1910	142	58.0			142				
	{ 1911	149	58.0			149				
5 establishments.....	{ 1911	347	58.0			347				
	{ 1912	332	58.0			332				
North Carolina:										
3 establishments.....	{ 1907	8	66.0							8
	{ 1908	6	63.5						5	1
	{ 1909	3	65.0						1	2
	{ 1910	5	64.2						3	2
11 establishments.....	{ 1910	35	62.5					21	12	2
	{ 1911	47	62.2					36	10	1
10 establishments.....	{ 1911	49	62.2					36	12	1
	{ 1912	43	60.0					43		
Rhode Island:										
2 establishments.....	{ 1907	64	58.0			64				
	{ 1908	44	58.0			44				
	{ 1909	46	58.0			46				
	{ 1910	65	56.0		65					
3 establishments.....	{ 1910	110	56.0		110					
	{ 1911	108	56.0		108					
3 establishments.....	{ 1911	108	56.0		108					
	{ 1912	106	56.0		106					

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
FINE SPEEDERS, FEMALE—concluded.									
South Carolina:									
5 establishments.....	1907	30	62.0					30	
	1908	42	60.0				42		
	1909	34	60.0				34		
	1910	50	60.0				50		
10 establishments.....	1910	71	60.0				71		
	1911	67	60.0				67		
18 establishments.....	1911	126	60.0				126		
	1912	125	60.0				125		
LOOM FIXERS, MALE.									
Alabama:									
3 establishments.....	1907	82	66.0						82
	1908	73	61.6				53		20
	1909	83	66.2				53		30
	1910	79	62.7				44		65
3 establishments.....	1910	79	62.7				44		65
	1911	74	62.2				47		27
7 establishments.....	1911	107	62.0				70	4	33
	1912	133	62.3				80	4	49
Connecticut:									
2 establishments.....	1911	27	58.0			27			
	1912	25	58.0			25			
Georgia:									
4 establishments.....	1907	40	64.4					21	19
	1908	50	63.5				21		29
	1909	48	63.4				21		27
	1910	41	60.4				38		3
7 establishments.....	1910	124	63.1				59		65
	1911	135	63.2				63		72
13 establishments.....	1911	215	63.1				103		112
	1912	201	60.0				201		
Maine:									
3 establishments.....	1907	69	60.0				69		
	1908	61	60.0				61		
	1909	79	60.0				79		
	1910	85	58.0			85			
4 establishments.....	1910	111	58.0			111			
	1911	103	58.0			103			
5 establishments.....	1911	124	58.0			124			
	1912	132	58.0			132			
Massachusetts:									
11 establishments.....	1907	194	58.0			194			
	1908	179	58.0			179			
	1909	194	58.0			194			
	1910	247	56.0		247				
13 establishments.....	1910	371	56.0		371				
	1911	389	56.0		389				
18 establishments.....	1911	544	56.0		544				
	1912	558	54.0	558					
New Hampshire:									
3 establishments.....	1910	94	58.0			94			
	1911	97	58.0			97			
5 establishments.....	1911	495	58.0			495			
	1912	529	58.0			529			
North Carolina:									
4 establishments.....	1907	32	66.0						32
	1908	22	64.2						13
	1909	33	63.9						23
	1910	27	64.1						17

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Aver- age nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
LOOM FIXERS, MALE—con- cluded.										
North Carolina—Concld.										
12 establishments.....	1910	114	62.8					56	46	12
	1911	119	62.8					60	46	13
13 establishments.....	1911	120	62.8					60	47	13
	1912	130	60.0				130			
Rhode Island:										
2 establishments.....	1907	60	58.0			60				
	1908	64	58.0			64				
	1909	73	58.0			73				
	1910	76	56.0		76					
3 establishments.....	1910	157	56.0		157					
	1911	185	56.0		185					
3 establishments.....	1911	185	56.0		185					
	1912	191	56.6		191					
South Carolina:										
5 establishments.....	1907	95	62.0					95		
	1908	113	60.0				113			
	1909	114	60.0				114			
	1910	115	60.0				115			
11 establishments.....	1910	180	60.0				180			
	1911	176	60.0				176			
20 establishments.....	1911	360	60.0				360			
	1912	351	60.0				351			
SLASHERS, MALE.										
Alabama:										
3 establishments.....	1907	11	66.0							11
	1908	15	60.8					13		2
	1909	17	61.1					14		3
	1910	15	61.2					12		3
3 establishments.....	1910	15	61.2				12			3
	1911	18	60.7				16			2
7 establishments.....	1911	26	61.0				21		1	4
	1912	18	61.8				12		1	5
Connecticut:										
2 establishments.....	1911	6	58.0			6				
	1912	7	58.0			7				
Georgia:										
4 establishments.....	1907	12	64.3						7	5
	1908	15	63.2				7			8
	1909	12	62.5				7			5
	1910	12	60.5				11			1
7 establishments.....	1910	27	62.2				17			10
	1911	25	62.4				15			10
13 establishments.....	1911	38	62.7				21			17
	1912	45	60.0				45			
Maine:										
3 establishments.....	1907	18	60.0				18			
	1908	16	60.0				16			
	1909	17	60.0				17			
	1910	18	58.0				18			
4 establishments.....	1910	23	58.0				23			
	1911	22	58.0				22			
5 establishments.....	1911	26	58.0				26			
	1912	30	58.0				30			

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
SLASHERS, MALE—concluded.										
Massachusetts:										
11 establishments.....	1907	61	58.0			61				
	1908	55	58.0			55				
	1909	63	58.0			63				
	1910	63	56.0		63					
13 establishments.....	1910	99	56.0		99					
	1911	105	56.0		105					
17 establishments.....	1911	132	56.0		132					
	1912	138	54.0	138						
New Hampshire:										
3 establishments.....	1910	21	58.0			21				
	1911	25	58.0			25				
5 establishments.....	1911	107	58.0			107				
	1912	111	58.0			111				
North Carolina:										
3 establishments.....	1907	5	66.0							5
	1908	4	65.3						1	3
	1909	4	65.3						1	3
	1910	4	65.3						1	3
10 establishments.....	1910	22	62.8					14	4	4
	1911	33	62.5					25	4	4
11 establishments.....	1911	34	62.5					25	5	4
	1912	34	60.0				34			
Rhode Island:										
2 establishments.....	1907	9	58.0			9				
	1908	10	58.0			10				
	1909	9	58.0			9				
	1910	9	56.0		9					
3 establishments.....	1910	17	56.0		17					
	1911	17	56.0		17					
3 establishments.....	1911	17	56.0		17					
	1912	17	56.0		17					
South Carolina:										
5 establishments.....	1907	25	62.0					25		
	1908	26	60.0				26			
	1909	27	60.0				27			
	1910	27	60.0				27			
11 establishments.....	1910	41	60.0				41			
	1911	48	60.0				48			
20 establishments.....	1911	62	60.0				62			
	1912	40	60.0				40			
SPINNERS, FRAME, MALE.										
Alabama:										
3 establishments.....	1907	11	66.0							11
	1908	13	61.4				10			3
	1909	20	62.7				11			9
	1910	7	60.0				7			
3 establishments.....	1910	7	60.0				7			
	1911	8	61.5				6			2
4 establishments.....	1911	18	63.7				7			11
	1912	15	65.2				2			13
Georgia:										
3 establishments.....	1911	9	64.7				2			7
	1912	4	60.0				4			
Maine:										
3 establishments.....	1911	27	58.0			27				
	1912	26	58.0			26				

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Aver- age nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.
SPINNERS, FRAME, MALE—concluded.									
Massachusetts:									
11 establishments.....	1907	72	58.0			79			
	1908	93	58.0			93			
	1909	81	58.0			81			
	1910	107	56.0		107				
13 establishments.....	1910	154	56.0		154				
	1911	291	56.0		291				
16 establishments.....	1911	402	56.0		402				
	1912	353	54.0	353					
New Hampshire:									
3 establishments.....	1910	42	58.0			42			
	1911	41	58.0			41			
4 establishments.....	1911	188	58.0			188			
	1912	228	58.0			228			
South Carolina:									
3 establishments.....	1907	26	62.0					26	
	1908	21	60.0				21		
	1909	21	60.0				21		
	1910	24	60.0				24		
6 establishments.....	1910	30	60.0				30		
	1911	25	60.0				25		
12 establishments.....	1911	35	60.0				35		
	1912	37	60.0				37		
SPINNERS, FRAME, FEMALE.									
Alabama:									
3 establishments.....	1907	361	66.0						361
	1908	323	61.9				222		101
	1909	336	62.3				207		129
	1910	340	61.5				256		84
3 establishments.....	1910	340	61.5				256		84
	1911	323	61.9				219		104
7 establishments.....	1911	475	62.1				298		21
	1912	468	62.6				251		23
Connecticut:									
2 establishments.....	1911	76	58.0			76			
	1912	77	58.0			77			
Georgia:									
4 establishments.....	1907	196	64.3						113
	1908	176	62.6				101		75
	1909	194	62.8				104		90
	1910	186	60.7				163		23
7 establishments.....	1910	426	62.9				220		206
	1911	433	63.0				216		217
13 establishments.....	1911	678	62.9				351		327
	1912	701	60.0				701		
Maine:									
3 establishments.....	1907	202	60.0				202		
	1908	189	60.0				189		
	1909	215	60.0				215		
	1910	255	58.0			255			
4 establishments.....	1910	302	58.0			302			
	1911	276	58.0			276			
5 establishments.....	1911	343	58.0			343			
	1912	351	58.0			351			

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
SPINNERS, FRAME, FEMALE—concluded.										
Massachusetts:										
11 establishments	1907	774	58.0			774				
	1908	688	58.0			688				
	1909	845	58.0			845				
	1910	881	56.0			881				
13 establishments	1910	1,107	56.0		1,107					
	1911	1,079	56.0		1,079					
18 establishments	1911	1,384	56.0		1,384					
	1912	1,552	54.0	1,552						
New Hampshire:										
3 establishments	1910	221	58.0			221				
	1911	254	58.0			254				
5 establishments	1911	1,151	58.0			1,151				
	1912	1,184	58.0			1,184				
North Carolina:										
4 establishments	1907	128	66.0							128
	1908	102	64.2							41
	1909	131	64.1							47
	1910	147	64.0							49
12 establishments	1910	393	63.1					140	186	67
	1911	430	63.0					181	181	68
13 establishments	1911	437	63.0					181	188	68
	1912	442	60.0			442				
Rhode Island:										
2 establishments	1907	110	58.0			110				
	1908	102	58.0			102				
	1909	123	58.0			123				
	1910	139	56.0		139					
3 establishments	1910	206	56.0		206					
	1911	206	56.0		206					
3 establishments	1911	206	56.0		206					
	1912	192	56.0		192					
South Carolina:										
5 establishments	1907	327	62.0					327		
	1908	333	60.1				316	17		
	1909	359	60.0				359			
	1910	336	60.0				336			
11 establishments	1910	582	60.0				582			
	1911	590	60.0				590			
20 establishments	1911	1,134	60.0				1,134			
	1912	1,172	60.0				1,172			
SPINNERS, MULE, MALE.										
Maine:										
2 establishments	1907	25	60.0				25			
	1908	20	60.0				20			
	1909	23	60.0				23			
	1910	20	58.0			20				
3 establishments	1910	56	58.0			56				
	1911	53	58.0			53				
4 establishments	1911	57	58.0			57				
	1912	49	58.0			49				
Massachusetts:										
5 establishments	1907	88	58.0			88				
	1908	93	58.0			93				
	1909	60	58.0			60				
	1910	50	56.0		50					

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.
SPINNERS, MULE, MALE—concluded.									
Massachusetts—Concluded.	1910	50	56.0		50				
	1911	46	56.0		46				
6 establishments.....	1911	115	56.0		115				
	1912	111	54.0	111					
New Hampshire:	1910	27	58.0			27			
	1911	23	58.0			23			
3 establishments.....	1911	31	58.0			31			
	1912	20	58.0			20			
Rhode Island:	1907	50	58.0			50			
	1908	46	58.0			46			
	1909	41	58.0			41			
	1910	39	56.0		39				
3 establishments.....	1910	67	56.0		67				
	1911	64	56.0		64				
3 establishments.....	1911	64	56.0		64				
	1912	64	56.0		64				
TRIMMERS OR INSPECTORS, FEMALE.									
Alabama:									
2 establishments.....	1907	25	66.0						25
	1908	33	62.8				20		18
	1909	29	63.3				13		16
	1910	25	62.9				13		12
2 establishments.....	1910	25	62.9				13		12
	1911	38	62.8				20		18
5 establishments.....	1911	46	62.5				25		18
	1912	39	62.6				22	3	17
Connecticut:									
2 establishments.....	1911	3	58.0			3			
	1912	9	58.0			9			
Georgia:									
4 establishments.....	1910	29	62.1				19		10
	1911	42	62.7				23		19
10 establishments.....	1911	74	62.7				41		33
	1912	63	60.0				63		
Maine:									
3 establishments.....	1907	58	60.0				58		
	1908	46	60.0				46		
	1909	60	60.0				60		
	1910	60	58.0			60			
4 establishments.....	1910	65	58.0			65			
	1911	71	58.0			71			
5 establishments.....	1911	90	58.0			90			
	1912	88	58.0			88			
Massachusetts:									
11 establishments.....	1907	88	58.0			88			
	1908	84	58.0			84			
	1909	94	58.0			94			
	1910	118	56.0		118				
13 establishments.....	1910	142	56.0		142				
	1911	144	56.0		144				
17 establishments.....	1911	203	56.0		203				
	1912	198	54.0	198					

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.
TRIMMERS OR INSPECTORS, FEMALE—concluded.									
New Hampshire:									
3 establishments	{ 1910 1911	28 42	58.0 58.0			28 42			
4 establishments	{ 1911 1912	106 94	58.0 58.0			106 94			
North Carolina:									
6 establishments	{ 1910 1911	16 23	62.8 62.6				4 9	12 14	
9 establishments	{ 1911 1912	25 31	62.6 60.0				9	16	
Rhode Island:									
2 establishments	{ 1907 1908 1909 1910	8 9 10 9	58.0 58.0 58.0 56.0			8 9 10			
3 establishments	{ 1910 1911	19 23	56.0 56.0		19 23				
3 establishments	{ 1911 1912	23 22	56.0 56.0		23 22				
South Carolina:									
5 establishments	{ 1907 1908 1909 1910	40 43 65 52	62.0 60.0 60.0 60.0				40		
8 establishments	{ 1910 1911	69 76	60.0 60.0			69 76			
18 establishments	{ 1911 1912	130 150	60.0 60.0			130 150			
WEAVERS, MALE.									
Alabama:									
3 establishments	{ 1907 1908 1909 1910	200 315 321 305	66.0 61.0 61.7 62.1				261 231 197		200 54 90 108
3 establishments	{ 1910 1911	305 217	62.1 61.8			197 153			108 64
7 establishments	{ 1911 1912	324 388	61.5 62.1			243 252		2	79 134
Connecticut:									
2 establishments	{ 1911 1912	107 97	58.0 58.0			107 97			
Georgia:									
4 establishments	{ 1907 1908 1909 1910	207 181 264 216	64.9 64.1 64.1 60.5				56 85 199	76	131 125 179 17
7 establishments	{ 1910 1911	545 446	62.9 63.0			279 223			266 223
13 establishments	{ 1911 1912	691 768	62.8 60.0			374 768			317
Maine:									
3 establishments	{ 1907 1908 1909 1910	220 212 242 203	60.0 60.0 60.0 58.0				220 212 242		
4 establishments	{ 1910 1911	332 275	58.0 58.0			332 275			
5 establishments	{ 1911 1912	300 384	58.0 58.0			300 384			

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

COTTON GOODS MANUFACTURING—Continued.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—						
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.	66.
WEAVERS, MALE—concluded.										
Massachusetts:										
11 establishments	1907	1,075	58.0	.....	.....	1,075	.....	.....	.....	.....
	1908	1,063	58.0	.....	.....	1,063	.....	.....	.....	.....
	1909	1,083	58.0	.....	.....	1,083	.....	.....	.....	.....
	1910	1,230	56.0	.....	1,230	.....	.....	.....	.....	.....
12 establishments	1910	1,625	56.0	.....	1,625	.....	.....	.....	.....	.....
	1911	1,516	56.0	.....	1,516	.....	.....	.....	.....	.....
18 establishments	1911	2,576	56.0	.....	2,576	.....	.....	.....	.....	.....
	1912	2,903	54.0	2,903	.....	.....	.....	.....	.....	.....
New Hampshire:										
3 establishments	1910	261	58.0	.....	.....	261	.....	.....	.....	.....
	1911	274	58.0	.....	.....	274	.....	.....	.....	.....
5 establishments	1911	1,920	58.0	.....	.....	1,920	.....	.....	.....	.....
	1912	1,825	58.0	.....	.....	1,825	.....	.....	.....	.....
North Carolina:										
4 establishments	1907	142	66.0	.....	.....	.....	.....	.....	.....	142
	1908	124	64.0	.....	.....	.....	.....	.....	81	43
	1909	201	63.8	.....	.....	.....	.....	.....	147	54
	1910	161	63.8	.....	.....	.....	.....	.....	119	42
12 establishments	1910	627	62.7	.....	.....	.....	299	272	.....	56
	1911	761	62.7	.....	.....	.....	434	236	.....	91
13 establishments	1911	767	62.7	.....	.....	.....	434	242	.....	91
	1912	866	60.0	.....	.....	866	.....	.....	.....	.....
Rhode Island:										
2 establishments	1907	297	58.0	.....	.....	297	.....	.....	.....	.....
	1908	251	58.0	.....	.....	251	.....	.....	.....	.....
	1909	287	58.0	.....	.....	287	.....	.....	.....	.....
	1910	259	56.0	.....	259	.....	.....	.....	.....	.....
3 establishments	1910	565	56.0	.....	565	.....	.....	.....	.....	.....
	1911	553	56.0	.....	553	.....	.....	.....	.....	.....
3 establishments	1911	553	56.0	.....	553	.....	.....	.....	.....	.....
	1912	766	56.0	.....	766	.....	.....	.....	.....	.....
South Carolina:										
5 establishments	1907	416	61.5	.....	.....	.....	95	321	.....	.....
	1908	490	60.3	.....	.....	.....	375	115	.....	.....
	1909	534	60.0	.....	.....	.....	534	.....	.....	.....
	1910	485	60.0	.....	.....	.....	485	.....	.....	.....
11 establishments	1910	920	60.0	.....	.....	.....	920	.....	.....	.....
	1911	804	60.0	.....	.....	.....	804	.....	.....	.....
20 establishments	1911	1,533	60.0	.....	.....	.....	1,533	.....	.....	.....
	1912	1,704	60.0	.....	.....	.....	1,704	.....	.....	.....
WEAVERS, FEMALE.										
Alabama:										
3 establishments	1907	158	66.0	.....	.....	.....	.....	.....	.....	158
	1908	170	61.9	.....	.....	.....	117	.....	.....	53
	1909	195	62.3	.....	.....	.....	121	.....	.....	74
	1910	207	62.1	.....	.....	.....	135	.....	.....	72
3 establishments	1910	207	62.1	.....	.....	.....	135	.....	.....	72
	1911	193	61.5	.....	.....	.....	144	.....	.....	49
7 establishments	1911	298	61.6	.....	.....	.....	207	.....	27	64
	1912	279	62.1	.....	.....	.....	169	.....	24	86
Connecticut:										
2 establishments	1911	118	58.0	.....	.....	118	.....	.....	.....	.....
	1912	133	58.0	.....	.....	133	.....	.....	.....	.....
Georgia:										
4 establishments	1907	249	63.8	.....	.....	.....	.....	.....	185	64
	1908	209	62.0	.....	.....	.....	169	.....	.....	100
	1909	260	61.9	.....	.....	.....	179	.....	.....	81
	1910	235	60.4	.....	.....	.....	218	.....	.....	17

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

COTTON GOODS MANUFACTURING—Concluded.

State, and number of establishments.	Year.	Number of employ-ees.	Aver- age nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—					
				54.	Over 54 and under 57.	57 and under 60.	60.	Over 60 and under 63.	63 and under 66.
WEAVERS, FEMALE—con- cluded.									
Georgia—Concluded.									
7 establishments.....	{ 1910	443	62.2	.....	.....	.....	277	.....	166
	{ 1911	459	62.3	.....	.....	.....	282	.....	177
13 establishments.....	{ 1911	593	62.2	.....	.....	.....	372	.....	221
	{ 1912	583	60.0	.....	.....	.....	583	.....	.....
Maine:									
3 establishments.....	{ 1907	462	60.0	.....	.....	.....	462	.....	.....
	{ 1908	512	60.0	.....	.....	.....	512	.....	.....
	{ 1909	588	60.0	.....	.....	.....	588	.....	.....
	{ 1910	539	58.0	.....	.....	539	.....	.....	.....
4 establishments.....	{ 1910	763	58.0	.....	.....	763	.....	.....	.....
	{ 1911	694	58.0	.....	.....	694	.....	.....	.....
5 establishments.....	{ 1911	800	58.0	.....	.....	800	.....	.....	.....
	{ 1912	739	58.0	.....	.....	739	.....	.....	.....
Massachusetts:									
11 establishments.....	{ 1907	1,562	58.0	.....	.....	1,562	.....	.....	.....
	{ 1908	1,700	58.0	.....	.....	1,700	.....	.....	.....
	{ 1909	1,615	58.0	.....	.....	1,615	.....	.....	.....
	{ 1910	1,728	56.0	.....	1,728	.....	.....	.....	.....
13 establishments.....	{ 1910	2,605	56.0	.....	2,605	.....	.....	.....	.....
	{ 1911	2,601	56.0	.....	2,601	.....	.....	.....	.....
18 establishments.....	{ 1911	3,619	56.0	.....	3,619	.....	.....	.....	.....
	{ 1912	3,813	54.0	3,813	.....	.....	.....	.....	.....
New Hampshire:									
3 establishments.....	{ 1910	674	58.0	.....	.....	674	.....	.....	.....
	{ 1911	677	58.0	.....	.....	677	.....	.....	.....
5 establishments.....	{ 1911	3,361	58.0	.....	.....	3,361	.....	.....	.....
	{ 1912	3,408	58.0	.....	.....	3,408	.....	.....	.....
North Carolina:									
4 establishments.....	{ 1907	69	66.0	.....	.....	.....	.....	.....	69
	{ 1908	49	64.2	.....	.....	.....	.....	.....	29
	{ 1909	67	64.5	.....	.....	.....	.....	.....	34
	{ 1910	74	64.5	.....	.....	.....	.....	.....	37
12 establishments.....	{ 1910	361	62.8	.....	.....	.....	189	130	42
	{ 1911	398	62.6	.....	.....	.....	236	120	42
13 establishments.....	{ 1911	400	62.6	.....	.....	.....	236	122	42
	{ 1912	414	60.0	.....	.....	414	.....	.....	.....
Rhode Island:									
2 establishments.....	{ 1907	459	58.0	.....	.....	459	.....	.....	.....
	{ 1908	397	58.0	.....	.....	397	.....	.....	.....
	{ 1909	400	58.0	.....	.....	400	.....	.....	.....
	{ 1910	337	56.0	.....	337	.....	.....	.....	.....
3 establishments.....	{ 1910	605	56.0	.....	605	.....	.....	.....	.....
	{ 1911	597	56.0	.....	597	.....	.....	.....	.....
3 establishments.....	{ 1911	597	56.0	.....	597	.....	.....	.....	.....
	{ 1912	626	56.0	.....	626	.....	.....	.....	.....
South Carolina:									
5 establishments.....	{ 1907	172	62.0	.....	.....	.....	172	.....	.....
	{ 1908	144	60.4	.....	.....	.....	113	31	.....
	{ 1909	185	60.0	.....	.....	.....	185	.....	.....
	{ 1910	175	60.0	.....	.....	.....	175	.....	.....
11 establishments.....	{ 1910	340	60.0	.....	.....	.....	340	.....	.....
	{ 1911	307	60.0	.....	.....	.....	307	.....	.....
20 establishments.....	{ 1911	746	60.0	.....	.....	.....	746	.....	.....
	{ 1912	724	60.0	.....	.....	.....	724	.....	.....

TABLE VII.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1911 AND 1912.

COTTON GOODS FINISHING.

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

NUMBER.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour.														
					8 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 cts. and over.			
					Calendriers, male: 20 establishments..	{1911 1912}	412 409	57.9 57.8	\$0.1487 .1513	17 28	79 58	213 180	100 128	2 12	1 3				
Engravers, male: 12 establishments..	{1911 1912}	179 166	55.8 55.4	.4790 .4834												9 6	114 94	54 64	2 2
Folders, male: 19 establishments..	{1911 1912}	268 277	57.4 57.2	.2300 .2464		2	28 28	13 7	46 27	94 65	58 108	27 36							
Knotters, female: 19 establishments..	{1911 1912}	281 296	56.9 56.1	.1158 .1212	72 67	131 109	23 57	18 16	32 35	4 6	1 4								
Laborers, bleach house, male: 19 establishments..	{1911 1912}	688 748	57.5 57.2	.1327 .1368	40 36	107 57	283 323	206 244	32 64	11 10	8 14	1							
Laborers, color mixing, male: 12 establishments..	{1911 1912}	263 270	57.7 57.4	.1464 .1473		1 3	79 72	140 152	33 32	7 9	3 2								
Laborers, dye house, male: 30 establishments..	{1911 1912}	1,229 1,268	57.7 57.2	.1443 .1529	5 40	56 157	369 550	577 486	202 486	13 25	7 10								
Printers, male: 12 establishments..	{1911 1912}	156 164	56.9 56.7	.4890 .4867									15 18	5 9	13 13	123 124			

PER CENT.

Calendriers, male: 20 establishments..	{1911 1912}	412 409	57.9 57.8	\$0.1487 .1513		4.1 6.8	19.2 14.2	51.7 44.0	24.3 31.3	0.5 2.9	0.2 .7								
Engravers, male: 12 establishments..	{1911 1912}	179 166	55.8 55.4	.4790 .4834										5.0 3.6	63.7 56.6	30.2 38.6	1.1 1.2		
Folders, male: 19 establishments..	{1911 1912}	268 277	57.4 57.2	.2300 .2464		.7 10.1	10.4 2.5	4.9 9.7	17.2 23.5	35.1 39.0	21.6 13.0	10.1 1.4							
Knotters, female: 19 establishments..	{1911 1912}	281 296	56.9 56.1	.1158 .1212	25.6 22.6	46.6 36.8	8.2 19.3	6.4 5.4	11.4 11.8	1.4 2.0	4.4 1.4								
Laborers, bleach house, male: 19 establishments..	{1911 1912}	688 748	57.5 57.2	.1327 .1368	5.8 4.8	15.6 7.6	41.1 43.2	29.9 32.6	4.7 8.6	1.6 1.3	1.2 1.9	.1							
Laborers, color mixing, male: 12 establishments..	{1911 1912}	263 270	57.7 57.4	.1464 .1473			4.30 1.1	30.0 26.7	53.2 56.3	12.5 11.9	2.7 3.3	1.1 .7							
Laborers, dye house, male: 30 establishments..	{1911 1912}	1,229 1,268	57.7 57.2	.1443 .1529	.4 3.2	4.6 12.4	30.0 43.4	46.9 38.3	16.4 3.8	1.1 2.0	.6 .8								
Printers, male: 12 establishments..	{1911 1912}	156 164	56.9 56.7	.4890 .4867									9.6 11.0	3.2 5.5	8.3 7.9	78.8 75.6			

TABLE VIII.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1911 AND 1912.

COTTON GOODS FINISHING—Continued.

CALENDREERS: Male.

Year and State.	Number of establishments.	Number of employes.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.												
					8 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 cts. and over.	
1911.																	
Connecticut.....	2	127	58.0	\$0.1473			30	66	31								
Massachusetts.....	5	66	57.7	.1334		17	39	5									
New Jersey.....	2	42	58.6	.1521			3	33	6								
Rhode Island.....	7	111	56.7	.1561			4	56	48	2	1						
Other States.....	4	66	59.4	.1523			3	53	10								
Total.....	20	412	57.9	.1487		17	79	213	100	2	1						
1912.																	
Connecticut.....	2	117	58.0	.1419		28	18	38	31	1	1						
Massachusetts.....	5	62	57.2	.1424			36	18	1	7							
New Jersey.....	2	44	58.6	.1628				13	30	1							
Rhode Island.....	7	122	56.9	.1573			4	59	55	2	2						
Other States.....	4	64	58.9	.1577				52	11	1							
Total.....	20	409	57.8	.1513		28	58	180	128	12	3						

ENGRAVERS: Male.

1911.																	
Connecticut.....	2	15	51.5	\$0.5266									6	7	2		
Massachusetts.....	4	111	57.4	.4634									8	88	15		
Rhode Island.....	4	27	55.0	.4720									1	15	11		
Other States.....	2	26	52.7	.5256										5	21		
Total.....	12	179	55.8	.4790									9	114	54	2	
1912.																	
Connecticut.....	2	14	51.4	.5302										5	7	2	
Massachusetts.....	4	106	56.6	.4702										5	73	28	
Rhode Island.....	4	22	55.0	.4731										1	11	10	
Other States.....	2	24	52.8	.5239											5	19	
Total.....	12	166	55.4	.4834										6	94	64	2

FOLDERS: Male.

1911.															
Connecticut.....	2	22	60.0	\$0.1864			4	1	16	1					
Massachusetts.....	5	61	57.1	.2501			1	2	18	18	4	17			
New Jersey.....	2	32	57.5	.2128			1	5	6		20				
Rhode Island.....	6	110	56.0	.2507				1			54	45	10		
Other States.....	4	43	59.8	.1837				17	5	11	1	9			
Total.....	19	268	57.4	.2300			2	28	13	46	94	58	27		
1912.															
Connecticut.....	2	18	60.0	.1821			4	1	5	8					
Massachusetts.....	5	69	56.7	.2779					1	35	7	26			
New Jersey.....	2	29	57.7	.2266				2	3	6	1	17			
Rhode Island.....	6	110	56.0	.2693						2	21	71	10	4	2
Other States.....	4	51	59.1	.1883					22	3	13	13			
Total.....	19	277	57.2	.2464				28	7	27	65	108	36	4	2

TABLE VIII.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1911 AND 1912—Continued.

COTTON GOODS FINISHING—Continued.

KNOTTERS: Female.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.													
					8 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 cts. and over.		
1911.																		
Connecticut.....	2	23	58.0	\$0.0981	13	10												
Massachusetts.....	5	75	56.7	.1379		20	21	9	25									
New Jersey.....	2	27	57.0	.0891	27													
Rhode Island.....	6	113	55.8	.1146	32	58	2	9	7	4	1							
Other States.....	4	43	59.8	.1069		43												
Total.....	19	281	56.9	.1158	72	131	23	18	32	4	1							
1912.																		
Connecticut.....	2	18	58.0	.1014	7	11												
Massachusetts.....	5	84	54.0	.1422			45	11	28									
New Jersey.....	2	25	57.3	.0913	25													
Rhode Island.....	6	118	55.7	.1206	35	54	5	5	7	6	4	2						
Other States.....	4	51	59.1	.1097		44	7											
Total.....	19	296	56.1	.1212	67	109	57	16	35	6	4	2						

LABORERS, BLEACH HOUSE: Male.

1911.																		
Connecticut.....	2	93	60.0	\$0.1305	1	13	52	26	1									
Massachusetts.....	4	189	57.2	.1289	13	28	105	34	6	3								
New Jersey.....	2	49	57.6	.1240	21	7	5	12	2	1	1							
Rhode Island.....	7	259	56.0	.1381	5	28	86	103	22	7	7	1						
Other States.....	4	98	59.7	.1320		31	35	31	1									
Total.....	19	688	57.5	.1327	40	107	283	206	32	11	8	1						
1912.																		
Connecticut.....	2	95	60.0	.1362		2	61	27	2		3							
Massachusetts.....	4	193	56.7	.1349	10	27	93	42	16	3	2							
New Jersey.....	2	55	57.8	.1302	21	6	4	7	16	1								
Rhode Island.....	7	309	56.0	.1381	5	22	114	129	24	6	9							
Other States.....	4	96	58.8	.1404			51	39	6									
Total.....	19	748	57.2	.1368	36	57	323	244	64	10	14							

LABORERS, COLOR MIXING: Male.

1911.																		
Connecticut.....	2	46	60.0	\$0.1524		1	11	24	6	1	3							
Massachusetts.....	4	130	57.4	.1453			37	71	18	4								
Rhode Island.....	4	45	56.0	.1423			23	16	6									
Other States.....	2	42	58.0	.1480			8	29	3	2								
Total.....	12	263	57.7	.1464		1	79	140	33	7	3							
1912.																		
Connecticut.....	2	41	60.0	.1515			2	32	4	1	2							
Massachusetts.....	4	142	56.9	.1486			40	78	18	6								
Rhode Island.....	4	43	56.0	.1383			3	21	15	4								
Other States.....	2	44	58.1	.1481			9	27	6	2								
Total.....	12	270	57.4	.1473		3	72	152	32	9	2							

TABLE VIII.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1911 AND 1912—Concluded.

COTTON GOODS FINISHING—Continued.

LABORERS, DYEHOUSE: Male.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.												
					8 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 cts. and over.	
					1911.												
Connecticut.....	3	98	59.7	\$.1476			39	46	7	3	3						
Massachusetts.....	10	442	56.8	.1420		3	222	161	53	3							
New Hampshire.....	3	372	58.0	.1479		4	68	210	86	4							
New Jersey.....	2	51	58.0	.1554			3	30	18								
North Carolina.....	2	9	63.0	.0973	5	4											
Rhode Island.....	5	161	56.7	.1503		1	19	104	30	3	4						
Other States.....	5	96	60.0	.1257		44	18	26	8								
Total.....	30	1,229	57.7	.1443	5	56	369	577	202	13	7						
1912.																	
Connecticut.....	3	98	59.6	.1496			23	61	8	3	3						
Massachusetts.....	10	477	55.7	.1493			83	274	116	4							
New Hampshire.....	3	394	58.0	.1621			15	88	280	11							
New Jersey.....	2	53	58.3	.1643			3	3	46	1							
North Carolina.....	2	10	60.0	.1060		10											
Rhode Island.....	5	155	56.7	.1528		2	15	99	27	6	6						
Other States.....	5	81	59.2	.1323		28	18	25	9		1						
Total.....	30	1,268	57.2	.1529		40	157	550	486	25	10						

PRINTERS: Male.

1911.																	
Connecticut.....	2	21	55.0	\$.5247													21
Massachusetts.....	4	75	57.5	.4658								15	5	2			53
Rhode Island.....	4	32	56.0	.5190													29
Other States.....	2	28	57.9	.4899													20
Total.....	12	156	56.9	.4890								15	5	13	123		
1912.																	
Connecticut.....	2	20	55.0	.5255													20
Massachusetts.....	4	84	57.0	.4586								18	9	2			55
Rhode Island.....	4	32	56.0	.5179													30
Other States.....	2	28	58.0	.5077													19
Total.....	12	164	56.7	.4867								18	9	13	124		

TABLE IX.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1911 AND 1912.

COTTON GOODS FINISHING—Continued.

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

CALENDREES: Male.

State, and number of establishments.	Year.	Number of employ-ees.	Aver- age nom- inal full- time hours per week.	Aver- age rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					8 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 cts. and over.
					Connecticut: 2 establishments... {1911 127 58.0 \$0.1473 {1912 117 58.0 .1419	30	66	31								
Massachusetts: 5 establishments... {1911 66 57.7 .1334 {1912 62 57.2 .1424	17	39	5	5												
New Jersey: 2 establishments... {1911 42 58.6 .1521 {1912 44 58.6 .1628	3	33	6													
Rhode Island: 7 establishments... {1911 111 56.7 .1561 {1912 122 56.9 .1575	4	56	48	2	1											

ENGRAVERS: Male.

Connecticut: 2 establishments... {1911 15 51.5 \$0.5266 {1912 14 51.4 .5302																		6	7	2		
Massachusetts: 4 establishments... {1911 111 57.4 .4634 {1912 106 56.6 .4702																			8	8	15	
Rhode Island: 4 establishments... {1911 27 55.0 .4720 {1912 22 55.0 .4731																				1	15	11

FOLDERS: Male.

Connecticut: 2 establishments... {1911 22 60.0 \$0.1864 {1912 18 60.0 .1821									4	1	16	1									
Massachusetts: 5 establishments... {1911 61 57.1 .2501 {1912 69 56.7 .2779								1	2	1	18	18	4	17							
New Jersey: 2 establishments... {1911 32 57.5 .2128 {1912 29 57.7 .2266								1	5	6		20									
Rhode Island: 6 establishments... {1911 110 56.0 .2507 {1912 110 56.0 .2693																					

KNOTTERS: Female.

Connecticut: 2 establishments... {1911 23 58.0 \$0.0981 {1912 18 58.0 .1014	13	10																			
Massachusetts: 5 establishments... {1911 75 56.7 .1379 {1912 84 54.0 .1422	20	21	9	25																	
New Jersey: 2 establishments... {1911 27 57.0 .0891 {1912 25 57.3 .0913	27																				
Rhode Island: 6 establishments... {1911 113 55.8 .1146 {1912 118 55.7 .1206	32	58	2	9	7	4	1														

TABLE IX.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1911 AND 1912—Concluded.

COTTON GOODS FINISHING—Continued.

LABORERS, BLEACH HOUSE: Male.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.												
					8 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 cts. and over.	
					Connecticut: 2 establishments... 1911 1912	93 95	60.0 60.0	\$0.1305 .1362	1 ...	13 2	52 61	26 27	1 2	3
Massachusetts: 4 establishments... 1911 1912	189 193	57.2 56.7	.1289 .1349	13 10	28 27	105 93	34 42	6 16	3 2	...	...	...	...	...	...	...	...
New Jersey: 2 establishments... 1911 1912	49 55	57.6 57.8	.1240 .1302	21 21	7 6	5 4	12 7	2 16	1 1	1...	...	...	...	...	...	...	...
Rhode Island: 7 establishments... 1911 1912	259 309	56.0 56.0	.1381 .1381	5 5	28 22	86 114	103 129	22 24	7 6	7 9	1	...	...	...	...	...	...

LABORERS, COLOR MIXING: Male.

Connecticut: 2 establishments... 1911 1912	46 41	60.0 60.0	\$0.1524 .1515	...	1	11	24	6	1	3	...	...	...	...	...	...	...
Massachusetts: 4 establishments... 1911 1912	130 142	57.4 56.9	.1453 .1486	...	...	37	71	18	4	...	...	...	...	...	...	...	...
Rhode Island: 4 establishments... 1911 1912	45 43	56.0 56.0	.1423 .1383	...	...	23	16	6	...	...	...	...	...	...	...	...	...

LABORERS, DYEHOUSE: Male.

Connecticut: 3 establishments... 1911 1912	98 98	59.7 59.6	\$0.1476 .1496	...	...	39	46	7	3	3	...	...	...	...	...	...	...
Massachusetts: 10 establishments... 1911 1912	442 477	56.8 55.7	.1420 .1493	...	3	222	161	53	3	...	...	...	...	...	...	...	...
New Hampshire: 3 establishments... 1911 1912	372 394	58.0 58.0	.1479 .1621	...	4	68	210	86	4	...	...	...	...	...	...	...	...
New Jersey: 2 establishments... 1911 1912	51 53	58.0 58.3	.1554 .1643	...	...	3	30	18	...	...	...	...	...	...	...	...	...
North Carolina: 2 establishments... 1911 1912	9 10	63.0 60.0	.0973 .1060	5	4	10	...	...	...	...	...	...	...	...	...	...	...
Rhode Island: 5 establishments... 1911 1912	161 155	56.7 56.7	.1503 .1528	...	1	19	104	30	3	4	...	...	...	...	...	...	...

PRINTERS: Male.

Connecticut: 2 establishments... 1911 1912	21 20	55.0 55.0	\$0.5247 .5255	...	...	...	...	...	...	...	...	...	...	...	...	...	21 20
Massachusetts: 4 establishments... 1911 1912	75 84	57.5 57.0	.4658 .4586	...	...	...	...	...	...	15 18	5 9	2 2	53 55	...	...	...	...
Rhode Island: 4 establishments... 1911 1912	32 32	56.0 56.0	.5190 .5179	...	...	...	...	...	...	...	...	...	3 2	29 30	...	...	...

TABLE X.—CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN THE UNITED STATES, BY YEARS, 1911 AND 1912.

COTTON GOODS FINISHING—Continued.

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

NUMBER.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	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.	Over 60.
Calendriers, male:										
20 establishments.....	{ 1911	412	57.9				118	201	93	
	{ 1912	409	57.8			13	110	201	85	
Engravers, male:										
12 establishments.....	{ 1911	179	55.8	6	26		72	75		
	{ 1912	166	55.4	6	23	36	31	70		
Folders, male:										
19 establishments.....	{ 1911	268	57.4				158	38	72	
	{ 1912	277	57.2			23	127	68	59	
Knotters, female:										
19 establishments.....	{ 1911	281	56.9				183	53	45	
	{ 1912	296	56.1			84	135	40	37	
Laborers, bleach house, male:										
19 establishments.....	{ 1911	688	57.5				364	128	196	
	{ 1912	748	57.2			65	339	187	157	
Laborers, color mixing, male:										
12 establishments.....	{ 1911	263	57.7				106	90	67	
	{ 1912	270	57.4			39	64	103	64	
Laborers, dye house, male:										
30 establishments.....	{ 1911	1,229	57.7				415	575	230	9
	{ 1912	1,268	57.2			271	148	649	200	
Printers, male:										
12 establishments.....	{ 1911	156	56.9				86	57	13	
	{ 1912	164	56.7			22	66	62	14	

PER CENT.

Calendriers, male:										
20 establishments.....	{ 1911	412	57.9				28.6	48.8	22.6	
	{ 1912	409	57.8			3.2	26.9	49.1	20.8	
Engravers, male:										
12 establishments.....	{ 1911	179	55.8	3.4	14.5		40.2	41.9		
	{ 1912	166	55.4	3.6	13.9	21.7	18.7	42.2		
Folders, male:										
19 establishments.....	{ 1911	268	57.4				59.0	14.2	26.9	
	{ 1912	277	57.2			8.3	45.8	24.5	21.3	
Knotters, female:										
19 establishments.....	{ 1911	281	56.9				65.1	18.9	16.0	
	{ 1912	296	56.1			28.4	45.6	13.5	12.5	
Laborers, bleach house, male:										
19 establishments.....	{ 1911	688	57.5				52.9	18.6	28.5	
	{ 1912	748	57.2			8.7	45.3	25.0	21.0	
Laborers, color mixing, male:										
12 establishments.....	{ 1911	263	57.7				40.3	34.2	25.5	
	{ 1912	270	57.4			14.4	23.7	38.1	23.7	
Laborers, dye house, male:										
30 establishments.....	{ 1911	1,229	57.7				33.8	46.8	18.7	0.7
	{ 1912	1,268	57.2			21.4	11.7	51.2	15.8	
Printers, male:										
12 establishments.....	{ 1911	156	56.9				55.1	36.5	8.3	
	{ 1912	164	56.7			13.4	40.2	37.8	8.5	

TABLE XI.—CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1911 AND 1912.

COTTON GOODS FINISHING—Continued.

CALENDERS: Male.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of 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.	Over 60.
1911.										
Connecticut.....	2	127	58.0					127		
Massachusetts.....	5	66	57.7				11	55		
New Jersey.....	2	42	58.6				15			27
Rhode Island.....	7	111	56.7				92			19
Other States.....	4	66	59.4					19		47
Total.....	20	412	57.9				118	201		93
1912.										
Connecticut.....	2	117	58.0					117		
Massachusetts.....	5	62	57.2			13		49		
New Jersey.....	2	44	58.6				15			29
Rhode Island.....	7	122	56.9				95			27
Other States.....	4	64	58.9					35		29
Total.....	20	409	57.8			13	110	261		85

ENGRAVERS: Male.

1911.										
Connecticut.....	2	15	51.5	6	8		1			
Massachusetts.....	4	111	57.4				36	75		
Rhode Island.....	4	27	55.0				27			
Other States.....	2	26	52.7		18		8			
Total.....	12	179	55.8	6	26		72	75		
1912.										
Connecticut.....	2	14	51.4	6	7		1			
Massachusetts.....	4	106	56.6			36		70		
Rhode Island.....	4	22	55.0				22			
Other States.....	2	24	52.8		16		8			
Total.....	12	166	55.4	6	23	36	31	70		

FOLDERS: Male.

1911.										
Connecticut.....	2	22	60.0							22
Massachusetts.....	5	61	57.1				28	33		
New Jersey.....	2	32	57.5							12
Rhode Island.....	6	110	56.0				110			
Other States.....	4	43	59.8					5		38
Total.....	19	268	57.4				158	38		72
1912.										
Connecticut.....	2	18	60.0							18
Massachusetts.....	5	69	56.7			23		46		
New Jersey.....	2	29	57.7				17			12
Rhode Island.....	6	110	56.0				110			
Other States.....	4	51	59.1					22		29
Total.....	19	277	57.2			23	127	68		59

TABLE XI.—CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1911 AND 1912—Continued.

COTTON GOODS FINISHING—Continued.

KNOTTERS: Female.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of 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.	Over 60.
1911.									
Connecticut.....	2	23	58.0					23	
Massachusetts.....	5	75	56.7				50	25	
New Jersey.....	2	27	57.0				20		7
Rhode Island.....	6	113	55.8				113		
Other States.....	4	43	59.8					5	38
Total.....	19	281	56.9				183	53	45
1912.									
Connecticut.....	2	18	58.0					18	
Massachusetts.....	5	84	54.0		84				
New Jersey.....	2	25	57.3				17		8
Rhode Island.....	6	118	55.7				118		
Other States.....	4	51	59.1					22	29
Total.....	19	296	56.1		84		135	40	37

LABORERS, BLEACH HOUSE: Male.

1911.									
Connecticut.....	2	93	60.0						93
Massachusetts.....	4	189	57.2				75	114	
New Jersey.....	2	49	57.6				30		19
Rhode Island.....	7	259	56.0				259		
Other States.....	4	98	59.7					14	84
Total.....	19	688	57.5				364	128	196
1912.									
Connecticut.....	2	95	60.0						95
Massachusetts.....	4	193	56.7		65			128	
New Jersey.....	2	55	57.8				30		25
Rhode Island.....	7	309	56.0				309		
Other States.....	4	96	58.8					59	37
Total.....	19	748	57.2		65		339	187	157

LABORERS, COLOR MIXING: Male.

1911.									
Connecticut.....	2	46	60.0						46
Massachusetts.....	4	130	57.4				40	90	
Rhode Island.....	4	45	56.0				45		
Other States.....	2	42	58.0				21		21
Total.....	12	263	57.7				106	90	67
1912.									
Connecticut.....	2	41	60.0						41
Massachusetts.....	4	142	56.9		39			103	
Rhode Island.....	4	43	56.0				43		
Other States.....	2	44	58.1				21		23
Total.....	12	270	57.4		39		64	103	64

TABLE XI.—CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH YEAR, BY STATES, 1911 AND 1912—Concluded.

COTTON GOODS FINISHING—Continued.

LABORERS, DYEHOUSE: Male.

Year and State.	Number of establishments.	Number of employ-ees.	Average nominal full-time hours per week.	Number of 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.	Over 60.
1911.										
Connecticut.....	3	98	59.7					17	81	
Massachusetts.....	10	442	56.8				256	186		
New Hampshire.....	3	372	58.0					372		
New Jersey.....	2	51	58.0				26		25	
North Carolina.....	2	9	63.0							9
Rhode Island.....	5	161	56.7				133		28	
Other States.....	5	96	60.0						96	
Total.....	30	1,229	57.7				415	575	230	9
1912.										
Connecticut.....	3	98	59.6					18	80	
Massachusetts.....	10	477	55.7		271			206		
New Hampshire.....	3	394	58.0					394		
New Jersey.....	2	53	58.3				22		31	
North Carolina.....	2	10	60.0							10
Rhode Island.....	5	155	56.7				126		29	
Other States.....	5	81	59.2					31	50	
Total.....	30	1,268	57.2		271	148	649	200		

PRINTERS: Male.

1911.										
Connecticut.....	2	21	55.0				21			
Massachusetts.....	4	75	57.5				18	57		
Rhode Island.....	4	32	56.0				32			
Other States.....	2	28	57.9				15		13	
Total.....	12	156	56.9				86	57	13	
1912.										
Connecticut.....	2	20	55.0				20			
Massachusetts.....	4	84	57.0		22			62		
Rhode Island.....	4	32	56.0				32			
Other States.....	2	28	58.0				14		14	
Total.....	12	164	56.7		22	66	62		14	

TABLE XII.—CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1911 AND 1912.

COTTON GOODS FINISHING—Continued.

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

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Number of 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.	Over 60.
CALENDREERS, MALE.										
Connecticut:										
2 establishments.....	{ 1911	127	58.0					127		
	{ 1912	117	58.0					117		
Massachusetts:										
5 establishments.....	{ 1911	66	57.7				11	55		
	{ 1912	62	57.2			13		49		
New Jersey:										
2 establishments.....	{ 1911	42	58.6				15			27
	{ 1912	44	58.6				15			29
Rhode Island:										
7 establishments.....	{ 1911	111	56.7				92			19
	{ 1912	122	56.9				95			27
ENGRAVERS, MALE.										
Connecticut:										
2 establishments.....	{ 1911	15	51.5	6	8		1			
	{ 1912	14	51.4	6	7		1			
Massachusetts:										
4 establishments.....	{ 1911	111	57.4				36	75		
	{ 1912	106	56.6			36		70		
Rhode Island:										
4 establishments.....	{ 1911	27	55.0				27			
	{ 1912	22	55.0				22			
FOLDERS, MALE.										
Connecticut:										
2 establishments.....	{ 1911	22	60.0							22
	{ 1912	18	60.0							18
Massachusetts:										
5 establishments.....	{ 1911	61	57.1				28	33		
	{ 1912	69	56.7			23		46		
New Jersey:										
2 establishments.....	{ 1911	32	57.5				20			12
	{ 1912	29	57.7				17			12
Rhode Island:										
6 establishments.....	{ 1911	110	56.0				110			
	{ 1912	110	56.0				110			
KNOTTERS, FEMALE.										
Connecticut:										
2 establishments.....	{ 1911	23	58.0					23		
	{ 1912	18	58.0					18		
Massachusetts:										
5 establishments.....	{ 1911	75	56.7				50	25		
	{ 1912	84	54.0			84				
New Jersey:										
2 establishments.....	{ 1911	27	57.0				20			7
	{ 1912	25	57.3				17			8
Rhode Island:										
6 establishments.....	{ 1911	113	55.8				113			
	{ 1912	118	55.7				118			
LABORERS, BLEACH HOUSE, MALE.										
Connecticut:										
2 establishments.....	{ 1911	93	60.0							93
	{ 1912	95	60.0							95
Massachusetts:										
4 establishments.....	{ 1911	189	57.2				75	114		
	{ 1912	193	56.7			65		128		
New Jersey:										
2 establishments.....	{ 1911	49	57.6				30			19
	{ 1912	55	57.8				30			25
Rhode Island:										
7 establishments.....	{ 1911	259	56.0				259			
	{ 1912	309	56.0				309			

TABLE XII.—CLASSIFIED NOMINAL FULL-TIME HOURS OF WORK PER WEEK IN EACH STATE, BY YEARS, 1911 AND 1912—Concluded.

COTTON GOODS FINISHING—Concluded.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Number of 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.	Over 60.
LABORERS, COLOR MIXING, MALE.										
Connecticut:										
2 establishments.....	{ 1911	46	60.0							46
	{ 1912	41	60.0							41
Massachusetts:										
4 establishments.....	{ 1911	130	57.4				40	90		
	{ 1912	142	56.9			39		103		
Rhode Island:										
4 establishments.....	{ 1911	45	56.0				45			
	{ 1912	43	56.0				43			
LABORERS, DYEHOUSE, MALE.										
Connecticut:										
3 establishments.....	{ 1911	98	59.7					17	81	
	{ 1912	98	59.6					18	80	
Massachusetts:										
10 establishments.....	{ 1911	442	56.8				256	186		
	{ 1912	477	55.7			271		206		
New Hampshire:										
3 establishments.....	{ 1911	372	58.0					372		
	{ 1912	394	58.0					394		
New Jersey:										
2 establishments.....	{ 1911	51	58.0				26		25	
	{ 1912	53	58.3				22		31	
North Carolina:										
2 establishments.....	{ 1911	9	63.0							9
	{ 1912	10	60.0						10	
Rhode Island:										
5 establishments.....	{ 1911	161	56.7				133		28	
	{ 1912	155	56.7				126		29	
PRINTERS, MALE.										
Connecticut:										
2 establishments.....	{ 1911	21	55.0				21			
	{ 1912	20	55.0				20			
Massachusetts:										
4 establishments.....	{ 1911	75	57.5				18	57		
	{ 1912	84	57.0			22		62		
Rhode Island:										
4 establishments.....	{ 1911	32	56.0				32			
	{ 1912	32	56.0				32			

WOOLEN AND WORSTED GOODS MANUFACTURING.

GENERAL SUMMARY.

This study of wages and hours of labor in woolen and worsted goods manufacturing shows rates of wages per hour and nominal full-time hours 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.

This present report and also previous reports show wages and hours of labor for each of the most important productive occupations in woolen and worsted goods manufacturing, but do not show data for all the occupations in the industry. The occupations for which data are shown in this report are burlers, carding-machine tenders, card strippers, combers, dressers, dyehouse laborers, loom fixers, menders, frame spinners, mule spinners, twistlers, weavers, and wool sorters, and these occupations include a very large proportion of the total employees on productive work and more than two-fifths of the total employees both 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.....	6.3 per cent decline.
1912 compared with 1895.....	5.5 per cent decline.
1912 compared with 1900.....	5.2 per cent decline.
1912 compared with 1905.....	4.0 per cent decline.
1912 compared with 1910.....	1.6 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, 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
Burlers, female.....	3.8	3.3	3.3	1.4	1.6
Carding-machine tenders, male.....	3.4	3.4	3.1	1.2	1.2
Card strippers, male.....	1.4	1.2	1.2	.5	.3
Combers, male.....	4.8	5.0	5.0	2.6	2.6
Combers, female.....	.7	.9	.9	.2	.2
Dressers, male.....	3.0	2.3	2.1	1.4	1.4
Laborers, dyehouse, male.....	4.3	3.9	4.0	1.7	.9
Loom fixers, male.....	3.3	3.0	3.4	1.5	1.5
Menders, female.....	2.6	2.4	3.1	1.7	1.9
Spinners, frame, male.....	(2)	(2)	(2)	3.4	3.4

¹ Previous reports of wages and hours of labor in woolen and worsted goods manufacturing have been 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.

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
Spinners, frame, female.....	4.9	4.7	4.7	2.1	2.1
Spinners, mule, male.....	3.5	2.8	2.8	1.6	1.3
Twisters, female.....	2.0	2.7	3.4	2.0	1.8
Weavers, male.....	2.6	2.8	2.8	1.4	1.4
Weavers, female.....	4.1	3.6	3.4	1.4	1.6
Wool sorters, male.....	4.6	4.3	4.5	2.2	2.2
Total.....	3.4	3.2	3.3	1.6	1.7

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..... 49.7 per cent advance.
- 1912 compared with 1895..... 56.5 per cent advance.
- 1912 compared with 1900..... 34.0 per cent advance.
- 1912 compared with 1905..... 25.0 per cent advance.
- 1912 compared with 1910..... 12.5 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, are shown in the table which follows:

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

Occupation.	Per cent higher in 1912 than in—				
	1907	1908	1909	1910	1911
Burlers, female.....	12.9	19.1	12.3	11.6	13.6
Carding-machine tenders, male.....	10.3	14.4	11.9	10.8	(¹)
Card strippers, male.....	13.1	13.0	8.4	8.2	7.9
Combers, male.....	15.6	17.2	12.1	9.9	10.7
Combers, female.....	16.2	16.5	12.7	4.1	5.9
Dressers, male.....	8.8	7.9	8.6	6.7	7.7
Laborers, dyehouse, male.....	7.9	11.3	13.7	9.4	8.2
Loom fixers, male.....	12.5	14.5	14.2	11.4	11.7
Menders, female.....	20.5	17.8	27.2	17.9	18.4
Spinners, frame, male.....	(²)	(²)	(²)	23.4	20.0
Spinners, frame, female.....	19.8	24.5	22.8	19.2	14.6
Spinners, mule, male.....	13.3	15.3	11.5	11.4	8.1
Twisters, female.....	8.0	6.4	7.7	5.9	5.1
Weavers, male.....	12.0	16.0	13.8	14.3	12.8
Weavers, female.....	2.5	15.5	15.7	10.5	11.6
Wool sorters, male.....	18.6	23.8	15.5	12.1	10.8
Total.....	10.2	16.4	15.6	12.5	11.9

¹ Decrease of 0.2 per cent.

² No data.

The next table shows for the industry the course of nominal full-time hours per week and of rates of wages per hour during the 23-year period from 1890 to 1912. For 1890 to 1904 the occupations combined, and the sex for which data are shown are burlers, female; carders, male and female; card strippers, male; combers, male and female; laborers, dyehouse, male; loom fixers, male; frame spinners, female; mule spinners, male and female; and weavers, male and female. The same occupations were included for 1904 to 1907 excepting that

female mule spinners were discontinued beginning with 1905, and female carders were discontinued beginning with 1906. For 1907 to 1911 all occupations remaining were continued and dressers, menders, twistors, and wool sorters were added. For 1911 and 1912 the occupations, and the sex for which data are shown, are burlers, female; carding machine tenders, male; card strippers, male; combers, male and female; dressers, male; dyehouse laborers, male; loom fixers, male; menders, female; frame spinners, male and female; mule spinners, male; twistors, female; weavers, male and female; and wool sorters, male. No occupation included during the earlier period has been dropped.

In combining the relatives for the principal occupations to determine the relative 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 0.8 per cent in any of the 18 years, and the difference in relative wages does not exceed 2 per cent in 13 of the 18 years, the greatest difference being 4 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 WOOLEN AND WORSTED GOODS MANUFACTURING, 1890 TO 1912.

[Data are included from 16 establishments, 1890-1903; 17 establishments, 1903, 1904; 27 establishments, 1904, 1905; 26 establishments, 1905, 1906; 29 establishments, 1906, 1907; 19 establishments, 1907-1910; 27 establishments, 1910, 1911; and 46 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.....	101.0	99.6
1891.....	101.0	99.3
1892.....	101.0	100.7
1893.....	99.5	105.7
1894.....	99.0	94.9
1895.....	100.1	95.3
1896.....	100.1	98.1
1897.....	98.4	100.4
1898.....	99.9	103.3
1899.....	100.0	102.3
1900.....	99.8	111.3
1901.....	99.9	111.9
1902.....	98.8	114.9
1903.....	98.7	118.7
1904.....	97.9	115.4
1905.....	98.5	119.3
1906.....	98.4	127.1
1907.....	97.9	135.3
1908.....	97.7	128.1
1909.....	97.8	129.0
1910.....	96.1	132.5
1911.....	96.2	133.3
1912.....	94.6	149.1

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 a few 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 WOOLEN AND WORSTED GOODS MANUFACTURING, 1890 TO 1912.

[Data are included from 16 establishments, 1890-1903; 17 establishments, 1903, 1904; 27 establishments, 1904, 1905; 26 establishments, 1905, 1906; 29 establishments, 1906, 1907; 19 establishments, 1907-1910; 27 establishments, 1910, 1911; and 46 establishments, 1911, 1912.]

Year.	Burlers, female.		Carding machine tenders, male. ¹		Carding machine tenders, female. ¹		Card strippers, male.		Combers, male.		Combers, 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	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1890	103.1	93.3	101.9	99.1	100.5	104.1	100.0	92.4	102.4	95.7	100.5	98.3
1891	103.1	93.7	101.8	99.6	100.5	104.6	100.0	99.3	102.4	98.9	100.5	98.8
1892	102.8	97.5	101.8	101.7	100.5	101.1	100.0	103.3	102.4	95.7	100.5	98.5
1893	99.5	100.5	100.5	103.4	100.5	79.1	100.0	99.5	99.0	99.5	99.4	101.3
1894	92.8	99.2	100.5	98.5	96.3	97.6	100.0	99.0	99.0	107.2	99.9	93.4
1895	101.7	99.6	100.4	97.7	100.5	103.5	100.0	96.5	99.0	94.0	100.0	96.3
1896	101.6	107.9	100.5	98.1	100.2	100.3	100.0	104.0	99.0	104.6	99.9	103.1
1897	92.4	100.4	91.8	101.7	100.5	96.0	100.0	100.2	99.0	95.4	99.8	102.9
1898	101.7	102.9	100.4	99.8	99.9	108.1	100.0	98.9	99.0	95.9	99.8	104.0
1899	101.2	105.5	100.3	100.0	100.5	105.5	100.0	106.7	99.0	113.3	99.8	103.3
1900	101.4	111.3	100.2	110.9	100.5	107.0	100.0	111.4	99.0	106.6	99.9	110.3
1901	101.5	108.3	100.3	106.2	100.4	112.8	100.0	112.2	99.0	107.9	99.8	111.1
1902	106.1	113.3	99.9	106.7	100.5	108.9	100.0	116.6	99.0	103.8	98.3	112.6
1903	99.6	119.4	99.5	109.4	100.5	111.9	100.0	117.6	99.0	102.1	98.4	110.4
1904	93.1	118.7	98.6	115.0	99.4	127.2	98.4	120.5	99.6	93.3	98.0	105.8
1905	98.9	124.4	100.0	116.8	100.9	123.6	98.1	121.8	99.3	94.8	97.4	101.7
1906	98.6	129.5	100.0	121.0	.....	(²)	97.1	122.6	99.5	95.3	97.0	105.4
1907	97.9	136.7	99.6	128.7	.....	.....	96.9	125.5	98.4	96.9	96.3	106.5
1908	97.4	129.6	99.6	124.1	.....	.....	96.7	125.7	98.6	95.6	96.5	106.2
1909	97.4	137.5	99.3	126.9	.....	.....	96.7	131.0	98.6	99.9	96.5	109.8
1910	95.5	138.3	97.4	128.2	.....	.....	96.0	131.2	96.2	101.9	95.8	118.8
1911	95.7	135.9	97.4	142.3	.....	.....	95.8	131.6	96.2	101.2	95.6	116.8
1912	94.2	154.4	96.2	142.0	.....	.....	95.5	142.0	93.7	112.0	95.6	123.7

¹ Employees in this occupation were reported as carders for 1890 to 1907.
² Occupation discontinued.

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

Year.	Dressers, male.		Laborers, dyehouse, male, ¹		Loom fixers, male.		Menders, female.		Spinners, frame, male.		Spinners, frame, 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					100.0	100.0		
1890.....			99.5	100.2	100.5	98.3					100.9	96.7		
1891.....			99.6	101.5	100.4	98.2					100.9	97.6		
1892.....			99.5	100.7	100.3	100.2					100.9	98.4		
1893.....			98.4	103.1	99.9	102.0					99.6	103.5		
1894.....			101.8	95.5	97.1	96.4					99.8	94.2		
1895.....			101.4	96.5	100.4	96.7					99.8	95.1		
1896.....			100.4	98.5	100.4	101.2					99.7	101.1		
1897.....			97.8	99.4	100.4	102.0					99.6	102.5		
1898.....			100.7	101.4	100.2	102.0					99.5	104.4		
1899.....			100.8	102.6	100.4	102.8					99.3	106.5		
1900.....			100.5	109.3	100.3	112.5					99.2	118.0		
1901.....			100.6	106.8	100.3	112.2					99.4	115.4		
1902.....			99.1	108.4	99.1	114.0					97.7	122.8		
1903.....			99.6	108.2	99.0	115.9					98.0	123.2		
1904.....			98.9	108.9	98.2	112.7					98.0	120.2		
1905.....			99.9	109.3	98.8	114.5					97.9	121.6		
1906.....			99.8	114.8	98.5	122.7					97.9	125.6		
1907.....	² 100.0	² 100.0	98.9	122.3	97.8	128.9	² 100.0	² 100.0			96.8	139.8		
1908.....	² 99.3	² 100.8	98.4	118.6	97.6	126.6	² 99.8	² 102.3			96.6	134.5		
1909.....	² 99.1	² 100.2	98.6	116.1	97.9	127.0	² 100.5	² 94.7			96.6	136.4		
1910.....	² 98.4	² 102.0	96.2	120.7	96.0	130.2	² 99.1	² 102.2	² 100.0	² 100.0	94.1	140.5		
1911.....	² 98.4	² 101.0	96.5	122.0	96.0	129.8	² 99.3	² 101.8	² 100.0	² 102.8	94.1	146.1		
1912.....	² 97.0	² 108.8	94.6	132.0	94.6	145.0	² 97.4	² 120.5	² 96.4	² 123.4	92.1	167.5		
			Spinners, mule, male.		Spinners, mule, female.		Twisters, female.		Weavers, male.		Weavers, female.		Woolsorters, male.	
Average, 1890-1899	100.0	100.0	100.0	100.0			100.0	100.0	100.0	100.0				
1890.....	102.7	96.6	100.0	99.1			100.6	101.6	101.0	100.4				
1891.....	102.7	95.5	100.0	99.8			100.6	102.2	101.0	99.1				
1892.....	102.6	93.9	100.0	99.6			100.6	103.8	101.0	100.8				
1893.....	99.2	101.5	100.0	110.3			99.5	109.7	99.5	106.7				
1894.....	90.4	98.1	100.0	97.3			99.7	92.8	99.6	94.3				
1895.....	101.6	96.2	100.0	98.0			99.7	94.9	99.6	93.8				
1896.....	101.6	103.7	100.0	97.7			99.8	94.7	99.7	96.7				
1897.....	94.6	104.2	100.0	99.3			99.7	98.0	99.7	100.7				
1898.....	101.6	111.1	100.0	98.9			99.8	101.1	99.4	104.6				
1899.....	102.9	99.0	100.0	99.5			99.8	100.9	99.4	102.4				
1900.....	101.8	115.6	100.0	100.9			99.6	111.7	99.4	109.8				
1901.....	101.7	114.3	100.0	104.7			99.6	113.6	99.4	112.5				
1902.....	100.9	114.0	100.0	121.4			98.7	120.4	98.2	112.5				
1903.....	100.4	124.8	100.0	113.8			98.4	124.7	98.2	115.9				
1904.....	98.8	125.9	98.1	135.1			98.1	116.6	97.1	113.4				
1905.....	98.6	131.1	(*)	(*)			98.5	123.8	98.0	117.1				
1906.....	98.7	140.6					98.3	136.0	98.0	126.4				
1907.....	98.5	143.3			² 100.0	² 100.0	97.9	142.1	97.8	137.1	² 100.0	² 100.0		
1908.....	98.8	140.8			² 100.7	² 101.5	98.1	137.1	97.3	121.6	² 99.7	² 95.8		
1909.....	97.8	145.6			² 101.4	² 100.3	98.1	139.8	97.1	121.4	² 99.9	² 102.7		
1910.....	96.6	145.7			² 100.0	² 102.0	96.8	139.2	95.1	127.2	² 97.5	² 105.8		
1911.....	96.4	150.2			² 99.8	² 102.8	96.8	141.1	95.3	125.9	² 97.5	² 107.0		
1912.....	95.1	162.3			² 98.0	² 108.0	95.4	159.1	93.8	140.5	² 95.4	² 118.6		

¹ Employees in this occupation were reported as dyers for 1890 to 1907.

² Data for 1890 to 1906 not available; computed with 1907=100.

³ Data for 1890 to 1909 not available; computed with 1910=100.

⁴ Occupation discontinued.

For almost all of the occupations there was a decline in rates of wages per hour following 1907, and for weavers, both male and female, the 1907 level was not again reached until 1912. For every occupation excepting male carding-machine tenders and male combers the rates of wages per hour were higher in 1912 than in any other year for which data are available.

The nominal full-time hours of work per week show a gradual decline, and for almost all of the occupations they were on a lower level in 1912 than for any other year during the period covered.

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 in the table which follows.

Owing to the difficulty in finding records for past years and also owing to the great amount of work involved, data for 1907 to 1909 were secured from a limited number of establishments.

In order, however, to permit of a true comparison of data from year to year, information was secured from identical establishments for 1907 to 1910, and when the work was enlarged in 1911 data were secured for both 1910 and 1911 from the additional establishments, and when the work was again enlarged in 1912 data were secured for both 1911 and 1912 from the additional establishments. The data are for the pay-roll period ending nearest May 15 each year, except for two or three establishments for which the data are for the latter half of May.

AVERAGE AND CLASSIFIED NOMINAL FULL-TIME WORKING HOURS PER WEEK AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN WOOLEN AND WORSTED 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.	Per cent of employees whose nominal full-time working hours per week were—				Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.			
				54.	Over 54 and under 57.	57 and under 60.	60.		Under 10 cents.	10 and under 12 cents.	12 and under 14 cents.	14 cents and over.
Burlers, female:												
18 establishments...	1907	611	58.3	.....	9.3	60.9	29.8	\$.1224	15.0	48.6	17.5	18.8
	1908	494	58.0	.....	12.1	69.2	18.6	.1160	13.0	51.6	23.1	12.3
	1909	582	58.0	.....	12.5	67.7	19.8	.1231	14.2	44.5	18.0	23.2
	1910	598	56.9	.....	67.6	15.9	16.6	.1238	9.1	47.8	18.9	24.2
26 establishments...	1910	1,034	56.5	.....	81.1	9.3	9.6	.1296	8.2	35.3	26.6	29.9
	1911	1,010	56.6	.....	79.1	7.8	13.1	.1273	10.0	34.2	31.7	24.2
43 establishments...	1911	1,516	56.8	.....	64.6	26.7	8.7	.1296	11.3	31.1	28.4	29.2
	1912	1,471	55.9	.....	48.4	16.5	28.0	.1472	4.0	10.1	43.5	42.6
Carding-machine tenders, male:												
19 establishments...	1907	145	58.6	.....	9.0	48.3	42.8	.1255	9.7	18.6	55.2	16.6
	1908	136	58.6	.....	9.6	47.1	43.4	.1210	11.2	25.0	50.7	13.2
	1909	134	58.4	.....	9.7	55.2	35.1	.1237	6.6	23.1	54.5	15.7
	1910	133	57.3	.....	51.9	26.3	21.8	.1250	4.6	28.6	48.9	18.1

AVERAGE AND CLASSIFIED NOMINAL FULL-TIME WORKING HOURS PER WEEK AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN WOOLEN AND WORSTED GOODS MANUFACTURING, 1907 TO 1912—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Per cent of employees whose nominal full-time working hours per week were—				Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.					
				54.	Over 54 and under 57.	57 and under 60.	60.		Under 10 cents.	10 and under 12 cents.	12 and under 14 cents.	14 cents and over.		
													Under 12 cents.	12 and under 14 cents.	14 and under 16 cents.	16 cents and over.
Carding-machine tenders, male—Concluded.														
26 establishments...	1910	201	56.9	.....	65.7	19.9	14.4	\$0.1274	3.0	24.4	48.8	23.9		
	1911	196	56.9	.....	67.9	18.4	13.8	.1414	2.5	30.6	42.3	24.4		
40 establishments...	1911	320	57.1	.....	55.0	35.0	10.0	.1357	2.2	35.9	38.1	23.8		
	1912	412	56.4	35.7	18.4	33.3	12.6	.1354	5	18.4	40.5	40.5		
Combers, female:														
4 establishments...	1907	101	55.7	.....	78.2	17.8	4.0	.0989	58.4	23.8	7.9	9.9		
	1908	117	55.8	.....	77.8	17.1	5.1	.0986	56.4	27.4	16.2	.....	
	1909	111	55.8	.....	76.6	19.8	3.6	.1019	42.3	37.8	19.8	.....	
	1910	110	55.4	.....	96.4	.....	3.6	.1103	21.8	60.0	.....	18.2		
6 establishments...	1910	129	55.5	.....	96.9	.....	3.1	.1105	24.8	53.5	6.2	15.5		
	1911	118	55.4	.....	96.6	.....	3.4	.1086	11.9	76.3	9.3	2.5		
8 establishments...	1911	139	55.8	.....	82.0	15.1	2.9	.1092	10.1	79.9	7.9	2.2		
	1912	150	55.8	.....	82.0	13.3	4.7	.1157	8.7	66.0	15.3	10.0		
Twisters, female:														
7 establishments...	1907	186	57.2	.....	41.9	36.0	22.0	.1119	10.3	64.5	18.3	7.0		
	1908	138	57.6	.....	31.9	40.6	27.5	.1136	2.9	54.3	38.4	4.3		
	1909	223	58.0	.....	22.4	41.7	35.9	.1123	7.5	55.2	30.9	6.2		
	1910	216	57.2	.....	55.6	13.4	31.0	.1142	12.9	45.8	31.0	10.2		
10 establishments...	1910	332	56.9	.....	68.4	8.7	22.9	.1231	8.4	47.0	27.1	17.4		
	1911	342	56.8	.....	75.4	.....	24.6	.1241	3	43.3	43.6	12.7		
12 establishments...	1911	600	56.7	.....	76.0	10.0	14.0	.1308	1.1	31.7	26.7	40.6		
	1912	751	55.7	51.3	27.8	4.8	16.1	.1374	1.5	21.6	23.3	53.7		
Combers, male:														
4 establishments...	1907	52	58.5	.....	.....	75.0	25.0	.1330	1.9	69.2	28.8	.....	
	1908	29	58.6	.....	.....	72.4	27.6	.1312	.....	72.4	24.1	3.4		
	1909	29	58.6	.....	.....	72.4	27.6	.1371	.....	65.5	34.5	.....	
	1910	42	57.2	.....	69.0	.....	31.0	.1398	.....	33.3	66.7	.....	
6 establishments...	1910	106	56.5	.....	87.7	.....	12.3	.1393	.....	54.7	45.3	.....	
	1911	124	56.5	.....	87.1	.....	12.9	.1384	8	59.7	39.5	.....	
9 establishments...	1911	188	56.5	.....	81.9	9.6	8.5	.1405	5.9	57.4	26.6	10.1		
	1912	181	55.0	71.8	7.7	12.2	8.3	.1555	.....	11.0	64.1	24.9		
Spinners, frame, male:														
2 establishments...	1910	114	56.0	.....	100.0	.....	.....	.1252	57.9	26.3	14.9	.9		
	1911	134	56.0	.....	100.0	.....	.....	.1287	38.8	35.8	23.9	1.5		
3 establishments...	1911	194	56.0	.....	100.0	.....	.....	.1316	30.4	33.0	35.6	1.0		
	1912	244	54.0	100.0	.....	.....	.....	.1580	.....	2.9	82.8	14.3		
Spinners, frame, female:														
5 establishments...	1907	323	57.6	.....	15.5	79.3	5.3	.1272	40.5	23.8	35.6	.....	
	1908	284	57.5	.....	21.1	73.2	5.6	.1224	34.5	65.5	.....	.....
	1909	295	57.5	.....	20.3	75.3	4.4	.1241	22.7	77.3	.....	.....
	1910	286	56.0	.....	94.1	.....	5.9	.1278	18.8	67.5	13.6	.....	
8 establishments...	1910	578	56.0	.....	97.1	.....	2.9	.1223	51.9	41.3	6.7	.....	
	1911	683	56.0	.....	98.2	.....	1.8	.1272	30.8	57.8	11.0	.4		
10 establishments...	1911	1,002	56.4	.....	79.9	18.9	1.2	.1255	39.9	46.8	13.0	.3		
	1912	1,070	55.2	53.0	32.2	14.1	.7	.1439	4.8	34.1	52.7	8.4		

AVERAGE AND CLASSIFIED NOMINAL FULL-TIME WORKING HOURS PER WEEK AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN WOOLEN AND WORSTED GOODS MANUFACTURING, 1907 TO 1912—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Per cent of employees whose nominal full-time working hours per week were—				Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.			
				54.	Over 54 and under 57.	57 and under 60.	60.		Under 12 cents.	12 and under 16 cents.	16 and under 20 cents.	20 cents and over.
Menders, female:												
18 establishments...	1907	403	58.5	.....	14.1	39.2	46.7	\$.1448	24.1	49.6	17.6	8.7
	1908	341	58.4	.....	17.9	32.8	49.3	.1481	30.5	34.6	21.7	13.2
	1909	583	58.8	.....	12.5	30.7	56.8	.1371	43.7	28.9	15.6	11.8
	1910	498	58.0	.....	34.1	23.3	42.6	.1479	36.9	27.9	22.5	12.6
25 establishments...	1910	1,196	56.8	.....	72.6	9.7	17.7	.1598	24.8	23.4	32.4	19.3
	1911	1,115	56.9	.....	71.8	6.7	21.4	.1591	22.1	28.2	35.5	14.4
44 establishments...	1911	1,623	56.8	.....	71.5	13.7	14.7	.1597	20.1	31.3	34.5	14.2
	1912	1,668	55.7	53.5	20.3	14.1	12.1	.1890	9.0	19.4	28.0	43.4
									Under 14 cents.	14 and under 16 cents.	16 and under 18 cents.	18 cents and over.
Card strippers, male:												
18 establishments...	1907	89	58.2	.....	19.1	42.7	38.2	.1447	37.1	44.9	18.0	.....
	1908	79	58.1	.....	19.0	49.4	31.6	.1449	40.5	45.6	12.7	1.3
	1909	80	58.1	.....	16.3	52.5	31.3	.1510	28.8	42.5	23.8	5.0
	1910	88	57.7	.....	36.4	34.1	29.5	.1512	27.2	46.6	20.5	5.6
27 establishments...	1910	162	57.0	.....	64.2	19.8	16.0	.1526	15.4	57.4	22.8	4.3
	1911	155	56.9	.....	64.5	20.6	14.8	.1531	12.9	59.4	21.9	5.8
42 establishments...	1911	223	57.1	.....	52.0	36.8	11.2	.1514	18.4	57.0	21.1	3.5
	1912	240	56.9	28.8	15.4	39.2	16.7	.1634	1.7	32.9	57.1	8.3
Laborers, dye house, male:												
19 establishments...	1907	434	58.1	.....	11.5	65.2	23.3	.1439	40.8	54.6	4.4	.2
	1908	385	57.8	.....	16.4	67.5	16.1	.1395	70.9	24.4	4.2	.6
	1909	514	57.9	.....	16.0	63.0	21.0	.1366	71.4	23.0	4.9	.8
	1910	570	56.5	.....	77.9	12.3	9.8	.1420	34.9	59.3	4.7	1.1
27 establishments...	1910	837	56.3	.....	84.6	8.7	6.7	.1430	36.5	52.1	10.5	.8
	1911	877	56.5	.....	82.0	6.8	11.2	.1445	29.7	59.0	10.1	1.1
45 establishments...	1911	1,116	56.6	.....	73.6	17.3	9.1	.1452	32.4	51.3	15.2	1.1
	1912	1,093	55.5	51.3	24.9	16.9	6.9	.1571	7.1	62.0	28.3	2.6
									Under 14 cents.	14 and under 18 cents.	18 and under 25 cents.	25 cents and over.
Weavers, male:												
19 establishments...	1907	1,653	58.5	.....	11.2	44.9	43.9	.2027	10.0	22.4	52.6	15.1
	1908	1,409	58.6	.....	3.1	60.3	36.7	.1955	11.0	27.4	49.6	12.1
	1909	1,589	58.6	.....	3.1	63.0	33.9	.1994	12.2	25.5	46.8	15.5
	1910	1,716	57.8	.....	41.0	27.3	31.7	.1985	6.4	27.0	55.7	11.1
27 establishments...	1910	2,907	57.1	.....	64.7	16.6	18.7	.2068	6.5	23.8	51.9	17.8
	1911	2,563	57.1	.....	64.5	14.1	21.4	.2096	6.6	23.4	47.4	22.4
46 establishments...	1911	4,049	57.1	.....	60.0	25.2	14.5	.2099	7.2	21.4	50.1	21.3
	1912	4,476	56.3	33.4	28.1	23.6	14.9	.2367	3.5	12.0	44.7	39.6
Weavers, female:												
19 establishments...	1907	1,873	58.0	.....	14.9	63.3	21.7	.1875	12.6	28.0	52.9	6.4
	1908	1,882	57.7	.....	18.2	69.8	12.0	.1663	24.5	41.1	32.8	1.7
	1909	1,807	57.6	.....	22.5	64.6	12.9	.1660	28.6	36.7	31.7	2.9
	1910	2,116	56.4	.....	80.2	7.6	12.2	.1739	21.8	31.9	43.5	2.7

AVERAGE AND CLASSIFIED NOMINAL FULL-TIME WORKING HOURS PER WEEK
AND AVERAGE AND CLASSIFIED RATES OF WAGES PER HOUR IN EACH OF THE
PRINCIPAL OCCUPATIONS IN WOOLEN AND WORSTED GOODS MANUFACTURING,
1907 TO 1912—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Per cent of employees whose nominal full-time working hours per week were—				Average rate of wages per hour.	Per cent of employees earning each classified rate of wages per hour.			
				54.	Over 54 and under 57.	57 and under 60.	60.		Under 14 cents.	14 and under 18 cents.	18 and under 25 cents.	25 cents and over.
Weavers, female—Concluded.												
27 establishments...	1910	2,855	56.3	.....	84.4	6.5	9.0	\$0.1799	19.7	30.7	43.7	6.1
	1911	2,366	56.4	.....	81.3	6.3	12.4	.1780	19.8	34.4	39.8	5.9
46 establishments...	1911	3,384	56.8	.....	63.4	27.9	8.7	.1843	21.7	32.8	38.6	6.9
	1912	3,586	55.9	38.8	27.9	25.3	7.9	.2057	9.6	22.9	48.3	19.2
Dressers, male:												
19 establishments...	1907	119	58.8	.....	5.0	47.9	47.1	.2236	4.2	5.9	80.7	9.2
	1908	97	58.4	.....	7.2	61.9	30.9	.2254	2.1	10.3	74.2	13.4
	1909	126	58.3	.....	13.5	52.4	34.1	.2241	9.5	1.6	73.8	15.1
	1910	126	57.9	.....	35.7	29.4	34.9	.2282	6.3	.8	77.8	15.1
27 establishments...	1910	214	57.1	.....	61.2	18.2	20.6	.2418	5.6	1.9	49.5	43.0
	1911	215	57.1	.....	63.3	16.3	20.5	.2394	7.0	3.7	46.0	43.3
46 establishments...	1911	337	57.1	.....	58.2	27.9	13.9	.2429	4.5	3.0	45.1	47.5
	1912	384	56.3	28.1	35.4	25.5	10.9	.2616	.....	2.9	36.7	60.4
Spinners, mule, male:												
19 establishments...	1907	384	58.6	.....	12.5	38.3	49.2	.2190	14.9	19.0	45.1	21.1
	1908	267	58.2	.....	18.0	43.4	38.6	.2152	18.7	18.0	37.1	26.2
	1909	297	58.2	.....	16.2	47.1	36.7	.2226	18.5	15.8	33.7	32.0
	1910	320	57.5	.....	38.1	39.7	22.2	.2227	11.5	18.4	41.3	28.8
26 establishments...	1910	529	57.0	.....	60.9	25.7	13.4	.2242	11.2	15.3	46.9	26.6
	1911	454	56.9	.....	63.0	22.2	14.8	.2312	8.3	11.7	46.7	33.2
40 establishments...	1911	638	57.3	.....	49.4	37.9	12.7	.2238	11.0	14.9	52.5	21.6
	1912	719	56.5	35.5	14.9	38.2	11.4	.2418	6.3	10.4	41.7	41.6
Loom fixers, male:												
19 establishments...	1907	223	58.0	.....	13.9	62.8	23.3	.2668	1.3	22.9	69.5	6.3
	1908	218	57.9	.....	14.7	69.3	16.1	.2621	1.9	21.6	72.0	4.6
	1909	242	58.1	.....	12.0	66.1	21.9	.2629	1.7	16.9	76.9	4.5
	1910	260	57.0	.....	66.2	13.5	20.4	.2695	2.0	10.4	81.5	6.2
27 establishments...	1910	429	56.6	.....	78.8	8.9	12.4	.2787	1.2	6.3	76.0	16.6
	1911	390	56.6	.....	79.2	9.5	11.3	.2779	1.3	6.2	77.2	15.4
46 establishments...	1911	569	56.7	.....	68.4	23.9	7.7	.2752	.5	17.2	62.7	19.5
	1912	589	55.9	37.7	32.9	21.2	8.1	.3075	.....	7.8	49.6	42.6
Wool sorters, male:												
11 establishments...	1907	184	58.0	.....	9.2	78.8	12.0	.2330	15.2	44.6	38.6	1.6
	1908	164	57.8	.....	13.4	78.0	8.5	.2233	22.6	67.7	9.8	.....
	1909	186	57.9	.....	8.1	83.9	8.1	.2393	4.3	62.9	32.8	.....
	1910	193	56.5	.....	83.9	4.7	11.4	.2464	7.7	24.4	64.8	3.1
18 establishments...	1910	289	56.3	.....	88.2	4.2	7.6	.2465	7.3	21.8	68.5	2.4
	1911	335	56.3	.....	89.3	3.9	6.9	.2494	3.3	23.0	72.5	1.2
19 establishments...	1911	444	56.4	.....	83.1	11.7	5.2	.2405	12.1	28.8	58.1	.9
	1912	471	55.2	61.4	21.4	14.0	3.2	.2666	4.5	17.4	73.5	4.7

EXPLANATION OF SCOPE AND METHOD.

This report on woolen and worsted goods manufacturing includes establishments making woolen and worsted ladies' wear, including dress goods and cloakings; men's wear, including suitings and overcoatings; uniform goods; flannels; and bed blankets. The textile directory for 1912 shows 460 establishments manufacturing exclusively these kinds of goods, and the present report includes data from establishments in which are located 32 per cent of the cards and 35 per cent of the looms in establishments engaged in the exclusive manufacture of such goods.

The number of establishments from 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.....	16 identical establishments.
1903 and 1904.....	17 identical establishments.
1904 and 1905.....	27 identical establishments.
1905 and 1906.....	26 identical establishments.
1906 and 1907.....	29 identical establishments.
1907 to 1910.....	19 identical establishments.
1910 and 1911.....	27 identical establishments.
1911 and 1912.....	46 identical establishments.

The data for 1907 to 1911 were secured in 1911 and the number of establishments included for the period 1907 to 1910 was not quite so large as for the years immediately preceding, owing, as has already been explained, to the difficulty in finding establishments which had preserved complete records for those years, and to the great amount of work involved.

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 46, 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 establishments from which to secure data the Bureau undertook to represent all States in which woolen and worsted 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 2,500 or more employees in the industry, and one State having slightly 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 this industry as reported by 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 occu-

pations and for whom data were secured in 1912. Data were secured from the pay roll ending nearest May 15, except for two or three establishments for which the data are for the latter half of May.

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 of the various States, as measured by the number of employees in this industry, changed somewhat during the five years from 1905 to 1910; thus New Jersey ranked fourth in 1910 and fifth in 1905, and New Hampshire ranked fifth in 1910 and eighth in 1905.

TOTAL NUMBER OF EMPLOYEES IN WOOLEN AND WORSTED 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.
Massachusetts.....	52,564	43,151	13	18,473	7,977
Pennsylvania.....	26,669	23,703	(¹)	(¹)	(¹)
Rhode Island.....	24,924	21,610	5	5,727	2,384
Maine.....	8,553	8,743	11	2,190	1,162
New Jersey.....	12,394	8,700	3	5,909	1,645
Connecticut.....	7,526	7,429	4	890	462
New York.....	7,559	7,181	2	2,500	1,028
New Hampshire.....	9,486	6,581	7	6,342	2,197
Other States ²	13,517	14,900	1	1,473	650
Total.....	163,192	141,998	46	43,504	17,505

¹ Time worked by pieceworkers not a matter of record.

² Includes States having less than 2,500 each in 1910 and in 1905.

According to the census of 1905 and to the census of 1910, more than 90 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 in the establishments from which the Bureau secured 1912 data was equal to 26.7 per cent of the total in the industry in 1910, and the number for which the Bureau secured detailed information in 1912 was equal to 10.7 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 occupations included in 1912 in the Bureau's study of this industry are the following:

Burlers.	Menders.
Carding-machine tenders.	Spinners, frame.
Card strippers.	Spinners, mule.
Combers.	Twisters.
Dressers.	Weavers.
Laborers, dyehouse.	Wool sorters.
Loom fixers.	

Brief descriptions of the work done by employees in each of these occupations follow:

BURLERS.

Burlers remove the knots from cloth. A "cut of cloth," so called, is gradually pulled over the flat or slanting top of a burler's desk. As the knots are seen or found by the burler in passing her hands over the cloth she removes them with a "burling iron," which is a small, flat piece of steel about 6 inches long, bent double, allowing about an inch between the two ends, which are about half an inch wide and sharpened to fine edges. The burler can bring the ends together and release them at will. As the burler pulls the cloth over the desk it drops in folds on the floor in front of the desk. The burler works either standing or sitting, as she elects. The work is done by females and on either time or piece basis.

CARDING-MACHINE TENDERS.

Woolen cards (or carding machines) are a combination of three cylinders or three cards, "first breaker," "second breaker," and "finisher." Worsted cards are a combination of two cylinders or two cards, a first and a second breaker. The term carding-machine tenders embraces all occupations in carding outside of superintendent, overseer, second hand, card grinder, and card stripper. The names applied to the work done in connection with carding machines frequently differ from mill to mill. When the stock (that is, the raw wool) is fed by hand to an endless apron which carries it to the first breakers, the first card through which the stock goes, and to the second breakers, the second card through which the stock goes, the employee is called a "feeder." When an automatic machine is attached to the first breaker so as to draw the stock from the box of the automatic machine, the box being hand filled, the mechanism of the machine is such that the stock is weighed and evenly fed to the endless apron of the card. The employees who place the stock in the box of the automatic feeders are called "Bramwell feeds,"

taking their name from the manufacturer of the automatic machine. Wool stock comes through the first breaker in the form of a sliver or strand. Wound on a short wooden spool, this sliver is then fed into the second breaker, and the employee may be called a feeder, second feeder, or second breaker. Very little of this handwork is now done. Automatic machines are arranged to convey the sliver directly from the first breaker to the second breaker. Employees watch the sliver in passing from the first to the second breaker and mend it, if it break, by twisting the sliver together with their fingers. The employees doing this watching and mending, from the make of the automatic machine mentioned, are called "Apperley feeds." Sliver that is to become woolen yarn passes on to a third card known as a finisher or condenser. Sliver that is to be converted into worsted yarn does not go to the third card, being converted into worsted yarn by a combing and twisting process. Whether the roving is taken off the cards at the second (and last) worsted cards, or at the third (and last) woolen cards, it is removed on spools or in cans in the same general way, though the method varies somewhat from mill to mill. The sliver winds upon spools attached to the last card in a horizontal position. As the spool winds full an employee takes it off and puts an empty spool in its place to be filled. The employee doing this is called finisher, baller, or doffer. An automatic machine run in connection with a row of last cards, taking the sliver from each card and uniting it in one continuous sliver, conveying it to one end of the row of cards, and winding it upon a spool in the same manner as when wound direct from one card on a spool, constitutes, from the conveying process, what is called a "railway." An employee attending a railway must see that the sliver does not break, must twist it together by hand if it does break, take off the spool when it is wound full, and place an empty spool in its place.

Sliver from the last card of the set, woolen or worsted, by another process, runs through what is known as a "card head," and coils into a can. When the can is filled with the sliver it is removed and another put in its place. Employees having charge of the cans are called head feeds, heading tenders, and card ends.

Card boys are employed in some mills to clean up waste and assist employees in other occupations. Some class all carding occupations mentioned under the name of "carders" and others as "carding-machine tenders." The work is done by either males or females, generally males, and on a time basis.

CARD STRIPPERS.

The special duty of card strippers is to strip or clean the card clothing when it becomes clogged and produces a poor sliver. The card clothing of a carding machine consists of cotton cloth, enforced

with rubber facing, through which fine wires of tempered steel from $\frac{3}{8}$ to $1\frac{1}{4}$ inches in length are fixed at various pitches to catch and draw the wool through the rolls of the cards. Card stripping is done by males and on a time basis.

COMBERS (WORSTED OCCUPATION).

Combers place the wooden rolls on which the roving is wound on the combing machines. Eighteen rolls, "balls," as they are called, are provided for on most machines, places for the rolls being arranged so as to form a complete circle. The roving runs off the various rolls into a continuous strand which passes around a circle, where fine, metallic teeth comb the short fibers out of the strand. The short fibers, as they are combed, fall into a can, or drop through a hole in the floor under the combs to a conveyor, to be taken away as waste. This waste is known as "noils," and is combed out, as it can not be used in worsted goods. The long-fibered wool, with the short fibers combed out, comes from the combs in a long, continuous coil and feeds into tall, round cans, to be drawn or wound upon spools for spinning. Besides placing the spools on the comb and removing the empty spools, the comber watches the long-fiber strand to see that it does not break as it passes from the comb and coils into the can. Combers tend from one to two combs. The work is done by females and on a time basis.

DRESSERS.

Dressers "size" warp yarn by running it through a sizing solution of starch. The desired number of "ends" of yarn is run off spools onto wooden beams 32 to 40 inches long. From these beams the desired length of warp yarn required for a specified warp is drawn between rolls revolving in liquid starch and then between rolls to extract the surplus sizing. From the extractor rolls the yarn goes between and over a series of coils of steam-heated pipes varying in number, and in some cases over a drying cylinder to dry. It then goes through a separator to separate the strands and then is wound upon a beam. The dresser puts in place and removes the beams at both the front and the back of the sizer and he arranges the specified ends of yarn for dressing. The dresser may make the sizing solution, or an employee designated as size man or starch man may prepare it. Some mills buy their warp instead of making it, but all mills dress their warp whether they make or buy it. The work is done by males and on either a time or a piece basis.

LABORERS, DYEHOUSE.

Employees reported under this head are entered on the pay rolls as dyehouse laborers in some mills and in other mills as kettle men, pole men, vat men, reelers, and machine dyers. All get a laborer's

rate of pay, which varies a cent or two an hour between kettle men and pole men, reelers, and machine dyers. But one and all simply do common labor. All mills speak of them and consider them as laborers, or dyers, regardless of the pay-roll terms used. For the purpose of this investigation all are classed as "laborers, dyehouse." Kettle men place the cloth or wool to be dyed in a large copper kettle containing liquid dye, watch it revolve by automatic force inside the kettle, and take the material out when dyed as desired. Pole men and vat men place cloth or wool in wooden vats with liquid dye and move the material to be dyed about in the vat with long poles at short intervals and take it from the vats when dyed. A vat filled with liquid dye, with a large wooden reel or roll in a frame from 2 to 3 feet above the vat, with a similar reel at the bottom, constitutes a reel for dyeing. A reeler takes a cut or web of cloth, passes it over the reels and sews the ends together, forming an endless chain, and starts the machine, and the cloth passes around on the reels through the dye until it is properly colored, when the reeler removes the cloth from the reels. Machine dyers place cloth and wool in copper drums perforated at the sides and ends, and machine power revolves the drum through vats of liquid dye until the proper color of the material is secured. The operator then removes the material from the drums. In some years a mill manufactures less colored goods than in other years, so that the number of dyers employed varies from year to year according to the proportion of white and colored goods produced. The work is done by males and on a time basis.

LOOM FIXERS.

Loom fixers repair looms when any part of a loom breaks or the warp or filling runs bad through some defect of the machinery or because of improper speed. A loom fixer, besides being a machinist, must understand weaving. The work is done by males and on either a time or a piece basis.

MENDERS.

Menders, sometimes called sewers, take the cloth and handle it on a desk in the same manner as the burlers, examine it for broken threads or dropped threads, which they sew in with a needle and thread, and for torn places or imperfections, which they mend. Sewers stand or sit at their work, as they elect. The work is done by females and on either a time or a piece basis.

SPINNERS, FRAME.

Frame spinners operate a spinning machine called a spinning frame. Each frame has two sides to it. Spools containing roving are placed horizontally on both sides of the frame. Ends of the

roving strand are drawn through small metal rolls and attached to bobbins which are placed perpendicularly in a single row on spindles on each side of the frame, at a distance of approximately 3 feet from the roving spools, so that the roving spins from the roving spool to the bobbin on a downward incline. On an average there are 72 bobbins on each side of a frame. The machines on which frame spinning is done are placed in rows with passageways entirely around each. Each of the two sides of a spinning frame is known as a "side," and for operative purposes each side is virtually a separate machine. A spinner generally attends several sides. A frame spinner's duty is to place the roving spools on the frame and tie roving that breaks in spinning from the spools to the bobbin, so that it will wind upon the bobbins in a continuous even yarn. The bobbins are placed on the frames and taken off when full by doffers. Frame spinning is done largely by females and on a time basis.

SPINNERS, MULE.

The mule spinner operates a mule or a pair of spinning mules. The mules vary in length from 25 feet to 160 feet, the average length being approximately 80 feet. The number of spindles varies from 240 to 1,000, according to the yarn produced. Spools on which sliver has been wound at the cards, or, after it has been combed, are placed horizontally on a frame facing the mule carriage. The end of the strand of sliver from each spool is drawn through a set of small metal rolls, and between an upper and lower steel wire running the length of the carriage and is attached to bobbins placed perpendicularly on spindles on the mule carriage. The mule spinner starts the mule in operation by moving a clutch that controls the connection between the frame and the carriage. The carriage moves automatically outward from the frame from 5 to 7 feet, drawing out and twisting the sliver into yarn. Then the carriage automatically returns to the mule winding the yarn upon the bobbins. This drawing out and winding continue until the yarn is spun to the required quality. The mill management specifies the fineness of yarn desired in runs, numbers, or skeins—generally runs or numbers. A run in woolen spinning is 1,600 yards to 1 pound of wool; in worsted spinning a run called a number is 560 yards to 1 pound of wool; hence, if one-run yarn in woolen or No. 1 yarn in worsted is wanted, the spinner must know the distance the mule carriage draws away from the frame of the mule and other measurements necessary to the unit, and figures the number of times the carriage must pass from and to the frame to secure the unit desired. Each run or number is a multiple of the first run or number; thus two-run woolen yarn is 3,200 yards to 1 pound of wool and ten runs 16,000 yards to 1

pound of wool; No. 2 worsted yarn is 1,120 yards to 1 pound of wool and No. 10 worsted yarn 5,600 yards to 1 pound of wool. A fractional run or number is the proportion of the main unit, as two-and-one-fourth-run woolen yarn is 3,600 yards to 1 pound of wool, and No. $2\frac{1}{2}$ worsted yarn is 1,400 yards to a pound. The mule spinner's duties are to attend to running the mule and see that the desired run or number of yarn is produced; he is paid by the run or number of yarn spun, or pounds of wool spun, based on the run or number of yarn spun. A mule spinner in some mills pieces the sliver when it breaks by joining it by hand, or by placing it between the small metal rolls, if convenient, at the mule frame where it joins itself. In most of the mills there are boys who do the piecing work, and they are called piecers, creelers, or back boys. The spools with the sliver are put on the frames by boys and the bobbins or tops, on which the yarn is wound from spools to the spindles on the carriage, are also put on and taken off by boys. The former are called "roving hands," and the latter "doffers." In some mills older boys, or young men, do the roving work, the doffing work, and help the mule spinner to join the broken ends of sliver or yarn. In this case, they are called assistant mule spinners. The French system of spinning is spinning by mules, the same as already described, and, as the work and the wage scale are the same, the operators are classed as mule spinners. Jacks formerly were used in place of mules, but began to go out of use in 1874. The difference between a mule and a jack is that after the mule is once started, it works automatically until it is stopped; and the jack is operated by a spinner's turning a hand jack in the center of the carriage for the carriage to draw outward from the frame of the jack, walking backwards in advance of the carriage, and turning the hand jack back for the carriage to draw in or back to the frame, following the carriage in, and so on until the yarn is spun. The mule spinner walks back and forth, as the mule carriage draws out and in, but has no drawing or pushing to do. Mule spinning has nearly superseded jack spinning, and frame spinning in worsted is taking the place of mule spinning, as frame spinning machines do not take up as much room as mules, and the work can be done by boys and girls from 16 to 20 years of age. In woolen, frame spinning is not used, as the texture of the yarn that is desired can not be secured by frame spinning. The work is done by males and on either time or piece basis, but almost invariably a piece basis.

TWISTERS.

The yarn on what is termed a doubler's spool is run into two or more ply yarn or thread. A twisting machine can be regulated to make from 2 to 40 turns per inch. The yarn is twisted from the doubler's spools arranged in perpendicular rows on the top of the

machine to twister bobbins which are arranged in a lower corresponding perpendicular row. When the twister bobbins are wound full, the twister breaks the thread running from the doubler's spool to the bobbin and ties it to the frame that holds the bobbins, if the yarn is not all run off of the doubler's spool. When empty bobbins are placed on the frame again, he unties the yarn ends and attaches them to the bobbins, replacing the filled bobbins. When the twisting machine is in operation, the operator watches for broken yarn or thread and ties the ends together to secure a continuous thread for the bobbins. The work is done by either males or females, but generally by females, and on a time basis.

WEAVERS.

Weavers take bobbins wound with filling yarn from a bobbin box at the right side of their loom or looms and place them one at a time on a spindle inside of a wooden shuttle. They then draw the yarn through a hole in the side of the shuttle, "threading the shuttle," and place it in the shuttle box at the right of the loom, drawing the yarn through the shuttle hole, at a length sufficient to throw it between two harnesses of the loom containing the warp. The weaver then moves to the left a clutch located at the right, near the shuttle box, thus starting the loom in motion. A picker stick strikes the end of the shuttle, driving it with the bobbin through the warp and unwinding the yarn from the bobbin the length of its passage and passing the shuttle into a corresponding shuttle box at the left of the loom. It is then hit by another picker stick, which returns the shuttle to the first shuttle box, the yarn unwinding as before, the process continuing until the bobbin is emptied, when another bobbin is substituted by stopping and starting the loom, and so on. After the shuttle passes from the right to the left a warp harness drops down and a frame reaching the length of the loom with fine, small, perpendicular teeth through which the warp passes, presses up so that the side of the frame wire presses the filling yarn into place. Then a second warp harness drops down and the first harness comes up, the picker stick strikes the shuttle at the left of the loom, and the yarn from the bobbin passes through the warp, whose threads are thus crossed first above and then below the filling yarn and the frame with the fine teeth comes up and again presses the filling yarn into the web. The number of harnesses on a loom depends on the style or pattern of the cloth. Each time the filling yarn passes from one side of the loom to the other it is called a pick, hence starting from the right-hand shuttle box and going to the left-hand shuttle box and returning, two picks have been woven. If a filling or a warp yarn breaks, a drop wire stops the loom and the weaver ties the broken ends and again starts the loom. As the picks are formed in the warp (weaving the cloth),

the cloth winds upon a horizontal wooden roll at the bottom of the loom, and the cloth filling this roll or spool constitutes a cut. Woolen and worsted weavers are generally paid by the yard, and one of the important factors in fixing the piece price is the number of picks per inch. There are broad looms, three-quarter looms, and narrow looms. The width of a broad loom is approximately 110 inches; of a three-fourths loom, $72\frac{1}{2}$ inches; and of a narrow loom, 55 inches; but the width of the goods woven is considerably less, as, for instance, a double width may be 56 inches, and a single width 28 inches. Margins are allowed on each edge of the cloth to permit of its being trimmed or shrunk down to standard double and single widths, according to pattern widths. The width of looms varies considerably in different mills, and even in the same mill. Weavers on broad and three-quarter looms (there being few three-quarter looms) run from one to three looms, generally two. Narrow-loom weavers run from two to eight looms. Pattern weavers are not included in the weavers given, as they should not be classed with regular weavers, being employed to get out samples from which the buyers make selections and give their purchase orders. The work is done by either males or females, and on a piece basis.

WOOL SORTERS.

The wool is delivered in bags to the mills, each bag containing on an average 250 pounds of wool fleeces. The wool sorter opens a bag and takes out a portion of the fleeces, and lays them on the floor. Then, from the number of the fleeces taken out the sorter takes one fleece, and, standing up, shakes it over the floor to shake out the "belly wool" and "skirtings" (waste wool). Belly wool, as the name indicates, comes from the under part of the fleece, and skirtings from the hips and edges of the fleece. After shaking the fleece the sorter lays it on a table or bench near the bag from which the sorting is being done and picks or pulls off the loose ends which have not come off through the shaking process. Then, from his knowledge of wool, the sorter decides what grade of wool the fleece is, and places the fleece in a basket for that grade of wool. The work is almost invariably done by males, although in rare cases it is done by females. It is done on either a time or a piece basis.

EXPLANATION OF TABLES.

This report includes six general tables covering the 6-year period 1907 to 1912. Three of the general tables present data as to rates of wages per hour and three present data as to nominal full-time hours of work per week, as follows:

Table I.—Classified rates of wages per hour in the United States, by years, 1907 to 1912.

Table II.—Classified rates of wages per hour in each year, by States, 1907 to 1912.

Table III.—Classified rates of wages per hour in each State, by years, 1907 to 1912.

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

Table V.—Classified nominal full-time hours of work per week in each year, by States, 1907 to 1912.

Table VI.—Classified nominal full-time hours of work per week in each State, by years, 1907 to 1912.

Table I.—Classified rates of wages per hour in the United States, by years, 1907 to 1912 (pp. 132 to 137).—This table summarizes the data concerning rates of wages secured from the whole number of establishments furnishing information. For each of the principal occupations, burlers, carding-machine tenders, card strippers, combers, dressers, dyehouse laborers, loom fixers, menders, frame spinners, mule spinners, twistors, weavers, and wool sorters, data are shown, as far as available, for each of the six years, 1907 to 1912.

The table is divided into two sections, the first section showing the number and the second section the per cent of employees earning each classified rate of wages per hour. In addition to showing classified rates of wages, the table shows number of establishments from which data were secured, number of employees, average nominal hours per week, and average rate of wages per hour.

The rate of wages per hour was computed for each employee in the case of time workers, by dividing the daily or weekly rate by the number of hours per day or week; and in the case of pieceworkers and those working both as time workers and pieceworkers, by dividing the amount earned during the pay-roll period by the hours actually worked.

As previously stated, comparisons from year to year can be made only between identical establishments, and data in this table are presented for identical establishments in such a way as to make possible comparisons from year to year.

The relative nominal hours per week and the relative rates of wages per hour for 1907 to 1912, shown on pages 113 and 114, 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 burlers the average nominal hours per week in 18 establishments was 58.3 in 1907 and 58 in the same 18 establishments in 1908. The average hours (58) in 1908 was 99.49 per cent of the average (58.3) in 1907. Bulletin 77 (July, 1908) shows that, for nominal hours per week for burlers, the relative was 97.9 in 1907 (average for 1890–1899=100). The average nominal hours for 1908 were then reduced

to a comparison with the base period (average for 1890-1899=100) by computing 99.49 per cent of 97.9, which is 97.4. The same method was followed in computing the relative rates of wages per hour; the average in 1908 (\$0.1160) was 94.77 per cent of the average in 1907 (\$0.1224); the relative (average for 1890-1899=100) for 1907 as shown in Bulletin 77 was 136.7; and 94.77 per cent of 136.7 is 129.6, or the relative rate of wages per hour in 1908 if the average for 1890-1899 is the base, or 100. In computing for this occupation the relatives for 1911 comparison was made of the data from 26 identical establishments, and in computing the relatives for 1912 comparison was made of the data from 43 identical establishments.

Table II.—Classified rates of wages per hour in each year, by States, 1907 to 1912 (pp. 138 to 145).—This table affords an easy comparison of rates of wages per hour in the several States. It shows for each of the principal occupations the number of employees earning each classified rate of wages per hour. A few occupations shown in Table I do not appear in this table. Under each year, 1907 to 1912, or for such of these years as data are available, the data are shown for each of the States represented by any considerable number of employees. In addition to classified rates of wages, average rates of wages per hour and average nominal hours per week are shown.

Table III.—Classified rates of wages per hour in each State, by years, 1907 to 1912 (pp. 146 to 151).—This table affords an easy comparison of rates of wages per hour in the several years, 1907 to 1912. It shows for each of the principal occupations the number of employees earning each classified rate of wages per hour. A few occupations shown in Table I do not appear in this table. For each of the more important States in this industry, the data are shown for each of the six years, 1907 to 1912, or for such of those years as data are available. In addition to classified rates of wages, average rates of wages per hour and average nominal hours per week are shown.

Table IV.—Classified nominal full-time hours of work per week, in the United States, by years, 1907 to 1912 (pp. 152 to 156).—This table summarizes the data concerning nominal full-time hours of work per week secured from the whole number of establishments furnishing information. For each of the principal occupations, burlers, carding-machine tenders, card strippers, combers, dressers, dyehouse laborers, loom fixers, menders, frame spinners, mule spinners, twisters, weavers, and wool sorters, data are shown, as far as available, for each of the six years, 1907 to 1912. By nominal full-time hours per week is meant full time not excluding time lost by shutdown owing to temporary depression or other cause of a temporary nature.

The table is divided into two sections, the first section showing the number and the second the per cent of employees under each

classified number of nominal full-time working hours per week. In addition to showing classified nominal full-time hours, the table shows number of establishments from which data were secured, number of employees, and average nominal full-time hours per week.

In using this table, comparisons from year to year should be made of identical establishments. The data are so arranged that such comparisons are easily made.

Table V.—Classified nominal full-time hours of work per week in each year, by States, 1907 to 1912 (pp. 157 to 164).—This table affords an easy comparison of nominal full-time hours of work per week in the several States. It shows for each of the principal occupations the number of employees under each classified number of nominal full-time working hours per week. Under each year, 1907 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. In addition to classified nominal full-time hours, average nominal full-time hours per week are shown.

Table VI.—Classified nominal full-time hours of work per week in each State, by years, 1907 to 1912, (pp. 165 to 170).—This table affords an easy comparison of nominal full-time hours of work per week in the several years, 1907 to 1912. It shows for each of the principal occupations the number of employees under each classified number of nominal full-time working hours per week. For each of the more important States in this industry, the data are shown for each of the six years, 1907 to 1912, or for such of those years as data are available. In addition to classified nominal hours, average nominal full-time hours per week are shown.

TABLE I.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912.

WOOLEN AND WORSTED GOODS MANUFACTURING.

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

NUMBER.

Occupation, sex, and number of establishments.	Year.	Average nominal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour.															
				6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.				
Burlers, female:	18 establishments.	1907	611	58.3	\$0.1224	6	40	46	297	107	53	29	20	11	2				
		1908	494	58.0	.1160	3	39	22	255	114	38	14	6	3					
		1909	522	58.0	.1231	2	43	38	269	105	68	31	11	23	2				
		1910	598	56.9	.1238	1	19	34	286	113	93	23	18	11					
26 establishments.	1910	1,034	56.5	.1296	2	29	54	365	275	145	100	38	25	1					
	1911	1,010	56.6	.1273	6	27	68	345	320	118	76	29	20	1					
43 establishments.	1911	1,516	56.8	.1296	6	49	116	471	431	209	138	56	37	2	1				
	1912	1,471	55.9	.1472		12	47	148	640	191	173	100	145	14	1				
Carding-machine tenders, male:	19 establishments.	1907	145	58.6	.1255	1	3	10	27	80	24								
		1908	136	58.6	.1210		5	10	34	69	17	1							
		1909	134	58.4	.1237	1	3	5	31	73	21								
		1910	133	57.3	.1230		1	5	38	65	23	1							
26 establishments.	1910	201	56.9	.1274		1	5	49	98	46	1	1							
	1911	196	56.9	.1414		2	3	60	83	34	14								
40 establishments.	1911	320	57.1	.1357		2	5	115	122	63	13								
	1912	412	56.4	.1354			2	76	167	148	18	1							
Card strippers, male:	18 establishments.	1907	89	58.2	.1447				3	30	40	16							
		1908	79	58.1	.1449				1	31	36	10	1						
		1909	80	58.1	.1510					23	34	19	4						
		1910	88	57.7	.1512				1	23	41	18	4	1					
27 establishments.	1910	162	57.0	.1526				1	24	93	37	6	1						
	1911	155	56.9	.1531					20	92	34	8	1						
42 establishments.	1911	223	57.1	.1514				8	33	127	47	7	1						
	1912	240	56.9	.1634					4	79	137	13	7						
Combers, male:	4 establishments.	1907	52	58.5	.1330				1	36	15								
		1908	23	58.6	.1312					21	7	1							
		1909	29	58.6	.1371					19	10								
		1910	42	57.2	.1398					14	28								
6 establishments.	1910	106	56.5	.1393					58	48									
	1911	124	56.5	.1384				1	74	49									
9 establishments.	1911	188	56.5	.1405				11	108	50	19								
	1912	181	55.0	.1555					20	116	21	24							
Combers, female:	4 establishments.	1907	101	55.7	.0989	13	20	26	24	8	10								
		1908	117	55.8	.0986	2	30	34	32	19									
		1909	111	55.8	.1019		20	27	42	22									
		1910	110	55.4	.1103		9	15	66		20								
6 establishments.	1910	129	55.5	.1105		9	23	69	8	20									
	1911	118	55.4	.1086			14	90	11	3									
8 establishments.	1911	139	55.8	.1092			14	111	11	3									
	1912	150	55.8	.1157			13	99	23	15									
Dressers, male:	19 establishments.	1907	119	58.8	.2236					1	4	7	96	11					
		1908	97	58.4	.2254							2	10	72	13				
		1909	126	58.3	.2241							12	2	93	19				
		1910	126	57.9	.2282							8	1	98	19				
27 establishments.	1910	214	57.1	.2418							12	4	106	87	5				
	1911	215	57.1	.2394							15	8	99	90	3				

TABLE I.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

NUMBER—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour.														
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.			
Dressers, male—Con. 46 establishments.	1911	337	57.1	\$0.2429										15	10	152	155	5	
	1912	384	56.3	.2616											11	141	194	38	
Laborers, dyehouse, male: 19 establishments.	1907	434	58.1	.1439						177	237	19	1						
	1908	385	57.8	.1395						273	94	16	1		1				
	1909	514	57.9	.1366						367	118	25	2		2				
	1910	570	56.5	.1420						199	338	27	5		1				
27 establishments.	1910	837	56.3	.1430					1	305	436	88	6		1				
	1911	877	56.5	.1445					1	260	517	89	9		1				
45 establishments.	1911	1,116	56.6	.1452					1	360	573	170	11		1				
	1912	1,093	55.5	.1571					3	74	678	309	18		10		1		
Loom fixers, male: 19 establishments.	1907	223	58.0	.2668									1	2	51	155	14		
	1908	218	57.9	.2621									1	3	47	157	10		
	1909	242	58.1	.2629										4	41	186	11		
	1910	260	57.0	.2695									2	3	27	212	16		
27 establishments.	1910	429	56.6	.2787									2	3	27	326	71		
	1911	390	56.6	.2779									1	4	24	301	60		
46 establishments.	1911	569	56.7	.2752										3	98	357	111		
	1912	589	55.9	.3075											46	292	222	29	
Menders, female: 18 establishments.	1907	403	58.5	.1448			2	27	68	119	81	37	34	31		4			
	1908	341	58.4	.1481			3	8	22	71	61	57	39	35	10				
	1909	583	58.8	.1371			3	44	91	117	82	86	49	42	58	11			
	1910	498	58.0	.1479			1	14	44	125	81	58	30	82	43	16	4		
25 establishments.	1910	1,196	56.8	.1598			3	25	78	190	168	113	188	200	194	32	5		
	1911	1,115	56.9	.1591			1	13	52	179	149	165	168	227	140	16	5		
44 establishments.	1911	1,623	56.8	.1597			1	13	74	237	243	264	228	332	200	23	8		
	1912	1,668	55.7	.1890				4	27	120	144	180	184	284	572	124	27	2	
Spinners, frame, male: 2 establishments.	1910	114	56.0	.1252					66	30	17		1						
	1911	134	56.0	.1287					6	46	48	32	2						
3 establishments.	1911	194	56.0	.1316					6	53	64	60	2						
	1912	244	54.0	.1580						7	202	35							
Spinners, frame, female: 5 establishments.	1907	323	57.6	.1272			12	3	116	77	115								
	1908	284	57.5	.1224			4	4	90	186									
	1909	295	57.5	.1241			6	2	59	228									
	1910	286	56.0	.1278			1		53	193	39								
8 establishments.	1910	578	56.0	.1223			9	22	269	239	39								
	1911	683	56.0	.1272				4	206	395	75	3							
10 establishments.	1911	1,002	56.4	.1255				10	390	469	130	3							
	1912	1,070	55.2	.1439				15	36	365	564	90							
Spinners, mule, male: 19 establishments.	1907	384	58.6	.2190						3	10	41	73	173	78	3			
	1908	267	58.2	.2152						4	7	15	24	48	99	67	3		
	1909	297	58.2	.2226						3	10	42	47	100	89	5	1		
	1910	320	57.5	.2227						1	1	8	27	59	132	87	5		
26 establishments.	1910	529	57.0	.2242					2	2	12	43	81	248	133	8			
	1911	454	56.9	.2312					1	2	5	30	53	212	135	16			
40 establishments.	1911	638	57.3	.2238					1	3	11	55	95	335	118	20			
	1912	719	56.5	.2418						2	5	38	75	300	245	54			

TABLE I.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

NUMBER—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour.															
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.				
Twisters, female:																				
7 establishments..	1907	186	57.2	\$0.1119	12	7	120	34	13											
	1908	138	57.6	.1130	4		75	53	6											
	1909	223	58.0	.1123	11	1	5	123	69	11	3									
	1910	216	57.2	.1142	23		5	99	67	14	2	3								
10 establishments.	1910	332	56.9	.1231	23		5	156	90	23	2	3	30							
	1911	342	56.8	.1241			1	148	149	23	7	7	7							
12 establishments.	1911	600	56.7	.1308		2	5	190	160	205	18	10	9	1						
	1912	751	55.7	.1374			11	162	175	352	44	6	1							
Weavers, male:																				
19 establishments.	1907	1,653	58.5	.2027		4	10	70	82	148	221	281	588	185	60	4				
	1908	1,409	58.6	.1955	2	6	9	38	101	177	208	254	445	120	43	6				
	1909	1,589	58.6	.1994	4	5	9	62	113	193	213	247	497	172	68	6				
	1910	1,716	57.8	.1985		1	4	25	79	175	288	393	562	160	27	2				
27 establishments.	1910	2,907	57.1	.2068		3	10	52	124	249	443	552	956	393	117	8				
	1911	2,563	57.1	.2096		6	14	48	102	248	352	383	834	471	101	4				
46 establishments.	1911	4,049	57.1	.2099		8	27	85	170	358	509	619	1,411	703	154	5				
	1912	4,476	56.3	.2367		2	6	50	104	202	336	474	1,528	1,184	574	16				
Weavers, female:																				
19 establishments.	1907	1,873	58.0	.1875		4	13	72	148	225	300	419	572	109	11					
	1908	1,882	57.7	.1663		14	18	174	256	370	402	312	305	27	3	1				
	1909	1,807	57.6	.1660	4	11	36	215	252	302	362	274	298	38	15					
	1910	2,116	56.4	.1739	4	7	49	168	234	311	364	428	494	44	11	2				
27 establishments.	1910	2,855	56.3	.1799	6	8	54	200	293	387	489	542	704	131	39	2				
	1911	2,366	56.4	.1780		7	18	188	255	379	435	402	540	121	20	1				
46 establishments.	1911	3,384	56.8	.1843		7	40	267	420	553	557	518	788	195	38	1				
	1912	3,586	55.9	.2057			41	130	175	317	505	595	1,135	496	190	2				
Wool sorters, male:																				
11 establishments.	1907	184	58.0	.2330					3	5	6	14	82	71	3					
	1908	164	57.8	.2233						1	8	16	12	111	16					
	1909	186	57.9	.2393							2	1	5	117	61					
	1910	193	56.5	.2464					1		7	1	6	47	125	6				
18 establishments.	1910	289	56.3	.2465				2		10	1	8	63	198	7					
	1911	335	56.3	.2494						6	2	3	77	243	4					
19 establishments.	1911	444	56.4	.2405						5	33	16	128	258	4					
	1912	471	55.2	.2666								21	82	346	22					

PER CENT.

Burlers, female:																	
18 establishments.	1907	611	58.3	\$0.1224	1.0	6.5	7.5	48.6	17.5	8.7	4.7	3.3	1.8	0.3			
	1908	494	58.0	.1160	.6	7.9	4.5	51.6	23.1	7.7	2.8	1.2	.6				
	1909	582	58.0	.1231	.3	7.4	6.5	44.5	18.0	11.7	5.3	1.9	4.0	.3			
	1910	598	56.9	.1238	.2	3.2	5.7	47.8	18.9	15.6	3.8	3.0	1.8				
26 establishments.	1910	1,034	56.5	.1296	.2	2.8	5.2	35.3	26.6	14.0	9.7	3.7	2.4	.1			
	1911	1,010	56.6	.1273	.6	4.7	6.7	34.2	31.7	11.7	7.5	2.9	2.0	.1			
43 establishments.	1911	1,516	56.8	.1296	.4	3.2	7.7	31.1	28.4	13.8	9.1	3.7	2.4	.1	0.1		
	1912	1,471	55.9	.1472		.8	3.2	10.1	43.5	13.0	11.8	6.8	9.9	1.0	.1		
Carding-machine tenders, male:																	
19 establishments.	1907	145	58.6	.1255	.7	2.1	6.9	18.6	55.2	16.6							
	1908	136	58.6	.1210		3.8	7.4	25.0	50.7	12.5	.7						
	1909	134	58.4	.1237	.7	2.2	3.7	23.1	54.5	15.7							
	1910	133	57.3	.1250		.8	3.8	28.6	48.9	17.3	.8						
26 establishments.	1910	201	56.9	.1274		.5	2.5	24.4	48.8	22.9	.5	.5					
	1911	196	56.9	.1414		1.0	1.5	30.6	42.3	17.3	7.1						
40 establishments.	1911	320	57.1	.1357		.6	1.6	35.9	38.1	19.7	4.1						
	1912	412	56.4	.1354			5.1	48.4	40.5	35.9	4.4	.2					

TABLE I.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

PER CENT—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour.																
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.					
Card strippers, male:																					
18 establishments.	1907	89	58.2	\$0.1447				3.4	33.7	44.9	18.0										
	1908	79	58.1	.1449				1.3	39.2	45.6	12.7	1.3									
	1909	80	58.1	.1510					28.8	42.5	23.8	5.0									
	1910	88	57.7	.1512			1.1	26.1	46.6	20.5	4.5	1.1									
27 establishments.	1910	162	57.0	.1526				.6	14.8	57.4	22.8	3.7	.6								
	1911	155	56.9	.1531					12.9	59.4	21.9	5.2	.6								
42 establishments.	1911	223	57.1	.1514				3.6	14.8	57.0	21.1	3.1	.4								
	1912	240	56.9	.1634					1.7	32.9	37.1	5.4	2.9								
Combers, male:																					
4 establishments.	1907	52	58.5	.1330			1.9	69.2	28.8												
	1908	29	58.6	.1312				72.4	24.1	3.4											
	1909	29	58.6	.1371				65.5	34.5												
	1910	42	57.2	.1398				33.3	66.7												
6 establishments.	1910	106	56.5	.1393				54.7	45.3												
	1911	124	56.5	.1384				8	59.7	39.5											
9 establishments.	1911	188	56.5	.1405			5.9	57.4	26.6	10.1											
	1912	181	55.0	.1555				11.0	64.1	11.6	13.3										
Combers, female:																					
4 establishments.	1907	101	55.7	.0989	12.9	19.8	25.7	23.8	7.9	9.9											
	1908	117	55.8	.0986	1.7	25.6	29.1	27.4	16.2												
	1909	111	55.8	.1019		18.0	24.3	37.8	19.8												
	1910	110	55.4	.1103		8.2	13.6	60.0		18.2											
6 establishments.	1910	129	55.5	.1105		7.0	17.8	53.5	6.2	15.5											
	1911	118	55.4	.1086			11.9	76.3	9.3	2.5											
8 establishments.	1911	139	55.8	.1092			10.1	79.9	7.9	2.2											
	1912	150	55.8	.1157				8.7	66.0	15.3	10.0										
Dressers, male:																					
19 establishments.	1907	119	58.8	.2236						.8	3.4	5.9	80.7	9.2							
	1908	97	58.4	.2254							2.1	10.3	74.2	13.4							
	1909	126	58.3	.2241							9.5	1.6	73.8	15.1							
	1910	126	57.9	.2282							6.3	.8	77.8	15.1							
27 establishments.	1910	214	57.1	.2418							5.6	1.9	49.5	40.7	2.3						
	1911	215	57.1	.2394							7.0	3.7	46.0	41.9	1.4						
46 establishments.	1911	337	57.1	.2429							4.5	3.0	45.1	46.0	1.5						
	1912	384	56.3	.2616								2.9	36.7	50.5	9.9						
Laborers, dyehouse, male:																					
19 establishments.	1907	434	58.1	.1439					40.8	54.6	4.4	.2									
	1908	385	57.8	.1395					70.9	24.4	4.2	.3	.3								
	1909	514	57.9	.1366					71.4	23.0	4.9	.4	.4								
	1910	570	56.5	.1420					34.9	59.3	4.7	.9	.2								
27 establishments.	1910	837	56.3	.1430					136.4	52.1	10.5	.7	.1								
	1911	877	56.5	.1445					129.6	59.0	10.1	1.0	.1								
45 establishments.	1911	1,116	56.6	.1452					132.3	51.3	15.2	1.0	.1								
	1912	1,093	55.5	.1571					.3	6.8	62.0	28.3	1.6	.9	.1						
Loom fixers, male:																					
19 establishments.	1907	223	58.0	.2668								.4	.9	22.9	69.5	6.3					
	1908	218	57.9	.2621								.5	1.4	21.6	72.0	4.6					
	1909	242	58.1	.2629								1.7	16.9	76.9	4.5						
	1910	260	57.0	.2695								.8	1.2	10.4	81.5	6.2					
27 establishments.	1910	429	56.6	.2787								.5	.7	6.3	76.0	16.6					
	1911	390	56.6	.2779								.3	1.0	6.2	77.2	15.4					
46 establishments.	1911	569	56.7	.2752									.5	17.2	62.7	19.5					
	1912	589	55.9	.3075										7.8	49.6	37.7	4.9				

TABLE I.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.
PER CENT—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour															
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.				
Menders, female:	1907	403	58.5	\$0.1448	0.5	6.7	16.9	29.5	20.1	9.2	8.4	7.7	1.0							
	1908	341	58.4	.1481	0.9	2.3	6.5	20.8	17.9	16.7	11.4	10.3	2.9							
	1909	583	58.8	.1371	.5	7.5	15.6	20.1	14.1	14.8	8.4	7.2	9.9	1.9						
	1910	498	58.0	.1479	.2	2.8	8.8	25.1	16.3	11.6	6.0	16.5	8.6	3.2	0.8					
25 establishments.	1910	1,196	56.8	.1598	.3	2.1	6.5	15.9	14.0	9.4	15.7	16.7	16.2	2.7	.4					
	1911	1,115	56.9	.1591	.1	1.2	4.7	16.1	13.4	14.8	15.1	20.4	12.6	1.4	.4					
44 establishments.	1911	1,623	56.8	.1597	.1	.8	4.6	14.6	15.0	16.3	14.0	20.5	12.3	1.4	.5					
	1912	1,668	55.7	.1890		.2	1.6	7.2	8.6	10.8	11.0	17.0	34.3	7.4	1.6	0.1				
Spinners, frame, male:	1910	114	56.0	.1252				57.9	26.3	14.9		.9								
	1911	134	56.0	.1287				4.5	34.3	35.8	23.9	1.5								
3 establishments.	1911	194	56.0	.1316				3.1	27.3	33.0	35.6	1.0								
	1912	244	54.0	.1580						2.9	8.2	14.3								
Spinners, frame, female:	1907	323	57.6	.1272	3.7	.9	35.9	23.8	35.6											
	1908	284	57.5	.1224	1.4	1.4	31.7	65.5												
	1909	295	57.5	.1241	2.0	.7	20.0	77.3												
	1910	286	56.0	.1278	3	.3	18.5	67.5	13.6											
8 establishments.	1910	578	56.0	.1223	1.6	3.8	46.5	41.3	6.7											
	1911	683	56.0	.1272		.6	30.2	57.8	11.0	.4										
10 establishments.	1911	1,002	56.4	.1255			1.0	38.9	46.8	13.0	.3									
	1912	1,070	55.2	.1439			1.4	3.4	34.1	52.7	8.4									
Spinners, mule, male:	1907	354	58.6	.2190			.8	8	2.6	10.7	19.0	45.1	20.3	.8						
	1908	267	58.2	.2152				1.5	2.6	5.6	9.0	18.0	37.1	25.1	1.1					
	1909	297	58.2	.2226					1.0	3.4	14.1	15.8	33.7	30.0	1.7	.3				
	1910	320	57.5	.2227				.3	3	2.5	8.4	18.4	41.3	27.2	1.6					
26 establishments.	1910	529	57.0	.2242				.4	4	2.3	8.1	15.3	46.9	25.1	1.5					
	1911	454	56.9	.2312				.2	4	1.1	6.6	11.7	46.7	29.7	3.5					
40 establishments.	1911	638	57.3	.2238				.2	5	1.7	8.6	14.9	52.5	18.5	3.1					
	1912	719	56.5	.2418						.3	7.5	10.4	41.7	34.1	7.5					
Twisters, female:	1907	186	57.2	.1119	6.5	3.8	64.5	18.3	7.0											
	1908	138	57.6	.1136	2.9		54.3	38.4	4.3											
	1909	223	58.0	.1123	4.9	.4	2.2	55.2	30.9	4.9	1.3									
	1910	216	57.2	.1142	10.6		2.3	45.8	31.0	6.5	.9	1.4	1.4							
10 establishments.	1910	332	56.9	.1231	6.9		1.5	47.0	27.1	6.9	.6	.9	9.0							
	1911	342	56.8	.1241			.3	43.3	43.6	6.7	2.0	2.0	2.0							
12 establishments.	1911	600	56.7	.1308	3	.8	31.7	26.7	34.2	3.0	1.7	1.5	.2							
	1912	751	55.7	.1374			1.5	21.6	23.3	46.9	5.9	.9	.1							
Weavers, male:	1907	1,653	58.5	.2027		.2	.6	4.2	5.0	9.0	13.4	17.0	35.6	11.2	3.6	.2				
	1908	1,409	58.6	.1955	.1	.4	.6	2.7	7.2	12.6	14.8	18.0	31.6	8.5	3.1	.4				
	1909	1,589	58.6	.1994	.3	.3	.6	3.9	7.1	12.1	13.4	15.5	31.3	10.8	4.3	.4				
	1910	1,716	57.8	.1985		.1	.2	1.5	4.6	10.2	16.8	22.9	32.8	9.3	1.6	.1				
27 establishments.	1910	2,907	57.1	.2068		.1	.3	1.8	4.3	8.6	15.2	19.0	32.9	13.5	4.0	.3				
	1911	2,563	57.1	.2096		.2	.5	1.9	4.0	9.7	13.7	14.9	32.5	13.4	3.9	.2				
46 establishments.	1911	4,049	57.1	.2099		.2	.7	2.1	4.2	8.8	12.6	15.3	34.8	17.4	3.8	.1				
	1912	4,476	56.3	.2367		(1)	.1	1.1	2.3	4.5	7.5	10.6	34.1	26.5	12.8	.3				
Weavers, female:	1907	1,873	58.0	.1875		.2	.7	3.8	7.9	12.0	16.0	22.4	30.5	5.8	.6					
	1908	1,882	57.7	.1663		.7	1.0	9.2	13.6	19.7	21.4	16.6	16.2	1.4	.2	.1				
	1909	1,807	57.6	.1660	.2	.6	2.0	11.9	13.9	16.7	20.0	15.2	16.5	2.1	.8					
	1910	2,116	56.4	.1739	.2	.3	2.3	7.9	11.1	14.7	17.2	20.2	23.3	2.1	.5	.1				
27 establishments.	1910	2,855	56.3	.1799	.2	.3	1.9	7.0	10.3	13.6	17.1	19.0	24.7	4.6	1.4	.1				
	1911	2,366	56.4	.1780		.3	.8	7.9	10.8	16.0	18.4	17.0	22.8	5.1	.8	(1)				
46 establishments.	1911	3,384	56.8	.1843		.2	1.2	7.9	12.4	16.3	16.5	15.3	23.3	5.8	1.1	(1)				
	1912	3,586	55.9	.2057			1.1	3.6	4.9	8.8	14.1	16.6	31.7	13.8	5.3	.1				

(1) Less than one-tenth of 1 per cent.

TABLE I.—CLASSIFIED RATES OF WAGES PER HOUR IN THE UNITED STATES, BY YEARS, 1907 TO 1912—Concluded.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

PER CENT—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Employees earning each classified rate of wages per hour.													
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.		
					Wool sorters, male:													
11 establishments.	{1907	184	58.0	\$0.2330						1.6	2.7	3.3	7.6	44.6	38.6	1.6		
	{1908	164	57.8	.2233						.6	4.9	9.8	7.3	67.7	9.8			
	{1909	186	57.9	.2393						1.1	.5	2.7	62.9	32.8				
	{1910	193	56.5	.2464				0.5		3.6	.5	3.1	24.4	64.8	3.1			
18 establishments.	{1910	289	56.3	.2465				.7		3.5	.3	2.8	21.8	68.5	2.4			
	{1911	335	56.3	.2494						1.8	.6	.9	23.0	72.5	1.2			
19 establishments.	{1911	444	56.4	.2405						1.1	7.4	3.6	28.8	58.1	.9			
	{1912	471	55.2	.2666								4.5	17.4	73.5	4.7			

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

BURLERS: Female.

Year and State.	Number of establishments.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees each classified rate of wages per hour.													
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.		
1907.																		
Massachusetts.....	3	175	58.0	\$0.1170			11	135	28		1							
New York.....	2	75	60.0	.1379	1	4	2	18	21	13	5	7	2	2				
Rhode Island.....	3	145	58.0	.1321			14	38	35	36	18	2	2					
Other States.....	10	216	58.2	.1150	5	36	19	106	23	4	5	11	7					
Total.....	18	611	58.3	.1224	6	40	46	297	107	53	29	20	11	2				
1908.																		
Massachusetts.....	3	187	58.0	.1088			6	162	19									
New York.....	2	48	60.0	.1271	1		2	13	21	8	3							
Rhode Island.....	3	99	58.0	.1304		8	6	57	22	5	1							
Other States.....	10	160	57.4	.1123	2	31	14	74	17	8	6	5	3					
Total.....	18	494	58.0	.1160	3	39	22	255	114	38	14	6	3					
1909.																		
Massachusetts.....	3	216	58.0	.1112			4	166	46									
New York.....	2	70	60.0	.1699		3	9	11	9	6	8	21	2					
Rhode Island.....	3	104	58.0	.1304		13	2	12	29	45	3							
Other States.....	10	192	57.3	.1156	2	29	29	72	19	14	22	3	2					
Total.....	18	582	58.0	.1231	2	43	38	259	105	68	31	11	23	2				
1910.																		
Massachusetts.....	7	496	56.0	.1259			4	228	181	35	34	8	6					
New Jersey.....	2	144	55.5	.1153	1	16	27	52	24	12	7	3	1	1				
New York.....	2	67	60.0	.1631			6	10	14	16	14	7						
Rhode Island.....	5	199	56.0	.1444		3	2	37	36	66	37	11	7					
Other States.....	10	128	58.5	.1199	1	10	21	42	24	18	6	2	4					
Total.....	26	1,034	56.5	.1296	2	29	54	365	275	145	100	38	25	1				
1911.																		
Massachusetts.....	11	695	56.0	.1304		12	19	234	252	79	56	29	13	1				
New Hampshire.....	6	257	57.9	.1259		6	16	105	59	46	20	4	1					
New Jersey.....	3	158	55.9	.1157		10	23	73	21	21	9	1						
New York.....	2	78	60.0	.1378			5	20	21	12	16	3	1					
Rhode Island.....	5	165	56.0	.1590		1	4	52	44	26	15	21	1	1				
Other States.....	16	163	58.7	.1116	6	20	53	35	26	7	11	4	1					
Total.....	43	1,516	56.8	.1296	6	49	116	471	431	209	138	56	37	2	1			
1912.																		
Massachusetts.....	11	712	54.0	.1483		2	5	40	394	91	66	43	60	11				
New Hampshire.....	6	253	58.0	.1334		3	2	4	205	9	16	9	5					
New Jersey.....	3	107	56.8	.1265		4	16	41	13	13	11	3	5	1				
New York.....	2	85	60.0	.1738			3	7	6	14	10	13	32					
Rhode Island.....	5	186	56.0	.1761			2	2	7	50	57	27	38	2	1			
Other States.....	16	128	58.3	.1266		3	19	54	15	14	13	5	5					
Total.....	43	1,471	55.9	.1472		12	47	148	640	191	173	100	145	14	1			

DRESSERS: Male.

1911.															
Massachusetts.....	13	123	56.1	\$0.2556							4	1	32	81	5
Rhode Island.....	5	58	56.0	.2651								1	10	47	
Other States.....	28	156	58.2	.2249							11	8	110	27	
Total.....	46	337	57.1	.2429							15	10	152	155	5

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

DRESSERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.											
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.
1912.																
Massachusetts.....	13	154	54.6	\$0.2775									2	19	104	29
Rhode Island.....	5	71	56.0	.2800										11	60	
Other States.....	28	159	58.0	.2380									9	111	30	9
Total.....	46	384	56.3	.2616									11	141	194	38

LABORERS, DYEHOUSE: Male.

1907.																
Massachusetts.....	4	173	58.0	\$0.1516						5	168					
Rhode Island.....	3	90	58.0	.1356						79	11					
Other States.....	12	171	58.3	.1404						93	58	19	1			
Total.....	19	434	58.1	.1439						177	237	19	1			
1908.																
Massachusetts.....	4	125	58.0	.1388						115	10					
Rhode Island.....	3	101	58.0	.1354						88	12		1			
Other States.....	12	159	57.6	.1426						70	72	16			1	
Total.....	19	385	57.8	.1395						273	94	16	1	1		
1909.																
Massachusetts.....	4	117	58.0	.1396						100	17					
Rhode Island.....	3	166	58.0	.1290						152	13		1			
Other States.....	12	231	57.9	.1406						115	88	25	1	2		
Total.....	19	514	57.9	.1366						367	118	25	2	2		
1910.																
Massachusetts.....	8	349	56.0	.1437						106	214	29				
New Jersey.....	2	107	55.3	.1515					1	14	60	25	6		1	
Rhode Island.....	5	252	56.0	.1401						126	96	30				
Other States.....	12	129	58.9	.1400						59	66	4				
Total.....	27	837	56.3	.1430					1	305	436	88	6	1		
1911.																
Massachusetts.....	13	560	56.0	.1440						175	327	58				
New Hampshire.....	7	94	57.9	.1496						32	17	45				
New Jersey.....	3	111	55.6	.1546					1	13	59	27	10	1		
Rhode Island.....	5	169	56.0	.1461						55	80	33	1			
Other States.....	17	182	59.1	.1403						85	90	7				
Total.....	45	1,116	56.6	.1452					1	360	573	170	11	1		
1912.																
Massachusetts.....	13	627	54.2	.1572						36	443	142	6			
New Hampshire.....	7	96	57.8	.1641						1	36	57	1			1
New Jersey.....	3	88	55.1	.1628					2	2	24	43	8	9		
Rhode Island.....	5	112	56.0	.1566					1	6	68	33	3	1		
Other States.....	17	170	58.9	.1502						29	107	34				
Total.....	45	1,093	55.5	.1571					3	74	678	309	18	10	1	

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

LOOM FIXERS: Male.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.													
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.		
1907.																		
Massachusetts.....	4	57	58.0	\$.2739									1	3	53			
Rhode Island.....	3	70	58.0	.2682									1	8	61			
Other States.....	12	96	58.1	.2631									1	40	41	14		
Total.....	19	223	58.0	.2668									1	2	51	155	14	
1908.																		
Massachusetts.....	4	58	58.0	.2570									1	2	55			
Rhode Island.....	3	74	58.0	.2706									1	4	68			
Other States.....	12	86	57.7	.2582									1	41	34	10		
Total.....	19	218	57.9	.2621									1	3	47	157	10	
1909.																		
Massachusetts.....	4	68	58.0	.2571									1	1	66			
Rhode Island.....	3	68	58.0	.2710									1	4	63			
Other States.....	12	106	58.2	.2615									2	36	57	11		
Total.....	19	242	58.1	.2629									4	41	186	11		
1910.																		
Massachusetts.....	8	197	56.0	.2763										2	184	11		
Rhode Island.....	5	95	56.0	.2959									1	4	58	31		
Other States.....	14	137	57.9	.2703									1	2	21	84	29	
Total.....	27	429	56.6	.2787									2	3	27	326	71	
1911.																		
Massachusetts.....	13	259	56.0	.2831										4	210	45		
New Hampshire.....	7	83	57.9	.2317										69	14			
Rhode Island.....	5	85	56.0	.3001										1	54	30		
Other States.....	21	142	57.8	.2714										3	24	79	36	
Total.....	46	569	56.7	.2752										3	98	357	111	
1912.																		
Massachusetts.....	13	253	54.2	.3257										2	125	112	14	
New Hampshire.....	7	76	57.9	.2559										17	58	1		
Rhode Island.....	5	89	56.0	.3196											30	59		
Other States.....	21	171	57.3	.2971											27	79	50	15
Total.....	46	589	55.9	.3075										46	292	222	29	

MENDERS: Female.

1910.																
Massachusetts.....	8	441	56.0	\$.1772			2	15	43	55	27	48	101	135	15	
New Jersey.....	2	143	55.5	.1153	1		14	28	52	23	12	7	3	2		1
New York.....	2	129	60.0	.1665			1	5	25	18	14	14	18	21	11	2
Rhode Island.....	5	284	56.0	.1599	2		1	12	31	36	27	109	44	18	2	2
Other States.....	8	199	58.8	.1474			7	18	39	36	33	10	34	18	4	
Total.....	25	1,196	56.8	.1598	3		25	78	190	168	113	188	200	194	32	5
1911.																
Maine.....	10	107	58.0	.1368					11	41	54	1				
Massachusetts.....	13	802	56.0	.1649			3	36	92	117	99	101	240	105	7	2
New Jersey.....	3	160	55.9	.1320	1		10	21	64	13	13	12	7	15	2	2
New York.....	2	144	60.0	.1675				7	23	20	25	18	13	26	10	2
Rhode Island.....	5	238	56.0	.1750					11	20	35	76	55	36	4	1
Other States.....	11	172	59.0	.1473				10	36	32	38	20	17	18		1
Total.....	44	1,623	56.8	.1597	1		13	74	237	243	264	228	332	200	23	8

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

MENDEES: Female—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.																							
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.												
1912.																												
Maine.....	10	105	58.0	\$0.1434				2	52	35	16																	
Massachusetts.....	13	892	54.0	.1981			6	47	50	74	85	168	371	72	18	1												
New Jersey.....	3	113	56.7	.1525		4	16	39	11	6	4	6	5	19	3													
New York.....	2	164	60.0	.2009				20	6	15	18	16	59	24	5	1												
Rhode Island.....	5	277	56.0	.1889			5	11	19	26	34	70	103	8	1													
Other States.....	11	117	58.6	.1792				1	6	24	27	24	34	1														
Total.....	44	1,668	55.7	.1890		4	27	120	144	180	184	284	572	124	27	2												

SPINNERS, FRAME: Male.

1910.																											
Massachusetts.....	2	114	56.0	\$0.1252				66	30	17		1															
1911.																											
Massachusetts.....	3	194	56.0	.1316			6	53	64	69	2																
1912.																											
Massachusetts.....	3	244	54.0	.1580					7	202	35																

SPINNERS, FRAME: Female.

1907.																											
Rhode Island.....	2	141	58.0	\$0.1186		12	2	76	51																		
Other States.....	3	182	57.4	.1339			1	40	26	115																	
Total.....	5	323	57.6	.1272		12	3	116	77	115																	
1908.																											
Rhode Island.....	2	120	58.0	.1256		4	1	14	101																		
Other States.....	3	164	57.1	.1201			3	76	85																		
Total.....	5	284	57.5	.1224		4	4	90	186																		
1909.																											
Rhode Island.....	2	127	58.0	.1242		6	2	13	106																		
Other States.....	3	168	57.1	.1240				46	122																		
Total.....	5	295	57.5	.1241		6	2	59	228																		
1910.																											
Massachusetts.....	2	325	56.0	.1235			1	214	71	39																	
Rhode Island.....	3	146	56.0	.1287			1	2	143																		
Other States.....	3	107	56.1	.1100		8	21	53	25																		
Total.....	8	578	56.0	.1223		9	22	269	239	39																	
1911.																											
Massachusetts.....	3	536	56.0	.1309				177	228	128	3																
New Jersey.....	2	82	55.3	.1160			4	48	30																		
Rhode Island.....	3	183	56.0	.1303				5	176	2																	
Other States.....	2	201	58.1	.1108			6	160	35																		
Total.....	10	1,002	56.4	.1255			10	390	469	130	3																
1912.																											
Massachusetts.....	3	567	54.0	.1568				1	12	464	90																
New Jersey.....	2	114	55.2	.1218			15	16	81	2																	
Rhode Island.....	3	231	56.0	.1361				7	129	95																	
Other States.....	2	158	58.1	.1247				12	143	3																	
Total.....	10	1,070	55.2	.1439			15	36	365	564	90																

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

SPINNERS, MULE: Male.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.
1907.															
Massachusetts.....	4	48	58.0	\$0.2421								2	30	15	1
New Hampshire.....	3	65	58.6	.1994				2	2	4	8	15	30	4	
Rhode Island.....	3	49	58.0	.2280							11	4	15	19	
Other States.....	9	222	58.9	.2179				1	1	6	22	52	98	40	2
Total.....	19	384	58.6	.2190				3	3	10	41	73	173	78	3
1908.															
Massachusetts.....	4	39	58.0	.2176						1	4	9	18	6	1
New Hampshire.....	3	44	58.0	.1849				3	6	7	7	2	16	2	1
Rhode Island.....	3	22	58.0	.2347							3	1	5	13	
Other States.....	9	162	58.4	.2202				1	1	7	10	36	60	46	1
Total.....	19	267	58.2	.2152				4	7	15	24	48	99	67	3
1909.															
Massachusetts.....	4	44	58.0	.2324							1	2	30	11	
New Hampshire.....	3	55	58.0	.2010						4	10	21	12	7	1
Rhode Island.....	3	17	58.0	.2151							4	1	9	3	
Other States.....	9	181	58.4	.2276						3	6	27	23	49	68
Total.....	19	297	58.2	.2226						3	10	42	47	100	89
1910.															
Massachusetts.....	8	201	56.0	.2326				1	1	4	8	17	112	55	3
New Hampshire.....	3	71	58.0	.2177						2	3	20	35	9	2
Rhode Island.....	4	49	56.0	.2383							1	1	32	14	
Other States.....	11	208	57.8	.2150				1	1	6	31	43	69	55	2
Total.....	26	529	57.0	.2242				2	2	12	43	81	248	133	8
1911.															
Maine.....	11	117	58.0	.2106						5	7	30	70	5	
Massachusetts.....	11	262	56.0	.2348				1	2	1	8	26	138	79	7
New Hampshire.....	7	94	58.0	.2110					1	4	18	23	33	7	8
Rhode Island.....	4	51	56.0	.2217						1	5	3	35	7	
Other States.....	7	114	59.0	.2234							17	13	59	20	5
Total.....	40	638	57.3	.2238				1	3	11	55	95	335	118	20
1912.															
Maine.....	11	139	58.0	.2251						1	12	13	83	25	5
Massachusetts.....	11	279	54.2	.2529					2	1	5	16	99	129	27
New Hampshire.....	7	113	58.0	.2314						1	3	23	53	22	11
Rhode Island.....	4	65	56.0	.2483						1	1	6	25	31	1
Other States.....	7	123	59.0	.2333						1	17	17	40	38	10
Total.....	40	719	56.5	.2418					2	5	38	75	300	245	54

TWISTERS: Female.

1910.															
Massachusetts.....	2	118	56.0	\$0.1268					48	49	21				
New York.....	2	67	60.0	.1000					67						
Rhode Island.....	4	69	56.8	.1793					3	29	2	2	3	30	
Other States.....	2	78	55.6	.1007		23			5	38	12				
Total.....	10	332	56.9	.1231	23				5	156	90	23	2	3	30
1911.															
Massachusetts.....	3	295	56.0	.1351					45	71	179				
New Jersey.....	2	64	55.3	.1101			2	2	51	9					
New York.....	2	78	60.0	.1001					78						
Rhode Island.....	3	97	56.0	.1452				1	3	66	6	7	7	7	
Other States.....	2	66	58.2	.1470			2	13	14	20	11	3	2	1	
Total.....	12	600	56.7	.1308			2	5	190	160	205	18	10	9	1

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

TWISTERS: Female—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.														
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.			
1912.																			
Massachusetts.....	3	385	54.0	\$0.1481				1	65	297	22								
New Jersey.....	2	73	55.4	.1140			10	37	25	1									
New York.....	2	116	60.0	.1078				112	4										
Rhode Island.....	3	136	56.0	.1406			1	7	73	43	6	5	1						
Other States.....	2	41	58.2	.1519				5	8	11	16	1							
Total.....	12	751	55.7	.1374			11	162	175	352	44	6	1						

WEAVERS: Male.

1907.																			
Connecticut.....	2	197	58.8	\$0.2392				4	2	3	11	14	88	58	17				
Maine.....	3	109	60.0	.1976				1	4	17	22	18	35	9	3				
Massachusetts.....	4	257	58.0	.1946			1	2	6	26	47	49	122	4					
New Hampshire.....	3	121	59.1	.2051				1	8	7	11	13	18	40	15	8			
New York.....	2	231	60.0	.1956				1	6	14	18	37	56	77	21	1			
Rhode Island.....	3	310	58.0	.2187				2	9	13	31	63	126	44	22				
Other States.....	2	428	57.8	.1835			4	7	47	40	60	60	63	100	34	9	4		
Total.....	19	1,653	58.5	.2027			4	10	70	82	148	221	281	588	185	60	4		
1908.																			
Connecticut.....	2	159	58.0	.2209				1	3	12	14	19	75	23	12				
Maine.....	3	79	60.0	.2143			1	2	1	5	8	11	37	12	2				
Massachusetts.....	4	234	58.0	.1765				6	18	37	64	70	38	1					
New Hampshire.....	3	100	58.0	.1779			2	4	12	20	14	16	28	4					
New York.....	2	195	60.0	.1815	2	6	4	11	19	32	24	21	59	12	4	1			
Rhode Island.....	3	356	58.0	.2104			1	5	28	33	40	76	94	51	23	5			
Other States.....	2	286	59.2	.1891				1	9	20	38	44	41	114	17	2			
Total.....	19	1,409	58.6	.1955	2	6	9	38	101	177	208	254	445	120	43	6			
1909.																			
Connecticut.....	2	187	58.0	.2484				2	1	6	8	17	63	58	28	4			
Maine.....	3	99	60.0	.2098			1		9	8	10	15	41	12	2	1			
Massachusetts.....	4	296	58.0	.1754			1	10	25	62	70	60	65	3					
New Hampshire.....	3	153	58.0	.2012				11	18	15	15	17	46	24	7				
New York.....	2	287	60.0	.1867	3	3	4	20	27	30	44	54	71	17	13	1			
Rhode Island.....	3	365	58.0	.1965	1	2		14	21	53	47	50	137	29	11				
Other States.....	2	202	58.8	.2061			3	5	12	19	19	34	74	29	7				
Total.....	19	1,589	58.6	.1994	4	5	9	62	113	193	213	247	497	172	68	6			
1910.																			
Connecticut.....	2	189	58.0	.2293			1	2	4	5	9	25	79	57	7				
Maine.....	4	119	58.0	.1869				6	10	13	23	26	34	7					
Massachusetts.....	8	1,083	56.0	.2126			2	5	23	33	74	154	190	372	164	62	4		
New Hampshire.....	3	175	58.0	.1982				2	12	18	19	40	70	13	1				
New Jersey.....	2	138	55.7	.1865			1	3	14	11	25	37	44	2	1				
New York.....	2	292	60.0	.2051				1	5	18	62	73	93	29	10	1			
Rhode Island.....	5	659	56.0	.2151			1	2	9	20	50	81	112	228	118	35	3		
Other States.....	1	252	60.0	.1715				1	6	26	60	70	49	36	3	1			
Total.....	27	2,907	57.1	.2068			3	10	52	124	249	443	552	956	393	117	8		
1911.																			
Connecticut.....	4	207	58.4	.2269			1	2	2	12	20	22	77	55	16				
Maine.....	11	356	58.0	.2061				1	5	15	30	48	59	147	45	6			
Massachusetts.....	13	1,739	56.0	.2151			10	27	55	119	196	278	643	328	82	1			
New Hampshire.....	7	482	57.8	.1852			2	6	24	52	62	82	89	123	39	3			
New Jersey.....	3	172	56.4	.2099			2	1	9	17	12	26	84	16	4	1			
New York.....	2	263	60.0	.2035			1		3	34	57	50	75	36	6				
Rhode Island.....	5	544	56.0	.2226			4	9	12	46	48	54	190	158	22	1			
Other States.....	1	286	60.0	.1935			5	3	16	22	38	46	41	72	26	15	2		
Total.....	46	4,049	57.1	.2099			8	27	85	170	358	509	619	1,411	703	154	5		

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

WEAVERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.													
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.		
1912.																		
Connecticut.....	4	231	58.3	\$0.2486						2	7	15	22	71	76	38		
Maine.....	11	410	58.0	.2151			1	8	15	23	61	52	150	80	20			
Massachusetts.....	13	1,823	54.4	.2519		1	3	17	24	50	91	151	564	570	336	16		
New Hampshire.....	7	493	57.8	.2142				8	16	22	47	74	236	84	6			
New Jersey.....	3	207	55.0	.2233				3	8	14	14	24	80	55	9			
New York.....	2	359	60.0	.2076			1	2	18	50	44	49	123	58	14			
Rhode Island.....	5	683	56.0	.2504			1	6	10	21	32	63	195	212	143			
Other States.....	1	270	60.0	.2123		1		6	11	15	32	39	109	49	8			
Total.....	46	4,476	56.3	.2367		2	6	50	104	202	336	474	1,528	1,184	574	16		

WEAVERS: Female.

1907.																	
Massachusetts.....	4	534	58.0	\$0.1905				1	3	27	46	93	155	197	11	1	
New Hampshire.....	3	108	58.8	.1999			1		7	10	16	25	38	9	2		
New York.....	2	110	60.0	.1901			1	2	8	11	14	34	36	4			
Rhode Island.....	3	582	58.0	.1894		4		19	39	75	93	132	166	45	5		
Other States.....	7	539	57.4	.1793			6	48	67	83	84	73	135	40	3		
Total.....	19	1,873	58.0	.1875		4	13	72	148	225	300	419	572	109	11		
1908.																	
Massachusetts.....	4	639	58.0	.1674			1	18	73	157	189	136	61	4			
New Hampshire.....	3	79	58.0	.1773				2	13	12	12	16	24				
New York.....	2	65	60.0	.1788			3	2	5	6	14	16	7	2	1	1	
Rhode Island.....	3	590	58.0	.1734			3	2	31	80	98	130	101	132	12	1	
Other States.....	7	509	56.6	.1538			8	13	118	84	89	55	52	80	9	1	
Total.....	19	1,882	57.7	.1663		14	18	174	256	370	402	312	305	27	2	1	
1909.																	
Massachusetts.....	4	612	58.0	.1701				3	27	49	137	186	126	79	5		
New Hampshire.....	3	79	58.0	.1882			1	1	3	9	10	10	13	26	3	3	
New York.....	2	102	60.0	.1806		2		2	6	13	8	21	14	24	8	2	
Rhode Island.....	3	458	58.0	.1693		2	4	8	40	68	69	80	83	96	5	3	
Other States.....	7	556	56.3	.1529			4	22	139	113	78	65	38	73	17	7	
Total.....	19	1,807	57.6	.1660		4	11	36	215	252	302	362	274	298	38	15	
1910.																	
Massachusetts.....	8	1,233	56.0	.1952		1	2	5	26	70	123	196	297	400	86	26	1
New Hampshire.....	3	98	58.0	.2041					2	1	9	15	20	40	9	1	1
New Jersey.....	2	625	55.1	.1461		2	4	42	127	139	111	77	60	58	5		
New York.....	2	101	60.0	.1950					1	8	25	34	27	4	2		
Rhode Island.....	5	553	56.0	.1786		3	2	6	35	52	82	120	95	134	17	7	
Other States.....	7	245	59.3	.1759			1	10	30	54	56	36	45	10	3		
Total.....	27	2,855	56.3	.1799		6	8	54	200	293	387	489	542	704	131	39	2
1911.																	
Maine.....	11	198	58.0	.1908			1		5	13	23	36	44	64	10	2	
Massachusetts.....	13	1,199	56.0	.1988				5	29	53	131	210	208	411	128	24	
New Hampshire.....	7	671	57.9	.1867				22	75	156	163	86	77	81	10	1	
New Jersey.....	3	545	55.4	.1468			3	10	129	125	113	74	40	43	7	1	
New York.....	2	107	60.0	.1831					2	4	19	30	25	24	2	1	
Rhode Island.....	5	446	56.0	.1811			1	2	18	47	79	86	80	111	17	5	
Other States.....	5	218	59.7	.1919			2	1	9	22	25	35	44	54	21	4	1
Total.....	46	3,384	56.8	.1843			7	40	267	420	553	557	518	788	195	38	1

TABLE II.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH YEAR, BY STATES, 1907 TO 1912—Concluded.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

WEAVERS: Female—Concluded.

Year and State.	Number of establishments.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.														
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.			
1912.																			
Maine.....	11	190	58.0	\$0.1987				2	11	10	16	27	28	73	19	4			
Massachusetts.....	13	1,390	54.0	.2311				3	17	31	54	141	173	494	317	158	2		
New Hampshire.....	7	700	57.9	.1911				1	11	21	74	144	219	188	37	5			
New Jersey.....	3	615	55.0	.1718				31	76	83	78	93	71	144	38	1			
New York.....	2	94	60.0	.2130					1		9	9	16	43	14	2			
Rhode Island.....	5	371	56.0	.1951				2	6	25	58	66	56	113	38	7			
Other States.....	5	226	59.7	.2082				2	8	5	28	25	32	90	33	13			
Total.....	46	3,586	55.9	.2057				41	130	175	317	505	595	1,135	496	190	2		

WOOL SORTERS: Male.

1907.																			
Massachusetts.....	4	83	58.0	\$0.2506						1	2	3	15	60	2				
Rhode Island.....	2	52	58.0	.2166						1	2	3	41	4					
Other States.....	5	49	57.9	.2207						2	2	8	26	7	1				
Total.....	11	184	58.0	.2330						3	5	6	14	82	71	3			
1908.																			
Massachusetts.....	4	76	58.0	.2422						1	1	1	61	12					
Rhode Island.....	2	42	58.0	.2183						2	4	4	30	2					
Other States.....	5	46	57.2	.1966						1	5	11	7	20	2				
Total.....	11	164	57.8	.2233						1	8	16	12	111	16				
1909.																			
Massachusetts.....	4	65	58.0	.2438						1		1	51	12					
Rhode Island.....	2	76	58.0	.2445							1		27	48					
Other States.....	5	45	57.7	.2232						1		4	39	1					
Total.....	11	186	57.9	.2393						2	1	5	117	61					
1910.																			
Massachusetts.....	7	153	56.0	.2496				2		5			12	134					
Rhode Island.....	3	73	56.0	.2610									14	53	6				
Other States.....	8	63	57.6	.2221						5	1	8	37	11	1				
Total.....	18	289	56.3	.2465				2		10	1	8	63	198	7				
1911.																			
Massachusetts.....	6	270	56.0	.2402								33	10	25	202				
Rhode Island.....	3	75	56.0	.2606										23	49	3			
Other States.....	10	99	57.9	.2259						5		6	80	7	1				
Total.....	19	444	56.4	.2405						5	33	16	128	258	4				
1912.																			
Massachusetts.....	6	289	54.0	.2674									12	40	233	4			
Rhode Island.....	3	81	56.0	.2737										4	74	3			
Other States.....	10	101	57.2	.2585									9	38	39	15			
Total.....	19	471	55.2	.2666									21	82	346	22			

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

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

State, and number of establishments.	Year.	Number of employ-ees.	Av-erage nominal full-time hours per week.	Av-erage rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.
BURLERS, FEMALE.															
Massachusetts:															
3 establishments...	1907	175	58.0	\$0.1170				11	135	28		1			
	1908	187	58.0	.1088				6	162	19					
	1909	216	58.0	.1112			4	166	46						
	1910	213	56.0	.1152				161	52						
7 establishments...	1910	496	56.0	.1259			4	228	181	35	34	8	6		
	1911	517	56.0	.1259			7	10	206	210	43	20	13	7	
11 establishments...	1911	695	56.0	.1304			12	19	234	252	79	56	29	13	
	1912	712	54.0	.1483			2	5	40	394	91	66	43	60	
New Hampshire:															
6 establishments...	1911	257	57.9	.1258			6	16	105	59	46	20	4	1	
	1912	253	58.0	.1334			3	2	4	205	9	16	9	5	
New Jersey:															
2 establishments...	1910	144	55.5	.1153	1	16	27	52	24	12	7	3	1	1	
	1911	125	55.3	.1117		10	21	63	12	12	6	1			
3 establishments...	1911	158	55.9	.1157		10	23	73	21	21	9	1			
	1912	107	56.8	.1265		4	16	41	13	13	11	3	5	1	
New York:															
2 establishments...	1907	75	60.0	.1379	1	4	2	18	21	13	5	7	2	2	
	1908	48	60.0	.1271	1		2	13	21	8	3				
	1909	70	60.0	.1699		1	3	9	11	9	6	8	21	2	
	1910	67	60.0	.1631				6	10	14	16	14	7		
2 establishments...	1910	67	60.0	.1631				6	10	14	16	14	7		
	1911	78	60.0	.1378			5	20	21	12	16	3	1		
2 establishments...	1911	78	60.0	.1378			5	20	21	12	16	3	1		
	1912	85	60.0	.1738			3	7	6	14	10	13	32		
Rhode Island:															
3 establishments...	1907	145	58.0	.1321			14	38	35	36	18	2	2		
	1908	99	58.0	.1304			8	6	57	22	5	1			
	1909	104	58.0	.1304			13	2	12	29	45	3			
	1910	119	56.0	.1308			3	2	37	17	58	3	2		
5 establishments...	1910	199	56.0	.1444		3	2	37	36	66	37	11	7		
	1911	157	56.0	.1476		1		18	52	44	23	8	11		
5 establishments...	1911	165	56.0	.1590		1		4	52	44	26	15	21	1	
	1912	186	56.0	.1761			2	2	7	50	57	27	38	2	
DRESSERS, MALE.															
Massachusetts:															
13 establishments...	1911	123	56.1	.2556							4	1	32	81	
	1912	154	54.6	.2776								2	19	104	
Rhode Island:															
5 establishments...	1911	58	56.0	.2651								1	10	47	
	1912	71	56.0	.2800									11	60	
LABORERS, DYE-HOUSE, MALE.															
Massachusetts:															
4 establishments...	1907	173	58.0	.1516					5	168					
	1908	125	58.0	.1388					115	10					
	1909	117	58.0	.1396					100	17					
	1910	168	56.0	.1457					5	163					
8 establishments...	1910	349	56.0	.1437					106	214	29				
	1911	457	56.0	.1445					108	311	38				
13 establishments...	1911	560	56.0	.1440					175	327	58				
	1912	627	54.2	.1572					36	443	142	6			
New Hampshire:															
7 establishments...	1911	94	57.9	.1496					32	17	45				
	1912	96	57.8	.1641					11	36	57	1		1	

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

State, and number of establishments.	Year.	Number of employ-ees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.										
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.
LABORERS, DYE-HOUSE, MALE—concl'd.															
New Jersey:															
2 establishments..	(1910	107	55.3	\$0.1515				1	14	60	25	6	1		
	1911	98	55.3	.1532			1	13	52	22	9	1			
3 establishments..	(1911	111	55.6	.1546			1	13	59	27	10	1			
	1912	88	55.1	.1628			2	2	24	43	8	9			
Rhode Island:															
3 establishments..	(1907	90	58.0	.1356				79	11						
	1908	101	58.0	.1354				88	12		1				
	1909	166	58.0	.1290				152	13		1				
	1910	197	56.0	.1353				126	69	2					
5 establishments..	(1910	252	56.0	.1401				126	96	30					
	1911	164	56.0	.1448				55	87	22					
5 establishments..	(1911	169	56.0	.1461				55	80	33	1				
	1912	112	56.0	.1566			1	6	68	33	3	1			
LOOM FIXERS, MALE.															
Massachusetts:															
4 establishments..	(1907	57	58.0	.2739							1	3	53		
	1908	58	58.0	.2570							1	2	55		
	1909	68	58.0	.2571							1	1	66		
	1910	75	56.0	.2677								2	73		
8 establishments..	(1910	197	56.0	.2763								2	184	11	
	1911	188	56.0	.2760								3	176	9	
13 establishments..	(1911	259	56.0	.2831								4	210	45	
	1912	253	54.2	.3257								2	125	112 14	
New Hampshire:															
7 establishments..	(1911	83	57.9	.2317								69	14		
	1912	76	57.9	.2559								17	58	1	
Rhode Island:															
3 establishments..	(1907	70	58.0	.2662							1	8	61		
	1908	74	58.0	.2706							1	1	4	68	
	1909	68	58.0	.2710							1	1	4	63	
	1910	64	56.0	.2768							1	1	4	58	
5 establishments..	(1910	95	56.0	.2959							1	1	4	58 31	
	1911	79	56.0	.2923							1	1	3	54 20	
5 establishments..	(1911	85	56.0	.3001								1	54	30	
	1912	89	56.0	.3196									30	59	
MENDERS, FEMALE.															
Maine:															
10 establishments..	(1911	107	58.0	.1368			11	41	54	1					
	1912	105	58.0	.1434			2	52	35	16					
Massachusetts:															
8 establishments..	(1910	441	56.0	.1772		2	15	43	55	27	48	101	135	15	
	1911	470	56.0	.1683		3	14	46	66	56	56	154	69	5 1	
13 establishments..	(1911	802	56.0	.1649		3	36	92	117	99	101	240	105	7 2	
	1912	892	54.0	.1981		6	47	50	74	85	168	371	72	18	
New Jersey:															
2 establishments..	(1910	143	55.5	.1153		1	14	28	52	23	12	7	3	2	
	1911	126	55.3	.1117		1	10	21	63	12	11	7	1		
3 establishments..	(1911	160	55.9	.1320		1	10	21	64	13	13	12	7	15 2	
	1912	113	56.7	.1525		4	16	39	11	6	4	6	5	19 3	
New York:															
2 establishments..	(1910	129	60.0	.1665			1	5	25	18	14	18	21	11 2	
	1911	144	60.0	.1675				7	23	20	25	18	13	26 10 2	
2 establishments..	(1911	144	60.0	.1675			7	23	20	25	18	13	26	10 2	
	1912	164	60.0	.2009				20	6	15	18	16	59	24 5	

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.													
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.		
MENDERS, FEMALE—concluded.																		
Rhode Island:																		
5 establishments...	{1910	284	56.0	\$.1599	2	1	12	31	36	27	109	44	18	2	2			
	{1911	205	56.0	.1727				11	20	28	69	44	31	1	1			
5 establishments...	{1911	238	56.0	.1750				11	20	35	76	55	36	4	1			
	{1912	277	56.0	.1889			5	11	19	26	34	70	103	8	1			
SPINNERS, FRAME, MALE.																		
Massachusetts:																		
2 establishments...	{1910	114	56.0	.1252				66	30	17		1						
	{1911	134	56.0	.1287			6	46	48	32	2							
3 establishments...	{1911	194	56.0	.1316			6	53	64	69	2							
	{1912	244	54.0	.1580					7	202	35							
SPINNERS, FRAME, FEMALE.																		
Massachusetts:																		
2 establishments...	{1910	325	56.0	.1235			1	214	71	39								
	{1911	406	56.0	.1290				141	189	73	3							
3 establishments...	{1911	536	56.0	.1309				177	228	128	3							
	{1912	567	54.0	.1568				1	12	464	90							
New Jersey:																		
2 establishments...	{1911	82	55.3	.1160				4	48	30								
	{1912	114	55.2	.1218			15	16	81	2								
Rhode Island:																		
2 establishments...	{1907	141	58.0	.1186		12	2	76	51									
	{1908	120	58.0	.1258		4	1	14	101									
	{1909	127	58.0	.1242		6	2	13	106									
	{1910	115	56.0	.1285		1		1	113									
3 establishments...	{1910	146	56.0	.1287		1		2	143									
	{1911	183	56.0	.1303				5	176	2								
3 establishments...	{1911	183	56.0	.1303				5	176	2								
	{1912	231	56.0	.1361				7	129	95								
SPINNERS, MULE, MALE.																		
Maine:																		
11 establishments...	{1911	117	58.0	.2106						5	7	30	70	5				
	{1912	139	58.0	.2251						1	12	13	83	25	5			
Massachusetts:																		
4 establishments...	{1907	48	58.0	.2421							2	30	15	1				
	{1908	39	58.0	.2176						1	4	9	18	6	1			
	{1909	44	58.0	.2324							1	2	30	11				
	{1910	47	56.0	.2372							1	4	27	15				
8 establishments...	{1910	201	56.0	.2326			1	1	4	8	17	112	55	3				
	{1911	177	56.0	.2350			1	1	1	6	17	93	55	3				
11 establishments...	{1911	262	56.0	.2348			1	2	1	8	26	138	79	7				
	{1912	279	54.2	.2529				2	1	5	16	99	129	27				
New Hampshire:																		
3 establishments...	{1907	65	58.6	.1994				2	2	4	8	15	30	4				
	{1908	44	58.0	.1849				3	6	7	7	2	16	2	1			
	{1909	55	58.0	.2010						4	10	21	12	7	1			
	{1910	71	58.0	.2177						2	3	20	35	9	2			
3 establishments...	{1910	71	58.0	.2177						2	3	20	35	9	2			
	{1911	50	58.0	.2174					1	2	12	11	11	5	8			
7 establishments...	{1911	94	58.0	.2110					1	4	18	23	33	7	8			
	{1912	113	58.0	.2314						1	3	23	53	22	11			

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

State, and number of establishments.	Year.	Number of employ-ees.	Av-erage nom-inal full-time hours per week.	Av-erage rate of wages per hour.	Number of employees earning each classified rate of wages per hour.															
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.				
SPINNERS, MULE, MALE—concluded.																				
Rhode Island:																				
3 establishments..	1907	49	58.0	\$0.2280									11	4	15	19				
	1908	22	58.0	.2347									3	1	5	13				
	1909	17	58.0	.2151									4	1	9	3				
	1910	27	56.0	.2438										1	16	9	1			
4 establishments..	1910	49	56.0	.2383									1	1	32	14	1			
	1911	43	56.0	.2219									6	4	26	7				
4 establishments..	1911	51	56.0	.2217								1	5	3	35	7				
	1912	65	56.0	.2483								1	1	6	25	31	1			
TWISTERS, FEMALE.																				
Massachusetts:																				
2 establishments..	1910	118	56.0	.1268				48	49	21										
	1911	111	56.0	.1285				23	71	17										
3 establishments..	1911	295	56.0	.1351				45	71	179										
	1912	385	54.0	.1481				1	65	297	22									
New Jersey:																				
2 establishments..	1911	64	55.3	.1101		2	2	51	9											
	1912	73	55.4	.1140			10	37	25	1										
New York:																				
2 establishments..	1910	67	60.0	.1000				67												
	1911	78	60.0	.1001				78												
2 establishments..	1911	78	60.0	.1001				78												
	1912	116	60.0	.1078				112	4											
Rhode Island:																				
4 establishments..	1910	69	56.8	.1793				3	29	2	2	3	30							
	1911	100	56.0	.1445			1	3	69	6	7	7	7							
3 establishments..	1911	97	56.0	.1452			1	3	66	6	7	7	7							
	1912	136	56.0	.1406			1	7	73	43	6	5	1							
WEAVERS, MALE.																				
Connecticut:																				
2 establishments..	1907	197	58.8	.2392				4	2	3	11	14	88	58	17					
	1908	159	58.0	.2209				1	3	12	14	19	75	23	12					
	1909	187	58.0	.2484				2	1	6	8	17	63	58	28	4				
	1910	189	58.0	.2293			1	2	4	5	9	25	79	57	7					
2 establishments..	1910	189	58.0	.2293			1	2	4	5	9	25	79	57	7					
	1911	139	58.0	.2339			1	2		3	9	10	59	46	9					
4 establishments..	1911	207	58.4	.2269			1	2	2	12	20	22	77	55	16					
	1912	231	58.3	.2486					2	7	15	22	71	76	38					
Maine:																				
3 establishments..	1907	109	60.0	.1976				1	4	17	22	18	35	9	3					
	1908	79	60.0	.2143			1	2	1	5	8	11	37	12	2					
	1909	99	60.0	.2098			1		9	8	10	15	41	12	2	1				
	1910	104	58.0	.1917				4	7	11	17	25	33	7						
4 establishments..	1910	119	58.0	.1869				6	10	13	23	26	34	7						
	1911	106	53.0	.2056				2	4	13	11	13	49	13	1					
11 establishments..	1911	356	58.0	.2061			1	5	15	30	48	59	147	45	6					
	1912	410	58.0	.2151			1	8	15	23	61	52	150	80	20					
Massachusetts:																				
4 establishments..	1907	257	58.0	.1946			1	2	6	26	47	49	122	4						
	1908	234	58.0	.1765				6	18	37	64	70	38	1						
	1909	296	58.0	.1754			1	10	25	62	70	60	65	3						
	1910	256	56.0	.1952				3	6	22	46	72	95	12						
8 establishments..	1910	1,083	56.0	.2126			2	5	23	33	74	154	190	372	164	62	4			
	1911	1,051	56.0	.2087			4	17	43	92	156	177	348	168	45	1				
3 establishments..	1911	1,739	56.0	.2151			10	27	55	119	196	278	643	328	82	1				
	1912	1,823	54.4	.2519			1	3	17	24	50	91	151	564	570	336	16			

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Continued.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.													
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.		
WEAVERS, MALE—concluded.																		
New Hampshire:																		
3 establishments..	1907	121	59.1	\$.2051	1	8	7	11	13	18	40	15	8	.....			
	1908	100	58.0	.1779	2	4	12	20	14	16	28	4	.....				
	1909	153	58.0	.2012	11	18	15	15	17	40	24	7	.....				
3 establishments..	1910	175	58.0	.1982	2	12	18	19	40	70	13	1	.....				
	1911	175	58.0	.2096	1	2	12	19	40	70	13	1	.....				
7 establishments..	1911	482	57.8	.1852	2	6	24	52	62	82	89	123	39	3				
	1912	493	57.8	.2142	8	16	22	47	74	236	84	6	.....				
New Jersey:																		
2 establishments..	1910	138	55.7	.1865	1	3	14	11	25	37	44	2	1	.....			
	1911	110	55.5	.1974	2	1	8	15	10	22	41	9	2	.....			
3 establishments..	1911	172	56.4	.2099	2	1	9	17	12	26	84	16	4	1				
	1912	207	55.0	.2233	3	8	14	14	24	80	55	9	.....				
New York:																		
2 establishments..	1907	231	60.0	.1956	1	6	14	18	37	56	77	21	1	.....			
	1908	195	60.0	.1815	2	6	4	11	19	32	24	21	59	12	4			
	1909	287	60.0	.1867	3	3	4	20	27	30	44	54	71	17	13			
	1910	282	60.0	.2051	1	5	18	62	73	93	29	10	1	.....			
2 establishments..	1910	292	60.0	.2051	1	5	18	62	73	93	29	10	1	.....			
	1911	263	60.0	.2035	1	3	34	57	50	75	36	6	.....				
2 establishments..	1911	263	60.0	.2035	1	3	34	57	50	75	36	6	.....				
	1912	359	60.0	.2070	1	2	18	50	44	49	123	58	14	.....			
Rhode Island:																		
3 establishments..	1907	310	58.0	.2187	2	9	13	31	63	126	44	22	.....				
	1908	356	58.0	.2104	1	5	28	33	40	76	94	51	23	5				
	1909	365	58.0	.1965	1	2	14	21	53	47	50	137	29	11				
	1910	403	56.0	.2007	1	2	7	17	37	62	90	140	38	8				
5 establishments..	1910	659	56.0	.2151	1	2	9	20	50	81	112	228	118	35	3			
	1911	492	56.0	.2212	3	9	13	46	46	49	157	148	20	1				
5 establishments..	1911	544	56.0	.2226	4	9	12	46	48	54	190	158	22	1				
	1912	683	56.0	.2504	1	6	10	21	32	63	195	212	143	.....			
WEAVERS, FEMALE.																		
Maine:																		
11 establishments..	1911	198	58.0	.1908	1	5	13	23	36	44	64	10	2	.....			
	1912	190	58.0	.1987	2	11	10	16	27	28	73	19	4	.....			
Massachusetts:																		
4 establishments..	1907	534	58.0	.1905	1	3	27	46	93	155	197	11	1	.....			
	1908	639	58.0	.1674	1	18	73	157	189	136	61	4	.....				
	1909	612	58.0	.1701	3	27	49	137	186	126	79	5	.....				
	1910	624	56.0	.1876	1	1	8	31	74	99	191	212	6	1				
8 establishments..	1910	1,233	56.0	.1952	1	2	5	26	70	123	196	297	400	86	26	1		
	1911	954	56.0	.1908	5	27	48	128	193	184	285	74	10	.....			
13 establishments..	1911	1,199	56.0	.1988	5	29	53	131	210	208	411	128	24	.....			
	1912	1,390	54.0	.2311	3	17	31	54	141	173	494	317	158	1				
New Hampshire:																		
3 establishments..	1907	108	58.8	.1999	1	7	10	16	25	38	9	2	.....				
	1908	79	58.0	.1773	2	13	12	12	16	24	3	.....					
	1909	79	58.0	.1882	1	1	3	9	10	10	13	26	3	3				
	1910	98	58.0	.2041	2	1	9	15	20	40	9	1	1					
3 establishments..	1910	98	58.0	.2041	2	1	9	15	20	40	9	1	1					
	1911	70	58.0	.2021	1	3	3	7	19	31	6	.....					
7 establishments..	1911	671	57.9	.1867	22	75	156	103	86	77	81	10	1	.....			
	1912	700	57.9	.1911	1	11	21	74	144	219	188	37	5	.....			

TABLE III.—CLASSIFIED RATES OF WAGES PER HOUR IN EACH STATE, BY YEARS, 1907 TO 1912—Concluded.

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

State, and number of establishments.	Year.	Number of employ-ees.	Average nomi-nal full-time hours per week.	Average rate of wages per hour.	Number of employees earning each classified rate of wages per hour.															
					6 and under 8 cts.	8 and under 9 cts.	9 and under 10 cts.	10 and under 12 cts.	12 and under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 60 cts.				
WEAVERS, FEMALE—concluded.																				
New Jersey: 2 establishments ..	1910	625	55.1	\$0.1461	2	4	42	127	139	111	77	60	58	5	.....	.....		
	1911	502	55.1	.1409	3	10	128	125	112	72	35	15	1	1	.....	.....		
3 establishments ..	1911	545	55.4	.1468	3	10	129	125	113	74	40	43	7	1	.....	.....		
	1912	615	55.0	.1718	31	76	83	78	93	71	144	38	1	.....	.....			
New York: 2 establishments ..	1907	110	60.0	.1901	.....	1	2	8	11	14	34	36	4	.....	.....			
	1908	65	60.0	.1738	.....	3	2	5	6	14	16	7	8	2	1	1			
1909	1909	102	60.0	.1806	2	2	2	6	13	8	21	14	24	8	2	.....			
	1910	101	60.0	.1950	.....	.....	.....	.....	1	8	25	34	27	4	2	.....			
2 establishments ..	1910	101	60.0	.1950	.....	.....	.....	.....	1	8	25	34	27	4	2	.....			
	1911	107	60.0	.1831	.....	.....	.....	2	4	19	30	25	24	2	1	.....			
2 establishments ..	1911	107	60.0	.1831	.....	.....	.....	2	4	19	30	25	24	2	1	.....			
	1912	94	60.0	.2130	.....	.....	.....	1	9	9	16	43	14	2	.....				
Rhode Island: 3 establishments ..	1907	582	58.0	.1894	.....	4	4	19	39	75	93	132	166	45	5	.....			
	1908	590	58.0	.1734	.....	3	2	31	80	98	130	101	132	12	1	.....			
1909	1909	458	58.0	.1693	2	4	8	40	68	69	80	83	96	5	3	.....			
	1910	527	56.0	.1758	3	2	6	35	51	81	117	95	122	10	5	.....			
5 establishments ..	1910	553	56.0	.1786	3	2	6	35	52	82	120	95	134	17	7	.....			
	1911	468	56.0	.1805	.....	1	2	19	47	81	90	90	119	15	4	.....			
5 establishments ..	1911	446	56.0	.1811	.....	1	2	18	47	79	86	80	111	17	5	.....			
	1912	371	56.0	.1951	.....	.....	2	6	25	58	66	56	113	38	7	.....			
WOOL SORTERS, MALE.																				
Massachusetts: 4 establishments ..	1907	83	58.0	.2506	.....	.....	.....	.....	.....	1	2	3	15	60	2	.....			
	1908	76	58.0	.2422	.....	.....	.....	.....	.....	1	1	1	61	12	.....				
1909	1909	65	58.0	.2438	.....	.....	.....	.....	.....	1	.....	1	51	12	.....				
	1910	83	56.0	.2499	.....	.....	.....	1	.....	2	.....	.....	12	68	.....				
7 establishments ..	1910	153	56.0	.2496	.....	.....	.....	2	.....	5	.....	.....	12	134	.....				
	1911	200	56.0	.2530	.....	.....	.....	.....	2	2	.....	.....	8	188	.....				
6 establishments ..	1911	270	56.0	.2402	.....	.....	.....	.....	.....	33	10	25	202	.....	.....			
	1912	289	54.0	.2674	.....	.....	.....	.....	.....	.....	12	40	233	4	.....				
Rhode Island: 2 establishments ..	1907	52	58.0	.2166	.....	.....	.....	.....	1	2	1	3	41	4	.....				
	1908	42	58.0	.2183	.....	.....	.....	.....	.....	2	4	4	30	2	.....				
1909	1909	76	58.0	.2445	.....	.....	.....	.....	.....	1	.....	.....	27	48	.....				
	1910	67	56.0	.2621	.....	.....	.....	.....	.....	.....	.....	.....	8	53	6	
3 establishments ..	1910	73	56.0	.2610	.....	.....	.....	.....	.....	.....	.....	.....	14	53	6	
	1911	75	56.0	.2606	.....	.....	.....	.....	.....	.....	.....	.....	23	49	3	
3 establishments ..	1911	75	56.0	.2606	.....	.....	.....	.....	.....	.....	.....	.....	23	49	3	
	1912	81	56.0	.2737	.....	.....	.....	.....	.....	.....	.....	.....	4	74	3	

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

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

NUMBER.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
Burlers, female:							
18 establishments.....	1907	611	58.3	.....	57	372	182
	1908	494	58.0	.....	60	342	92
	1909	582	58.0	.....	73	394	115
	1910	598	56.9	.....	404	95	99
26 establishments.....	1910	1,034	56.5	.....	839	96	99
	1911	1,010	56.6	.....	799	79	132
43 establishments.....	1911	1,516	56.8	.....	979	405	132
	1912	1,471	55.9	712	243	412	104
Carding-machine tenders, male:							
19 establishments.....	1907	145	58.6	.....	13	70	62
	1908	136	58.6	.....	13	64	59
	1909	134	58.4	.....	13	74	47
	1910	133	57.3	.....	69	35	29
26 establishments.....	1910	201	56.9	.....	132	40	29
	1911	196	56.9	.....	133	36	27
40 establishments.....	1911	320	57.1	.....	176	112	32
	1912	412	56.4	147	76	137	52
Card strippers, male:							
18 establishments.....	1907	89	58.2	.....	17	38	34
	1908	79	58.1	.....	15	39	25
	1909	80	58.1	.....	13	42	25
	1910	88	57.7	.....	32	30	26
27 establishments.....	1910	162	57.0	.....	104	32	26
	1911	155	56.9	.....	100	32	23
42 establishments.....	1911	223	57.1	.....	116	82	25
	1912	240	56.9	69	37	94	40
Combers, male:							
4 establishments.....	1907	52	58.5	.....	.....	39	13
	1908	29	58.6	.....	.....	21	8
	1909	29	58.6	.....	.....	21	8
	1910	42	57.2	.....	29	.....	13
6 establishments.....	1910	106	56.5	.....	93	.....	13
	1911	124	56.5	.....	108	.....	16
9 establishments.....	1911	188	56.5	.....	154	18	16
	1912	181	55.0	130	14	22	15
Combers, female:							
4 establishments.....	1907	101	55.7	.....	79	18	4
	1908	117	55.8	.....	91	20	6
	1909	111	55.8	.....	85	22	4
	1910	110	55.4	.....	106	.....	4
6 establishments.....	1910	129	55.5	.....	125	.....	4
	1911	118	55.4	.....	114	.....	4
8 establishments.....	1911	139	55.8	.....	114	21	4
	1912	150	55.8	.....	123	20	7
Dressers, male:							
19 establishments.....	1907	119	58.8	.....	6	57	59
	1908	97	58.4	.....	7	60	30
	1909	126	58.3	.....	17	66	43
	1910	126	57.9	.....	45	37	44
27 establishments.....	1910	214	57.1	.....	131	39	44
	1911	215	57.1	.....	136	35	44
46 establishments.....	1911	337	57.1	.....	196	94	47
	1912	384	56.3	108	136	98	42

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

NUMBER—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
Laborers dyehouse, male:							
19 establishments.....	1907	434	58.1		50	283	101
	1908	385	57.8		63	260	62
	1909	514	57.9		82	324	108
	1910	570	56.5		444	70	56
27 establishments.....	1910	837	56.3		708	73	56
	1911	877	56.5		719	60	98
45 establishments.....	1911	1,116	56.6		821	193	102
	1912	1,093	55.5	561	272	185	75
Loom fixers, male:							
19 establishments.....	1907	223	58.0		31	140	52
	1908	218	57.9		32	151	35
	1909	242	58.1		29	160	53
	1910	260	57.0		172	35	53
27 establishments.....	1910	429	56.6		338	38	53
	1911	390	56.6		309	37	44
46 establishments.....	1911	569	56.7		389	136	44
	1912	589	55.9	222	194	125	48
Menders, female:							
18 establishments.....	1907	403	58.5		57	158	188
	1908	341	58.4		61	112	168
	1909	533	58.8		73	179	331
	1910	498	58.0		170	116	212
25 establishments.....	1910	1,196	56.8		868	116	212
	1911	1,115	56.9		801	75	239
44 establishments.....	1911	1,623	56.8		1,161	223	239
	1912	1,668	55.7	892	339	236	201
Spinners, frame, male:							
2 establishments.....	1910	114	56.0		114		
	1911	134	56.0		134		
3 establishments.....	1911	194	56.0		194		
	1912	244	54.0	244			
Spinners, frame, female:							
5 establishments.....	1907	323	57.6		50	256	17
	1908	284	57.5		60	208	16
	1909	295	57.5		60	222	13
	1910	286	56.0		269		17
8 establishments.....	1910	578	56.0		561		17
	1911	683	56.0		671		12
10 establishments.....	1911	1,002	56.4		801	189	12
	1912	1,070	55.2	567	345	151	7
Spinners, mule, male:							
19 establishments.....	1907	384	58.6		48	147	189
	1908	267	58.2		48	116	103
	1909	297	58.2		48	140	109
	1910	320	57.5		122	127	71
26 establishments.....	1910	529	57.0		322	136	71
	1911	454	56.9		286	101	67
40 establishments.....	1911	638	57.3		315	242	81
	1912	719	56.5	255	107	275	82
Twisters, female:							
7 establishments.....	1907	186	57.2		78	67	41
	1908	138	57.6		44	56	38
	1909	223	58.0		50	93	80
	1910	216	57.2		120	29	67
10 establishments.....	1910	332	56.9		227	29	76
	1911	342	56.8		258		84
12 establishments.....	1911	600	56.7		456	60	84
	1912	751	55.7	385	209	36	121

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

NUMBER—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
Weavers, male:							
19 establishments.....	1907	1,653	58.5	-----	185	743	725
	1908	1,409	58.6	-----	43	849	517
	1909	1,589	58.6	-----	49	1,001	539
	1910	1,716	57.8	-----	704	468	544
27 establishments.....	1910	2,907	57.1	-----	1,880	483	544
	1911	2,563	57.1	-----	1,653	361	549
46 establishments.....	1911	4,049	57.1	-----	2,430	1,032	587
	1912	4,476	56.3	1,494	1,267	1,057	668
Weavers, female:							
19 establishments.....	1907	1,873	58.0	-----	280	1,186	407
	1908	1,882	57.7	-----	343	1,314	225
	1909	1,807	57.6	-----	406	1,168	233
	1910	2,116	56.4	-----	1,097	161	258
27 establishments.....	1910	2,855	56.3	-----	2,411	186	258
	1911	2,366	56.4	-----	1,924	148	294
46 establishments.....	1911	3,384	56.8	-----	2,146	944	294
	1912	3,586	55.9	1,390	1,002	909	285
Wool sorters, male:							
11 establishments.....	1907	184	58.0	-----	17	145	22
	1908	164	57.8	-----	22	128	14
	1909	186	57.9	-----	15	156	15
	1910	193	56.5	-----	162	9	22
18 establishments.....	1910	289	56.3	-----	255	12	22
	1911	335	56.3	-----	299	13	23
19 establishments.....	1911	444	56.4	-----	369	52	23
	1912	471	55.2	289	101	66	15

PER CENT.

Burlers, female:							
18 establishments.....	1907	611	58.3	-----	9.3	60.9	29.8
	1908	494	58.0	-----	12.1	69.2	18.6
	1909	582	58.0	-----	12.5	67.7	19.8
	1910	598	56.9	-----	67.6	15.9	16.6
26 establishments.....	1910	1,034	56.5	-----	81.1	9.3	9.6
	1911	1,010	56.6	-----	79.1	7.8	13.1
43 establishments.....	1911	1,516	56.8	-----	64.6	26.7	8.7
	1912	1,471	55.9	48.4	16.5	28.0	7.1
Carding-machine tenders, male:							
19 establishments.....	1907	145	58.6	-----	9.0	48.3	42.8
	1908	136	58.6	-----	9.6	47.1	43.4
	1909	134	58.4	-----	9.7	55.2	35.1
	1910	133	57.3	-----	51.9	26.3	21.8
26 establishments.....	1910	201	56.9	-----	65.7	19.9	14.4
	1911	196	56.9	-----	67.9	18.4	13.8
40 establishments.....	1911	320	57.1	-----	55.0	35.0	10.0
	1912	412	56.4	35.7	18.4	33.3	12.6
Card strippers, male:							
18 establishments.....	1907	89	58.2	-----	19.1	42.7	38.2
	1908	79	58.1	-----	19.0	49.4	31.6
	1909	80	58.1	-----	16.3	52.5	31.3
	1910	88	57.7	-----	36.4	34.1	29.5
27 establishments.....	1910	162	57.0	-----	64.2	19.8	16.0
	1911	155	56.9	-----	64.5	20.6	14.8
42 establishments.....	1911	223	57.1	-----	52.0	36.8	11.2
	1912	240	56.9	28.8	15.4	39.2	16.7

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.
PER CENT—Continued.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
Combers, male:							
4 establishments.....	1907	52	58.5	.....	.....	75.0	25.0
	1908	29	58.6	.....	.....	72.4	27.6
	1909	29	58.6	.....	.....	72.4	27.6
	1910	42	57.2	.....	69.0	.....	31.0
6 establishments.....	1910	106	56.5	.....	87.7	.....	12.3
	1911	124	56.5	.....	87.1	.....	12.9
9 establishments.....	1911	188	56.5	.....	81.9	9.6	8.5
	1912	181	55.0	71.8	7.7	12.2	8.3
Combers, female:							
4 establishments.....	1907	101	55.7	.....	78.2	17.8	4.0
	1908	117	55.8	.....	77.8	17.1	5.1
	1909	111	55.8	.....	76.6	19.8	3.6
	1910	110	55.4	.....	96.4	.....	3.6
6 establishments.....	1910	129	55.5	.....	96.9	.....	3.1
	1911	118	55.4	.....	96.6	.....	3.4
8 establishments.....	1911	139	55.8	.....	82.0	15.1	2.9
	1912	150	55.8	.....	82.0	13.3	4.7
Dressers, male:							
19 establishments.....	1907	119	58.8	.....	5.0	47.9	47.1
	1908	97	58.4	.....	7.2	61.9	30.9
	1909	126	58.3	.....	13.5	52.4	34.1
	1910	126	57.9	.....	35.7	29.4	34.9
27 establishments.....	1910	214	57.1	.....	61.2	18.2	20.6
	1911	215	57.1	.....	63.3	16.3	20.5
46 establishments.....	1911	337	57.1	.....	58.2	27.9	13.9
	1912	384	56.3	28.1	35.4	25.5	10.9
Laborers, dyehouse, male:							
19 establishments.....	1907	434	58.1	.....	11.5	65.2	23.3
	1908	385	57.8	.....	16.4	67.5	16.1
	1909	514	57.9	.....	16.0	63.0	21.0
	1910	570	56.5	.....	77.9	12.3	9.8
27 establishments.....	1910	837	56.3	.....	84.6	8.7	6.7
	1911	877	56.5	.....	82.0	6.8	11.2
45 establishments.....	1911	1,116	56.6	.....	73.6	17.3	9.1
	1912	1,093	55.5	51.3	24.9	16.9	6.9
Loom fixers, male:							
19 establishments.....	1907	223	58.0	.....	13.9	62.8	23.3
	1908	218	57.9	.....	14.7	69.3	16.1
	1909	242	58.1	.....	12.0	66.1	21.9
	1910	260	57.0	.....	66.2	13.5	20.4
27 establishments.....	1910	429	56.6	.....	78.8	8.9	12.4
	1911	390	56.6	.....	79.2	9.5	11.3
46 establishments.....	1911	569	56.7	.....	68.4	23.9	7.7
	1912	589	55.9	37.7	32.9	21.2	8.1
Menders, female:							
18 establishments.....	1907	403	58.5	.....	14.1	39.2	46.7
	1908	341	58.4	.....	17.9	32.8	49.3
	1909	583	58.8	.....	12.5	30.7	56.8
	1910	498	58.0	.....	34.1	23.3	42.6
25 establishments.....	1910	1,196	56.8	.....	72.6	9.7	17.7
	1911	1,115	56.9	.....	71.8	6.7	21.4
44 establishments.....	1911	1,623	56.8	.....	71.5	13.7	14.7
	1912	1,668	55.7	53.5	20.3	14.1	12.1
Spinners, frame, male:							
2 establishments.....	1910	114	56.0	.....	100.0	.....	.....
	1911	134	56.0	.....	100.0	.....	.....
3 establishments.....	1911	194	56.0	.....	100.0	.....	.....
	1912	244	54.0	100.0	.....	.....	.....

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

PER CENT—Concluded.

Occupation, sex, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
Spinners, frame, female:							
5 establishments.....	1907	323	57.6	.....	15.5	79.3	5.3
	1908	284	57.5	.....	21.1	73.2	5.6
	1909	295	57.5	.....	20.3	75.3	4.4
	1910	286	56.0	.....	94.1	.....	5.9
8 establishments.....	1910	578	56.0	.....	97.1	.....	2.9
	1911	683	56.0	.....	98.2	.....	1.8
10 establishments.....	1911	1,002	56.4	.....	79.9	18.9	1.2
	1912	1,070	55.2	53.0	32.2	14.1	.7
Spinners, mule, male:							
19 establishments.....	1907	384	58.6	.....	12.5	38.3	49.2
	1908	267	58.2	.....	18.0	43.4	38.6
	1909	297	58.2	.....	16.2	47.1	36.7
	1910	320	57.5	.....	38.1	39.7	22.2
26 establishments.....	1910	529	57.0	.....	60.9	25.7	13.4
	1911	454	56.9	.....	63.0	22.2	14.8
40 establishments.....	1911	638	57.3	.....	49.4	37.9	12.7
	1912	719	56.5	35.5	14.9	38.2	11.4
Twisters, female:							
7 establishments.....	1907	186	57.2	.....	41.9	36.0	22.0
	1908	188	57.6	.....	31.9	40.6	27.5
	1909	223	58.0	.....	22.4	41.7	35.9
	1910	216	57.2	.....	55.6	13.4	31.0
10 establishments.....	1910	332	56.9	.....	68.4	8.7	22.9
	1911	342	56.8	.....	75.4	.....	24.6
12 establishments.....	1911	600	56.7	.....	76.0	10.0	14.0
	1912	751	55.7	51.3	27.8	4.8	16.1
Weavers, male:							
19 establishments.....	1907	1,653	58.5	.....	11.2	44.9	43.9
	1908	1,409	58.6	.....	3.1	60.3	36.7
	1909	1,589	58.6	.....	3.1	63.0	33.9
	1910	1,716	57.8	.....	41.0	27.3	31.7
27 establishments.....	1910	2,907	57.1	.....	64.7	16.6	18.7
	1911	2,563	57.1	.....	64.5	14.1	21.4
46 establishments.....	1911	4,049	57.1	.....	60.0	25.5	14.5
	1912	4,476	56.3	33.4	28.1	23.6	14.9
Weavers, female:							
19 establishments.....	1907	1,873	58.0	.....	14.9	63.3	21.7
	1908	1,882	57.7	.....	18.2	69.8	12.0
	1909	1,807	57.6	.....	22.5	64.6	12.9
	1910	2,116	56.4	.....	80.2	7.6	12.2
27 establishments.....	1910	2,855	56.3	.....	84.4	6.5	9.0
	1911	2,366	56.4	.....	81.3	6.3	12.4
46 establishments.....	1911	3,384	56.8	.....	63.4	27.9	8.7
	1912	3,586	55.9	38.8	27.9	25.3	7.9
Wool sorters, male:							
11 establishments.....	1907	184	58.0	.....	9.2	78.8	12.0
	1908	164	57.8	.....	13.4	78.0	8.5
	1909	186	57.9	.....	8.1	83.9	8.1
	1910	193	56.5	.....	83.9	4.7	11.4
18 establishments.....	1910	289	56.3	.....	88.2	4.2	7.6
	1911	335	56.3	.....	89.3	3.9	6.9
19 establishments.....	1911	444	56.4	.....	83.1	11.7	5.2
	1912	471	55.2	61.4	21.4	14.0	3.2

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

BURLERS: Female.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
1907.							
Massachusetts.....	3	175	58.0			175	
New York.....	2	75	60.0				75
Rhode Island.....	3	145	58.0			145	
Other States.....	10	216	58.2		57	52	107
Total.....	18	611	58.3		57	372	182
1908.							
Massachusetts.....	3	187	58.0			187	
New York.....	2	48	60.0				48
Rhode Island.....	3	99	58.0			99	
Other States.....	10	160	57.4		60	56	44
Total.....	18	494	58.0		60	342	92
1909.							
Massachusetts.....	3	216	58.0			216	
New York.....	2	70	60.0				70
Rhode Island.....	3	104	58.0			104	
Other States.....	10	192	57.3		73	74	45
Total.....	18	582	58.0		73	394	115
1910.							
Massachusetts.....	7	496	56.0		496		
New Jersey.....	2	144	55.5		144		
New York.....	2	67	60.0				67
Rhode Island.....	5	199	56.0		199		
Other States.....	10	128	58.5			96	32
Total.....	26	1,034	56.5		839	96	99
1911.							
Massachusetts.....	11	695	56.0		683	12	
New Hampshire.....	6	257	57.9		6	251	
New Jersey.....	3	158	55.9		125	33	
New York.....	2	78	60.0				78
Rhode Island.....	5	165	56.0		165		
Other States.....	16	163	58.7			109	54
Total.....	43	1,516	56.8		979	405	132
1912.							
Massachusetts.....	11	712	54.0	712			
New Hampshire.....	6	253	58.0		4	249	
New Jersey.....	3	107	56.8		53	54	
New York.....	2	85	60.0				85
Rhode Island.....	5	186	56.0		186		
Other States.....	16	128	58.3			109	19
Total.....	43	1,471	55.9	712	243	412	104

DRESSERS: Male.

1911.							
Massachusetts.....	13	123	56.1		117	6	
Rhode Island.....	5	58	56.0		58		
Other States.....	28	156	58.2		21	88	47
Total.....	46	337	57.1		196	94	47
1912.							
Massachusetts.....	13	154	54.6	108	46		
Rhode Island.....	5	71	56.0		71		
Other States.....	28	159	58.0		19	98	42
Total.....	46	384	56.3	108	136	98	42

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

LABORERS, DYEHOUSE: Male.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
1907.							
Massachusetts.....	4	173	58.0			173	
Rhode Island.....	3	90	58.0			90	
Other States.....	12	171	58.3		50	20	101
Total.....	19	434	58.1		50	283	101
1908.							
Massachusetts.....	4	125	58.0			125	
Rhode Island.....	3	101	58.0			101	
Other States.....	12	159	57.6		63	34	62
Total.....	19	385	57.8		63	260	62
1909.							
Massachusetts.....	4	117	58.0			117	
Rhode Island.....	3	166	58.0			166	
Other States.....	12	231	57.9		82	41	108
Total.....	19	514	57.9		82	324	108
1910.							
Massachusetts.....	8	349	56.0		349		
New Jersey.....	2	107	55.3		107		
Rhode Island.....	5	252	56.0		252		
Other States.....	12	129	58.9			73	56
Total.....	27	837	56.3		708	73	56
1911.							
Massachusetts.....	13	560	56.0		550	10	
New Hampshire.....	7	94	57.9		4	90	
New Jersey.....	3	111	55.6		98	13	
Rhode Island.....	5	169	56.0		169		
Other States.....	17	182	59.1			80	102
Total.....	45	1,116	56.6		821	193	102
1912.							
Massachusetts.....	13	627	54.2	561	66		
New Hampshire.....	7	96	57.8		6	90	
New Jersey.....	3	88	55.1		88		
Rhode Island.....	5	112	56.0		112		
Other States.....	17	170	58.9			95	75
Total.....	45	1,093	55.5	561	272	185	75

LOOM FIXERS: Male.

1907.							
Massachusetts.....	4	57	58.0			57	
Rhode Island.....	3	70	58.0			70	
Other States.....	12	96	58.1		31	13	52
Total.....	19	223	58.0		31	140	52
1908.							
Massachusetts.....	4	58	58.0			58	
Rhode Island.....	3	74	58.0			74	
Other States.....	12	86	57.7		32	19	35
Total.....	19	218	57.9		32	151	35

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

LOOM FIXERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
1909.							
Massachusetts.....	4	68	58.0			68	
Rhode Island.....	3	68	58.0			68	
Other States.....	12	106	58.2		29	24	53
Total.....	19	242	58.1		29	160	53
1910.							
Massachusetts.....	8	197	56.0		197		
Rhode Island.....	5	95	56.0		95		
Other States.....	14	137	57.9		46	38	53
Total.....	27	429	56.6		338	38	53
1911.							
Massachusetts.....	13	259	56.0		256	3	
New Hampshire.....	7	83	57.9		3	80	
Rhode Island.....	5	85	56.0		85		
Other States.....	21	142	57.8		45	53	44
Total.....	46	569	56.7		389	136	44
1912.							
Massachusetts.....	13	253	54.2	222	31		
New Hampshire.....	7	76	57.9		2	74	
Rhode Island.....	5	89	56.0		89		
Other States.....	21	171	57.3		72	51	48
Total.....	46	589	55.9	222	194	125	48

MENDERS: Female.

1910.							
Massachusetts.....	8	441	56.0		441		
New Jersey.....	2	143	55.5		143		
New York.....	2	129	60.0				129
Rhode Island.....	5	284	56.0		284		
Other States.....	8	199	58.8			116	83
Total.....	25	1,196	56.8		868	116	212
1911.							
Maine.....	10	107	58.0			107	
Massachusetts.....	13	802	56.0		793	9	
New Jersey.....	3	160	55.9		126	34	
New York.....	2	144	60.0				144
Rhode Island.....	5	238	56.0		238		
Other States.....	11	172	59.0		4	73	95
Total.....	44	1,623	56.8		1,161	223	239
1912.							
Maine.....	10	105	58.0			105	
Massachusetts.....	13	892	54.0	892			
New Jersey.....	3	113	56.7		59	54	
New York.....	2	164	60.0				164
Rhode Island.....	5	277	56.0		277		
Other States.....	11	117	58.6		3	77	37
Total.....	44	1,668	55.7	892	339	236	201

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

SPINNERS, FRAME: Male.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
1910.							
Massachusetts.....	2	114	56.0		114		
1911.							
Massachusetts.....	3	194	56.0		194		
1912.							
Massachusetts.....	3	244	54.0	244			

SPINNERS, FRAME: Female.

1907.							
Rhode Island.....	2	141	58.0			141	
Other States.....	3	182	57.4		50	115	17
Total.....	5	323	57.6		50	256	17
1908.							
Rhode Island.....	2	120	58.0			120	
Other States.....	3	164	57.1		60	88	16
Total.....	5	284	57.5		60	208	16
1909.							
Rhode Island.....	2	127	58.0			127	
Other States.....	3	168	57.1		60	95	13
Total.....	5	295	57.5		60	222	13
1910.							
Massachusetts.....	2	325	56.0		325		
Rhode Island.....	3	146	56.0		146		
Other States.....	3	107	56.1		90		17
Total.....	8	578	56.0		561		17
1911.							
Massachusetts.....	3	536	56.0		536		
New Jersey.....	2	82	55.3		82		
Rhode Island.....	3	183	56.0		183		
Other States.....	2	201	58.1			189	12
Total.....	10	1,002	56.4		801	189	12
1912.							
Massachusetts.....	3	567	54.0	567			
New Jersey.....	2	114	55.2		114		
Rhode Island.....	3	231	56.0		231		
Other States.....	2	158	58.1			151	7
Total.....	10	1,070	55.2	567	345	151	7

SPINNERS, MULE: Male.

1907.							
Massachusetts.....	4	48	58.0			48	
New Hampshire.....	3	65	58.6			46	19
Rhode Island.....	3	49	58.0			94	
Other States.....	9	222	58.9		48	4	170
Total.....	19	384	58.6		48	147	189

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

SPINNERS, MULE: Male—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
1908.							
Massachusetts.....	4	39	58.0			39	
New Hampshire.....	3	44	58.0			44	
Rhode Island.....	3	22	58.0			22	
Other States.....	9	162	58.4		48	11	103
Total.....	19	267	58.2		48	116	103
1909.							
Massachusetts.....	4	44	58.0			44	
New Hampshire.....	3	55	58.0			55	
Rhode Island.....	3	17	58.0			17	
Other States.....	9	181	58.4		48	24	109
Total.....	19	297	58.2		48	140	109
1910.							
Massachusetts.....	8	201	56.0		201		
New Hampshire.....	3	71	58.0			71	
Rhode Island.....	4	49	56.0		49		
Other States.....	11	208	57.8		72	65	71
Total.....	26	529	57.0		322	136	71
1911.							
Maine.....	11	117	58.0			117	
Massachusetts.....	11	262	56.0		246	16	
New Hampshire.....	7	94	58.0			94	
Rhode Island.....	4	51	56.0		51		
Other States.....	7	114	59.0		18	15	81
Total.....	40	638	57.3		315	242	81
1912.							
Maine.....	11	139	58.0			139	
Massachusetts.....	11	279	54.2	255	24		
New Hampshire.....	7	113	58.0			113	
Rhode Island.....	4	65	56.0		65		
Other States.....	7	123	59.0		18	23	82
Total.....	40	719	56.5	255	107	275	82

TWISTERS: Female.

1910.							
Massachusetts.....	2	118	56.0		118		
New York.....	2	67	60.0				67
Rhode Island.....	4	69	58.8		40	29	
Other States.....	2	78	55.6		69		9
Total.....	10	332	56.9		227	29	76
1911.							
Massachusetts.....	3	295	56.0		295		
New Jersey.....	2	64	55.3		64		
New York.....	2	78	60.0				78
Rhode Island.....	3	97	56.0		97		
Other States.....	2	66	58.2			60	6
Total.....	12	600	56.7		456	60	84

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

TWISTERS: Female—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
1912.							
Massachusetts.....	3	385	54.0	385			
New Jersey.....	2	73	55.4		73		
New York.....	2	116	60.0				116
Rhode Island.....	3	136	56.0		136		
Other States.....	2	41	58.2			36	5
Total.....	12	751	55.7	385	209	36	121

WEAVERS: Male.

1907.							
Connecticut.....	2	197	58.8			121	76
Maine.....	3	109	60.0				109
Massachusetts.....	4	257	58.0			257	
New Hampshire.....	3	121	59.1			55	66
New York.....	2	231	60.0				231
Rhode Island.....	3	310	58.0			310	
Other States.....	2	428	57.8		185		243
Total.....	19	1,653	58.5		185	743	725
1908.							
Connecticut.....	2	159	58.0			159	
Maine.....	3	79	60.0				79
Massachusetts.....	4	234	58.0			234	
New Hampshire.....	3	100	58.0			100	
New York.....	2	195	60.0				195
Rhode Island.....	3	356	58.0			356	
Other States.....	2	286	59.2		43		243
Total.....	19	1,409	58.6		43	849	517
1909.							
Connecticut.....	2	187	58.0			187	
Maine.....	3	99	60.0				99
Massachusetts.....	4	296	58.0			296	
New Hampshire.....	3	153	58.0			153	
New York.....	2	287	60.0				287
Rhode Island.....	3	365	58.0			365	
Other States.....	2	202	58.8		49		153
Total.....	19	1,589	58.6		49	1,001	539
1910.							
Connecticut.....	2	189	58.0			189	
Maine.....	4	119	58.0			119	
Massachusetts.....	8	1,083	58.0		1,083		
New Hampshire.....	3	175	58.0			175	
New Jersey.....	2	138	55.7		138		
New York.....	2	292	60.0				292
Rhode Island.....	5	659	56.0		659		
Other States.....	1	252	60.0				252
Total.....	27	2,907	57.1		1,880	483	544
1911.							
Connecticut.....	4	207	58.4			169	38
Maine.....	11	356	58.0			356	
Massachusetts.....	13	1,739	56.0		1,739		
New Hampshire.....	7	482	57.8		37	445	

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

WEAVERS: Male—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
1911.							
New Jersey.....	3	172	56.4		110	62	
New York.....	2	263	60.0				263
Rhode Island.....	5	544	56.0		544		
Other States.....	1	286	60.0				286
Total.....	46	4,049	57.1		2,430	1,032	587
1912.							
Connecticut.....	4	231	58.3			192	39
Maine.....	11	410	58.0			410	
Massachusetts.....	13	1,823	54.4	1,494	329		
New Hampshire.....	7	493	57.8		38	455	
New Jersey.....	3	207	55.0		207		
New York.....	2	359	60.0				359
Rhode Island.....	5	683	56.0		683		
Other States.....	1	270	60.0				270
Total.....	46	4,476	56.3	1,494	1,257	1,057	669

WEAVERS: Female.

1907.							
Massachusetts.....	4	534	58.0			534	
New Hampshire.....	3	108	58.8			87	41
New York.....	2	110	60.0				110
Rhode Island.....	3	582	58.0			582	
Other States.....	7	539	57.4		280	3	256
Total.....	19	1,873	58.0		280	1,186	407
1908.							
Massachusetts.....	4	639	58.0			639	
New Hampshire.....	3	79	58.0			79	
New York.....	2	65	60.0				65
Rhode Island.....	3	590	58.0			590	
Other States.....	7	509	56.6		343	6	160
Total.....	19	1,882	57.7		343	1,314	225
1909.							
Massachusetts.....	4	612	58.0			612	
New Hampshire.....	3	79	58.0			79	
New York.....	2	102	60.0				102
Rhode Island.....	3	458	58.0			458	
Other States.....	7	556	56.3		406	19	131
Total.....	19	1,807	57.6		406	1,168	233
1910.							
Massachusetts.....	8	1,233	56.0		1,233		
New Hampshire.....	3	98	58.0			98	
New Jersey.....	2	625	55.1		625		
New York.....	2	101	60.0				101
Rhode Island.....	5	553	56.0		553		
Other States.....	7	245	59.3			88	157
Total.....	27	2,855	56.3		2,411	186	258
1911.							
Maine.....	11	198	58.0			198	
Massachusetts.....	13	1,199	56.0		1,181	18	
New Hampshire.....	7	671	57.9		17	654	
New Jersey.....	3	545	55.4		502	43	

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

WEAVERS: Female—Concluded.

Year and State.	Number of establishments.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
1911.							
New York.....	2	107	60.0				107
Rhode Island.....	5	446	56.0		446		
Other States.....	5	218	59.7			31	187
Total.....	46	3,384	56.8		2,146	944	294
1912.							
Maine.....	11	190	58.0			190	
Massachusetts.....	13	1,390	54.0	1,390			
New Hampshire.....	7	700	57.9		16	684	
New Jersey.....	3	615	55.0		615		
New York.....	2	94	60.0				94
Rhode Island.....	5	371	56.0		371		
Other States.....	5	226	59.7			35	191
Total.....	46	3,586	55.9	1,390	1,002	909	285

WOOL SORTERS: Male.

1907.							
Massachusetts.....	4	83	58.0			83	
Rhode Island.....	2	52	58.0			52	
Other States.....	5	49	57.9		17	10	22
Total.....	11	184	58.0		17	145	22
1908.							
Massachusetts.....	4	76	58.0			76	
Rhode Island.....	2	42	58.0			42	
Other States.....	5	46	57.2		22	10	14
Total.....	11	164	57.8		22	128	14
1909.							
Massachusetts.....	4	65	58.0			65	
Rhode Island.....	2	76	58.0			76	
Other States.....	5	45	57.7		15	15	15
Total.....	11	186	57.9		15	156	15
1910.							
Massachusetts.....	7	153	56.0		153		
Rhode Island.....	3	73	56.0		73		
Other States.....	8	63	57.6		29	12	22
Total.....	18	289	56.3		255	12	22
1911.							
Massachusetts.....	6	270	56.0		270		
Rhode Island.....	3	75	56.0		75		
Other States.....	10	99	57.9		24	52	23
Total.....	19	444	56.4		369	52	23
1912.							
Massachusetts.....	6	289	54.0	289			
Rhode Island.....	3	81	56.0		81		
Other States.....	10	101	57.2		20	66	15
Total.....	19	471	55.2	289	101	66	15

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

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

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
BURLERS, FEMALE.							
Massachusetts:							
3 establishments.....	1907	175	58.0			175	
	1908	187	58.0			187	
	1909	216	58.0			216	
	1910	213	56.0		213		
7 establishments.....	1910	496	56.0		496		
	1911	517	56.0		517		
11 establishments.....	1911	695	56.0		683	12	
	1912	712	54.0	712			
New Hampshire:							
6 establishments.....	1911	257	57.9		6	251	
	1912	253	58.0		4	249	
New Jersey:							
2 establishments.....	1910	144	55.5		144		
	1911	125	55.3		125		
3 establishments.....	1911	158	55.9		125	33	
	1912	107	56.8		53	54	
New York:							
2 establishments.....	1907	75	60.0				75
	1908	48	60.0				48
	1909	70	60.0				70
	1910	67	60.0				67
2 establishments.....	1910	67	60.0				67
	1911	78	60.0				78
2 establishments.....	1911	78	60.0				78
	1912	85	60.0				85
Rhode Island:							
3 establishments.....	1907	145	58.0			145	
	1908	99	58.0			99	
	1909	104	58.0			104	
	1910	119	56.0		119		
5 establishments.....	1910	199	56.0		199		
	1911	157	56.0		157		
5 establishments.....	1911	165	56.0		165		
	1912	186	56.0		186		
DRESSERS, MALE.							
Massachusetts:							
13 establishments.....	1911	123	56.1		117	6	
	1912	154	54.6	108	46		
Rhode Island:							
5 establishments.....	1911	58	56.0		58		
	1912	71	56.0		71		
LABORERS, DYEHOUSE, MALE.							
Massachusetts:							
4 establishments.....	1907	173	58.0			173	
	1908	125	58.0			125	
	1909	117	58.0			117	
	1910	168	56.0		168		
8 establishments.....	1910	349	56.0		349		
	1911	457	56.0		457		
13 establishments.....	1911	560	56.0		550	10	
	1912	627	54.2	561	66		
New Hampshire:							
7 establishments.....	1911	94	57.9		4	90	
	1912	96	57.8		6	90	

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
LABORERS, DYEHOUSE, MALE—concluded.							
New Jersey:							
2 establishments.....	{ 1910	107	55.3		107		
	{ 1911	98	55.3		98		
3 establishments.....	{ 1911	111	55.6		98	13	
	{ 1912	88	55.1		88		
Rhode Island:							
3 establishments.....	{ 1907	90	58.0			90	
	{ 1908	101	58.0			101	
	{ 1909	166	58.0			166	
	{ 1910	197	56.0		197		
5 establishments.....	{ 1910	252	56.0		252		
	{ 1911	164	56.0		164		
5 establishments.....	{ 1911	169	56.0		169		
	{ 1912	112	56.0		112		
LOOM FIXERS, MALE.							
Massachusetts:							
4 establishments.....	{ 1907	57	58.0			57	
	{ 1908	58	58.0			58	
	{ 1909	68	58.0			68	
	{ 1910	75	56.0		75		
8 establishments.....	{ 1910	197	56.0		197		
	{ 1911	188	56.0		188		
13 establishments.....	{ 1911	259	56.0		256	3	
	{ 1912	253	54.2	222	31		
New Hampshire:							
7 establishments.....	{ 1911	83	57.9		3	80	
	{ 1912	76	57.9		2	74	
Rhode Island:							
3 establishments.....	{ 1907	70	58.0			70	
	{ 1908	74	58.0			74	
	{ 1909	68	58.0			68	
	{ 1910	64	56.0		64		
5 establishments.....	{ 1910	95	56.0		95		
	{ 1911	79	56.0		79		
5 establishments.....	{ 1911	85	56.0		85		
	{ 1912	89	56.0		89		
MENDERS, FEMALE.							
Maine:							
10 establishments.....	{ 1911	107	58.0			107	
	{ 1912	105	58.0			105	
Massachusetts:							
8 establishments.....	{ 1910	441	56.0		441		
	{ 1911	470	56.0		470		
13 establishments.....	{ 1911	802	56.0		793	9	
	{ 1912	892	54.0	892			
New Jersey:							
2 establishments.....	{ 1910	143	55.5		143		
	{ 1911	126	55.3		126		
3 establishments.....	{ 1911	160	55.9		126	34	
	{ 1912	113	56.7		59	54	
New York:							
2 establishments.....	{ 1910	129	60.0				129
	{ 1911	144	60.0				144
2 establishments.....	{ 1911	144	60.0				144
	{ 1912	164	60.0				164
Rhode Island:							
5 establishments.....	{ 1910	284	56.0		284		
	{ 1911	205	56.0		205		
5 establishments.....	{ 1911	238	56.0		238		
	{ 1912	277	56.0		277		

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
SPINNERS, FRAME, MALE.							
Massachusetts:							
2 establishments.....	{ 1910	114	56.0		114		
	{ 1911	134	56.0		134		
3 establishments.....	{ 1911	194	56.0		194		
	{ 1912	244	54.0	244			
SPINNERS, FRAME, FEMALE.							
Massachusetts:							
2 establishments.....	{ 1910	325	56.0		325		
	{ 1911	406	56.0		406		
3 establishments.....	{ 1911	536	56.0		536		
	{ 1912	567	54.0	567			
New Jersey:							
2 establishments.....	{ 1911	82	55.3		82		
	{ 1912	114	55.2		114		
Rhode Island:							
2 establishments.....	{ 1907	141	58.0			141	
	{ 1908	120	58.0			120	
	{ 1909	127	58.0			127	
	{ 1910	115	56.0		115		
3 establishments.....	{ 1910	146	56.0		146		
	{ 1911	183	56.0		183		
3 establishments.....	{ 1911	183	56.0		183		
	{ 1912	231	56.0		231		
SPINNERS, MULE, MALE.							
Maine:							
11 establishments.....	{ 1911	117	58.0			117	
	{ 1912	139	58.0			139	
Massachusetts:							
4 establishments.....	{ 1907	48	58.0			48	
	{ 1908	39	58.0			39	
	{ 1909	44	58.0			44	
	{ 1910	47	56.0		47		
8 establishments.....	{ 1910	201	56.0		201		
	{ 1911	177	56.0		177		
11 establishments.....	{ 1911	262	56.0		246	16	
	{ 1912	279	54.2	255	24		
New Hampshire:							
3 establishments.....	{ 1907	65	58.6			46	19
	{ 1908	44	58.0			44	
	{ 1909	55	58.0			55	
	{ 1910	71	58.0			71	
3 establishments.....	{ 1910	71	58.0			71	
	{ 1911	50	58.0			50	
7 establishments.....	{ 1911	94	58.0			94	
	{ 1912	113	58.0			113	
Rhode Island:							
3 establishments.....	{ 1907	49	58.0			49	
	{ 1908	22	58.0			22	
	{ 1909	17	58.0			17	
	{ 1910	27	56.0		27		
4 establishments.....	{ 1910	49	56.0		49		
	{ 1911	43	56.0		43		
4 establishments.....	{ 1911	51	56.0		51		
	{ 1912	65	56.0		65		

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
TWISTERS, FEMALE.							
Massachusetts:							
2 establishments.....	{ 1910	118	56.0		118		
	{ 1911	111	56.0		111		
3 establishments.....	{ 1911	295	56.0		295		
	{ 1912	385	54.0	385			
New Jersey:							
2 establishments.....	{ 1911	64	55.3		64		
	{ 1912	73	55.4		73		
New York:							
2 establishments.....	{ 1910	67	60.0				67
	{ 1911	78	60.0				78
2 establishments.....	{ 1911	78	60.0				78
	{ 1912	116	60.0				116
Rhode Island:							
4 establishments.....	{ 1910	69	56.8		40	29	
	{ 1911	100	56.0		100		
3 establishments.....	{ 1911	97	56.0		97		
	{ 1912	136	56.0		136		
WEAVERS, MALE.							
Connecticut:							
2 establishments.....	{ 1907	197	58.8			121	76
	{ 1908	159	58.0			159	
	{ 1909	187	58.0			187	
	{ 1910	189	58.0			189	
2 establishments.....	{ 1910	189	58.0			189	
	{ 1911	139	58.0			139	
4 establishments.....	{ 1911	207	58.4			169	38
	{ 1912	231	58.3			192	39
Maine:							
3 establishments.....	{ 1907	109	60.0				109
	{ 1908	79	60.0				79
	{ 1909	99	60.0				99
	{ 1910	104	58.0			104	
4 establishments.....	{ 1910	119	58.0			119	
	{ 1911	106	58.0			106	
11 establishments.....	{ 1911	356	58.0			356	
	{ 1912	410	58.0			410	
Massachusetts:							
4 establishments.....	{ 1907	257	58.0			257	
	{ 1908	234	58.0			234	
	{ 1909	296	58.0			296	
	{ 1910	256	56.0		256		
8 establishments.....	{ 1910	1,083	56.0		1,083		
	{ 1911	1,051	56.0		1,051		
13 establishments.....	{ 1911	1,739	56.0		1,739		
	{ 1912	1,823	54.4	1,494	329		
New Hampshire:							
3 establishments.....	{ 1907	121	59.1			55	66
	{ 1908	100	58.0			100	
	{ 1909	153	58.0			153	
	{ 1910	175	58.0			175	
3 establishments.....	{ 1910	175	58.0			175	
	{ 1911	116	58.0			116	
7 establishments.....	{ 1911	482	57.8		37	445	
	{ 1912	493	57.8		38	455	

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Contd.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
WEAVERS, MALE—concluded.							
New Jersey:							
2 establishments.....	{ 1910	138	55.7		138		
	{ 1911	110	55.5		110		
3 establishments.....	{ 1911	172	56.4		110	62	
	{ 1912	207	55.0		207		
New York:							
2 establishments.....	{ 1907	231	60.0				231
	{ 1908	195	60.0				195
	{ 1909	287	60.0				287
	{ 1910	292	60.0				292
2 establishments.....	{ 1910	292	60.0				292
	{ 1911	263	60.0				263
2 establishments.....	{ 1911	263	60.0				263
	{ 1912	359	60.0				359
Rhode Island:							
3 establishments.....	{ 1907	310	58.0			310	
	{ 1908	356	58.0			356	
	{ 1909	365	58.0			365	
	{ 1910	403	56.0		403		
5 establishments.....	{ 1910	659	56.0		659		
	{ 1911	492	56.0		492		
5 establishments.....	{ 1911	544	56.0		544		
	{ 1912	683	56.0		683		
WEAVERS, FEMALE.							
Maine:							
11 establishments.....	{ 1911	198	58.0			198	
	{ 1912	190	58.0			190	
Massachusetts:							
4 establishments.....	{ 1907	534	58.0			534	
	{ 1908	639	58.0			639	
	{ 1909	612	58.0			612	
	{ 1910	624	56.0		624		
8 establishments.....	{ 1910	1,233	56.0		1,233		
	{ 1911	954	56.0		954		
13 establishments.....	{ 1911	1,199	56.0		1,181	18	
	{ 1912	1,390	54.0	1,390			
New Hampshire:							
3 establishments.....	{ 1907	108	58.8			67	41
	{ 1908	79	58.0			79	
	{ 1909	79	58.0			79	
	{ 1910	98	58.0			98	
3 establishments.....	{ 1910	98	58.0			98	
	{ 1911	70	58.0			70	
7 establishments.....	{ 1911	671	57.9		17	654	
	{ 1912	700	57.9		16	684	
New Jersey:							
2 establishments.....	{ 1910	625	55.1		625		
	{ 1911	502	55.1		502		
3 establishments.....	{ 1911	545	55.4		502	43	
	{ 1912	615	55.0		615		
New York:							
2 establishments.....	{ 1907	110	60.0				110
	{ 1908	65	60.0				65
	{ 1909	102	60.0				102
	{ 1910	101	60.0				101
2 establishments.....	{ 1910	101	60.0				101
	{ 1911	107	60.0				107
2 establishments.....	{ 1911	107	60.0				107
	{ 1912	94	60.0				94

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

WOOLEN AND WORSTED GOODS MANUFACTURING—Concl'd.

State, and number of establishments.	Year.	Number of employees.	Average nominal full-time hours per week.	Number of employees whose nominal full-time working hours per week were—			
				54.	Over 54 and under 57.	57 and under 60.	60.
WEAVERS, FEMALE—concluded.							
Rhode Island:							
3 establishments.....	1907	582	58.0			582	
	1908	590	58.0			590	
	1909	458	58.0			458	
	1910	527	56.0		527		
5 establishments.....	1910	553	56.0		553		
	1911	468	56.0		468		
5 establishments.....	1911	446	56.0		446		
	1912	371	56.0		371		
WOOL SORTERS, MALE.							
Massachusetts:							
4 establishments.....	1907	83	58.0			83	
	1908	76	58.0			76	
	1909	65	58.0			65	
	1910	83	56.0		83		
7 establishments.....	1910	153	56.0		153		
	1911	200	56.0		200		
6 establishments.....	1911	270	56.0		270		
	1912	289	54.0	289			
Rhode Island:							
2 establishments.....	1907	52	58.0			52	
	1908	42	58.0			42	
	1909	76	58.0			76	
	1910	67	56.0		67		
3 establishments.....	1910	73	56.0		73		
	1911	75	56.0		75		
3 establishments.....	1911	75	56.0		75		
	1912	81	56.0		81		

SILK GOODS MANUFACTURING.

GENERAL SUMMARY.

This study of wages and hours of labor in silk-goods manufacturing shows rates of wages per hour and nominal full-time hours 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.

This present report and also previous reports show wages and hours of labor for each of the most important productive occupations in silk-goods manufacturing, but do not show data for all occupations in the industry. The occupations for which data are shown in this report are doublers, dyehouse laborers, loom fixers, pickers, quillers, reelers, spinners, twisters-in, warpers, broad-goods weavers, ribbon weavers, hard-silk winders, and soft-silk winders, and these occupations include a very large proportion of the total employees on productive work and approximately two-thirds of the total employees both 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.....	5.8 per cent decline.
1912 compared with 1895.....	1.9 per cent decline.
1912 compared with 1900.....	3.0 per cent decline.
1912 compared with 1905.....	1.6 per cent decline.
1912 compared with 1910.....	.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

¹ Previous reports of wages and hours of labor in silk-goods manufacturing have been 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.

1912, inclusive, as far as data are available, are shown in the table which follows:

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

Occupation.	Per cent higher (+) or lower (-) in 1912 than in—				
	1907	1908	1909	1910	1911
Doublers, female.....	-3.0	-1.8	-0.9	-0.6	(¹)
Laborers, dyehouse, male.....	(¹)	+ .2	+ .2	(¹)	(¹)
Loom fixers, male.....	-1.1	- .6	- .8	- .3	- .3
Pickers, female.....	-2.4	-1.7	-1.9	-1.4	-1.6
Quillers, female.....	-2.2	-2.0	-1.7	-1.4	-1.4
Reelers, male.....	(²)	(²)	(²)	- .5	- .3
Reelers, female.....	- .6	+ .3	+ .8	+ .4	- .3
Spinners, male.....	-1.9	-1.9	-1.1	- .5	- .5
Spinners, female.....	-3.8	-3.5	-1.3	-1.1	- .9
Twisters-in, male.....	-2.0	-1.7	-1.4	-1.2	-1.2
Twisters-in, female.....	-2.1	-1.0	-1.2	- .7	- .5
Warpers, male.....	+ .8	+1.1	+ .4	+ .2	+ .2
Warpers, female.....	-1.5	- .1	- .3	-1.2	-1.2
Weavers, broad-goods, male.....	-1.1	- .6	- .8	- .8	-1.0
Weavers, broad-goods, female.....	-3.2	-2.9	-2.6	-2.4	-2.2
Weavers, ribbon, male.....	+ .4	+ .6	+ .6	- .2	(¹)
Weavers, ribbon, female.....	-1.5	-1.2	-1.0	- .4	- .2
Winders, hard-silk, female.....	-3.1	-2.2	-1.2	-1.0	-1.0
Winders, soft-silk, female.....	-2.8	-2.1	-2.1	-1.4	-1.2
Total.....	-1.4	-1.0	- .9	- .8	- .8

¹ No change.

² 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.....	18.8 per cent advance.
1912 compared with 1895.....	15.4 per cent advance.
1912 compared with 1900.....	19.0 per cent advance.
1912 compared with 1905.....	14.2 per cent advance.
1912 compared with 1910.....	4.1 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 THE 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
Doublers, female.....	+ 4.8	+ 5.5	+ 9.6	+ 3.2	-2.1
Laborers, dyehouse, male.....	+15.1	+ 5.6	+ 6.2	+ 5.9	+5.3
Loom fixers, male.....	+11.1	+ 6.2	+ 7.8	+ 4.5	+2.9
Pickers, female.....	+ 5.2	+ 6.9	+ 4.1	+ 5.7	-2.2
Quillers, female.....	+ 8.6	+ 8.9	+15.6	+ .3	+ .2

PER CENT OF INCREASE OR DECREASE IN THE 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
Reelers, male.....	(1)	(1)	(1)	+13.3	+2.7
Reelers, female.....	+21.9	+18.3	+ 6.1	- 1.2	-1.9
Spinners, male.....	+ 2.7	+ 7.8	+ 9.3	+ 5.5	+4.1
Spinners, female.....	+ 5.2	- 2.9	+ 3.3	+ 3.2	+1.1
Twisters-in, male.....	+ 6.1	+13.8	+ 3.0	+ 7.6	+1.3
Twisters-in, female.....	+ 4.1	+21.2	+ 4.7	+ 8.3	+6.9
Warpers, male.....	- 1.2	- 1.4	+ 1.4	- 4.1	-3.2
Warpers, female.....	- 2.2	+ 7.8	+ 3.3	+ 3.6	+7.5
Weavers, broad goods, male.....	- 1.1	+10.4	+ 2.3	+ 2.6	+3.0
Weavers, broad goods, female.....	- 9.3	+ 1.8	+ 1.0	+ 7.6	+5.1
Weavers, ribbon, male.....	+ 4.1	+ 1.3	+15.2	+ 9.3	+5.6
Weavers, ribbon, female.....	+ 9.0	+ 6.9	+ 9.1	+ 3.4	+1.9
Winders, hard silk, female.....	- 3	+12.8	+10.9	+ 5.5	+2.4
Winders, soft silk, female.....	+10.7	+14.8	+ 9.5	+ 5.4	+3.0
Total.....	+ 4.5	+ 7.2	+ 6.0	+ 4.1	+3.4

¹ No data.

The next table shows for the industry the course of nominal full-time hours per week and of rates of wages per hour during the 23-year period from 1890 to 1912. For 1890 to 1905 the occupations combined and the sex for which data are shown are beamers, male; doublers, female; laborers, dyehouse, male; loom fixers, male; pickers, male and female; quillers, female; spinners, male; twisters-in, male; warpers, male and female; weavers, broad goods, male and female; weavers, ribbon, male and female; and winders, female. For 1906 and 1907 the same occupations are included, with the exception of male pickers. For 1907 to 1911 all occupations remaining, except beamers, were continued, and reelers, female; spinners, female; and twisters-in, female, were added, and winders were shown separately for hard silk and soft silk. For 1911 and 1912 the occupations and the sex for which data are shown are doublers, female; laborers, dyehouse, male; loom fixers, male; pickers, female; quillers, female; reelers, male and female; spinners, male and female; twisters-in, male and female; warpers, male and female; weavers, broad goods, male and female; weavers, ribbon, male and female; winders, hard silk, female; and winders, soft silk, female. No type of employees included during the earlier period has been dropped, with the exception of beamers.

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 2 per cent in 9 of the 18 years, the greatest difference being about 5 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 SILK-GOODS MANUFACTURING, 1890 TO 1912.

[Data are included from 12 establishments, 1890-1903; 12 establishments, 1903, 1904; 18 establishments, 1904, 1905; 19 establishments, 1905, 1906; 19 establishments, 1906, 1907; 10 establishments, 1907-1910; 42 establishments, 1910, 1911; and 42 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.....	102.6	98.6
1891.....	102.9	93.2
1892.....	101.9	98.6
1893.....	98.8	102.0
1894.....	98.6	102.9
1895.....	98.5	101.5
1896.....	99.0	106.5
1897.....	99.1	99.1
1898.....	99.3	98.4
1899.....	99.5	97.4
1900.....	99.6	98.4
1901.....	99.2	98.1
1902.....	98.7	101.4
1903.....	98.8	102.6
1904.....	97.2	101.8
1905.....	98.2	102.5
1906.....	98.4	106.1
1907.....	98.0	112.1
1908.....	97.6	109.2
1909.....	97.5	110.5
1910.....	97.4	112.5
1911.....	97.4	113.3
1912.....	96.6	117.1

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, a few 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 SILK-GOODS MANUFACTURING, 1890 TO 1912.

[Data are included from 12 establishments, 1890-1903; 12 establishments, 1903, 1904; 18 establishments, 1904, 1905; 19 establishments, 1905, 1906; 19 establishments, 1906, 1907; 10 establishments, 1907-1910; 42 establishments, 1910, 1911; and 42 establishments, 1911, 1912.]

Year.	Beamers, male.		Doublers, female.		Laborers, dyehouse, male. ¹		Loom fixers, male.		Pickers, male.		Pickers, 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	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1890	104.0	104.5	102.8	107.0	103.1	97.2	104.4	94.7	100.0	109.7	100.0	84.9
1891	104.0	99.8	102.8	98.6	103.1	96.1	104.5	93.8	100.0	111.7	100.0	108.6
1892	104.0	102.1	102.2	99.6	103.1	95.1	101.6	96.4	100.0	98.6	100.0	119.8
1893	98.2	102.1	98.7	98.4	103.1	92.6	98.6	99.0	100.0	84.2	100.0	108.2
1894	98.2	102.1	98.3	101.8	98.7	100.9	98.4	97.7	100.0	96.8	100.0	97.9
1895	97.5	99.8	98.7	102.5	98.2	102.0	98.2	103.7	100.0	104.2	100.0	100.9
1896	98.2	102.1	98.7	102.0	97.9	103.1	98.6	101.0	100.0	82.3	100.0	80.2
1897	98.5	93.0	99.3	95.5	96.9	106.6	98.4	104.2	100.0	94.2	100.0	93.2
1898	99.9	88.0	99.1	97.9	97.9	102.3	98.4	105.1	100.0	110.6	100.0	101.5
1899	97.4	106.6	99.4	96.2	97.8	104.0	98.7	104.3	100.0	107.7	100.0	104.8
1900	99.9	93.2	99.3	97.0	98.1	103.8	98.5	106.2	100.0	111.4	100.0	107.2
1901	98.2	100.6	98.9	106.9	97.4	105.2	98.6	105.3	100.0	107.3	100.0	107.1
1902	99.1	100.2	99.0	114.3	94.8	102.2	98.6	103.0	100.0	111.5	100.0	103.9
1903	98.6	101.3	98.0	123.4	94.8	103.1	98.6	103.3	100.0	119.4	100.0	123.2
1904	98.3	104.5	97.5	130.2	94.8	103.4	98.2	104.0	101.0	117.4	100.5	121.9
1905	98.5	99.5	97.7	126.2	94.8	104.1	98.3	104.4	100.3	112.8	101.7	120.6
1906	98.5	100.7	97.7	132.5	94.9	103.7	98.3	105.6	(²)	(²)	101.7	123.9
1907	98.4	103.4	96.8	146.1	94.9	100.9	98.1	110.1	.....	.....	101.0	133.2
1908	(²)	(²)	95.6	145.1	94.7	109.9	97.6	115.2	.....	.....	100.3	131.0
1909 .....	.....	.....	94.8	139.7	94.7	109.3	97.8	113.5	.....	.....	100.5	134.6
1910 .....	.....	.....	94.5	148.3	94.9	109.6	97.3	117.0	.....	.....	100.0	132.5
1911 .....	.....	.....	94.2	156.4	94.9	110.3	97.3	118.9	.....	.....	100.2	143.2
1912 .....	.....	.....	94.2	153.1	94.9	116.1	97.0	122.3	.....	.....	98.6	140.1

¹ Employees in this occupation were reported as dyers for 1890 to 1907.
² Occupation discontinued.

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

Year.	Quillers, female.		Reelers, male.		Reelers, female.		Spinners, male.		Spinners, female.		Twisters-in, 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	.....	.....	100.0	100.0
1890.....	104.0	103.1	.....	.....	.....	.....	102.7	103.2	.....	.....	106.2	98.2
1891.....	103.4	99.5	.....	.....	.....	.....	102.7	93.9	.....	.....	106.2	100.2
1892.....	101.9	94.8	.....	.....	.....	.....	100.1	99.9	.....	.....	106.2	100.5
1893.....	98.4	104.7	.....	.....	.....	.....	99.2	98.5	.....	.....	97.3	97.7
1894.....	98.1	96.3	.....	.....	.....	.....	99.5	95.9	.....	.....	97.3	104.2
1895.....	97.9	97.4	.....	.....	.....	.....	98.9	99.7	.....	.....	97.3	104.8
1896.....	98.5	109.8	.....	.....	.....	.....	99.1	103.4	.....	.....	97.3	98.9
1897.....	99.3	99.2	.....	.....	.....	.....	99.0	104.4	.....	.....	97.3	102.3
1898.....	99.0	99.2	.....	.....	.....	.....	99.3	99.7	.....	.....	97.3	95.2
1899.....	99.4	95.6	.....	.....	.....	.....	99.6	101.5	.....	.....	97.3	98.0
1900.....	99.8	95.9	.....	.....	.....	.....	99.8	97.2	.....	.....	97.3	102.6
1901.....	99.4	96.4	.....	.....	.....	.....	99.9	105.3	.....	.....	97.3	87.4
1902.....	99.3	97.6	.....	.....	.....	.....	99.8	103.3	.....	.....	97.3	100.2
1903.....	98.7	107.9	.....	.....	.....	.....	99.8	105.3	.....	.....	97.3	103.4
1904.....	98.9	107.7	.....	.....	.....	.....	97.7	109.5	.....	.....	97.3	100.3
1905.....	98.8	107.1	.....	.....	.....	.....	98.2	113.4	.....	.....	97.2	101.9
1906.....	99.0	111.0	.....	.....	.....	.....	98.2	125.0	.....	.....	97.2	103.2
1907.....	99.0	119.0	.....	.....	¹ 100.0	¹ 100.0	96.0	127.2	¹ 100.0	¹ 100.0	97.2	110.7
1908.....	98.8	118.6	.....	.....	¹ 99.1	¹ 103.0	96.0	121.1	¹ 99.7	¹ 108.3	96.9	103.2
1909.....	98.5	111.8	.....	.....	¹ 98.6	¹ 114.9	95.2	119.5	¹ 97.5	¹ 101.8	96.7	114.0
1910.....	98.2	128.8	² 100.0	² 100.0	¹ 99.0	¹ 123.4	94.7	123.8	¹ 97.3	¹ 101.9	96.5	109.1
1911.....	98.2	128.9	² 99.8	² 110.3	¹ 99.7	¹ 124.2	94.7	125.4	¹ 97.1	¹ 104.1	96.5	115.9
1912.....	96.8	129.2	² 99.5	² 113.3	¹ 99.4	¹ 121.9	94.2	130.6	¹ 96.2	¹ 105.2	95.3	117.4

¹ Data for 1890 to 1906 not available; computed with 1907=100.² Data for 1890 to 1909 not available; computed with 1910=100.

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

Year.	Twisters-in, female.		Warpers, male.		Warpers, female.		Weavers, broad goods, male.		Weavers, broad goods, 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	100.0	100.0	100.0	100.0
1890.....			105.3	93.1	103.1	96.1	102.9	95.6	100.8	95.6
1891.....			105.4	90.6	103.1	88.6	103.7	98.0	102.0	89.9
1892.....			102.9	97.9	103.1	97.6	101.1	102.6	100.6	100.6
1893.....			98.1	100.4	98.4	103.8	98.2	105.8	98.7	105.2
1894.....			98.1	93.8	97.8	104.3	98.2	101.2	99.0	111.0
1895.....			98.1	110.1	98.6	105.6	98.3	97.3	98.7	101.3
1896.....			98.1	96.8	98.4	111.0	98.1	111.2	100.2	113.0
1897.....			98.1	110.5	98.6	105.7	99.3	97.9	100.1	96.1
1898.....			98.1	105.0	99.3	90.8	100.1	95.5	99.9	94.5
1899.....			98.1	101.7	99.3	96.5	100.2	94.6	100.0	92.8
1900.....			98.1	111.6	100.1	90.0	100.2	98.9	100.1	96.1
1901.....			98.1	116.3	100.2	88.3	100.6	90.8	99.2	94.0
1902.....			98.1	122.8	99.9	94.4	100.9	97.4	99.4	100.5
1903.....			98.1	112.4	100.0	90.9	100.3	94.3	99.7	99.0
1904.....			98.1	124.3	99.4	97.4	100.1	101.4	99.4	92.8
1905.....			96.5	135.0	99.4	96.0	100.2	104.1	99.4	94.4
1906.....			96.6	132.9	99.5	100.5	99.9	109.9	99.6	97.6
1907.....	1 100.0	1 100.0	96.8	138.5	98.8	106.9	99.9	114.7	99.1	107.5
1908.....	1 98.9	1 85.9	96.5	138.8	97.4	103.7	99.4	102.7	98.8	95.8
1909.....	1 99.1	1 99.4	97.2	134.9	97.6	101.2	99.6	110.9	98.5	96.5
1910.....	1 98.6	1 96.1	97.4	142.7	98.5	100.9	99.6	110.5	98.3	98.1
1911.....	1 98.4	1 97.4	97.4	141.3	98.5	97.2	99.8	110.1	98.1	92.8
1912.....	1 97.9	1 104.1	97.6	136.8	97.3	104.5	98.8	113.4	95.9	97.5

¹ Data for 1890 to 1906 not available; computed with 1907=100.

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

Year.	Weavers, ribbon, male.		Weavers, ribbon, female.		Winders, female. ¹		Winders, hard silk, female. ²		Winders, soft silk, female. ²	
	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	100.0	100.0				
1890.....	105.0	116.5	100.0	99.3	103.0	95.9				
1891.....	104.0	98.4	100.0	102.0	103.1	84.3				
1892.....	105.3	98.7	100.0	100.2	102.2	92.8				
1893.....	98.0	107.1	100.0	101.4	98.4	98.4				
1894.....	98.0	90.2	100.0	100.2	98.7	106.8				
1895.....	98.0	100.1	100.0	95.6	98.7	106.2				
1896.....	98.0	102.1	100.0	99.7	99.0	103.2				
1897.....	98.0	88.7	100.0	97.7	99.0	101.4				
1898.....	98.0	99.1	100.0	104.0	98.8	107.4				
1899.....	98.0	99.0	100.0	100.0	99.1	103.3				
1900.....	98.0	93.0	100.0	95.2	99.3	105.3				
1901.....	98.0	83.4	100.0	95.4	99.1	109.1				
1902.....	98.0	82.8	100.0	84.6	99.2	111.2				
1903.....	98.0	86.8	100.0	89.7	99.3	115.3				
1904.....	94.4	86.9	92.2	83.3	98.9	115.2				
1905.....	94.8	86.3	92.6	89.2	99.1	116.7				
1906.....	94.6	89.1	92.2	90.4	99.3	115.2				
1907.....	94.6	98.6	91.7	98.3	99.0	125.5	*100.0	*100.0	*100.0	*100.0
1908.....	94.4	101.3	91.4	100.2	(*)	(*)	*99.1	*88.4	*99.3	*96.4
1909.....	94.4	89.1	91.2	98.2			*98.1	*89.9	*99.3	*101.1
1910.....	95.2	93.9	90.7	103.6			*97.9	*94.5	*98.6	*105.0
1911.....	95.0	97.2	90.5	105.1			*97.9	*97.4	*98.4	*107.5
1912.....	95.0	102.6	90.3	107.1			*96.9	*99.7	*97.2	*110.7

¹ Employees reported as winders for 1890 to 1907 are reported as winders, hard silk, or winders, soft silk, for subsequent years.

² The occupations, winders, hard silk, and winders, soft silk, include employees reported as winders for 1890 to 1907.

³ Data for 1890 to 1906 not available; computed with 1907=100.

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 in the table which follows. Owing to the difficulty in finding establishments with complete pay-roll records, data from 1907 to 1909 were secured from only a limited number of establishments. In order, however, to permit of a true comparison of data from year to year, information was secured from identical establishments for 1907 to 1910, and when the work was enlarged in 1911 data were secured for both 1910 and 1911 from the additional 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 SILK-GOODS MANUFACTURING, 1907 TO 1912.

[Under each occupation 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.
Doublers, silk throwing, female:				
4 establishments	1907	72	57.6	\$. 1037
	1908	67	56.9	. 1030
	1909	78	56.4	. 0992
	1910	64	56.2	. 1053
13 establishments	1910	255	57.3	. 0938
	1911	237	57.1	. 0989
12 establishments	1911	316	56.2	. 0988
	1912	302	56.2	. 0967
Laborers, dyehouse, male:				
4 establishments	1907	1,231	55.6	. 1856
	1908	888	55.5	. 2021
	1909	1,355	55.5	. 2009
	1910	1,175	55.6	. 2014
8 establishments	1910	1,746	55.8	. 1973
	1911	2,052	55.8	. 1985
11 establishments	1911	2,516	55.6	. 2010
	1912	2,670	55.6	. 2116
Loom fixers, male:				
8 establishments	1907	75	57.4	. 2597
	1908	72	57.1	. 2717
	1909	89	57.2	. 2677
	1910	90	56.9	. 2759
22 establishments	1910	138	56.5	. 2888
	1911	144	56.5	. 2934
19 establishments	1911	128	56.8	. 2896
	1912	125	56.6	. 2979
Pickers, female:				
7 establishments	1907	177	57.8	. 1314
	1908	168	57.4	. 1292
	1909	225	57.5	. 1327
	1910	253	57.2	. 1306
19 establishments	1910	394	56.7	. 1244
	1911	418	56.8	. 1344
17 establishments	1911	503	56.8	. 1504
	1912	493	55.9	. 1471
Quillers, female:				
7 establishments	1907	107	58.0	. 0965
	1908	122	57.9	. 0962
	1909	130	57.7	. 0907
	1910	146	57.5	. 1045
23 establishments	1910	340	56.2	. 1074
	1911	382	56.2	. 1075
23 establishments	1911	538	56.2	. 1110
	1912	528	55.4	. 1113
Reelers, male:				
10 establishments	1910	104	58.0	. 0906
	1911	97	57.9	. 0999
12 establishments	1911	133	57.1	. 1014
	1912	118	56.9	. 1042
Reelers, female:				
2 establishments	1907	41	56.8	. 0862
	1908	36	56.3	. 0888
	1909	29	56.0	. 0991
	1910	25	56.2	. 1064
7 establishments	1910	82	57.2	. 0937
	1911	108	57.6	. 0943
10 establishments	1911	256	56.4	. 0978
	1912	271	56.2	. 0960

AVERAGE NOMINAL FULL-TIME HOURS OF WORK PER WEEK AND AVERAGE RATES OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN SILK-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.
Spinners, male:				
4 establishments	1907	153	56.8	\$.0975
	1908	162	56.8	.0928
	1909	174	56.3	.0916
	1910	134	56.0	.0949
16 establishments	1910	327	57.5	.0942
	1911	396	57.5	.0954
14 establishments	1911	338	57.6	.0981
	1912	327	57.3	.1022
Spinners, female:				
2 establishments	1907	45	58.7	.0829
	1908	33	58.5	.0898
	1909	30	57.2	.0844
	1910	33	57.1	.0845
9 establishments	1910	86	56.9	.0909
	1911	85	56.8	.0929
12 establishments	1911	369	56.5	.1225
	1912	395	56.0	.1238
Twisters-in, male:				
7 establishments	1907	50	57.8	.2463
	1908	51	57.6	.2296
	1909	54	57.5	.2536
	1910	49	57.4	.2427
17 establishments	1910	85	56.7	.2557
	1911	92	56.7	.2717
21 establishments	1911	166	56.4	.2589
	1912	184	55.7	.2622
Twisters-in, female:				
5 establishments	1907	36	56.5	.1352
	1908	58	55.9	.1191
	1909	68	56.0	.1343
	1910	85	55.7	.1299
9 establishments	1910	92	55.7	.1366
	1911	99	55.6	.1385
6 establishments	1911	46	58.0	.1565
	1912	46	57.7	.1673
Warpers, male:				
3 establishments	1907	27	57.0	.3056
	1908	25	56.8	.3062
	1909	32	57.2	.2977
	1910	34	57.3	.3150
7 establishments	1910	51	56.6	.3166
	1911	50	56.6	.3135
5 establishments	1911	42	56.8	.3105
	1912	37	56.9	.3007
Warpers, female:				
6 establishments	1907	169	57.8	.1624
	1908	176	57.0	.1576
	1909	233	57.1	.1538
	1910	155	56.7	.1534
17 establishments	1910	290	56.3	.1792
	1911	346	56.3	.1727
19 establishments	1911	508	56.7	.1859
	1912	539	56.0	.1998
Weavers, broad goods, male:				
5 establishments	1907	369	57.7	.2063
	1908	438	57.4	.1848
	1909	585	57.5	.1906
	1910	587	57.5	.1989
14 establishments	1910	1,008	56.9	.2133
	1911	1,037	57.0	.2125
13 establishments	1911	1,462	56.9	.2140
	1912	1,441	56.3	.2205

AVERAGE NOMINAL FULL-TIME HOURS OF WORK PER WEEK AND AVERAGE RATES OF WAGES PER HOUR IN EACH OF THE PRINCIPAL OCCUPATIONS IN SILK-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.
Weavers, broad goods, female:				
6 establishments	{ 1907	719	57.1	\$. 1429
	{ 1908	801	56.9	
	{ 1909	870	56.7	
	{ 1910	964	56.6	
14 establishments	{ 1910	1,190	56.7	.1410
	{ 1911	1,145	56.6	.1334
11 establishments	{ 1911	1,378	57.2	.1812
	{ 1912	1,450	55.9	.1904
Weavers, ribbon, male:				
2 establishments	{ 1907	52	57.2	.2245
	{ 1908	34	57.1	.2306
	{ 1909	45	57.1	.2028
	{ 1910	61	57.6	.2138
8 establishments	{ 1910	353	55.3	.2374
	{ 1911	426	55.2	.2457
6 establishments	{ 1911	369	54.8	.2477
	{ 1912	386	54.8	.2614
Weavers, ribbon, female:				
4 establishments	{ 1907	317	57.2	.1983
	{ 1908	227	57.0	.2022
	{ 1909	280	56.9	.1981
	{ 1910	230	56.6	.2089
10 establishments	{ 1910	591	55.6	.2259
	{ 1911	683	55.5	.2292
9 establishments	{ 1911	635	55.3	.2266
	{ 1912	580	55.2	.2310
Winders, hard silk, female:				
4 establishments	{ 1907	149	57.6	.0985
	{ 1908	165	57.1	.0871
	{ 1909	181	56.5	.0886
	{ 1910	140	56.4	.0931
17 establishments	{ 1910	559	57.3	.0927
	{ 1911	592	57.3	.0955
18 establishments	{ 1911	889	56.8	.1037
	{ 1912	834	56.2	.1062
Winders, soft silk, female:				
8 establishments	{ 1907	431	58.0	.1028
	{ 1908	315	57.6	.0991
	{ 1909	394	57.6	.1039
	{ 1910	400	57.2	.1079
24 establishments	{ 1910	675	56.6	.1191
	{ 1911	730	56.5	.1219
22 establishments	{ 1911	900	56.7	.1261
	{ 1912	891	56.0	.1299

EXPLANATION OF SCOPE AND METHOD.

This report on silk-goods manufacturing includes establishments engaged in silk throwing and establishments engaged in the manufacture of broad silks and ribbons. Establishments manufacturing exclusively machine twist, sewing and embroidery silks, silk braids, laces, novelties, etc., have not been included.

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	12 identical establishments.
1903 and 1904	12 identical establishments.
1904 and 1905	18 identical establishments.
1905 and 1906	19 identical establishments.
1906 and 1907	19 identical establishments.
1907 to 1910	10 identical establishments.
1910 and 1911	42 identical establishments.
1911 and 1912	42 identical establishments.

The data for 1907 to 1911 were secured in 1911, and the number of establishments included for the 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 42, 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 silk-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 2,300 or more employees in the industry, and one having less than that number, according to the United States Census of Manufacturers in 1905, is represented. The table which follows shows by States the number of employees in the silk-manufacturing industry, as reported by the United States Census 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 SILK-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.
Pennsylvania	36,469	26,915	17	5,543	3,885
New Jersey	30,285	25,481	14	4,142	3,181
New York	12,903	11,283	13	1,541	1,291
Connecticut	8,703	7,792	5	4,292	1,766
Massachusetts	4,109	3,261	2	2,778	2,203
Other States ²	6,568	4,869	1	283	208
Total	99,037	79,601	42	17,579	11,534

¹ The silk industry in New York State is confined largely to the manufacture of braids, laces, novelties, etc., and establishments engaged exclusively in the manufacture of such articles are not included in this report.

² Includes States having less than 2,000 employees in 1910 and less than 2,300 in 1905.

According to both the census of 1905 and the census of 1910, more than 95 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 in the establishments from which the Bureau secured 1912 data was equal to 17.7 per cent of the total in the industry in 1910, and the number for which the Bureau secured detailed information in 1912 was equal to 11.6 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 investigation into the rates of wages and hours of labor in the silk industry of the United States has been confined in the present instance to the three most important branches of the industry, viz, thrown silk, broad goods, and ribbons. That portion of silk manufacture represented by such products as machine twist, sewing and embroidery silks, braids, laces, and novelties has not been included. In a few instances data have been obtained from representative establishments engaged in skein and piece dyeing.

Silk manufacturing is an industry in which much piecework is found. This is particularly true of broad silks, in which the processes employed are such as to lend themselves readily and naturally to this method of compensation for labor performed. In a considerable number of establishments visited the piecework system was found in operation, with no record of hours worked and no apparent way of obtaining satisfactory estimates of the hours.

With the exception of learners, helpers, laborers, etc., practically all classes of productive labor below the rank of foremen in silk mills have been reported. The different operations have become so thoroughly systematized that the per cent of persons in productive work who fall without the classifications adopted is not large. At the same time it should be borne in mind that many of the so-called occupations in the silk industry are regularly filled by young persons, often mere boys or girls, who possess little skill and who are hardly removed from the learners' class. Moreover, it has been found that in some kinds of work, as winding, doubling, reeling, etc., the line of demarcation between learners and regular workers is largely an imaginary one. In such cases, where classification could not be made by the person furnishing the information, an arbitrary minimum wage limit for persons to be included had to be adopted.

Of the usual silk mill occupations, those believed to be of sufficient importance to warrant their inclusion in the tabulation are as follows:

Doublers (silk throwing),	Twisters-in,
Laborers, dyehouse,	Warpers,
Loom fixers,	Weavers, broad goods,
Pickers (cloth),	Weavers, ribbon,
Quillers,	Winders, hard silk,
Reelers,	Winders, soft silk.
Spinners,	

About two-thirds of all employees in the average throwing or weaving establishment are included within these occupations.

DOUBLERS, SILK THROWING.

In the manufacture of thrown silk, doubling follows the first-time spinning process and closely resembles winding in its nature. In this operation two or more silk filaments are united by drawing them from as many separate bobbins and winding them onto a single one, at the same time twisting them into one strand. This work is commonly performed by females, often young girls, and requires little skill. In many throwing mills an improved type of spinning frame has been installed which provides for doubling as a part of the spinning process and obviates the need of separate employees for this work.

LABORERS, DYEHOUSE.

In the larger and more important silk-dyeing establishments there are three main groups or classes of employees. These are usually styled head dyers, dyers, and helpers, respectively. The head dyers rank as foremen, often having a considerable number of men under their direction, and are chosen for their technical knowledge of materials and processes. They command large salaries. The next group, called dyers, may properly be regarded as subforemen, each having a gang of men under him, numbering as high as 30 or 40 at times, but usually less, according to the kind of work being done. These men also must possess some technical knowledge and ability

to direct work, which facts are considered in fixing their wages. The third class of employees, commonly known as "helpers," are the ones who do the actual manipulation of the materials to be dyed and who are believed to correspond more nearly to the journeyman class of workers in other industries. In some establishments the work is so specialized that dyehouse hands may be split into various groups as strippers, dyers, weighters, finishers, etc., according to the particular operations which they perform, but usually all classes of employees are included under the general terms dyers and helpers, and subdivisions of the latter class can not be made.

In general, the work performed in skein-dyeing establishments is as follows:

After being weighed, the skeins of silk are taken to the stripping tanks where they are worked in a soap bath near the boiling point to remove all gummy substances from the fiber. This operation requires about an hour and furnishes the boiled-off liquor used as an addition to the dye bath later. After stripping, the silk is washed in a weak solution of soda. The stripper proper directs the work of his helpers, who do the actual manual work. Usually a few men are employed to tend the centrifugal machines used for extracting the water from the silk. These are better paid than the helpers. Above the helpers also are "box fixers," or "end men," who act as gang leaders and are paid slightly higher wages. The stripping process is also designated as "boiling off" or "degumming."

The dyeing operation follows stripping. Long vats filled with the dyeing solution are used, in which the skeins are suspended from rods and are worked back and forth in the dye and also turned on the rods to cause the color to strike in uniformly. The dyers proper, often called "journeymen dyers," do little manual labor, each having a gang of helpers to work the silk about in the dye.

The weighting process usually takes place after dyeing. This is accomplished by repeatedly soaking the silk fiber in the weighting solution. Weighted silk is usually brightened by working it in a dilute solution of acetic, sulphuric, or tartaric acid for a short time.

After dyeing and weighting the silk is "finished" to give it a glossy appearance. "Shaking out men" hang the skeins on stout wooden arms or pegs and shake out the fiber by hard jerks. The finishers stretch the silk and give it luster by working it on the pegs with a stout wooden club like a marlinspike. Considerable skill is required to know when the fiber has been sufficiently "worked." For glossing, the skeins are twisted up tight and allowed to remain so several hours. In lustering the skeins are stretched and steamed at the same time. The final process is drying, in which the silk is placed in ovens or on heated pipes until thoroughly dry, when it is ready for shipment.

In piece dyeing, the lengths of silk are wound on frames revolving in tanks of dye solution. They are then put through a finishing

process and dried by being passed between hot rollers. The class of labor employed in piece dyeing is quite similar to that found in skein-dyeing establishments.

LOOM FIXERS.

These are skilled mechanics who adjust and repair the looms. A good loom fixer must be familiar with all the different processes employed in a weaving mill and must be able to repair and keep all parts of the loom in good running order. They are usually on a semisalaried basis and command good wages.

PICKERS, CLOTH.

Cloth pickers examine and remove defects from the fabric after it is woven. Rough ends of threads are picked off and grease spots or other stains are removed with wood alcohol or gasoline. Sometimes the latter work is done by girls or women called cleaners, but usually it is done by the pickers. Persons called examiners usually do the final picking. Most pickers are females, but examining is often done by expert males.

QUILLERS.

From the winding frame, or the doubling frame if this operation is used, the bobbins of silk used for tram (or filling) are taken to the quiller, who places them on a series of metal pins set on the quilling frame, from which the silk is wound on quills for the use of the weaver. These quills, when full, are cone shaped if for use in the shuttle of broad looms, or cylindrical if for a ribbon loom. Quilling is somewhat similar to winding, but is usually done by a younger class of operatives, often girls. Little skill is required for the work, but the quiller must be on the alert for broken threads. When a thread breaks or when a quill is full, that particular spindle stops automatically and it becomes the duty of the quiller to tie up the broken ends or replace the full quill with an empty one without delay.

REELERS.

Reeling is a throwing mill occupation. While regarded as unskilled work it contains a sufficient number of employees to warrant its inclusion in the tabulation. It consists in transferring the spun silk from the bobbins to the hexagonal power-driven reels in order to make up the skeins for dyeing. It is the reverse of winding and is usually done by females, but often by boys. Where reeling is done by females, reel lifters are employed to carry the heavy reels to the lacers, who lace or tie the skeins to prevent tangling during the dyeing process. The reeler must watch her work closely to tie up broken threads and keep all reels running.

SPINNERS.

The work of spinning follows winding in throwing mills, and is usually done by males, often young boys, although in some estab-

lishments female spinners are employed exclusively. With the ordinary type of machine, the wound bobbins of silk are placed on the lower row of spindles on the spinning frame, from which the fiber is transferred to bobbins turning on spindles set on the upper rail of the frame. In first-time spinning of organzine (warp fiber), the thread is given about 15 twists to the inch, while in second-time spinning, which follows doubling, the thread is twisted about the same number of times per inch, but in the opposite direction. In tram (filling) spinning, only 5 or 6 twists to the inch are given the fiber. Spinning is considered the most important operation in silk throwing. Improved machines which combine the doubling and spinning operations have been introduced into many throwing mills.

TWISTERS-IN.

Twisting, as the term is employed in silk weaving, is a highly skilled occupation. It consists in joining the ends of a new warp which is ready for the loom to the ends of the preceding warp by a twisting motion. This is accomplished by deftly rolling the two threads between the thumb and the finger tips. In broad silk weaving, the twister sits in the frame of the loom in a fairly comfortable position, but in twisting for ribbons, owing to the construction of the loom, he has to reach over the harness with his chest pressing against the latter, thus working in a very cramped position. Twisting is usually done by males, but some expert female twisters have been found in broad silk mills. A twisting machine has been introduced into a few mills, but generally the work is done entirely by hand. In most establishments twisters also do the entering whenever necessary.

WARPERS.

The spools of organzine silk (silk to be used as warp) are taken from the winder to the warper by boys or girls called "bobbin carriers." The warper places these spools on the creel, which is an inclined board or stand containing from 400 to 900 metal pins for holding the spools. The end of each thread is then drawn through a rack or comb having a series of glass pins for guiding the thread. The threads are then led through a reed, which keeps them separate, and are attached to the warping mill. This machine is of two kinds—the Swiss and the horizontal. The Swiss mill, which is the older and is still much used, consists of a cylinder about 3 feet in diameter and 6 feet long, which rests horizontally in its frame and revolves on pivots formed by an iron bar or rod running through its center and projecting at each end, forming an axis. A belt connecting the central rod with a shaft causes the mill to revolve.

The horizontal warping mill consists of a drum, about 10 feet in diameter and 4 feet wide, resting horizontally upon a frame. To start this machine the operator presses a foot lever. Removing the

pressure stops the mill. No appreciable difference in the pay of warpers on the horizontal and the Swiss mills has been observed. In Paterson warping is usually done by males; elsewhere it is done largely by females. It is a skilled occupation and commands good pay.

In addition to the two kinds of warping mills described, a third class, operated by hand, is sometimes used. This is a small frame which revolves vertically by means of a hand crank. It is in use to some extent in a few ribbon mills and where warping is let out by manufacturers to home workers of the neighborhood.

Direct warping is sometimes done in ribbon mills. The direct warper is a simple, compact machine for winding the warp direct from the bobbins to the warp beam of the ribbon loom. It is generally operated by girls and is not difficult to handle. Many manufacturers say that the direct warping machine is not satisfactory.

Edge warping consists in preparing the warp for the edges of ribbons and broad goods. This is done on a special machine which requires little skill and is easy to operate. The work is usually done by girls.

WEAVERS, BROAD GOODS.

While weaving requires less skill than some other occupations, such as loom fixing or twisting-in, it employs far more people. Weaving is largely an automatic process, the duty of the weaver being merely to watch the loom, see that all its parts are working properly, and correct defects in the fabric before they are carried too far. These defects in the texture can not be remedied after they have passed beyond a certain point, usually but a few inches from the edge or pick line.

The weaver does not regulate the speed of his looms. All looms producing a particular kind of silk in the mill are speeded uniformly, and the yardage turned out by an individual weaver depends, apart from the quality of material used and number of looms tended, entirely on his dexterity in piecing up broken ends of the warp threads and drawing them into place through the harness and reed, in filling empty shuttles with new quills and placing them in the loom properly, in taking off cuts of cloth, and in performing other necessary operations with the least possible delay in the interruption of the weaving work.

Weavers in broad silk mills are almost invariably pieceworkers. Their earnings depend on a number of circumstances. In the first place, the number of looms operated by a weaver affects his earnings. The common rule is 2 looms per weaver, but instances have been noted where the weaver had 3 and even 4 looms. On plain goods an efficient weaver can tend 3 or 4 looms, while on looms with Jacquard attachment 1 loom is all a weaver can look after. The number of looms operated by a weaver depends on the amount of work on hand and may vary within the pay-roll period. During dull seasons

many mills reduce the number of looms per weaver instead of reducing the number of weavers.

Again, the weaver's earnings depend on the quality of silk being woven at the time. Frequent changes occur in this respect. At times the weaver's earnings are so impaired that it is necessary to put him temporarily on a time basis. On easy weave plain goods, as messalines, satins, etc., a weaver can average about 35 yards per day of 10 hours on 2 looms or about 20 yards per day on a single loom. On Jacquard work and on other figured goods the average is considerably lower. On some grades of fine silks 7 or 8 yards per day is a good average for 1 loom. The rate of pay per yard is based, of course, on the kind of silk being woven at the time.

WEAVERS, RIBBON.

The duties of the ribbon weaver, while of the same general nature as those of the broad-silk weaver, are greater and more arduous. A loom of a radically different type is used. Instead of a single-warp beam, harness, reed, and batten, with a single shuttle carrying the filling, there are as many of these accessories as there are strands of ribbon to be woven. This may vary from 6 to 100, according to the type of the loom or width of the ribbon. Looms producing 24 pieces of ribbon at a time are a common type. With a greater number of shuttles to keep filled, a greater number of warp threads to piece together, and more mechanism to be kept in operation it naturally follows that ribbon weavers must as a rule possess greater skill and command better wages than do broad-silk weavers. For this reason they have been tabulated separately. As a rule ribbon weavers are paid by the week. The work is usually done by males, but with the introduction of improved automatic machinery there is a growing tendency to replace skilled male weavers with females of less skill and experience.

WINDERS, HARD SILK.

After the soaking process, winding is the first operation in throwing mills. The skeins of raw silk are taken to the winding frame and placed on hexagonal-shaped revolving reels called swifts. From these swifts the silk filament is wound on spools or bobbins set on swiftly revolving spindles. The winder has to exercise constant watchfulness to tie broken threads, to replace filled bobbins with empty ones, and to see that all the swifts are kept running. Each winder usually tends two rows or "decks" of swifts, standing between them. In some establishments double decker winding frames have been found, but these are objected to on the ground that they necessitate too high reaching. Winding done in throwing mills is often designated as hard-silk winding to distinguish it from the similar operation on dyed or soft silk in weaving mills. It is usually performed by females, and requires but a small degree of skill.

WINDERS, SOFT SILK.

In weaving mills the work of the winder is practically the same as that of the winder in throwing mills. Much the same processes are employed, and much the same kind of labor is utilized in the two branches of the industry. In soft-silk winding, however, the thread has been spun and doubled, and is thus stronger and less liable to break. Also, being soft, it is less apt to cause the fingers of the winder to become sore than is the case with hard silk. In view of these facts, and also because silk throwing and silk weaving are recognized as distinct branches of the industry, it appears desirable to report winders, hard silk, and winders, soft silk, as separate occupations. Occasionally undyed silk or hard silk is wound for use in weaving certain kinds of fabrics in broad-goods mills. It has been noted that as a rule soft-silk winders appear to be better paid than are hard-silk winders, due possibly to the fact that employees of the former class are often more mature than those of the latter class.

EXPLANATION OF TABLES.

This report includes three general tables covering the 6-year period, 1907 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. 192 to 197).—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, doublers, dyehouse laborers, loom fixers, pickers, quillers, reelers, spinners, twist-in, warpers, broad-goods weavers, ribbon weavers, hard-silk winders, and soft-silk winders, 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 and per cent of employees under each classified number of nominal 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 working hours per week.

As previously stated, comparisons from year to year can be made only between identical establishments, and data in this table are presented for identical establishments in such a way as to make possible comparisons from year to year.

The relative nominal full-time hours per week and the relative rates of wages per hour for 1907 to 1912, shown on pages 175 to 178, 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 weavers on broad goods the average nominal hours per week in 5 establishments was 57.7 in 1907 and 57.4 in the same 5 establishments in 1908. The average in 1908 (57.4) was 99.48 per cent of the average (57.7) in 1907. Bulletin No. 77 (July, 1908) shows that, for nominal full-time hours per week for male weavers on broad goods, the relative was 99.9 in 1907 (average for 1890-1899 = 100). The average nominal hours for 1908 were then reduced to a comparison with the base period (average for 1890 to 1899 = 100) by computing 99.48 per cent of 99.9, which is 99.4. The same method was followed in computing the relative rate of wages per hour; the average in 1908 (\$.01848) was 89.58 per cent of the average in 1907 (\$.02063); the relative (average for 1890-1899 = 100) for 1907, as shown in Bulletin No. 77, was 114.7; and 89.58 per cent of 114.7 is 102.7, or the relative rate of wages per hour in 1908 if the average for 1890 to 1899 is the base or 100. In computing for this occupation the relatives for 1911 comparison was made of the data for 14 identical establishments and in computing the relatives for 1912 comparison was made of the data from 13 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. 198 to 203).—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. 204 to 206).—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.

SILK GOODS 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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
Doublers, silk throwing, female:									
4 establishments.....	{ 1907	72	\$.1037	57.6	.....	.....	34	.....	38
	{ 1908	67	.1030	56.9	.....	.....	36	10	21
	{ 1909	78	.0992	56.4	.....	.....	39	39	.....
	{ 1910	64	.1053	56.2	.....	.....	37	27	.....
3 establishments.....	{ 1910	255	.0938	57.3	.....	.....	101	126	28
	{ 1911	237	.0989	57.1	.....	.....	97	126	14
12 establishments.....	{ 1911	316	.0988	56.2	.....	.....	192	124	.....
	{ 1912	302	.0967	56.2	.....	.....	190	112	.....
Laborers, dyehouse, male:									
4 establishments.....	{ 1907	1,231	.1856	55.6	.....	.....	998	217	16
	{ 1908	888	.2021	55.5	.....	.....	709	179	.....
	{ 1909	1,355	.2009	55.5	.....	.....	1,123	232	.....
	{ 1910	1,175	.2014	55.6	.....	.....	949	226	.....
8 establishments.....	{ 1910	1,746	.1973	55.8	.....	.....	1,364	226	156
	{ 1911	2,052	.1985	55.8	.....	.....	1,636	248	168
11 establishments.....	{ 1911	2,516	.2010	55.6	.....	.....	2,145	203	168
	{ 1912	2,670	.2116	55.6	38	21	2,204	132	275
Loom fixers, male:									
8 establishments.....	{ 1907	75	.2597	57.4	.....	.....	18	50	7
	{ 1908	72	.2717	57.1	.....	.....	20	49	3
	{ 1909	89	.2677	57.2	.....	.....	21	68	.....
	{ 1910	90	.2759	56.9	.....	.....	28	62	.....
22 establishments.....	{ 1910	138	.2888	56.5	.....	.....	69	69	.....
	{ 1911	144	.2934	56.5	.....	.....	69	75	.....
19 establishments.....	{ 1911	128	.2896	56.8	.....	6	45	77	.....
	{ 1912	125	.2979	56.6	.....	12	44	69	.....
Pickers, female:									
7 establishments.....	{ 1907	177	.1314	57.8	.....	.....	27	116	34
	{ 1908	168	.1292	57.4	.....	.....	32	124	12
	{ 1909	225	.1327	57.5	.....	.....	37	173	15
	{ 1910	253	.1306	57.2	.....	.....	41	201	11
19 establishments.....	{ 1910	394	.1244	56.7	.....	.....	156	227	11
	{ 1911	418	.1344	56.8	.....	.....	165	242	11
17 establishments.....	{ 1911	503	.1504	56.8	.....	.....	242	250	11
	{ 1912	493	.1471	55.9	.....	.....	303	190	.....
Quillers, female:									
7 establishments.....	{ 1907	107	.0965	58.0	.....	.....	19	55	33
	{ 1908	122	.0962	57.9	.....	.....	22	67	33
	{ 1909	130	.0907	57.7	.....	.....	25	77	28
	{ 1910	146	.1045	57.5	.....	.....	34	93	19
23 establishments.....	{ 1910	340	.1074	56.2	.....	18	189	114	19
	{ 1911	382	.1075	56.2	.....	18	225	123	16
23 establishments.....	{ 1911	538	.1110	56.2	.....	18	355	149	16
	{ 1912	528	.1113	55.4	.....	218	172	138	.....
Reelers, male:									
10 establishments.....	{ 1910	104	.0906	58.0	.....	.....	17	72	15
	{ 1911	97	.0999	57.9	.....	.....	21	63	13
12 establishments.....	{ 1911	133	.1014	57.1	.....	.....	57	72	4
	{ 1912	118	.1042	56.9	.....	8	43	67	.....

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.

SILK 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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
Reelers, female:									
2 establishments.....	1907	41	\$.0862	56.8			26		15
	1908	36	.0888	56.3			27		9
	1909	29	.0991	56.0			19	10	
	1910	25	.1064	56.2			15	10	
7 establishments.....	1910	82	.0937	57.2			44	13	25
	1911	108	.0943	57.6			47	19	42
10 establishments.....	1911	256	.0978	56.4			159	73	24
	1912	271	.0960	56.2		23	148	70	30
Spinners, male:									
4 establishments.....	1907	153	.0975	56.8			99		54
	1908	162	.0928	56.8			101	8	53
	1909	174	.0916	56.3			96	78	
	1910	134	.0949	56.0			87	47	
16 establishments.....	1910	327	.0942	57.5			120	146	61
	1911	396	.0954	57.5			139	176	81
14 establishments.....	1911	338	.0981	57.6			99	201	38
	1912	327	.1022	57.3		32	81	165	46
Spinners, female:									
2 establishments.....	1907	45	.0829	58.7			12		33
	1908	33	.0898	58.5			10		23
	1909	30	.0844	57.2			8	22	
	1910	33	.0845	57.1			10	23	
9 establishments.....	1910	86	.0909	56.9			39	41	6
	1911	85	.0929	56.8			38	45	2
12 establishments.....	1911	369	.1225	56.5			233	134	2
	1912	395	.1238	56.0		97	154	133	19
Twisters-in, male:									
7 establishments.....	1907	50	.2463	57.8			7	34	1
	1908	51	.2296	57.6			7	37	7
	1909	54	.2536	57.5			7	45	2
	1910	49	.2427	57.4			7	40	2
17 establishments.....	1910	85	.2557	56.7		1	35	47	2
	1911	92	.2717	56.7		2	35	54	1
21 establishments.....	1911	166	.2589	56.4		2	103	60	1
	1912	184	.2622	55.7		60	61	63	
Twisters-in, female:									
5 establishments.....	1907	36	.1352	56.5			22	7	7
	1908	58	.1161	55.9			45	6	7
	1909	68	.1343	56.0			48	13	7
	1910	85	.1299	55.7			66	14	5
9 establishments.....	1910	92	.1366	55.7		2	71	14	5
	1911	99	.1385	55.6		1	80	13	5
6 establishments.....	1911	46	.1565	58.0		1	2	38	5
	1912	46	.1673	57.7		3		43	
Warpers, male:									
3 establishments.....	1907	27	.3056	57.0			5	22	
	1908	25	.3062	56.8			7	18	
	1909	32	.2977	57.2			5	27	
	1910	34	.3150	57.3			4	30	
7 establishments.....	1910	51	.3166	56.6			21	30	
	1911	50	.3135	56.6			20	30	
5 establishments.....	1911	42	.3105	56.8			17	25	
	1912	37	.3007	56.9			14	23	

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.

SILK GOODS 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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
Warpers, female:									
6 establishments.....	1907	169	\$. 1624	57.8			46	70	53
	1908	176	.1576	57.0			65	94	17
	1909	233	.1538	57.1			79	127	27
	1910	155	.1534	56.7			68	78	9
17 establishments.....	1910	290	.1792	56.3			186	95	9
	1911	346	.1727	56.3			213	118	15
19 establishments.....	1911	508	.1859	56.7			275	218	15
	1912	539	.1998	56.0		144	170	225	
Weavers, broad goods, male:									
5 establishments.....	1907	369	.2063	57.7			22	346	1
	1908	438	.1848	57.4			60	377	1
	1909	585	.1996	57.5			74	502	9
	1910	587	.1989	57.5			70	513	4
14 establishments.....	1910	1,008	.2133	56.9			389	615	4
	1911	1,037	.2125	57.0			381	654	2
13 establishments.....	1911	1,462	.2140	56.9			647	813	2
	1912	1,441	.2205	56.3		379	331	731	
Weavers, broad goods, female:									
6 establishments.....	1907	719	.1429	57.1			275	338	106
	1908	801	.1274	56.9			338	374	89
	1909	870	.1288	56.7			441	330	99
	1910	964	.1304	56.6			502	364	98
14 establishments.....	1910	1,190	.1410	56.7			569	523	98
	1911	1,145	.1334	56.6			577	497	71
11 establishments.....	1911	1,378	.1812	57.2			612	695	71
	1912	1,450	.1904	55.9		687	136	627	
Weavers, ribbon, male:									
2 establishments.....	1907	52	.2245	57.2			13	39	
	1908	34	.2306	57.1			10	24	
	1909	45	.2028	57.1			13	32	
	1910	61	.2138	57.6			6	55	
8 establishments.....	1910	353	.2374	55.3		44	254	55	
	1911	426	.2457	55.2		62	310	54	
6 establishments.....	1911	369	.2477	54.8		62	307		
	1912	386	.2614	54.8		65	321		
Weavers, ribbon, female:									
4 establishments.....	1907	317	.1983	57.2			121	129	67
	1908	227	.2022	57.0			108	65	54
	1909	280	.1981	56.9			123	128	29
	1910	230	.2089	56.6			118	89	23
10 establishments.....	1910	591	.2259	55.6		14	465	89	23
	1911	683	.2292	55.5		18	548	101	16
9 establishments.....	1911	635	.2266	55.3		18	548	53	16
	1912	580	.2310	55.2		17	509	54	
Winders, hard silk, female:									
4 establishments.....	1907	149	.0985	57.6			73		76
	1908	165	.0871	57.1			88	18	59
	1909	181	.0886	56.5			90	91	
	1910	140	.0931	56.4			72	68	
17 establishments.....	1910	559	.0927	57.3			221	267	71
	1911	592	.0955	57.3			243	268	81
18 establishments.....	1911	889	.1037	56.8			483	361	45
	1912	834	.1062	56.2		181	305	310	38
Winders, soft silk, female:									
8 establishments.....	1907	431	.1028	58.0			86	208	137
	1908	315	.0991	57.6			57	211	47
	1909	394	.1039	57.6			67	277	50
	1910	400	.1079	57.2			104	271	25
24 establishments.....	1910	675	.1191	56.6		15	291	344	25
	1911	730	.1219	56.5		15	365	329	21
22 establishments.....	1911	900	.1261	56.7			453	426	21
	1912	891	.1299	56.0		236	286	369	

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.

SILK GOODS MANUFACTURING—Continued.

PER CENT.

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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
Doublers, silk throwing, female:									
4 establishments.....	1907	72	\$.1037	57.6			47.2		52.8
	1908	67	.1030	56.9			53.7	14.9	31.3
	1909	78	.0992	56.4			50.0	50.0	
	1910	64	.1053	56.2			57.8	42.2	
13 establishments.....	1910	255	.0938	57.3			39.6	49.4	11.0
	1911	237	.0989	57.1			40.9	53.2	5.9
12 establishments.....	1911	316	.0988	56.2			60.8	39.2	
	1912	302	.0967	56.2			62.9	37.1	
Laborers, dye house, male:									
4 establishments.....	1907	1,231	.1856	55.6			81.1	17.6	1.3
	1908	888	.2021	55.5			79.8	20.2	
	1909	1,355	.2009	55.5			82.9	17.1	
	1910	1,175	.2014	55.6			80.8	19.2	
8 establishments.....	1910	1,746	.1973	55.8			78.1	12.9	8.9
	1911	2,052	.1985	55.8			79.7	12.1	8.2
11 establishments.....	1911	2,516	.2010	55.6			85.3	8.1	6.7
	1912	2,670	.2116	55.6	1.4	0.8	82.5	4.9	10.3
Loom fixers, male:									
8 establishments.....	1907	75	.2597	57.4			24.0	66.7	9.3
	1908	72	.2717	57.1			27.8	68.1	4.2
	1909	89	.2677	57.2			23.6	76.4	
	1910	90	.2759	56.9			31.1	68.9	
22 establishments.....	1910	138	.2888	56.5			50.0	50.0	
	1911	144	.2934	56.5			47.9	52.1	
19 establishments.....	1911	128	.2896	56.8		4.7	35.2	60.2	
	1912	125	.2979	56.6		9.6	35.2	55.2	
Pickers, female:									
7 establishments.....	1907	177	.1314	57.8			15.3	65.5	19.2
	1908	168	.1292	57.4			19.0	73.8	7.1
	1909	225	.1327	57.5			16.4	76.9	6.7
	1910	253	.1306	57.2			16.2	79.4	4.3
19 establishments.....	1910	394	.1244	56.7			39.6	57.6	2.8
	1911	418	.1344	56.8			39.5	57.9	2.6
17 establishments.....	1911	503	.1504	56.8			48.1	49.7	2.2
	1912	493	.1471	55.9			61.5	38.5	
Quillers, female:									
7 establishments.....	1907	107	.0965	58.0			17.8	51.4	30.8
	1908	122	.0962	57.9			18.0	54.9	27.0
	1909	130	.0907	57.7			19.2	59.2	21.5
	1910	146	.1045	57.5			23.3	63.7	13.0
23 establishments.....	1910	340	.1074	56.2		5.3	55.6	33.5	5.6
	1911	382	.1075	56.2		4.7	58.9	32.2	4.2
23 establishments.....	1911	538	.1110	56.2		3.3	66.0	27.7	3.0
	1912	528	.1113	55.4		41.3	32.6	26.1	
Reelers, male:									
10 establishments.....	1910	104	.0906	58.0			16.3	69.2	14.4
	1911	97	.0999	57.9			21.6	64.9	13.4
12 establishments.....	1911	133	.1014	57.1			42.9	54.1	3.0
	1912	118	.1042	56.9		6.8	36.4	56.8	
Reelers, female:									
2 establishments.....	1907	41	.0862	56.8			63.4		36.6
	1908	36	.0888	56.3			75.0		25.0
	1909	29	.0991	56.0			65.5	34.5	
	1910	25	.1064	56.2			60.0	40.0	
7 establishments.....	1910	82	.0937	57.2			53.7	15.9	30.5
	1911	108	.0943	57.6			43.5	17.6	38.9
10 establishments.....	1911	256	.0978	56.4			62.1	28.5	9.4
	1912	271	.0960	56.2		8.5	54.6	25.8	11.1

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.

SILK GOODS 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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
Spinners, male:									
4 establishments.....	1907	153	\$.0975	56.8	.....	.....	64.7	.....	35.3
	1908	162	.0928	56.8	.....	.....	62.3	4.9	32.7
	1909	174	.0916	56.3	.....	.....	55.2	44.8	.....
	1910	134	.0949	56.0	.....	.....	64.9	35.1	.....
16 establishments.....	1910	327	.0942	57.5	.....	.....	36.7	44.6	18.7
	1911	396	.0954	57.5	.....	.....	35.1	44.4	20.5
14 establishments.....	1911	338	.0981	57.6	.....	.....	29.3	59.5	11.2
	1912	327	.1022	57.3	.....	9.8	24.8	51.4	14.1
Spinners, female:									
2 establishments.....	1907	45	.0829	58.7	.....	.....	26.7	.....	73.3
	1908	33	.0898	58.5	.....	.....	30.3	.....	69.7
	1909	30	.0844	57.2	.....	.....	26.7	73.3	.....
	1910	33	.0845	57.1	.....	.....	30.3	69.7	.....
9 establishments.....	1910	86	.0909	56.9	.....	.....	45.3	47.7	7.0
	1911	85	.0929	56.8	.....	.....	44.7	52.9	2.4
12 establishments.....	1911	369	.1225	56.5	.....	.....	63.1	36.3	5.8
	1912	395	.1238	56.0	.....	24.6	39.0	33.7	2.8
Twisters-in, male:									
7 establishments.....	1907	50	.2463	57.8	.....	.....	14.0	68.0	18.0
	1908	51	.2296	57.6	.....	.....	13.7	72.5	13.7
	1909	54	.2536	57.5	.....	.....	13.0	83.3	3.7
	1910	49	.2427	57.4	.....	.....	14.3	81.6	4.1
17 establishments.....	1910	85	.2557	56.7	.....	1.2	41.2	55.3	2.4
	1911	92	.2717	56.7	.....	2.2	38.0	58.7	1.1
21 establishments.....	1911	166	.2589	56.4	.....	1.2	62.0	36.1	.6
	1912	184	.2622	55.7	.....	32.6	33.2	34.2	.....
Twisters-in, female:									
5 establishments.....	1907	36	.1352	56.5	.....	.....	61.1	19.4	19.4
	1908	58	.1161	55.9	.....	.....	77.6	10.3	12.1
	1909	68	.1343	56.0	.....	.....	70.6	19.1	10.3
	1910	85	.1299	55.7	.....	.....	77.6	16.5	5.9
9 establishments.....	1910	92	.1366	55.7	.....	2.2	77.2	15.2	5.4
	1911	99	.1385	55.6	.....	1.0	80.8	13.1	5.1
6 establishments.....	1911	46	.1565	58.0	.....	2.2	4.3	82.6	10.9
	1912	46	.1673	57.7	.....	6.5	.....	93.5	.....
Warpers, male:									
3 establishments.....	1907	27	.3056	57.0	.....	.....	18.5	81.5	.....
	1908	25	.3062	56.8	.....	.....	28.0	72.0	.....
	1909	32	.2977	57.2	.....	.....	15.6	84.4	.....
	1910	34	.3150	57.3	.....	.....	11.8	88.2	.....
7 establishments.....	1910	51	.3166	56.6	.....	.....	41.2	58.8	.....
	1911	50	.3135	56.6	.....	.....	40.0	60.0	.....
5 establishments.....	1911	42	.3105	56.8	.....	.....	40.5	59.5	.....
	1912	37	.3007	56.9	.....	.....	37.8	62.2	.....
Warpers, female:									
6 establishments.....	1907	169	.1624	57.8	.....	.....	27.2	41.4	31.4
	1908	176	.1576	57.0	.....	.....	36.9	53.4	9.7
	1909	233	.1538	57.1	.....	.....	33.9	54.5	11.6
	1910	155	.1534	56.7	.....	.....	43.9	50.3	5.8
17 establishments.....	1910	290	.1792	56.3	.....	.....	64.1	32.8	3.1
	1911	346	.1727	56.3	.....	.....	61.6	34.1	4.3
19 establishments.....	1911	508	.1859	56.7	.....	.....	54.1	42.9	3.0
	1912	539	.1998	56.0	.....	26.7	31.5	41.7	.....

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—Concluded.

SILK 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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
Weavers, broad goods, male:									
5 establishments.....	{ 1907	369	\$.2063	57.7	.....	.....	6.0	93.8	0.3
	{ 1908	438	.1848	57.4	.....	.....	13.7	86.1	.2
	{ 1909	585	.1996	57.5	.....	.....	12.6	85.8	1.5
	{ 1910	587	.1989	57.5	.....	.....	11.9	87.4	.7
14 establishments.....	{ 1910	1,008	.2133	56.9	.....	.....	38.6	61.0	.4
	{ 1911	1,037	.2125	57.0	.....	.....	36.7	63.1	.2
13 establishments.....	{ 1911	1,462	.2140	56.9	.....	.....	44.3	55.6	.1
	{ 1912	1,441	.2205	56.3	.....	26.3	23.0	50.7	.....
Weavers, broad goods, female:									
6 establishments.....	{ 1907	719	.1429	57.1	.....	.....	38.2	47.0	14.7
	{ 1908	801	.1274	56.9	.....	.....	42.2	46.7	11.1
	{ 1909	870	.1283	56.7	.....	.....	50.7	37.9	11.4
	{ 1910	964	.1304	56.6	.....	.....	52.1	37.8	10.2
14 establishments.....	{ 1910	1,190	.1410	56.7	.....	.....	47.8	43.9	8.2
	{ 1911	1,145	.1334	56.6	.....	.....	50.4	43.4	6.2
11 establishments.....	{ 1911	1,378	.1812	57.2	.....	.....	44.4	50.4	5.2
	{ 1912	1,450	.1904	55.9	.....	47.4	9.4	43.2	.....
Weavers, ribbon, male:									
2 establishments.....	{ 1907	52	.2245	57.2	.....	.....	25.0	75.0	.....
	{ 1908	34	.2306	57.1	.....	.....	.....	70.6	.....
	{ 1909	45	.2028	57.1	.....	.....	28.9	71.1	.....
	{ 1910	61	.2138	57.6	.....	.....	9.8	90.2	.....
8 establishments.....	{ 1910	353	.2374	55.3	.....	12.5	72.0	15.6	.....
	{ 1911	426	.2457	55.2	.....	14.6	72.8	12.7	.....
6 establishments.....	{ 1911	369	.2477	54.8	.....	16.8	83.2	.....	.....
	{ 1912	386	.2614	54.8	.....	16.8	83.2	.....	.....
Weavers, ribbon, female:									
4 establishments.....	{ 1907	317	.1983	57.2	.....	.....	38.2	40.7	21.1
	{ 1908	227	.2022	57.0	.....	.....	47.6	28.6	23.8
	{ 1909	280	.1981	56.9	.....	.....	43.9	45.7	10.4
	{ 1910	230	.2089	56.6	.....	.....	51.3	38.7	10.0
10 establishments.....	{ 1910	591	.2259	55.6	.....	2.4	78.7	15.1	3.9
	{ 1911	683	.2292	55.5	.....	2.6	80.2	14.8	2.3
9 establishments.....	{ 1911	635	.2266	55.3	.....	2.8	86.3	8.3	2.5
	{ 1912	580	.2310	55.2	.....	2.9	87.8	9.3	.....
Winders, hard silk, female:									
4 establishments.....	{ 1907	149	.0985	57.6	.....	.....	49.0	.....	51.0
	{ 1908	165	.0871	57.1	.....	.....	53.3	10.9	35.8
	{ 1909	181	.0886	56.5	.....	.....	49.7	50.3	.....
	{ 1910	140	.0931	56.4	.....	.....	51.4	48.6	.....
17 establishments.....	{ 1910	559	.0927	57.3	.....	.....	39.5	47.8	12.7
	{ 1911	592	.0955	57.3	.....	.....	41.0	45.3	13.7
18 establishments.....	{ 1911	889	.1037	56.8	.....	.....	54.3	40.6	5.1
	{ 1912	834	.1062	56.2	.....	21.7	36.6	37.2	4.6
Winders, soft silk, female:									
8 establishments.....	{ 1907	431	.1028	58.0	.....	.....	20.0	48.3	31.8
	{ 1908	315	.0991	57.6	.....	.....	18.1	67.0	14.9
	{ 1909	394	.1039	57.6	.....	.....	17.0	70.3	12.7
	{ 1910	400	.1079	57.2	.....	.....	26.0	67.8	6.3
24 establishments.....	{ 1910	675	.1191	56.6	.....	2.2	43.1	51.0	3.7
	{ 1911	730	.1219	56.5	.....	2.1	50.0	45.1	2.9
22 establishments.....	{ 1911	900	.1261	56.7	.....	.....	50.3	47.3	2.3
	{ 1912	891	.1299	56.0	.....	26.5	32.1	41.4	.....

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.

SILK GOODS MANUFACTURING—Continued.

DOUBLERS, SILK THROWING: 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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
1911.									
Pennsylvania.....	7	246	\$0.0926	56.2			155	91	
Other States.....	5	70	.1208	56.4			37	33	
Total.....	12	316	.0988	56.2			192	124	
1912.									
Pennsylvania.....	7	237	.0907	56.3			148	89	
Other States.....	5	65	.1185	56.0			42	23	
Total.....	12	302	.0967	56.2			190	112	

LABORERS, DYEHOUSE: Male.

1910.									
Connecticut.....	2	212	\$0.1735	57.9				212	
Pennsylvania.....	4	560	.1901	56.5			390	14	156
Other States.....	2	974	.2066	55.0			974		
Total.....	8	1,746	.1973	55.8			1,364	226	156
1911.									
Connecticut.....	2	187	.1839	57.9				187	
New Jersey.....	2	1,501	.2077	55.0			1,501		
Pennsylvania.....	6	799	.1934	56.1			615	16	168
Other States.....	1	29	.1715	56.0			29		
Total.....	11	2,516	.2010	55.6			2,145	203	168
1912.									
Connecticut.....	2	170	.1856	56.5	38			132	
New Jersey.....	2	1,545	.2212	55.0			1,545		
Pennsylvania.....	6	934	.2013	56.5			659		275
Other States.....	1	21	.1722	54.0		21			
Total.....	11	2,670	.2116	55.6	38	21	2,204	132	275

LOOM FIXERS: Male.

1910.									
Connecticut.....	5	53	\$0.2690	57.9				53	
New Jersey.....	9	34	.2991	55.0			34		
Pennsylvania.....	4	24	.2977	56.1			14	10	
Other States.....	4	27	.3068	55.7			21	6	
Total.....	22	138	.2888	56.5			69	69	
1911.									
Connecticut.....	4	57	.2748	57.9				57	
New Jersey.....	8	27	.3398	55.0			27		
Pennsylvania.....	3	20	.2521	57.8				20	
Other States.....	4	24	.3105	55.3		6	18		
Total.....	19	128	.2896	56.8		6	45	77	
1912.									
Connecticut.....	4	57	.2762	57.9				57	
New Jersey.....	8	26	.3465	55.0			26		
Pennsylvania.....	3	19	.2685	56.9			7	12	
Other States.....	4	23	.3210	54.8		12	11		
Total.....	19	125	.2979	56.6		12	44	69	

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.

SILK GOODS MANUFACTURING—Continued.

PICKERS: 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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
1910.									
Connecticut.....	5	168	\$0.1340	57.6				168	
New Jersey.....	7	87	.1022	55.0			87		
Pennsylvania.....	4	88	.1320	56.9			32	45	11
Other States.....	3	51	.1177	56.3			37	14	
Total.....	19	394	.1244	56.7			156	227	11
1911.									
Connecticut.....	4	172	.1452	57.9				172	
New Jersey.....	6	97	.1023	55.0			97		
Pennsylvania.....	4	89	.1470	58.0				78	11
Other States.....	3	145	.1908	56.0			145		
Total.....	17	503	.1504	56.8			242	250	11
1912.									
Connecticut.....	4	132	.1480	57.9				132	
New Jersey.....	6	104	.0996	55.0			104		
Pennsylvania.....	4	118	.1401	56.4			60	58	
Other States.....	3	139	.1878	54.1			139		
Total.....	17	493	.1471	55.9			303	190	

QUILLERS: Female.

1910.									
Connecticut.....	4	80	\$0.1205	57.9				80	
New Jersey.....	10	141	.1149	55.0			141		
Pennsylvania.....	5	59	.0834	57.5			20	20	19
Other States.....	4	60	.0958	55.7			18	28	14
Total.....	23	340	.1074	56.2			18	189	114
1911.									
Connecticut.....	4	90	.1151	57.9				90	
New Jersey.....	9	160	.1127	55.0			160		
Pennsylvania.....	5	75	.0925	58.3				59	16
Other States.....	5	213	.1146	55.7			18	195	
Total.....	23	538	.1110	56.2			18	355	149
1912.									
Connecticut.....	4	85	.1146	58.0				85	
New Jersey.....	9	130	.1178	55.0			130		
Pennsylvania.....	5	70	.0906	57.2			17	53	
Other States.....	5	243	.1126	54.2			218	25	
Total.....	23	528	.1113	55.4			218	172	138

REELERS: Female.

1910.									
Pennsylvania.....	6	79	\$0.0935	57.2			44	10	25
Other States.....	1	3	.0992	58.0				3	
Total.....	7	82	.0937	57.2			44	13	25

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.

SILK GOODS MANUFACTURING—Continued.

REELERS: 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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
1911.									
Pennsylvania.....	5	187	\$0.0838	56.1			134	29	24
Other States.....	5	69	.1359	57.3			25	44	
Total.....	10	256	.0978	56.4			159	73	24
1912.									
Pennsylvania.....	5	203	.0811	56.1			148	25	30
Other States.....	5	68	.1404	56.7		23		45	
Total.....	10	271	.0960	56.2		23	148	70	30

SPINNERS: Male.

1910.									
Pennsylvania.....	10	278	\$0.0890	57.7			32	135	61
Other States.....	6	49	.1236	56.1			38	11	
Total.....	16	327	.0942	57.5			120	146	61
1911.									
Pennsylvania.....	8	256	.0851	58.0			34	134	38
Other States.....	6	32	.1386	56.0			65	17	
Total.....	14	338	.0981	57.6			99	201	38
1912.									
Pennsylvania.....	8	262	.0900	57.9			55	161	46
Other States.....	6	65	.1513	54.8		32	26	7	
Total.....	14	327	.1022	57.3		32	81	168	46

SPINNERS: Female.

1910.									
Pennsylvania.....	6	71	\$0.0866	56.9			31	34	6
Other States.....	3	15	.1111	56.4			8	7	
Total.....	9	86	.0909	56.9			39	41	6
1911.									
Pennsylvania.....	6	174	.0940	55.8			131	41	2
Other States.....	6	195	.1478	57.1			102	93	
Total.....	12	369	.1225	56.5			233	134	2
1912.									
Pennsylvania.....	6	214	.0942	56.1			145	58	11
Other States.....	6	181	.1588	55.9		97	9	75	
Total.....	12	395	.1238	56.0		97	154	133	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.

SILK GOODS MANUFACTURING—Continued.

WARPERS: 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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
1910.									
Connecticut.....	4	73	\$0.1693	57.9				73	
New Jersey.....	8	82	.2209	55.0			82		
Pennsylvania.....	3	85	.1313	56.2			54	22	9
Other States.....	2	50	.2066	56.0			50		
Total.....	17	290	.1792	56.3			186	95	9
1911.									
Connecticut.....	4	96	.1715	58.0				96	
New Jersey.....	7	97	.2141	55.0			97		
Pennsylvania.....	4	137	.1444	58.1				122	15
Other States.....	4	178	.2102	55.8			178		
Total.....	19	508	.1859	56.7			275	218	15
1912.									
Connecticut.....	4	107	.1770	58.0				107	
New Jersey.....	7	95	.2235	55.0			95		
Pennsylvania.....	4	149	.1604	57.3			31	118	
Other States.....	4	188	.2322	54.4		144	44		
Total.....	19	539	.1998	56.0		144	170	225	

WEAVERS, BROAD GOODS: Male.

1910.									
Connecticut.....	5	539	\$0.2169	57.9				539	
Pennsylvania.....	4	82	.1169	55.3			84	4	4
Other States.....	5	377	.2317	55.9			305	72	
Total.....	14	1,008	.2133	56.9			389	615	4
1911.									
Connecticut.....	4	549	.2039	57.9				549	
Pennsylvania.....	4	266	.1702	58.0				264	2
Other States.....	5	647	.2405	55.7			647		
Total.....	13	1,462	.2140	56.9			647	813	2
1912.									
Connecticut.....	4	460	.2203	57.9				460	
Pennsylvania.....	4	316	.1853	57.6			45	271	
Other States.....	5	665	.2373	54.6		379	286		
Total.....	13	1,441	.2205	56.3		379	331	731	

WEAVERS, BROAD GOODS: Female.

1910.									
Connecticut.....	5	372	\$0.1657	57.9				372	
Pennsylvania.....	4	489	.1297	56.6			266	126	98
Other States.....	5	329	.1297	55.3			303	25	
Total.....	14	1,190	.1410	56.7			569	523	98

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.

SILK GOODS MANUFACTURING—Continued.

WEAVERS, BROAD GOODS: 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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
1911.									
Connecticut.....	4	358	\$0.1599	57.9				358	
Pennsylvania.....	4	408	.1415	58.2				337	71
Other States.....	3	612	.2202	56.0			612		
Total.....	11	1,378	.1812	57.2			612	695	71
1912.									
Connecticut.....	4	318	.1643	57.9				318	
Pennsylvania.....	4	426	.1629	57.3				117	309
Other States.....	3	706	.2187	54.1		687	19		
Total.....	11	1,450	.1904	55.9.		687	136	627	

WEAVERS, RIBBON: Male.

1910.									
New Jersey.....	6	254	\$0.2329	55.0			254		
Other States.....	2	99	.2488	56.2		44		55	
Total.....	8	353	.2374	55.3		44	254	55	
1911.									
New Jersey.....	5	307	.2374	55.0			307		
Other States.....	1	62	.2990	54.0		62			
Total.....	6	369	.2477	54.8		62	307		
1912.									
New Jersey.....	5	321	.2540	55.0			321		
Other States.....	1	65	.2980	54.0		65			
Total.....	6	386	.2614	54.8		65	321		

WEAVERS, RIBBON: Female.

1910.									
New Jersey.....	6	465	\$0.2397	55.0			465		
Pennsylvania.....	2	61	.1375	58.8				38	23
Other States.....	2	65	.2102	57.1		14		51	
Total.....	10	591	.2259	55.6		14	465	89	23
1911.									
New Jersey.....	6	548	.2377	55.0			548		
Pennsylvania.....	2	69	.1342	58.5				53	16
Other States.....	1	18	.2428	54.0		18			
Total.....	9	635	.2266	55.3		18	548	53	16
1912.									
New Jersey.....	6	509	.2395	55.0			509		
Pennsylvania.....	2	54	.1435	57.8				54	
Other States.....	1	17	.2527	54.0		17			
Total.....	9	580	.2310	55.2		17	509	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—Concluded.

SILK GOODS MANUFACTURING—Continued.

WINDERS, HARD SILK: 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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
1910.									
New Jersey.....	3	59	\$0.1205	55.0			59		
Pennsylvania.....	11	431	.0882	57.7			126	234	71
Other States.....	3	69	.1096	57.1			36	33	
Total.....	17	559	.0927	57.3			221	267	71
1911.									
Connecticut.....	3	105	.1263	57.9				105	
New Jersey.....	3	79	.1209	55.0			79		
Pennsylvania.....	9	497	.0904	56.9			222	230	45
Other States.....	3	208	.1174	56.5			182	26	
Total.....	18	889	.1037	56.8			483	361	45
1912.									
Connecticut.....	3	80	.1279	57.9				80	
New Jersey.....	3	74	.1183	55.0			74		
Pennsylvania.....	9	478	.0924	56.8			231	209	38
Other States.....	3	202	.1258	54.6		181		21	
Total.....	18	834	.1062	56.2		181	305	310	38

WINDERS, SOFT SILK: Female.

1910.									
Connecticut.....	5	187	\$0.1245	57.9				187	
New Jersey.....	9	246	.1238	55.0			246		
Pennsylvania.....	6	154	.0985	57.7			21	108	25
Other States.....	4	88	.1303	56.6		15	24	49	
Total.....	24	675	.1191	56.6		15	291	344	25
1911.									
Connecticut.....	4	195	.1278	57.9				195	
New Jersey.....	3	195	.1407	55.0			195		
Pennsylvania.....	6	252	.1049	58.0				231	21
Other States.....	4	258	.1345	55.9			258		
Total.....	22	900	.1261	56.7			453	426	21
1912.									
Connecticut.....	4	200	.1261	57.9				200	
New Jersey.....	3	140	.1466	55.0			140		
Pennsylvania.....	6	279	.1061	56.8				110	169
Other States.....	4	272	.1484	54.2		236	36		
Total.....	22	891	.1299	56.0		236	286	369	

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.

SILK GOODS MANUFACTURING—Continued.

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

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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
DOUBLERS, SILK THROWING, FEMALE.									
Pennsylvania:									
7 establishments.....	{ 1911	246	\$0.0926	56.2			155	91	
	{ 1912	237	.0907	56.3			148	89	
LABORERS, DYEHOUSE, MALE.									
Connecticut:									
2 establishments.....	{ 1910	212	.1735	57.9				212	
	{ 1911	232	.1801	57.9				232	
2 establishments.....	{ 1911	187	.1839	57.9				187	
	{ 1912	170	.1856	56.5	38			132	
New Jersey:									
2 establishments.....	{ 1911	1,501	.2077	55.0			1,501		
	{ 1912	1,545	.2212	55.0			1,545		
Pennsylvania:									
4 establishments.....	{ 1910	560	.1901	56.5			390	14	156
	{ 1911	655	.1908	56.3			471	16	168
6 establishments.....	{ 1911	799	.1934	56.1			615	16	168
	{ 1912	934	.2013	56.5			659		275
LOOM FIXERS, MALE.									
Connecticut:									
5 establishments.....	{ 1910	53	.2690	57.9				53	
	{ 1911	60	.2743	57.9				60	
4 establishments.....	{ 1911	57	.2748	57.9				57	
	{ 1912	57	.2762	57.9				57	
New Jersey:									
9 establishments.....	{ 1910	34	.2991	55.0			34		
	{ 1911	36	.3081	55.0			36		
8 establishments.....	{ 1911	27	.3398	55.0			27		
	{ 1912	26	.3465	55.0			26		
Pennsylvania:									
4 establishments.....	{ 1910	24	.2977	56.1			14	10	
	{ 1911	23	.3003	56.2			13	10	
3 establishments.....	{ 1911	20	.2521	57.8				20	
	{ 1912	19	.2685	56.9			7	12	
PICKERS, FEMALE.									
Connecticut:									
5 establishments.....	{ 1910	168	.1340	57.6				168	
	{ 1911	178	.1445	57.9				178	
4 establishments.....	{ 1911	172	.1452	57.9				172	
	{ 1912	132	.1480	57.9				132	
New Jersey:									
7 establishments.....	{ 1910	87	.1022	55.0			87		
	{ 1911	102	.1025	55.0			102		
6 establishments.....	{ 1911	97	.1023	55.0			97		
	{ 1912	104	.0996	55.0			104		
Pennsylvania:									
4 establishments.....	{ 1910	88	.1320	56.9			32	45	11
	{ 1911	79	.1483	57.0			26	42	11
4 establishments.....	{ 1911	89	.1470	58.0				78	11
	{ 1912	118	.1401	56.4			60	58	
QUILLERS, FEMALE.									
Connecticut:									
4 establishments.....	{ 1910	80	.1205	57.9				80	
	{ 1911	90	.1151	57.9				90	
4 establishments.....	{ 1911	90	.1151	57.9				90	
	{ 1912	85	.1146	58.0				85	

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.

SILK GOODS MANUFACTURING—Continued.

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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
QUILLERS, FEMALE—concluded.									
New Jersey:									
10 establishments.....	{ 1910	141	\$0.1149	55.0			141		
	{ 1911	172	.1146	55.0			172		
9 establishments.....	{ 1911	160	.1127	55.0			160		
	{ 1912	130	.1178	55.0			130		
Pennsylvania:									
5 establishments.....	{ 1910	59	.0834	57.5			20	20	19
	{ 1911	56	.0903	57.4			19	21	16
5 establishments.....	{ 1911	75	.0925	58.3				59	16
	{ 1912	70	.0900	57.2			17	53	
REELERS, FEMALE.									
Pennsylvania:									
6 establishments.....	{ 1910	79	.0935	57.2			44	10	25
	{ 1911	101	.0932	57.6			47	12	42
5 establishments.....	{ 1911	187	.0838	56.1			134	29	24
	{ 1912	203	.0811	56.1			148	25	30
SPINNERS, MALE.									
Pennsylvania:									
10 establishments.....	{ 1910	278	.0890	57.7			82	135	61
	{ 1911	311	.0876	57.9			79	151	81
8 establishments.....	{ 1911	256	.0851	58.0			34	184	38
	{ 1912	262	.0900	57.9			55	161	46
SPINNERS, FEMALE.									
Pennsylvania:									
6 establishments.....	{ 1910	71	.0866	56.9			31	34	6
	{ 1911	69	.0879	56.8			30	37	2
6 establishments.....	{ 1911	174	.0940	55.8			131	41	2
	{ 1912	214	.0942	56.1			145	58	11
WARPERS, FEMALE.									
Connecticut:									
4 establishments.....	{ 1910	73	.1693	57.9				73	
	{ 1911	96	.1641	57.9				96	
4 establishments.....	{ 1911	96	.1715	58.0				96	
	{ 1912	107	.1770	58.0				107	
New Jersey:									
8 establishments.....	{ 1910	82	.2209	55.0			82		
	{ 1911	103	.2113	55.0			103		
7 establishments.....	{ 1911	97	.2141	55.0			97		
	{ 1912	95	.2235	55.0			95		
Pennsylvania:									
3 establishments.....	{ 1910	85	.1313	56.2			54	22	9
	{ 1911	98	.1313	56.3			61	22	15
4 establishments.....	{ 1911	137	.1444	58.1				122	15
	{ 1912	149	.1604	57.3			31	118	
WEAVERS, BROAD GOODS, MALE.									
Connecticut:									
5 establishments.....	{ 1910	539	.2169	57.9				539	
	{ 1911	577	.2048	57.9				577	
4 establishments.....	{ 1911	549	.2039	57.9				549	
	{ 1912	460	.2203	57.9				460	
Pennsylvania:									
4 establishments.....	{ 1910	92	.1169	55.3			84	4	4
	{ 1911	82	.1159	55.4			71	9	2
4 establishments.....	{ 1911	266	.1702	58.0				264	2
	{ 1912	316	.1853	57.6			45	271	

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.

SILK GOODS MANUFACTURING—Concluded.

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—				
					51 and under 54.	54.	Over 54 and under 57.	57 and under 60.	60.
WEAVERS, BROAD GOODS, FEMALE.									
Connecticut:									
5 establishments.....	{ 1910	372	\$.1657	57.9				372	
	{ 1911	369	.1609	57.9				369	
4 establishments.....	{ 1911	358	.1599	57.9				358	
	{ 1912	318	.1643	57.9				318	
Pennsylvania:									
4 establishments.....	{ 1910	489	.1297	56.6			266	125	98
	{ 1911	403	.1137	56.6			224	108	71
4 establishments.....	{ 1911	408	.1415	58.2				337	71
	{ 1912	426	.1629	57.3			117	309	
WEAVERS, RIBBON, MALE.									
New Jersey:									
6 establishments.....	{ 1910	254	.2329	55.0			254		
	{ 1911	310	.2375	55.0			310		
5 establishments.....	{ 1911	307	.2374	55.0			307		
	{ 1912	321	.2540	55.0			321		
WEAVERS, RIBBON, FEMALE.									
New Jersey:									
6 establishments.....	{ 1910	465	.2397	55.0			465		
	{ 1911	548	.2377	55.0			548		
6 establishments.....	{ 1911	548	.2377	55.0			548		
	{ 1912	509	.2395	55.0			509		
Pennsylvania:									
2 establishments.....	{ 1910	61	.1375	58.8				38	23
	{ 1911	69	.1342	58.5				53	16
2 establishments.....	{ 1911	69	.1342	58.5				53	16
	{ 1912	54	.1435	57.8				54	
WINDERS, HARD SILK, FEMALE.									
Connecticut:									
3 establishments.....	{ 1911	105	.1263	57.9				105	
	{ 1912	80	.1279	57.9				80	
New Jersey:									
3 establishments.....	{ 1910	59	.1205	55.0			59		
	{ 1911	77	.1214	55.0			77		
3 establishments.....	{ 1911	79	.1209	55.0			79		
	{ 1912	74	.1183	55.0			74		
Pennsylvania:									
11 establishments.....	{ 1910	431	.0862	57.7			126	234	71
	{ 1911	446	.0862	57.7			133	232	81
9 establishments.....	{ 1911	497	.0904	56.9			222	230	45
	{ 1912	478	.0924	56.8			231	209	38
WINDERS, SOFT SILK, FEMALE.									
Connecticut:									
5 establishments.....	{ 1910	187	.1245	57.9				187	
	{ 1911	203	.1269	57.9				203	
4 establishments.....	{ 1911	195	.1278	57.9				195	
	{ 1912	200	.1261	57.9				200	
New Jersey:									
9 establishments.....	{ 1910	246	.1238	55.0			246		
	{ 1911	266	.1281	55.0			266		
8 establishments.....	{ 1911	195	.1407	55.0			195		
	{ 1912	140	.1466	55.0			140		
Pennsylvania:									
6 establishments.....	{ 1910	154	.0985	57.7			21	108	25
	{ 1911	167	.1018	57.3			38	108	21
6 establishments.....	{ 1911	252	.1049	58.0				231	21
	{ 1912	279	.1061	56.8			110	169	