

UNITED STATES DEPARTMENT OF LABOR

W. N. DOAK, Secretary

BUREAU OF LABOR STATISTICS

ETHELBERT STEWART, Commissioner

BULLETIN OF THE UNITED STATES } No. 537
BUREAU OF LABOR STATISTICS }

WAGES AND HOURS OF LABOR SERIES

**WAGES AND HOURS OF LABOR
IN THE DYEING AND FINISHING
OF TEXTILES, 1930**



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WAGES AND HOURS OF LABOR IN THE DYEING AND FINISHING OF TEXTILES, 1930

This report is the result of a study by the Bureau of Labor Statistics of hours of labor and earnings of employees in the dyeing and finishing of textiles in the United States in 1930.

The information used in compiling the report was collected by agents of the bureau for 17,739 male and 3,743 female employees of 109 representative establishments in 8 States. The work of the establishments included in the report consisted mostly in the dyeing and finishing of cotton textiles. In some plants mixtures of rayon and silk were dyed and finished.

The wage figures in the report are for the dyeing and finishing department of 37 cotton mills that produce and finish cotton goods and for 72 plants that do nothing but dye and finish textiles. Nearly all of the data were taken from pay rolls for pay periods in March, April, and May, 1930, and therefore represent conditions in the industry as of those months.

AVERAGE HOURS AND EARNINGS, 1930, BY OCCUPATIONS

Average full-time hours per week, average earnings per hour, and average full-time earnings per week are shown in Table 1 for each of 45 selected occupations, and also a separate group of "Other employees" made up of employees in all other occupations in the industry, each too few in number of employees to warrant tabulation as an occupation.

Full-time hours per week of males in the various occupations ranged from 48.7 for die makers to 56.9 for pressmen, and of females from 48.0 for steamer tenders to 55.0 for mercerizers. The average for all males and females combined, or the industry, was 50.9 hours per week.

Average earnings per hour of males in the various occupations ranged from 27.4 cents for pressmen to \$1.247 for machine engravers, and of females ranged from 24.9 cents for dyeing-machine tenders to 43.8 cents for batchers. The average for all males and females combined, or the industry, was 45.2 cents per hour.

Average full-time earnings per week of males in the various occupations ranged from \$15.59 for pressmen to \$61.85 for printing-machine tenders, and of females from \$12.33 for dyeing-machine tenders to \$21.44 for truckers. The average for all males and females combined, or the industry, was \$23.01.

WAGES AND HOURS OF LABOR

TABLE 1.—Average hours and earnings in the dyeing and finishing of textiles in 1930, by occupations

Occupation	Sex	Number of establishments	Number of employees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week
Ager tenders.....	Male	23	114	51.4	\$0.435	\$22.36
Back tenders, printing.....	do.	26	374	51.3	.466	23.91
Balers.....	do.	36	86	51.7	.362	18.72
Batchers (cloth winders).....	do.	41	300	49.9	.443	22.11
	Female	4	34	48.3	.438	21.16
Bath mixers.....	Male	27	51	50.1	.473	23.70
Calender tenders.....	do.	72	537	51.4	.431	22.15
Color mixers.....	do.	58	224	52.1	.489	25.48
Die makers.....	do.	9	27	48.7	1.240	60.39
Dryer tenders.....	do.	82	804	51.2	.435	22.27
	Female	8	47	48.5	.299	14.50
Dyeing-machine tenders.....	Male	96	1,618	50.6	.465	23.53
	Female	1	6	49.6	.249	12.33
Engravers, hand.....	Male	8	27	49.1	1.235	60.64
Engravers, machine.....	do.	14	37	49.4	1.247	61.60
Etchers.....	do.	6	9	50.3	.938	47.18
Floormen.....	do.	23	133	52.3	.466	24.37
Folders.....	do.	57	456	51.3	.587	30.11
	Female	29	247	49.4	.368	18.18
Inspectors.....	Male	46	345	50.1	.459	23.00
	Female	28	269	51.8	.296	16.28
Jackmen, printing.....	Male	19	70	51.2	.483	24.73
Kettlemen, color mixing.....	do.	26	88	51.8	.485	25.12
Kettlemen's helpers.....	do.	10	80	49.9	.475	23.70
Kier boilers.....	do.	64	154	53.0	.433	22.95
Knotters.....	Female	15	88	51.0	.298	15.20
Mangle tenders.....	Male	57	407	51.2	.424	21.71
	Female	3	11	50.4	.310	15.63
Measurers.....	Male	11	46	50.8	.457	23.22
	Female	16	80	50.5	.423	21.36
Mercerizers.....	Male	36	118	52.7	.434	22.87
	Female	1	1	55.0	.387	21.29
Openers.....	Male	42	152	49.6	.487	24.16
Packers.....	do.	74	342	51.8	.423	21.91
	Female	11	37	50.4	.313	15.78
Pilers.....	Male	19	181	49.4	.337	16.65
Flaters.....	do.	36	259	51.1	.374	19.11
	Female	2	9	50.3	.281	14.13
Polishers, metal.....	Male	14	47	50.9	.490	24.94
Pressmen.....	do.	5	8	56.9	.274	15.69
Printing-machine tenders.....	do.	28	313	51.5	1.201	61.85
Roller turners.....	do.	10	18	50.5	.570	28.79
Scutcher tenders.....	do.	14	40	50.6	.409	20.70
Sewars.....	do.	39	149	51.2	.389	19.92
	Female	56	504	51.4	.312	16.04
Singers.....	Male	47	118	50.7	.415	21.04
Soaper tenders.....	do.	27	192	51.2	.410	20.99
Soap mixers.....	do.	14	34	51.1	.429	21.92
Sprinkler tenders.....	do.	21	68	51.4	.379	19.48
Steamer tenders.....	do.	15	126	48.8	.438	21.37
	Female	1	3	48.0	.340	16.32
Swing tenders.....	Male	36	218	50.6	.373	18.87
	Female	3	26	49.2	.310	15.25
Tenter-frame tenders.....	Male	69	925	51.0	.435	22.19
	Female	14	122	50.4	.353	17.79
Truckers.....	Male	56	890	50.6	.406	20.49
	Female	1	1	54.0	.397	21.44
Tub washers.....	Male	20	55	52.9	.404	21.37
Washer tenders.....	do.	60	931	51.3	.447	22.93
Yarn winders.....	do.	9	68	56.2	.290	16.80
	Female	13	385	51.9	.350	18.17
Other employees.....	Male	109	6,621	51.0	.475	24.23
	Female	73	1,878	50.1	.336	16.83
All employees.....	Male	109	17,739	51.0	.473	24.17
	Female	84	3,743	50.5	.335	16.92
All employees, male and female.....		109	21,482	50.9	.452	23.01

AVERAGE HOURS AND EARNINGS, 1930, BY SEX AND STATE

Table 2 shows by States average full-time hours per week, earnings per hour, and full-time earnings per week in 1930 for males and females separately and for both sexes combined.

Average full-time hours per week of males ranged in the various States from 48.9 to 55.0; of females from 48.0 to 55.0; and of both sexes combined from 48.8 to 55.0. The average for males in all States was 51.0 and for females was 50.5.

Average earnings per hour of males ranged in the various States from 32.0 to 57.2 cents; of females from 22.3 to 38.6 cents; and of both sexes combined from 31.0 to 55.4 cents. The average for males in all States was 47.3 cents, and for females was 33.5 cents per hour.

Average full-time earnings per week of males ranged in the various States from \$17.60 to \$30.60; of females from \$12.27 to \$20.61; and of both sexes combined from \$16.96 to \$29.58. The average for males in all States was \$24.12, and for females \$16.92.

TABLE 2.—Average hours and earnings in the dyeing and finishing of textiles in 1930, by sex and State

Sex and State	Number of establishments	Number of employees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week
MALES					
Connecticut.....	5	724	53.5	\$0.572	\$30.00
Massachusetts.....	9	4,064	48.9	.433	21.17
New Jersey.....	16	5,503	49.8	.523	26.06
New York.....	9	1,303	48.9	.520	25.43
North Carolina.....	43	1,784	55.0	.320	17.80
Pennsylvania.....	12	923	53.8	.546	29.10
Rhode Island.....	10	2,568	52.5	.511	26.83
South Carolina.....	5	870	55.0	.332	18.26
Total.....	106	17,739	51.0	.473	24.12
FEMALES					
Connecticut.....	5	85	53.4	.358	20.61
Massachusetts.....	8	813	48.0	.313	15.02
New Jersey.....	16	1,077	48.6	.377	18.32
New York.....	9	218	49.5	.343	16.84
North Carolina.....	20	863	54.0	.288	15.55
Pennsylvania.....	11	230	51.7	.352	18.20
Rhode Island.....	10	359	52.5	.377	19.79
South Carolina.....	5	98	55.0	.228	12.37
Total.....	84	3,743	50.5	.335	16.92
MALES AND FEMALES					
Connecticut.....	5	809	53.4	.554	29.58
Massachusetts.....	9	4,877	48.8	.417	20.35
New Jersey.....	16	6,580	49.6	.502	24.90
New York.....	9	1,521	48.8	.497	24.25
North Carolina.....	43	2,647	54.7	.310	16.96
Pennsylvania.....	12	1,153	53.0	.512	27.14
Rhode Island.....	10	2,927	52.5	.497	26.09
South Carolina.....	5	968	55.0	.321	17.66
Total.....	100	21,482	50.8	.452	23.01

CLASSIFIED EARNINGS PER HOUR

Table 3 shows for the wage earners included in the study of the industry in 1930 the number and the per cent of each sex and of both sexes combined in each classified group of average earnings per hour.

Earnings per hour of males ranged by classified groups from "10 and under 12 cents" to "\$2 and under \$2.10," and each of the 2,836, or 16 per cent of the 17,739 males covered in the study, in 1930 earned an average that was within the group of "50 and under 55 cents" per hour. The 17,739 males earned an average of 47.3 cents per hour. Earnings per hour of females ranged by classified groups from "14 and under 15 cents" to "80 and under 85 cents," and each of the 439, or 12 per cent of the 3,743 females included in the study, earned an average that fell within the classified group of "35 and under 37½ cents" per hour. The average for all females was 33.5 cents per hour.

TABLE 3.—Number and per cent earning each classified amount per hour, 1930, by sex

Classified earnings	Number			Per cent		
	Males	Females	Total	Males	Females	Total
10 and under 12 cents.....	1		1	(0)		(0)
14 and under 15 cents.....		4	4		(0)	(0)
15 and under 16 cents.....	2	2	4	(0)	(0)	(0)
16 and under 17 cents.....		15	15		(0)	(0)
17 and under 18 cents.....	9	52	61	(0)	1	(0)
18 and under 19 cents.....	6	14	20	(0)	(0)	(0)
19 and under 20 cents.....	3	33	36	(0)		(0)
20 and under 21 cents.....	113	172	285	1	5	1
21 and under 22 cents.....	36	26	65	(0)	1	(0)
22 and under 23 cents.....	136	230	358	1	6	2
23 and under 24 cents.....	104	106	214	1	3	1
24 and under 25 cents.....	95	65	161	1	2	1
25 and under 27½ cents.....	742	352	1,094	4	9	5
27½ and under 30 cents.....	629	344	973	4	9	5
30 and under 32¼ cents.....	1,267	420	1,687	7	11	8
32¼ and under 35 cents.....	912	521	1,233	5	9	6
35 and under 37½ cents.....	867	439	1,306	5	12	6
37½ and under 40 cents.....	923	292	1,215	5	8	6
40 and under 42½ cents.....	1,412	220	1,632	8	6	6
42½ and under 45 cents.....	784	157	941	4	4	4
45 and under 47½ cents.....	1,523	140	1,663	9	4	8
47½ and under 50 cents.....	1,974	91	2,065	11	2	10
50 and under 55 cents.....	2,836	123	2,959	16	3	14
55 and under 60 cents.....	1,050	66	1,116	6	2	5
60 and under 65 cents.....	783	38	821	4	1	4
65 and under 70 cents.....	344	8	352	2		2
70 and under 75 cents.....	350	5	355	2	(0)	2
75 and under 80 cents.....	164	3	167	1	(0)	1
80 and under 85 cents.....	105	1	106	1	(0)	(0)
85 and under 90 cents.....	47		47	(0)		(0)
90 and under 95 cents.....	46		46	(0)		(0)
95 cents and under \$1.....	27		27	(0)		(0)
\$1 and under \$1.10.....	74		74	(0)		(0)
\$1.10 and under \$1.20.....	42		42	(0)		(0)
\$1.20 and under \$1.30.....	63		63	(0)		(0)
\$1.30 and under \$1.40.....	104		104	(0)		(0)
\$1.40 and under \$1.50.....	96		96	1		(0)
\$1.50 and under \$1.60.....	47		47	1		(0)
\$1.60 and under \$1.70.....	16		16	(0)		(0)
\$1.70 and under \$1.80.....	8		8	(0)		(0)
\$1.80 and under \$1.90.....	2		2	(0)		(0)
\$1.90 and under \$2.00.....	2		2	(0)		(0)
\$2 and under \$2.10.....	1		1	(0)		(0)
Total.....	17,739	3,743	21,482	100.0	100.0	100.0
Average earnings per hour.....	\$0.473	\$0.335	\$0.452			

¹ Less than 1 per cent.

FULL-TIME HOURS PER WEEK AND PER DAY

The full-time hours per week and per day, Monday to Thursday, Friday, and Saturday, in Table 4, are the regular hours of operation for day work and for night work in each of the dyeing and finishing plants that were covered in the 1930 study of the industry.

TABLE 4.—Number of establishments in each State with specified number of full-time hours per week and per day, 1930

Full-time hours per week	Full-time hours per day			Number of establishments in—									
	Monday to Thursday	Friday	Saturday	Connecticut	Massachusetts	New Jersey	New York	North Carolina	Pennsylvania	Rhode Island	South Carolina	Total establishments	
DAY WORK													
42½	8½	8½	0				1					1	
45	9	9	0						1			1	
47½	9½	9½	0			1				1		2	
47½ ¹	10½	10½	10									1	
48 ²	9	9	10				1					1	
	8½	8½	4½		1	0						11	
	8½	8½	4½		3	0	2			1	2	8	
48	9	9	0		1							1	
	9½	9½	0			1				1		2	
	10	10	10									1	
48 ³	8½	8½	4½		1							1	
	8½	8½	4½									1	
48 ⁴	10	10	0				1					1	
40½	0	0	4½				1					1	
40½	0	0	4½			1						1	
40½	0	0	4½			1						1	
60	10	10	0	2		1		1	1			4	
50 ¹	10	10	15									1	
49½ ²	10	10	4½				1					1	
51 ¹	10½	10½	14½									1	
49½ ²	10	10	4½				1					1	
52	9½	9½	9½			1						1	
52½	10½	10½	5						2			2	
52½	10½	10½	10									1	
49¾	10½	10½	10						1			1	
53	9½	9½	4½			1						1	
	9½	9½	5½						2			2	
54	9½	9½	5							1		1	
	10	10	4	1						4		5	
	11	10	0	1								1	
55	10	10	5	1		1		3 ³	1	1	5	4 ⁴	
	11	11	0					2				2	
55 ¹	10	10	15									1	
48 ²	8½	8½	4½		1							1	
55 ¹	10	10	15			2						2	
48 ²	9	9	12									1	
55 ¹	10	10	15									1	
54 ²	10	10	14						1			1	
56¾	10½	10½	15½							1		1	
54 ²	10½	10½	15½									1	
60	11	11	5					4				4	
50 ¹	11	11	15						1			1	
51½	10½	10½	15									1	
Total				5	9	16	9	43	12	10	5	109	
NIGHT WORK													
45	0	0	0				1					1	
48	0	0	0			1						1	
50	10	10	0		1			1				2	
54	11	10	0							1		1	
55	11	11	0			1			5		2	8	
55 ¹	11	11	10									1	
50 ¹	10	10	10			1						1	
60	12	12	0		2	5	2		1	1	2	12	
65	13	13	0			2			1	1		4	
72	12	12	12				1					1	
Total					3	11	4	7	2	3	2	32	

¹ Males.

² Females.

³ 65 per cent of employees or all except printing department.

⁴ Printing department or 31 per cent of employees.

Full-time hours per week for *day work* in the 109 plants covered in the study, ranged from 42½ in 1 plant to 60 in 5 plants, and for *night work* in the 32 of the 109 plants that had both day and night work ranged from 45 in 1 plant to 72 hours in 1 plant. In a majority of the plants in which there was night work the force was less than for day work and limited to certain departments.

The 5-day week, with no work on Saturday, was in effect in 15 of the 109 plants in which there was day work, and the 5-night week, with no work on Saturday, was in operation in 30 of the 32 plants; the 4-night week, with no work on Friday and Saturday, in one; and the 6-night week in one.

Hours for day work, Monday to Friday, ranged from 8½ to 11, and for night work ranged from 9 to 13. On Saturday hours for day work ranged from 3 to 5½, and for night work for the only plant with work on that day were 12.

CHANGES IN HOURS AND WAGE RATES SINCE JANUARY 1, 1929

Only 1 of the 109 plants reported a change in regular full-time hours since January 1, 1929. In this plant hours were reduced from 11 per day, Monday to Friday, and 5 Saturday, or 60 per week, to 10 per day, Monday to Friday, and 5 Saturday, or 55 per week.

Only 4 of the 109 plants reported changes in wage rates since January 1, 1929. The wage rates of all wage earners, except turners, polishers, and helpers, in the engraving department in 1 plant, and of engravers in 1 plant were increased 10 per cent. The wage rates of all wage earners in 1 plant were reduced 10 per cent, and in 1 plant, while there was no change in wage rates, earnings were reduced approximately 10 per cent by discontinuance of a production bonus system.

OVERTIME AND WORK ON SUNDAY AND HOLIDAYS

Overtime is any time worked by an employee in excess of his regular working hours per day or week, regardless of whether a higher rate than the regular rate is paid therefor.

In answering inquiries concerning overtime, 71 of the 109 establishments included in the study reported the same rate of pay per hour for each hour of overtime and for each hour of work on Sunday and holidays as for regular working hours, 4 reported no overtime work, and 34 reported a higher rate for such work than for regular working time.

Table 5 shows the employees of the 34 establishments who were entitled to extra pay for overtime and for work on Sunday and holidays and the number of times regular rate for such work.

TABLE 5.—Pay for overtime and for work on Sunday and holidays, employees entitled, and rate, 1930

Number of establishments	Employees entitled	Times regular rate for—	
		Overtime	Work on Sunday and holidays
2	All.....	1 1/2	2
12	do.....	1 1/2	1 1/2
2	do.....	1 1/2	1 1/2
1	do.....	1 1/2	1 1/2
1	Day workers.....	1 1/2	1 1/2
1	Machinists and carpenters.....	1 1/2	1 1/2
1	Maintenance employees.....	1 1/2	1 1/2
1	Printers.....	1 1/2	1 1/2
1	Printing machine tenders.....	1 1/2	1 1/2
1	Time workers.....	1 1/2	2
2	do.....	1 1/2	1 1/2
1	do.....	1 1/2	1 1/2
5	All except salaried employees.....	1 1/2	1 1/2
1	Printers and apprentices, engravers and apprentices, die makers and apprentices, rollers, turners, and clampers.....	1 1/2	1 1/2
1	Time workers except folders and maintenance men.....	1 1/2	1 1/2
1	Folders and maintenance men.....	1 1/2	1 1/2
1	All.....	1 1/2	1 1/2

¹ On Saturday only.

BONUS SYSTEMS

Twenty-three of the 109 plants included in the study reported bonus systems in operation in 1930. The basis of the bonus in each of these mills, the wage earners entitled to bonus payments, and the amount of and conditions necessary to get the bonus are shown in Table 6.

The bonus in 20 plants was based on *production*; in 2, on *attendance*; and in 1, on *length of service and attendance*.

TABLE 6.—Bonus systems of 23 establishments in 1930

Number of establishments	Bonus based on—	Employees entitled	Amount or per cent of earnings paid as bonus	Necessary to get bonus
1	Production..	All piece workers.....	60 per cent of time saved at a guaranteed basic rate.	Complete number of pieces in less than the set standard of time.
		Time hand workers.....	5 per cent of hourly rate for set standard or 20 per cent of such rate for more than set standard.	Production equal to or in excess of set standard.
		Time machine workers.....	10 per cent of hourly rate for set standard or 15 per cent of such rate for more than set standard.	Do.
2	do.....	Productive.....	The extra rate per unit in excess of set standard varies with kind of work.	Production in excess of set standard.
1	do.....	Back gray, bleach, color, dye, finishing, folding, printing, sewing, shear, single, soap, and white dry departments.	do.....	Do.
1	do.....	Box shop, calender room, color room, dyehouse, make-up room, print room, tenter room, and washhouse employees.	All time saved at regular rate.	Complete task or job in less than set standard time.
1	do.....	Calender, dyeing, frame, gray, mangle, and packing department employees and 85 per cent of finishing department employees	The extra rate per units in excess of set standard varies with kind of work.	Production in excess of set standard.

TABLE 6.—*Bonus systems of 23 establishments in 1930—Continued*

Number of establishments	Bonus based on—	Employees entitled	Amount or per cent of earnings paid as bonus	Necessary to get bonus
1	Production	Dyeing, finishing, folding, and shipping departments.	The extra rate per units in excess of set standard varies with kind of work.	Production in excess of set standard.
1	do	Examining, folding, gray room, marking, and shipping departments.	do	Do.
1	do	Folding and marking departments.	do	Do.
2	do	Folders	do	Do.
1	do	Folding machine operators and stringers.	do	Do.
		(Double and roll, dye, fast color, folding, open stock, put-up, and starch departments.	50 per cent of time saved plus 20 per cent of time worked at regular rate.	Complete task or job in less than set standard of time.
1	do	Openers	14 cents extra for each 100 pieces in excess of 1,500 per day.	Complete more than 1,500 pieces in day.
		Sewars	8 cents extra for each 1,000 yards in excess of 31,350 yards per day.	Complete more than 31,350 yards in day.
		Folders	1¼ cents extra for each 100 yards in excess of 30,000 yards per day.	Fold more than 30,000 yards in day.
1	do	Hookers	2¼ cents extra for each 100 yards in excess of 30,000 yards per day.	Hook more than 30,000 yards per day.
1	do	Folders, knotters, and yarders.	The extra rate per unit in excess of set standard varies with kind of work.	Complete more than set standard in day.
1	do	Folders, inspectors, sewers, tackers, winders, and yarders.	do	Do.
		Hand folders	8 cents extra for each 1,000 yards in excess of 25,000 yards per day.	Fold more than 25,000 yards per day.
1	do	Hookers	6 cents extra for each 1,000 yards in excess of 25,000 yards per day.	Hook more than 25,000 yards in day.
		Stitchers	4 cents extra for each 1,000 yards in excess of 25,000 yards per day.	Stitch more than 25,000 yards in day.
1	do	Measurers	10 cents extra for each 1,000 yards in excess of 25,000 yards per day.	Measure more than 25,000 yards in day.
1	do	Nearly all time workers	75 per cent of time saved at regular rate.	Complete task or job in less than set standard of time.
1	Attendance	All	5 per cent of earnings	Work 13 weeks without loss of any time.
1	do	Printers	60 cents per day \$1 per week	Work part of each day. 1 year's service and no loss of time in week.
1	Service and attendance	All	\$2 per week \$3 per week	3 years' service and no loss of time in week. 5 years' service and no loss of time in week.

INDEX NUMBERS OF EMPLOYMENT AND OF PAY ROLLS, 1923 TO 1930

Index numbers of employment and of pay rolls in the dyeing and finishing of textiles are presented in Table 7 for each month and year January, 1923, to December, 1930. The numbers were computed from volume of employment and amount of the pay rolls for each of the months and years, with the average for 1926 the base, or 100 per cent, and are as published by the bureau in monthly reports on "Trend of Employment" in the United States.

During the period 1923 to 1930 monthly employment was highest in April, 1923, with an index of 106.1 and lowest in July, 1930, with an index of 84.2. Monthly pay rolls were highest in February, 1929, with an index of 110 and lowest in July, 1930, with an index of 72.8. Employment by years ranged from an index of 93 in 1930 to 102.1 in 1923, and pay rolls ranged from 87.9 in 1930 to an index of 102.8 in 1927.

TABLE 7.—Index numbers of employment and of pay rolls, January, 1923, to December, 1930, by month and year

[Average for 1923=100]

Month	Employment								Pay-roll totals							
	1923	1924	1925	1926	1927	1928	1929	1930	1923	1924	1925	1926	1927	1928	1929	1930
January.....	105.9	92.3	102.0	103.6	100.3	102.0	102.0	99.3	101.3	91.2	105.9	104.5	101.5	100.0	104.2	95.5
February.....	104.6	97.7	104.0	103.2	101.5	103.3	104.7	100.4	101.8	98.0	107.8	106.5	106.3	105.6	110.0	99.2
March.....	105.5	96.8	105.0	103.8	102.1	102.2	105.2	99.8	103.7	94.2	110.0	106.3	107.0	105.7	109.8	100.6
April.....	106.1	96.0	105.2	101.8	102.2	99.8	104.3	98.0	104.5	93.0	105.4	102.5	105.7	100.5	107.4	96.3
May.....	104.8	93.0	102.8	99.4	100.4	98.5	103.1	94.8	108.6	88.8	102.2	97.8	101.2	100.2	106.5	90.4
June.....	100.7	90.3	97.7	98.0	96.3	96.5	101.6	90.4	100.2	83.2	94.2	94.1	99.6	95.6	100.8	80.0
July.....	101.0	88.7	98.1	93.8	97.3	94.8	99.4	84.2	90.1	70.7	94.1	82.0	94.9	91.0	96.1	72.8
August.....	95.1	85.4	97.2	96.2	98.0	95.5	98.0	86.6	87.5	62.5	93.9	93.1	98.5	94.1	97.4	76.4
September.....	96.6	92.3	90.0	98.1	100.4	96.6	100.8	85.5	93.0	92.5	94.5	98.0	103.2	97.3	100.0	79.9
October.....	101.2	95.1	102.0	99.7	102.2	99.4	102.4	91.4	100.0	96.3	107.8	102.7	100.2	104.0	103.5	88.9
November.....	101.0	98.0	103.4	100.9	103.2	101.9	100.8	92.8	98.3	94.6	105.4	102.2	104.2	108.7	96.5	88.1
December.....	103.0	100.7	103.0	100.8	102.9	103.3	99.0	93.1	103.8	105.9	106.3	102.8	105.3	109.7	94.4	88.1
Average.....	102.1	94.0	101.7	100.0	100.0	99.5	101.8	93.0	99.6	91.8	102.8	100.0	102.8	101.0	102.2	87.9

IMPORTANCE OF THE INDUSTRY

Table 8 shows for the industry the number of establishments, average number of wage earners, amount paid in wages, cost of materials, value of products, and value added by manufacture in 1919, 1921, 1923, 1925, and 1927 for the United States as a whole, and in 1927 only for each of the 8 States for which 1930 data are presented in this report. These figures are as reported by United States Census of Manufactures. Computations based on these figures were made by the bureau to show the average per wage earner in each year for each of the items in the table, and also the per cent that the amount paid in wages was of the value added by manufacture.

By years average annual wages per wage earner ranged from \$1,022 in 1919 to \$1,242 in 1927. By States averages in 1927 ranged from \$872 to \$1,382. Wages formed 38 per cent of value added by manufacture in 1919, 43 per cent in 1921 and 1923, 45 per cent in 1925, and 47 per cent in 1927. In 1927 the per cent ranged by States from 30 to 50.

TABLE 8.—Number of establishments and wage earners, wages, cost of materials, value of products, and value added by manufacture in the dyeing and finishing of textiles industry, 1919 to 1927

State and year	Number of establishments	Average number of wage earners	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Average annual wages per wage earner	Cost of materials per wage earner	Value of products per wage earner	Value added by manufacture per wage earner	Per cent wages are of value added
United States:											
1919.....	628	55,985	\$57,182,978	\$174,742,815	\$323,967,683	\$149,224,848	\$1,022	\$3,121	\$5,787	\$2,685	38
1921.....	599	51,510	58,138,729	141,198,956	276,750,670	135,551,714	1,129	2,741	5,373	2,632	43
1923.....	713	63,414	72,524,711	199,156,367	366,623,213	167,466,826	1,144	3,141	5,781	2,641	43
1925.....	697	70,749	83,963,877	220,678,181	408,515,464	187,837,303	1,187	3,119	5,774	2,655	45
1927.....	743	73,851	91,697,219	210,680,900	406,047,872	185,366,472	1,242	2,853	5,498	2,645	47
1927											
Connecticut.....	20	2,551	3,255,786	4,812,350	11,779,105	6,966,755	1,276	1,886	4,617	2,731	47
Massachusetts.....	68	13,826	16,229,352	51,434,423	84,459,666	33,025,238	1,174	3,720	6,109	2,339	49
New Jersey.....	170	19,470	26,904,610	88,234,552	91,732,052	53,497,500	1,382	1,964	4,711	2,748	60
New York.....	174	7,335	9,532,290	18,133,973	38,876,371	20,742,299	1,265	2,407	5,159	2,753	46
North Carolina.....	16	2,545	2,228,412	12,381,416	18,996,189	5,614,773	876	5,258	7,484	2,203	40
Pennsylvania.....	145	8,902	11,497,742	20,395,507	54,491,269	24,095,702	1,292	3,414	6,121	2,707	48
Rhode Island.....	62	9,690	11,521,344	19,565,612	44,979,369	25,413,777	1,201	2,040	4,690	2,650	45
South Carolina.....	7	1,302	1,134,973	8,385,877	7,162,721	3,776,844	872	2,601	4,501	2,901	30
Other States.....	81	8,130	9,392,710	31,327,186	58,570,710	22,233,524	1,165	3,855	6,589	2,735	42

SCOPE AND METHOD

This bulletin presents 1930 wage figures for 21,482 wage earners of 109 representative plants that were engaged primarily in dyeing and finishing cotton goods in Connecticut, Massachusetts, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, and South Carolina. The work in some plants also included rayon and silk mixtures. These States are the most important in the industry in number of wage earners, and together, based on the 1927 Census of Manufactures, represent 89 per cent of the total number in the United States, and the number for which wage figures are shown is 29 per cent of the total in all States. Data for executives and office and clerical workers were not used in compiling the report.

Data for each of the plants that have pay periods of more than one week were so taken as to make it possible to present figures for one week for wage earners in all plants.

Average full-time hours per week for the wage earners in each occupation were computed by dividing the aggregate full-time hours of all wage earners in the occupation by the number in the occupation. The full-time hours of each wage earner were used in obtaining this average, even though some may have worked more or less than full time.

Average earnings per hour of wage earners in each occupation were computed by dividing the combined earnings of all wage earners in the occupation in one week by the total number of hours worked by them during the week.

Average full-time earnings per week of wage earners in each occupation were computed by multiplying the average earnings per hour by the average full-time hours per week. This shows what the earnings would have been had all wage earners in the occupation worked full time, no more nor less, at the same average earnings per hour as in the one week.

Table 9 shows by States the number of wage earners in the industry in 1927 according to the United States Census of Manufactures, the number of establishments from which the Bureau of Labor Statistics obtained data in 1930, and the number of wage earners included in the 1930 study.

TABLE 9.—Number of wage earners in dyeing and finishing textiles in 1927, and number of establishments and wage earners for whom 1930 data are shown, by States

State	Wage earners reported by United States census in 1927	Number of establishments and wage earners for which data are shown by the Bureau of Labor Statistics for 1930	
		Establishments	Wage earners
Connecticut.....	2,351	5	809
Massachusetts.....	13,826	9	4,577
New Jersey.....	19,470	16	6,580
New York.....	7,335	9	1,621
North Carolina.....	2,545	43	2,647
Pennsylvania.....	8,902	12	1,153
Rhode Island.....	9,590	10	2,927
South Carolina.....	1,302	5	968
Other States.....	8,139		
Total.....	78,861	109	21,482

GENERAL TABLES

In addition to the preceding text tables, three general tables are presented as follows:

TABLE A.—Average number of days on which employees worked, average full-time and actual hours and earnings per week, average earnings per hour, and per cent of full time worked, 1930, by occupation, sex, and State.

The presentation in this table in parallel columns of "average full-time hours per week" and "average hours actually worked per week" is for the purpose of easy comparison of the hours that would have been worked in the week had all employees in the occupation worked no more nor less than full time with the average hours that were actually worked in the week. One shows the full-time hours under normal conditions, while the other shows the hours actually worked in the week by all employees in the occupation in each State and in all States combined. On page 22, at the end of the table, it is seen that the 17,739 males in the 109 mills worked on an average of 5.2 days in one week; that their average full-time hours in one week were 51.0; that they actually worked 50.7 hours in the week, or 99.4 per cent of full time; that they earned an average of 47.3 cents per hour and \$23.99 in the week, and that had they worked full time at the same average per hour as was earned in the 50.7 hours they would have earned an average of \$24.12 in the week. The 3,743 females in the 84 mills worked on an average of 5.0 days in one week. Their average full-time hours per week were 50.5 and they worked an average of 42.4 hours in the week, or 84 per cent of full time. They earned an average of 33.5 cents per hour and \$14.20 in the week. Had they worked their average full time of 50.5 hours per week at the same average per hour as was earned in the 42.4 hours they would have earned an average of \$16.92. The 21,482 males and females in the 109 mills worked on an average of 5.2 days in one week. Their average full-time hours per week were 50.9, and in the week they worked an average of 49.3 hours, or 96.9 per cent of full time. They earned an average of 45.2 cents per hour and \$22.29 in the week. Had they worked their average full-time hours of 50.9 per week at the same average per hour as was earned in the 49.3 hours they would have earned an average of \$23.01 in the week.

TABLE B.—Average and classified earnings per hour in 12 specified occupations, 1930, by sex and State.

TABLE C.—Average and classified full-time hours per week in 12 specified occupations, 1930, by sex and State.

TABLE A.—Average number of days on which employees worked, average full-time and actual hours and earnings per week, average earnings per hour, and per cent of full time worked, 1930, by occupation, sex, and State

Occupation, sex, and State	Number of establishments	Number of employees	Average days on which employees worked	Average full-time hours per week	Average hours actually worked in week	Per cent of full time worked in week	Average earnings per hour	Average full-time earnings in week	Average actual earnings in week
Agar tenders, male:									
Connecticut.....	2	3	6.3	54.0	74.2	137.4	\$0.615	\$27.81	\$38.19
Massachusetts.....	5	42	5.3	50.4	63.3	125.6	.381	19.20	24.11
New Jersey.....	6	26	5.7	48.8	58.4	119.7	.522	25.47	30.47
New York.....	2	7	5.7	48.6	56.9	117.1	.426	20.70	24.23
North Carolina.....	2	3	5.3	55.0	50.0	90.9	.239	13.15	11.97
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	4	34	5.6	55.7	63.3	113.6	.457	25.45	28.91
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	23	114	5.5	51.4	61.3	119.3	.435	22.36	26.67
Back tenders, printing, male:									
Connecticut.....	2	21	6.1	54.0	66.1	122.4	.526	31.64	38.75
Massachusetts.....	6	151	5.4	49.6	58.0	116.9	.399	19.79	23.17
New Jersey.....	5	63	5.4	48.6	50.3	103.5	.538	26.15	27.93
New York.....	2	18	5.3	48.9	51.1	104.5	.501	24.50	25.61
North Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	2	22	4.9	55.8	56.7	101.6	.591	32.68	33.83
Rhode Island.....	6	81	5.6	54.5	59.6	109.4	.482	25.27	28.70
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	26	374	5.4	51.8	58.8	110.7	.466	23.91	26.44
Balers, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	6	19	5.1	49.1	42.9	87.4	.376	18.46	10.13
New Jersey.....	3	4	6.0	50.6	52.0	102.8	.471	23.83	24.45
New York.....	2	3	3.3	46.2	29.0	62.8	.360	16.63	10.43
North Carolina.....	13	20	5.1	54.1	47.4	87.6	.267	14.44	12.66
Pennsylvania.....	6	10	5.3	52.2	48.4	92.7	.470	24.53	22.75
Rhode Island.....	4	14	4.7	50.1	41.4	82.6	.451	22.60	18.99
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	36	85	5.0	51.7	44.9	86.8	.362	18.72	16.24
Batchers (cloth winders), male:									
Connecticut.....	4	30	5.4	53.5	53.8	100.6	.517	27.66	27.80
Massachusetts.....	6	69	5.5	48.7	51.9	106.6	.348	18.95	18.04
New Jersey.....	10	127	5.2	48.5	46.3	95.5	.490	23.77	22.67
New York.....	6	25	4.4	48.6	38.6	79.4	.457	22.21	17.65
North Carolina.....	5	12	5.2	55.0	47.1	85.6	.290	15.95	13.68
Pennsylvania.....	2	5	4.2	53.4	39.4	73.8	.361	19.28	14.24
Rhode Island.....	8	32	5.5	52.9	53.0	100.2	.465	24.60	24.64
Total.....	41	300	5.3	49.9	48.3	96.8	.443	22.11	21.41
Batchers (cloth winders), female:									
Massachusetts.....	2	24	5.0	48.0	40.6	84.6	.472	22.66	19.15
New York.....	2	10	4.2	48.9	34.8	71.2	.343	16.77	11.93
Total.....	4	34	4.6	48.5	38.9	80.5	.438	21.16	17.03
Bath mixers, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	7	28	5.0	48.8	49.6	101.6	.524	25.57	25.95
New York.....	8	6	5.4	48.7	51.4	105.5	.489	23.81	25.11
North Carolina.....	6	5	5.0	55.0	48.5	88.2	.283	15.57	13.78
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	3	3	5.7	54.2	54.7	100.7	.452	24.54	24.60
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	27	51	5.1	50.1	49.8	99.4	.473	23.70	23.65

†Data included in total.

WAGES AND HOURS OF LABOR

TABLE A.—Average number of days on which employees worked, average full-time and actual hours and earnings per week, average earnings per hour, and per cent of full time worked, 1930, by occupation, sex, and State—Continued

Occupation, sex, and State	Number of establishments	Number of employees	Average days on which employees worked	Average full-time hours per week	Average hours actually worked in week	Per cent of full time worked in week	Average earnings per hour	Average full-time earnings per week	Average actual earnings in week
Calender tenders, male:									
Connecticut.....	3	35	4.6	53.5	44.4	83.0	\$0.539	\$28.94	\$23.91
Massachusetts.....	8	105	5.6	48.9	55.2	112.9	.396	19.36	21.88
New Jersey.....	15	108	5.3	49.6	47.3	95.4	.462	22.92	21.84
New York.....	9	61	4.7	48.9	42.6	87.1	.474	23.18	20.17
North Carolina.....	15	39	5.3	54.5	50.4	92.5	.323	17.60	16.28
Pennsylvania.....	7	19	6.0	53.3	53.4	100.2	.493	26.28	26.33
Rhode Island.....	10	123	5.2	53.0	51.5	97.2	.472	25.02	24.33
South Carolina.....	4	47	5.7	55.0	60.3	109.6	.303	18.47	18.26
Total.....	72	537	5.2	51.4	50.7	98.6	.431	22.15	21.81
Color mixers, male:									
Connecticut.....	3	19	5.9	53.2	64.8	121.8	.675	35.91	43.74
Massachusetts.....	6	75	5.3	50.9	51.8	101.8	.413	21.62	21.41
New Jersey.....	9	36	5.7	48.7	53.4	109.7	.634	30.88	33.82
New York.....	5	10	5.0	49.0	51.8	105.7	.543	26.61	28.09
North Carolina.....	23	37	5.1	54.0	52.2	95.1	.377	20.79	19.68
Pennsylvania.....	2	12	5.4	56.3	64.3	114.2	.602	33.89	38.71
Rhode Island.....	7	28	5.8	53.8	60.5	112.5	.457	24.59	27.65
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	58	224	5.4	52.1	55.3	106.1	.489	28.48	27.06
Die makers, male:									
Massachusetts.....	2	10	6.0	48.0	47.8	99.6	1.365	65.62	65.23
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	2	2	5.0	51.4	48.5	94.4	1.082	55.61	52.48
Rhode Island.....	2	5	6.0	49.2	57.8	117.5	1.560	78.23	91.87
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	9	27	5.0	48.7	43.7	89.7	1.240	60.39	54.25
Dryer tenders, male:									
Connecticut.....	5	38	5.1	53.2	53.3	100.2	.477	25.38	25.46
Massachusetts.....	7	158	5.2	48.4	51.7	106.8	.375	18.15	19.38
New Jersey.....	15	317	5.1	51.6	51.4	99.5	.478	24.66	24.59
New York.....	3	66	4.3	48.5	40.5	83.5	.426	20.61	17.22
North Carolina.....	23	45	4.6	55.1	45.3	82.2	.385	21.21	17.42
Pennsylvania.....	10	48	5.0	53.0	51.3	96.8	.456	24.17	23.41
Rhode Island.....	10	110	5.5	52.2	56.9	109.0	.440	22.97	25.02
South Carolina.....	4	27	5.6	55.0	65.8	121.5	.293	15.12	19.58
Total.....	82	804	5.1	51.2	51.5	100.8	.435	22.27	22.42
Dryer tenders, female:									
New Jersey.....	2	32	4.9	48.0	42.4	88.3	.315	15.12	13.38
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	3	47	4.9	48.5	43.8	90.3	.299	14.50	13.10
Dyeing-machine tenders, male:									
Connecticut.....	4	35	5.0	52.5	52.8	100.6	.505	26.51	26.66
Massachusetts.....	8	157	5.3	48.7	49.3	101.2	.358	17.43	17.65
New Jersey.....	16	319	4.9	48.9	47.3	96.7	.606	24.74	23.94
New York.....	6	56	4.5	48.7	44.9	92.2	.458	22.30	20.58
North Carolina.....	36	169	4.6	55.1	45.7	82.9	.298	16.42	13.62
Pennsylvania.....	11	172	5.1	53.1	48.3	91.0	.554	29.42	26.80
Rhode Island.....	10	160	5.3	52.4	54.6	104.2	.491	25.73	26.80
South Carolina.....	3	44	5.3	55.0	60.6	110.2	.391	18.01	17.63
Total.....	96	1,618	4.9	50.6	48.6	98.0	.465	23.53	22.62
Engravers, hand, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	3	10	6.0	48.7	49.3	101.2	1.245	60.63	61.30
New Jersey.....	2	10	6.0	48.0	50.8	105.8	1.140	54.72	57.85
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	8	27	5.9	49.1	50.0	101.8	1.235	60.64	61.70

† Data included in total.

TABLE A.—Average number of days on which employees worked, average full-time and actual hours and earnings per week, average earnings per hour, and per cent of full time worked, 1930, by occupation, sex, and State—Continued

Occupation, sex, and State	Number of establishments	Number of employees	Average days on which employees worked	Average full-time hours per week	Average hours actually worked in week	Per cent of full time worked in week	Average earnings per hour	Average full-time earnings per week	Average actual earnings in week
Engravers, machine, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	4	16	6.0	48.4	48.2	99.6	\$1.344	\$65.05	\$64.74
New Jersey.....	2	3	5.3	45.7	33.2	102.2	.637	31.02	33.90
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	4	12	5.6	50.5	53.6	106.1	1.356	53.48	72.61
Total.....	14	37	5.8	49.4	50.7	102.6	1.247	61.60	63.18
Etchers, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	2	2	6.0	51.5	49.9	96.9	.653	43.93	42.57
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	6	9	5.8	50.3	49.5	98.4	.939	47.18	46.45
Floormen, male:									
Connecticut.....	3	11	5.5	54.1	56.3	104.1	.491	26.56	27.63
Massachusetts.....	3	15	5.1	48.5	48.7	100.4	.427	20.71	20.77
New Jersey.....	4	17	6.5	49.3	49.6	100.6	.488	24.06	24.19
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina.....	3	4	5.5	55.0	55.5	97.3	.322	17.71	17.22
Pennsylvania.....	4	20	4.9	53.4	50.4	94.4	.443	23.56	22.34
Rhode Island.....	6	62	5.5	53.4	58.3	109.2	.474	25.31	27.66
Total.....	23	133	5.4	52.3	54.3	103.8	.496	24.37	25.31
Folders, male:									
Connecticut.....	3	14	5.4	52.9	52.4	99.1	.597	31.53	31.29
Massachusetts.....	6	125	5.4	49.0	49.4	94.7	.530	28.95	25.62
New Jersey.....	6	53	5.2	50.4	49.0	91.3	.639	34.73	31.72
New York.....	6	43	4.8	48.5	38.0	80.2	.699	33.00	27.19
North Carolina.....	12	47	5.3	54.3	48.6	89.1	.399	21.67	19.59
Pennsylvania.....	7	38	4.9	52.8	47.4	89.8	.495	26.14	23.50
Rhode Island.....	9	96	5.2	52.3	48.3	92.4	.696	36.51	33.71
South Carolina.....	4	30	5.5	55.0	56.4	102.5	.472	25.96	26.41
Total.....	67	456	5.2	51.3	47.1	91.8	.537	30.11	27.62
Folders, female:									
Massachusetts.....	5	53	5.2	48.0	42.9	89.4	.410	19.68	17.61
New Jersey.....	12	139	5.0	48.5	40.7	83.9	.379	18.38	15.39
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina.....	4	24	5.8	55.0	51.4	93.5	.247	13.59	12.73
Pennsylvania.....	2	4	5.0	53.0	43.7	82.5	.396	19.40	16.00
Rhode Island.....	3	16	4.8	51.4	39.3	76.5	.325	16.71	12.75
South Carolina.....	2	5	5.0	55.0	51.7	94.0	.193	10.62	9.99
Total.....	39	247	5.1	49.4	42.5	86.0	.368	18.18	15.42
Inspectors, male:									
Connecticut.....	2	12	5.8	54.2	57.1	105.4	.517	28.03	29.49
Massachusetts.....	6	79	5.5	48.1	49.7	103.3	.364	17.51	18.10
New Jersey.....	7	165	5.0	40.3	43.6	63.4	.499	24.09	21.75
New York.....	7	12	5.5	48.8	47.7	97.7	.498	24.30	23.74
North Carolina.....	8	32	5.3	55.0	50.5	91.5	.358	19.69	18.08
Pennsylvania.....	7	13	5.0	52.3	47.3	91.4	.569	29.76	27.19
Rhode Island.....	7	25	5.2	51.1	49.5	96.9	.537	30.00	29.06
South Carolina.....	2	7	4.7	55.0	52.5	95.6	.349	19.03	18.21
Total.....	46	345	5.2	50.1	47.0	93.8	.469	23.00	21.57

1 Data included in total.

TABLE A.—Average number of days on which employees worked, average full-time and actual hours and earnings per week, average earnings per hour, and per cent of full time worked, 1930, by occupation, sex, and State—Continued

Occupation, sex, and State	Number of establishments	Number of employees	Average days on which employees worked	Average full-time hours per week	Average hours actually worked in week	Per cent of full time worked in week	Average earnings per hour	Average full-time earnings per week	Average actual earnings in week
Inspectors, female:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	5	53	5.3	48.0	42.6	88.8	\$0.333	\$15.98	\$14.18
New Jersey.....	4	60	4.8	48.0	38.3	79.8	.358	17.18	13.71
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina.....	11	128	4.4	55.2	40.2	72.8	.235	12.97	9.45
Pennsylvania.....	2	6	5.8	53.1	49.6	93.4	.368	19.54	18.27
Rhode Island.....	4	11	5.5	54.0	52.4	97.0	.328	17.71	17.19
Total.....	28	269	4.8	51.8	41.2	78.5	.295	15.28	12.14
Jackmen, printing, male:									
Connecticut.....	2	5	6.2	54.0	68.9	127.6	.648	34.99	44.63
Massachusetts.....	4	22	5.2	49.9	51.9	104.0	.413	20.61	21.41
New Jersey.....	5	16	5.8	48.0	51.2	106.7	.539	25.87	27.62
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	5	19	5.9	54.1	64.7	119.6	.473	25.59	30.58
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1) X
Total.....	19	70	5.6	51.2	57.5	112.3	.483	24.73	27.75
Kettlemen, color mixing, male:									
Connecticut.....	2	4	5.0	54.0	67.1	124.3	.675	36.46	45.27
Massachusetts.....	5	24	5.4	50.0	58.0	116.0	.392	19.60	22.73
New Jersey.....	5	5	5.6	48.0	50.7	105.6	1.025	49.20	51.93
New York.....	2	2	5.5	48.5	60.3	124.3	.594	28.81	35.76
North Carolina.....	4	9	4.1	55.6	39.8	71.6	.236	13.12	9.41
Pennsylvania.....	2	3	4.7	51.7	53.3	103.1	.697	36.03	37.17
Rhode Island.....	6	11	5.9	54.1	64.7	119.6	.463	25.06	29.92
Total.....	26	58	5.3	51.8	56.3	108.7	.485	25.12	27.29
Kettlemen's helpers, male:									
Massachusetts.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	3	39	4.8	48.0	47.2	98.3	.627	25.30	24.90
New York.....	2	14	4.8	48.9	53.4	109.2	.496	24.26	26.45
North Carolina.....	2	7	4.0	55.0	38.3	69.6	.215	11.53	8.25
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	10	80	4.8	49.9	49.6	99.4	.475	23.70	23.60
Kier boilers, male:									
Connecticut.....	3	12	5.4	52.7	57.1	108.3	.501	26.40	28.60
Massachusetts.....	7	32	5.8	49.8	62.9	126.3	.405	20.17	25.48
New Jersey.....	5	11	5.7	50.7	59.5	117.4	.460	23.32	27.39
New York.....	8	15	5.4	57.2	59.8	104.2	.466	26.66	27.76
North Carolina.....	11	21	4.5	54.8	47.1	85.9	.300	16.44	14.11
Pennsylvania.....	7	10	4.9	52.2	54.0	103.4	.541	28.24	29.20
Rhode Island.....	9	40	5.4	53.3	56.4	105.8	.480	25.58	27.10
South Carolina.....	4	13	5.4	55.0	56.7	103.1	.337	18.54	19.13
Total.....	54	154	5.4	53.0	56.9	107.4	.433	22.95	24.66
Knotters, female:									
New Jersey.....	2	13	3.4	49.8	29.0	58.2	.397	19.77	11.51
New York.....	7	35	4.5	48.4	30.9	76.2	.332	16.07	12.24
North Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
South Carolina.....	3	19	5.5	55.0	53.4	97.1	.248	13.64	13.22
Total.....	15	85	4.7	51.0	41.2	80.8	.266	15.20	12.31

1 Data included in total.

TABLE A.—Average number of days on which employees worked, average full-time and actual hours and earnings per week, average earnings per hour, and per cent of full time worked, 1930, by occupation, sex, and State—Continued

Occupation, sex, and State	Number of establishments	Number of employees	Average days on which employees worked	Average full-time hours per week	Average hours actually worked in week	Per cent of full time worked in week	Average earnings per hour	Average full-time earnings per week	Average actual earnings in week
Mangle tenders, male:									
Connecticut.....	3	21	5.3	53.2	56.1	105.5	\$0.543	\$28.89	\$30.45
Massachusetts.....	9	53	5.3	48.5	51.1	103.4	.379	18.28	19.35
New Jersey.....	11	100	5.0	50.7	46.9	92.5	.491	24.39	22.52
New York.....	7	64	4.7	48.3	43.9	90.9	.474	22.89	20.78
North Carolina.....	9	36	5.2	54.7	51.1	93.4	.333	18.22	17.03
Pennsylvania.....	7	14	5.3	52.6	52.8	100.4	.453	25.41	25.47
Rhode Island.....	10	73	5.4	51.4	52.3	101.8	.448	23.03	23.42
South Carolina.....	5	46	5.7	55.0	64.0	116.4	.293	16.12	18.77
Total.....	57	407	5.2	51.2	50.9	99.4	.424	21.71	21.60
Mangle tenders, female:									
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	3	11	5.1	50.4	49.9	99.0	.810	15.62	15.45
Measurers, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	2	20	4.1	50.0	33.3	66.6	.520	26.00	17.31
New York.....	2	6	3.8	48.0	32.8	68.3	.575	27.60	18.85
North Carolina.....	4	13	5.3	53.8	48.7	90.5	.370	19.91	18.03
Rhode Island.....	2	5	6.0	48.0	59.7	124.4	.388	18.38	22.84
Total.....	11	46	4.7	50.3	43.2	85.0	.457	23.22	19.73
Measurers, female:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	2	19	5.0	48.0	39.1	81.5	.494	23.71	19.31
New Jersey.....	2	16	5.4	52.3	43.0	91.8	.433	22.65	20.79
New York.....	7	27	5.0	48.3	37.9	78.5	.446	21.54	16.90
North Carolina.....	2	12	5.3	55.0	53.6	97.5	.292	16.06	15.63
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	16	80	5.2	50.5	43.1	85.3	.423	21.36	18.23
Mercerizers, male:									
Connecticut.....	2	6	5.0	52.7	48.9	92.8	.473	24.33	23.15
Massachusetts.....	3	12	4.8	48.0	43.6	90.8	.367	17.62	15.98
New Jersey.....	4	13	5.7	50.6	56.5	112.3	.476	24.09	27.03
New York.....	5	6	5.2	48.6	46.1	99.0	.585	28.03	28.13
North Carolina.....	4	26	4.6	56.7	48.3	85.8	.311	17.46	15.02
Pennsylvania.....	6	10	4.8	53.3	44.5	83.8	.578	30.81	25.63
Rhode Island.....	8	31	5.4	52.5	52.5	100.0	.473	24.81	24.81
South Carolina.....	3	8	5.3	53.0	61.6	112.0	.304	16.72	18.76
Total.....	35	118	5.1	52.7	50.2	95.3	.434	22.87	21.70
Openers, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	6	24	5.1	48.6	43.5	90.8	.370	17.96	17.08
New Jersey.....	12	70	5.3	48.2	46.9	97.3	.531	25.11	24.41
New York.....	9	24	4.8	45.7	42.1	96.4	.497	24.20	20.94
North Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	8	8	5.3	53.5	53.0	99.1	.476	25.47	25.30
Rhode Island.....	6	17	5.3	53.4	56.2	105.3	.633	33.46	29.96
Total.....	43	152	5.1	49.6	47.1	95.0	.487	24.16	22.94
Packers, male:									
Connecticut.....	4	10	5.5	52.4	57.3	109.4	.506	26.62	29.10
Massachusetts.....	6	33	5.7	60.4	47.7	94.6	.572	18.75	17.76
New Jersey.....	15	75	5.6	49.2	49.2	100.0	.506	24.95	24.95
New York.....	8	39	5.1	48.6	42.7	87.9	.514	24.95	21.95
North Carolina.....	16	90	5.0	54.8	47.1	85.9	.289	15.84	13.62
Pennsylvania.....	10	30	5.2	53.3	47.4	90.3	.476	24.95	22.56
Rhode Island.....	10	52	5.7	52.3	53.0	101.5	.473	24.69	25.11
South Carolina.....	5	21	5.9	55.0	59.7	108.5	.322	21.01	22.79
Total.....	74	342	5.4	51.8	49.1	94.8	.433	21.91	20.77

¹ Data included in total.

WAGES AND HOURS OF LABOR

TABLE A.—Average number of days on which employees worked, average full-time and actual hours and earnings per week, average earnings per hour, and per cent of full time worked, 1930, by occupation, sex, and State—Continued

Occupation, sex, and State	Number of establishments	Number of employees	Average days on which employees worked	Average full-time hours per week	Average hours actually worked in week	Per cent of full time worked in week	Average earnings per hour	Average full-time earnings per week	Average actual earnings in week
Packers, female:									
New York.....	5	25	4.8	48.5	38.1	80.6	\$0.343	\$16.04	\$13.42
North Carolina.....	2	8	4.9	55.0	43.6	79.1	.242	13.31	10.64
Pennsylvania.....	2	2	4.5	51.9	44.0	84.8	.313	16.24	13.79
Rhode Island.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	11	37	4.9	50.4	41.3	81.9	.313	15.78	12.95
Pilers, male:									
Connecticut.....	2	14	4.6	53.4	42.6	79.8	.403	21.52	17.15
Massachusetts.....	5	109	5.2	48.4	44.8	92.6	.317	15.34	14.20
New York.....	3	18	4.3	48.4	37.1	76.7	.375	18.15	13.92
North Carolina.....	3	10	3.4	55.0	32.4	58.9	.232	12.76	7.51
Rhode Island.....	6	30	4.8	50.2	44.2	88.0	.384	18.28	16.99
Total.....	19	181	4.9	49.4	43.1	87.2	.337	16.65	14.49
Plaiters, male:									
Connecticut.....	2	9	5.8	54.0	61.1	113.1	.464	25.06	28.36
Massachusetts.....	3	31	4.9	50.0	45.3	90.6	.346	17.30	15.66
New Jersey.....	7	60	5.0	49.8	46.2	92.8	.400	19.92	18.47
New York.....	6	47	4.6	49.1	41.4	84.3	.419	20.57	17.34
North Carolina.....	2	6	4.5	54.2	42.3	78.0	.253	13.98	10.91
Pennsylvania.....	3	12	4.6	54.0	45.7	84.6	.363	19.60	16.59
Rhode Island.....	8	74	5.3	51.8	49.7	95.9	.378	19.58	18.78
South Carolina.....	4	20	4.8	55.0	49.0	89.1	.221	12.16	10.94
Total.....	35	259	5.0	51.1	45.8	91.6	.374	19.11	17.51
Plaiters, female:									
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	2	9	5.1	50.3	42.2	83.9	.281	14.13	11.99
Poishers, metal, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	3	15	6.0	48.5	52.8	108.9	.403	19.55	21.27
New Jersey.....	3	9	4.9	48.9	43.5	90.6	.631	30.29	27.48
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	3	14	5.6	54.5	58.6	103.9	.485	26.43	27.48
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	14	47	5.6	50.9	52.9	103.9	.490	24.94	25.91
Pressmen, male									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina.....	4	7	4.9	57.1	48.1	84.2	.265	15.13	12.76
Total.....	5	8	5.0	56.9	48.9	85.9	.274	15.59	13.42
Printing-machine tenders, male:									
Connecticut.....	3	16	6.0	53.8	64.0	119.0	1.377	74.08	88.17
Massachusetts.....	6	129	5.5	51.2	55.0	107.4	1.114	57.04	61.25
New Jersey.....	6	61	5.8	48.7	51.5	105.7	1.218	59.32	62.71
New York.....	2	17	4.8	49.1	47.7	97.1	1.390	68.25	66.36
North Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	3	21	4.9	54.5	58.1	106.0	1.413	77.43	82.08
Rhode Island.....	6	57	5.3	53.3	56.0	105.1	1.322	70.46	74.97
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	28	313	5.4	51.5	54.7	106.2	1.201	61.85	65.66

¹ Data included in total.

TABLE A.—Average number of days on which employees worked, average full-time and actual hours and earnings per week, average earnings per hour, and per cent of full time worked, 1930, by occupation, sex, and State—Continued

Occupation, sex, and State	Number of establishments	Number of employees	Average days on which employees worked	Average full-time hours per week	Average hours actually worked in week	Per cent of full time worked in week	Average earnings per hour	Average full-time earnings per week	Average actual earnings in week
Roller turners, male:									
Massachusetts.....	3	8	5.0	48.9	52.3	107.0	\$0.429	\$20.98	\$22.43
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	3	6	5.0	53.0	50.2	94.7	.803	42.56	40.28
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	10	18	5.0	50.5	51.1	101.2	.570	28.79	29.11
Scutcher tenders, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	3	10	5.3	48.7	52.1	107.0	.823	17.63	18.65
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	2	6	3.7	48.3	32.5	67.3	.608	24.54	16.49
North Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	2	7	5.3	54.5	57.4	105.3	.398	21.99	22.55
Rhode Island.....	4	10	5.6	50.4	57.6	114.3	.394	19.35	22.14
Total.....	14	40	5.1	50.6	50.9	100.6	.409	20.70	20.51
Sewers, male:									
Connecticut.....	2	5	5.6	54.2	56.3	104.3	.406	25.26	26.47
Massachusetts.....	5	63	5.7	48.5	55.0	113.4	.849	16.93	19.21
New Jersey.....	9	19	5.6	49.1	47.4	96.5	.475	23.32	22.48
New York.....	3	4	5.3	49.8	47.7	95.8	.475	23.06	22.67
North Carolina.....	2	17	5.1	55.6	48.5	87.2	.245	13.58	11.93
Pennsylvania.....	3	5	5.0	55.3	52.5	94.9	.446	24.66	23.41
Rhode Island.....	3	36	5.7	54.0	59.3	110.7	.445	24.05	26.68
Total.....	39	149	5.6	51.2	54.2	105.9	.399	19.62	21.07
Sewers, female:									
Connecticut.....	3	12	4.4	52.4	42.2	80.5	.323	17.19	13.65
Massachusetts.....	6	117	5.1	48.0	40.3	84.0	.294	14.11	11.82
New Jersey.....	14	64	4.9	48.5	40.5	83.5	.362	17.66	14.64
New York.....	9	22	4.5	48.3	37.3	77.2	.373	18.02	13.92
North Carolina.....	9	106	4.6	54.9	42.4	77.2	.263	15.54	11.93
Pennsylvania.....	3	8	5.1	51.5	42.9	83.3	.319	16.36	13.62
Rhode Island.....	9	42	4.6	51.0	40.7	79.8	.302	16.99	15.97
South Carolina.....	3	13	4.7	55.0	51.5	93.6	.233	12.32	12.01
Total.....	56	504	4.8	51.4	41.4	80.5	.312	16.04	12.93
Singers, male:									
Connecticut.....	2	4	5.0	53.0	47.6	89.8	.451	23.90	21.48
Massachusetts.....	6	28	4.9	48.5	43.8	90.3	.359	17.41	15.74
New Jersey.....	11	29	5.2	49.0	49.0	100.0	.467	24.34	24.34
New York.....	7	10	4.9	48.5	42.5	87.8	.501	24.30	21.31
North Carolina.....	6	15	4.5	54.7	41.0	75.0	.379	20.73	15.53
Pennsylvania.....	4	4	5.3	54.3	51.3	95.4	.443	24.05	22.94
Rhode Island.....	3	16	5.1	50.7	44.5	87.8	.441	22.30	19.63
South Carolina.....	3	12	4.8	55.0	56.4	102.5	.273	15.02	15.42
Total.....	47	118	4.9	50.7	46.4	91.5	.415	21.04	19.23
Soapier tenders, male:									
Connecticut.....	2	4	5.3	50.0	66.0	132.0	.453	22.65	29.63
Massachusetts.....	6	72	5.5	48.7	56.5	116.0	.394	17.73	20.53
New Jersey.....	6	19	5.5	51.5	52.2	112.3	.475	24.51	27.65
New York.....	3	11	4.2	49.3	40.7	82.7	.476	23.42	19.46
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	2	72	5.6	53.5	53.5	115.9	.433	23.43	27.33
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	27	192	5.4	51.2	53.9	115.0	.410	20.99	24.15

1 Data included in total.

TABLE A.—Average number of days on which employees worked, average full-time and actual hours and earnings per week, average earnings per hour, and per cent of full time worked, 1930, by occupation, sex, and State—Continued

Occupation, sex and State	Number of establishments	Number of employees	Average days on which employees worked	Average full-time hours per week	Average hours actually worked in week	Per cent of full time worked in week	Average earnings per hour	Average full-time earnings per week	Average actual earnings in week
Soap mixers, male:									
Massachusetts.....	3	11	5.1	50.4	53.1	105.4	\$0.420	\$21.17	\$22.27
New Jersey.....	4	10	5.4	48.4	56.2	115.1	.529	25.60	29.75
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	4	7	5.7	54.1	69.0	127.5	.398	21.42	27.34
South Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	14	34	5.3	51.1	59.0	115.5	.429	21.92	25.26
Sprinkler tenders, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	3	14	5.9	48.0	60.0	125.0	.344	16.51	20.67
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	5	8	5.0	48.2	47.4	98.3	.457	22.03	21.65
North Carolina.....	3	3	5.3	53.3	52.9	99.2	.326	17.39	17.25
Rhode Island.....	5	13	5.2	52.4	50.4	96.2	.427	22.37	21.50
South Carolina.....	3	15	5.7	55.0	59.2	107.6	.261	14.36	15.43
Total.....	21	68	5.4	51.4	52.7	102.5	.379	19.48	20.00
Steamer tenders, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	5	36	5.6	48.8	57.1	117.0	.342	16.69	19.49
New Jersey.....	6	79	4.8	48.0	50.6	105.4	.491	23.57	24.82
North Carolina.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	2	5	6.2	54.0	57.7	106.9	.387	20.90	22.34
Total.....	15	126	5.1	48.8	52.4	107.4	.438	21.37	22.97
Swing tenders, male:									
Massachusetts.....	7	103	5.6	49.7	54.9	110.5	.339	16.85	18.58
New Jersey.....	5	9	4.9	48.0	46.3	96.5	.442	21.23	20.47
New York.....	7	31	4.6	48.8	42.2	88.5	.406	19.91	17.22
North Carolina.....	4	19	4.7	55.0	44.2	80.4	.328	17.93	14.41
Pennsylvania.....	5	18	4.9	52.4	51.3	97.9	.439	23.00	22.51
Rhode Island.....	8	39	5.1	52.2	50.5	96.7	.433	22.08	21.37
Total.....	36	218	5.2	50.5	50.8	100.4	.373	18.87	18.94
Swing tenders, female:									
New Jersey.....	2	21	4.5	48.0	35.1	73.1	.322	15.46	11.29
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	3	26	4.4	49.2	35.5	72.2	.310	15.26	11.00
Tenter-frame tenders, male:									
Connecticut.....	4	24	5.2	53.0	56.7	107.0	.509	26.98	28.68
Massachusetts.....	7	144	5.8	49.3	55.8	113.2	.359	17.70	20.02
New Jersey.....	13	423	5.0	49.8	45.1	90.8	.425	24.15	21.87
New York.....	8	56	5.3	50.6	53.2	105.1	.481	24.34	25.63
North Carolina.....	18	41	5.3	55.0	50.3	92.4	.303	16.67	15.38
Pennsylvania.....	7	37	5.1	54.8	52.2	96.1	.479	26.01	25.00
Rhode Island.....	9	121	5.7	52.6	60.2	114.4	.459	24.14	27.60
South Carolina.....	5	74	5.4	55.0	59.5	108.2	.289	16.45	17.80
Total.....	69	925	5.3	51.0	51.2	100.4	.435	22.19	22.26
Tenter-frame tenders, female:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	5	83	5.3	49.9	49.0	99.6	.335	16.43	16.48
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	2	7	4.7	52.5	45.0	85.7	.278	14.60	12.51
Rhode Island.....	5	26	5.6	53.0	53.3	101.5	.395	20.94	21.39
Total.....	14	123	5.3	50.4	49.9	99.0	.353	17.70	17.69

1 Data included in total.

TABLE A.—Average number of days on which employees worked, average full-time and actual hours and earnings per week, average earnings per hour, and per cent of full time worked, 1930, by occupation, sex, and State—Continued

Occupation, sex and State	Number of establishments	Number of employees	Average days on which employees worked	Average full-time hours per week	Average hours actually worked in week	Per cent of full time worked in week	Average earnings per hour	Average full-time earnings per week	Average actual earnings in week
Truckers, male:									
Connecticut.....	3	41	5.1	53.6	47.1	87.9	\$0.474	\$23.41	\$22.36
Massachusetts.....	7	200	5.6	48.5	55.2	113.8	.357	17.31	19.70
New Jersey.....	13	133	5.1	49.4	47.5	96.2	.495	24.50	23.55
New York.....	2	71	5.1	48.6	45.4	93.4	.465	22.60	21.12
North Carolina.....	6	53	5.0	54.7	47.7	87.2	.204	14.44	12.59
Pennsylvania.....	6	48	5.2	53.2	53.2	100.0	.426	22.67	22.07
Rhode Island.....	9	158	5.4	51.9	51.9	100.0	.440	23.12	23.12
South Carolina.....	4	38	5.5	55.0	57.2	104.0	.301	16.56	17.20
Total.....	56	800	5.4	50.6	51.5	101.8	.405	20.49	20.35
Tub washers, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	4	12	5.2	50.8	55.1	110.4	.367	18.64	20.53
New Jersey.....	3	5	5.6	48.0	55.5	115.8	.511	24.53	29.04
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina.....	3	7	5.3	50.4	51.1	90.6	.270	15.28	13.81
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	7	23	5.6	53.7	55.7	103.7	.388	20.64	21.61
Total.....	20	55	5.5	52.9	56.7	107.2	.404	21.37	22.91
Washer tenders, male:									
Connecticut.....	4	33	5.1	52.9	50.7	95.8	.480	25.39	24.51
Massachusetts.....	7	116	5.3	48.7	51.9	106.6	.356	17.34	18.45
New Jersey.....	12	559	4.7	51.2	47.1	92.0	.492	25.19	23.14
New York.....	9	45	4.8	45.5	49.9	109.8	.444	21.07	18.15
North Carolina.....	6	30	4.6	55.0	45.0	81.8	.287	15.79	12.92
Pennsylvania.....	6	15	4.6	52.8	42.7	80.9	.437	24.66	19.68
Rhode Island.....	10	87	5.3	52.0	52.7	101.3	.422	21.94	22.25
South Carolina.....	3	46	5.2	55.0	55.8	101.5	.304	16.72	16.95
Total.....	60	931	4.9	51.3	48.3	94.2	.447	22.03	21.69
Yarn winders, male:									
Massachusetts.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina.....	8	68	5.9	50.4	35.6	63.1	.284	16.02	10.10
Total.....	9	69	4.0	50.2	35.5	63.2	.290	16.30	10.28
Yarn winders, female:									
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina.....	8	287	5.9	51.5	38.2	73.7	.351	18.18	13.30
Pennsylvania.....	4	89	5.0	52.6	44.4	84.4	.349	18.36	15.41
Total.....	13	385	4.2	51.9	39.5	76.3	.350	18.17	13.84
Other employees, male:									
Connecticut.....	5	270	5.3	53.6	54.2	101.1	.569	31.57	31.91
Massachusetts.....	9	1,553	5.6	48.7	52.6	108.0	.436	21.25	22.60
New Jersey.....	16	1,928	4.2	49.9	48.7	97.5	.537	26.30	26.15
New York.....	9	468	5.3	48.7	47.3	96.9	.537	26.16	25.34
North Carolina.....	43	863	4.9	55.0	47.6	86.9	.327	17.99	15.63
Pennsylvania.....	12	280	5.2	53.2	52.8	98.7	.558	29.69	29.27
Rhode Island.....	10	771	5.5	52.4	55.3	105.5	.523	27.41	28.04
South Carolina.....	5	378	5.7	58.0	58.2	105.6	.358	19.68	20.73
Total.....	109	6,621	5.3	51.0	51.1	100.2	.475	24.23	24.30
Other employees, female:									
Connecticut.....	4	64	5.3	53.4	51.0	95.5	.393	20.45	19.54
Massachusetts.....	8	547	5.3	48.0	41.3	86.0	.292	14.02	12.05
New Jersey.....	15	605	5.0	48.4	39.7	82.0	.391	18.92	14.63
New York.....	9	63	5.1	48.4	43.7	90.3	.304	14.71	13.25
North Carolina.....	17	196	4.9	55.2	46.6	82.6	.250	14.30	11.80
Pennsylvania.....	6	104	4.6	50.6	43.3	85.6	.368	18.52	15.81
Rhode Island.....	9	255	5.2	52.9	48.2	91.1	.379	20.05	18.26
South Carolina.....	5	60	5.7	55.0	55.5	100.9	.216	11.68	11.93
Total.....	73	1,884	5.1	50.1	43.1	86.0	.336	16.83	14.47

¹ Data included in total.

TABLE A.—Average number of days on which employees worked, average full-time and actual hours and earnings per week, average earnings per hour, and per cent of full time worked, 1930, by occupation, sex, and State—Continued

Occupation, sex and State	Number of establishments	Number of employees	Average days on which employees worked	Average full-time hours per week	Average hours actually worked in week	Per cent of full time worked in week	Average earnings per hour	Average full-time earnings per week	Average actual earnings in week
All employees, male:									
Connecticut.....	5	724	5.3	53.5	54.2	101.3	\$0.572	\$30.00	\$30.90
Massachusetts.....	9	4,064	5.5	48.9	52.7	107.8	.433	21.17	22.60
New Jersey.....	16	5,503	5.1	49.8	48.0	96.4	.523	26.05	25.09
New York.....	9	1,303	5.0	48.9	48.3	97.6	.520	25.43	23.68
North Carolina.....	43	1,784	4.8	55.0	47.1	85.6	.320	17.60	15.05
Pennsylvania.....	12	923	5.1	53.3	51.4	96.4	.546	29.10	28.09
Rhode Island.....	10	2,568	5.5	52.5	54.9	104.6	.511	28.33	28.03
South Carolina.....	5	870	5.6	55.0	58.6	106.6	.332	18.26	19.48
Total.....	109	17,739	5.2	51.0	50.7	99.4	.473	24.12	23.99
All employees, female:									
Connecticut.....	5	85	5.2	53.4	49.7	93.1	.380	20.61	19.20
Massachusetts.....	8	813	5.3	48.0	41.8	86.0	.213	15.02	12.90
New Jersey.....	16	1,077	5.0	48.6	40.5	83.3	.377	18.32	15.27
New York.....	9	218	4.9	48.5	40.6	83.7	.343	16.94	13.93
North Carolina.....	20	563	4.5	54.0	42.0	77.8	.286	15.55	12.10
Pennsylvania.....	11	230	4.8	51.7	43.8	84.7	.352	18.20	15.42
Rhode Island.....	10	369	5.1	52.5	47.2	89.9	.377	19.79	17.78
South Carolina.....	5	98	6.1	55.0	54.4	98.9	.223	12.27	12.13
Total.....	84	3,743	5.0	50.5	42.4	94.0	.335	16.92	14.20
All employees, male and female:									
Connecticut.....	5	809	5.3	53.4	53.7	100.6	.554	29.58	28.73
Massachusetts.....	9	4,877	5.5	48.8	50.8	104.1	.417	20.35	21.15
New Jersey.....	16	6,580	5.1	49.6	46.8	94.4	.502	24.90	23.48
New York.....	9	1,521	5.0	48.8	44.7	91.6	.497	24.25	22.20
North Carolina.....	43	2,647	4.7	54.7	45.4	83.0	.310	16.96	14.09
Pennsylvania.....	12	1,153	5.0	53.0	49.9	94.2	.512	27.14	25.56
Rhode Island.....	10	2,927	5.4	52.5	53.9	102.7	.497	26.09	26.78
South Carolina.....	5	968	5.6	55.0	58.2	105.8	.321	17.66	18.71
Total.....	109	21,482	5.2	50.9	48.3	96.9	.452	23.01	22.20

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TABLE B.—Average and classified earnings per hour in 12 specified occupations, 1930, by sex and State

Occupation, sex, and State	Number of establishments	Number of employees	Average earnings per hour	Number of employees whose earnings per hour were—																
				10, under 12 cents	14, under 16 cents	16, under 18 cents	18, under 20 cents	20, under 25 cents	25, under 30 cents	30, under 35 cents	35, under 40 cents	40, under 45 cents	45, under 50 cents	50, under 60 cents	60, under 70 cents	70, under 80 cents	80, under 90 cents	90 cents, under \$1.00	\$1, under \$1.10	\$1.10, under \$1.25
Calender tenders, male:																				
Connecticut.....	8	35	\$0.539										1	3	29	2				
Massachusetts.....	3	103	.396					2	11	49	12	21	10							
New Jersey.....	16	106	.462						1	20	27	80	26	4						
New York.....	9	61	.474							3	22	11	22	3						
North Carolina.....	16	39	.323					4	9	13	10	2	1							
Pennsylvania.....	7	19	.493								1	2	1	9	1					
Rhode Island.....	10	123	.472							1	16	53	20	20	7	5	1			
South Carolina.....	4	47	.303					1	16	29			1							
Total.....	72	537	.431					5	27	55	99	120	62	116	17	5	1			
Dryer tenders, male:																				
Connecticut.....	5	33	.477							2		10	9	10	2					
Massachusetts.....	7	188	.375						2	67	11	67	10	1						
New Jersey.....	15	317	.478						3	3	16	40	170	83	3					
New York.....	3	66	.425						1	4	16	26	14	5	2					
North Carolina.....	22	45	.385				1	8	22	11	3									
Pennsylvania.....	10	48	.456						1	4	5	7	8	22	1					
Rhode Island.....	10	110	.440							21	16	25	28	16	4					
South Carolina.....	4	27	.293					2	15	7			1							
Total.....	82	604	.435				1	10	43	119	66	176	240	137	12					
Dryer tenders, female:																				
New Jersey.....	2	32	.315						1	31										
New York.....	1	(¹)	(¹)					(¹)	(¹)	(¹)										
Total.....	3	47	.269					2	10	35										

¹Data included in total.

TABLE B.—Average and classified earnings per hour in 12 specified occupations, 1930, by sex and State—Continued

Occupation, sex, and State	Number of establishments	Number of employees	Average earnings per hour	Number of employees whose earnings per hour were—																		
				10, under 12 cents	14, under 16 cents	16, under 18 cents	18, under 20 cents	20, under 25 cents	25, under 30 cents	30, under 35 cents	35, under 40 cents	40, under 45 cents	45, under 50 cents	50, under 60 cents	60, under 70 cents	70, under 80 cents	80, under 90 cents	90 cents, under \$1.00	\$1, under \$1.10	\$1.10, under \$1.25	\$1.25 and over	
Dyeing-machine tenders, male:																						
Connecticut.....	4	35	\$0.505						5		2	9	11		7						1	
Massachusetts.....	8	187	.358						80	20	24	17	2									
New Jersey.....	16	819	.506						2	7	51	334	381	42	2							
New York.....	8	56	.458						2	10	19	18	9	3								
North Carolina.....	26	100	.238	1				30	52	59	17	7	1	2								
Pennsylvania.....	11	172	.554							9	7	73	47	35					1			
Rhode Island.....	10	105	.491						8	28	40	10	54	19	1							
South Carolina.....	3	44	.291					5	13	24	1	1										
Total.....	96	1,618	.465	1				35	70	189	83	153	397	532	118	38			1	1		
Folders, male:																						
Connecticut.....	3	14	.597						1				3	8	2							
Massachusetts.....	8	125	.550							12	5	7	8	11	23	31	15	1	6	1		
New Jersey.....	6	53	.649								2			2	1	23	19	6				
New York.....	8	53	.099											11	12	29	1					
North Carolina.....	12	47	.309							11	9	5	6	10	5	1						
Pennsylvania.....	7	38	.495							1	5	5	1	22	3	1						
Rhode Island.....	9	96	.698							5	6	1	4	20	47	14	5					
South Carolina.....	4	30	.472							3	2	3	7	15								
Total.....	57	456	.587						23	19	26	23	31	89	97	114	22	11	1			
Folders, female:																						
Massachusetts.....	5	53	.410						6	4	12	15	11	5								
New Jersey.....	12	139	.379					1	17	28	48	34	8	1		2						
New York.....	1	(1)	(1)										(1)	(1)								
North Carolina.....	4	24	.247					18	2	2	2											
Pennsylvania.....	2	4	.366						1		2		1									
Rhode Island.....	3	16	.325							4	8	3										
South Carolina.....	2	5	.198			1																
Total.....	29	247	.368			1		23	30	42	67	50	20	10	2	2						
Inspectors, male:																						
Connecticut.....	2	12	.517								2		3	6	1							
Massachusetts.....	6	79	.304						25	5	30	5	1	5	5							
New Jersey.....	7	165	.499										2	91	68	4						

New York.....	7	12	.498							6	2	2	2						
North Carolina.....	8	32	.358					3	16	2		4	5	3					
Pennsylvania.....	7	13	.562									2	2	3				3	
Rhode Island.....	7	26	.587							1		3	8	3				7	
South Carolina.....	2	7	.346						4	3				3					
Total.....	46	345	.469					28	27	28	25	102	97	18	10				
Inspectors, female:																			
Connecticut.....	1	(¹)	(¹)								(¹)								
Massachusetts.....	5	53	.333			15	18	4	3		3	1	5	4					
New Jersey.....	4	60	.358					22	36		1	1							
New York.....	1	(¹)	(¹)							(¹)									
North Carolina.....	11	128	.235	1		4	76	42	8	2									
Pennsylvania.....	2	6	.368						1	5									
Rhode Island.....	4	11	.328					5	2	2		1	1						
Total.....	28	269	.295	1		4	91	65	32	66	6	3	5	4					
Mangle tenders, male:																			
Connecticut.....	3	21	.543								3	5	8	5					
Massachusetts.....	5	53	.379				2	15	5		27	3							
New Jersey.....	11	100	.481					1	24		10	21	40	4					
New York.....	7	64	.474						4		25	19	13	3					
North Carolina.....	9	26	.333				11	11	9		3	1	1						
Pennsylvania.....	7	14	.483					1			1	4	8						
Rhode Island.....	10	73	.448					7	17		13	8	19	3	1				
South Carolina.....	5	46	.293				4	19	21	2									
Total.....	57	407	.424			4	32	56	62	67	61	89	15	1					
Mangle tenders, female:																			
New Jersey.....	1	(¹)	(¹)								(¹)	(¹)							
New York.....	1	(¹)	(¹)			(¹)	(¹)	(¹)											
Pennsylvania.....	1	(¹)	(¹)			(¹)	(¹)												
Total.....	3	11	.310			3	4	2			1	1							
Printing-machine tenders, male:																			
Connecticut.....	3	16	1.377											1	1	1	4	9	
Massachusetts.....	6	129	1.114									3	6	11	7			5	59
New Jersey.....	6	61	1.218									1	3	4	23	11	20	20	
New York.....	2	17	1.390											1	7		7	17	
North Carolina.....	1	(¹)	(¹)						(¹)	(¹)	(¹)	(¹)							
Pennsylvania.....	3	21	1.413							1				1				1	13
Rhode Island.....	6	57	1.322											2	2	2	5	9	37
South Carolina.....	1	(¹)	(¹)						(¹)	(¹)	(¹)	(¹)	(¹)				(¹)		
Total.....	28	313	1.201						4	2	6	8	15	11	8	26	24	40	169

¹Data included in total.

Pennsylvania.....	2	7	.278					5		2									
Rhode Island.....	5	26	.395					1		14	5	5							
Total.....	14	122	.353					26	20	40	15	8	3						
Truckers, male:																			
Connecticut.....	2	41	.474							1	17	13	7	3					
Massachusetts.....	7	260	.357					27	123	25	46	11	13						
New Jersey.....	12	133	.498						1	9	6	47	66	5					
New York.....	8	71	.483						2	4	20	26	18	1					
North Carolina.....	5	53	.264					45	8										
Pennsylvania.....	5	48	.426						3	13	13	12	5	2					
Rhode Island.....	9	156	.446						2	7	46	37	26	27	11				
South Carolina.....	4	38	.301					3	15	11	3	2	4						
Total.....	59	800	.405					3	89	160	110	141	139	136	22				
Washer tenders, male:																			
Connecticut.....	4	23	.480								17	8	6	1	1				
Massachusetts.....	7	116	.356					11	46	20	36	3							
New Jersey.....	12	559	.492						9	16	13	294	218	8	1				
New York.....	9	45	.444						2	10	14	8	11						
North Carolina.....	9	30	.287							1	4								
Pennsylvania.....	5	15	.467					1	18	10									
Rhode Island.....	10	87	.422								1	4	5	3	1				
South Carolina.....	3	46	.304						6	10	20	9							
Total.....	60	931	.447					7	39	108	67	120	336	247	10	2			
Yarn winders, male:																			
Massachusetts.....	1	(1)	(1)										(1)						
North Carolina.....	8	66	.284					29	15	12	4	2	4						
Total.....	9	68	.290					29	15	12	4	2	6						
Yarn winders, female:																			
New Jersey.....	1	(1)	(1)					(1)	(1)	(1)	(1)								
North Carolina.....	8	87	.351					48	72	39	30	48	15	12	14	2			
Pennsylvania.....	4	89	.349					1	1	4	6	71	3	1	2				
Total.....	13	385	.350					1	6	7	49	79	46	105	46	16	14	14	2

¹ Data included in total.

TABLE C.—Average and classified full-time hours per week in 12 specified occupations, 1930, by sex and State

Occupation, sex, and State	Number of establishments	Number of employees	Average full-time hours in week	Number of employees whose full-time hours in week were—										
				Under 48	48	Over 48, under 50	50	Over 50, under 54	54	55	Over 55, under 60	60	Over 60	
Calender tenders, male:														
Connecticut.....	3	35	53.5				4		31					
Massachusetts.....	8	105	48.9		92					13				
New Jersey.....	15	108	49.6	6	41	1	40	17		2			1	
New York.....	9	61	48.9	5	31	13	6	4					2	
North Carolina.....	16	39	54.5				4			35				
Pennsylvania.....	7	19	53.3		1		1	11	3		2			1
Rhode Island.....	10	123	53.0	7	29				67		17		13	
South Carolina.....	4	47	55.0							47				
Total.....	72	537	51.4	19	193	14	56	32	91	114	2	16	1	
Dryer tenders, male:														
Connecticut.....	5	33	53.2				7		24	2				
Massachusetts.....	7	153	48.4		151								2	
New Jersey.....	15	317	51.6	4	191	6	25	8		15			44	24
New York.....	8	68	48.5	8	31	19		8					2	
North Carolina.....	23	45	55.1				1			42			2	
Pennsylvania.....	10	48	53.0	4	3		6	12	3	10	7	3		
Rhode Island.....	10	110	52.2	11	26				62	7			4	
South Carolina.....	4	27	55.0							27				
Total.....	82	804	51.2	27	402	25	39	28	89	168	7	55	24	
Dryer tenders, female:														
New Jersey.....	2	32	48.0		32									
New York.....	1	(¹)	(¹)			(¹)								
Total.....	3	47	48.5		32	15								
Dyeing-machine tenders, male:														
Connecticut.....	4	35	52.5				14		16	5				
Massachusetts.....	5	157	48.7		142					15				
New Jersey.....	16	819	48.9	5	678	11	43	40		8			34	
New York.....	8	56	48.7	8	8	24	5	1						
North Carolina.....	36	169	55.1				4			157			8	
Pennsylvania.....	11	172	53.1	7	34		7	16	24	62	11	11		
Rhode Island.....	10	166	52.4	12	49				84	5			16	
South Carolina.....	3	44	55.0							44				
Total.....	96	1,619	50.8	32	911	45	73	57	124	296	11	69		
Folders, male:														
Connecticut.....	3	14	52.9				4		9	1				
Massachusetts.....	8	125	49.0		107					18				
New Jersey.....	6	53	50.4		18	4	10	15		6				
New York.....	3	53	48.5	5	27	7	11	3						
North Carolina.....	12	47	54.8				3			43			1	
Pennsylvania.....	7	38	52.8				2	29	4	1	2			
Rhode Island.....	9	96	52.3	7	22				48	19				
South Carolina.....	4	30	55.0							30				
Total.....	57	466	51.3	12	174	11	30	47	61	118	2	1		
Folders, female:														
Massachusetts.....	5	53	48.0		53									
New Jersey.....	12	139	48.5	4	110		15	9						
New York.....	1	(¹)	(¹)		(¹)									
North Carolina.....	4	24	55.0							24				
Pennsylvania.....	2	4	53.0				1		3					
Rhode Island.....	3	16	51.4		7				9					
South Carolina.....	2	5	55.0							5				
Total.....	29	247	49.4	4	176		17	9	12	29				

¹Data included in total.

TABLE C.—Average and classified full-time hours per week in 12 specified occupations 1930, by sex and State—Continued

Occupation, sex, and State	Number of establishments	Number of employ-ees	Average full-time hours in week	Number of employees whose full-time hours in week were—									
				Under 48	48	Over 48, under 50	50	Over 50, under 54	54	55	Over 55, under 60	Over 60	
Inspectors, male:													
Connecticut.....	2	12	54.2						10	2			
Massachusetts.....	6	79	48.1		78					1			
New Jersey.....	7	165	49.3		143		4	1					17
New York.....	7	12	48.8		8	1	1	2					
North Carolina.....	8	32	55.0							32			
Pennsylvania.....	7	13	52.3	1		2	6	2		1	1		
Rhode Island.....	7	25	51.1	4	8					2	2		
South Carolina.....	2	7	55.0						11	7			
Total.....	46	345	50.1	5	237	1	7	9	23	45	1	17	
Inspectors, female:													
Connecticut.....	1	(1)	(1)						(1)				
Massachusetts.....	5	53	46.0		53								
New Jersey.....	4	60	48.0		50		1						
New York.....	1	(1)	(1)		(1)								
North Carolina.....	11	128	55.2							122			6
Pennsylvania.....	2	6	53.1			1				5			
Rhode Island.....	4	11	54.0						11				
Total.....	28	269	51.8		122	1	1		17	122		6	
Mangle tenders, male:													
Connecticut.....	3	21	53.2				4		17				
Massachusetts.....	6	53	48.5		49					4			
New Jersey.....	11	100	50.7	5	36	3	30	6		3			14
New York.....	7	64	48.3	10	23	25							
North Carolina.....	9	36	54.7				2			34			
Pennsylvania.....	7	14	52.6	1			6	4		2			
Rhode Island.....	10	73	51.4	11	25				28	5			4
South Carolina.....	6	46	55.0							46			
Total.....	57	407	51.2	30	133	28	37	18	49	94		18	
Mangle tenders, female:													
New Jersey.....	1	(1)	(1)					(1)					
New York.....	1	(1)	(1)			(1)							
Pennsylvania.....	1	(1)	(1)						(1)				
Total.....	3	11	50.4			8		2	1				
Printing-machine tenders, male:													
Connecticut.....	3	16	53.8				1		15				
Massachusetts.....	6	129	51.2		70				38	14			7
New Jersey.....	6	61	49.7		46	9				6			
New York.....	3	17	49.1	3		14							
North Carolina.....	1	(1)	(1)							(1)			
Pennsylvania.....	3	21	54.6				1	16					4
Rhode Island.....	6	57	53.3		11				42				4
South Carolina.....	1	(1)	(1)							(1)			
Total.....	28	313	51.5	3	127	28	2	16	95	32		11	4
Sewers, male:													
Connecticut.....	3	8	54.2						4	1			
Massachusetts.....	5	63	48.5		50					3			1
New Jersey.....	9	19	42.1		12	1	4	1		1			
New York.....	3	4	40.8		1		2	1					
North Carolina.....	3	17	56.6							15			2
Pennsylvania.....	3	5	53.3					3	1				1
Rhode Island.....	2	26	54.0	1	3				23	6			3
Total.....	30	149	51.2	1	75	1	6	5	28	26		6	1

¹ Data included in total.

Hygiene, Accidents and Hygiene.

- No. 110. Lead poisoning in potteries, tile works, and porcelain enameled sanitary ware factories. [1912.]
- No. 120. Hygiene of painters' trade. [1913.]
- *No. 127. Dangers to workers from dusts and fumes, and methods of protection. [1913.]
- *No. 141. Lead poisoning in the smelting and refining of lead. [1914.]
- *No. 157. Industrial accident statistics. [1915.]
- *No. 165. Lead poisoning in the manufacture of storage batteries. [1914.]
- *No. 179. Industrial poisons used in the rubber industry. [1915.]
- No. 188. Report of British departmental committee on the danger in the use of lead in the painting of buildings. [1916.]
- *No. 201. Report of the committee on statistics and compensation insurance costs of the International Association of Industrial Accident Boards and Commissions. [1916.]
- *No. 208. Hygiene of the printing trades. [1917.]
- *No. 219. Industrial poisons used or produced in the manufacture of explosives. [1917.]
- No. 221. Hours, fatigue, and health in British munition factories. [1917.]
- No. 230. Industrial efficiency and fatigue in British munition factories. [1917.]
- *No. 231. Mortality from respiratory diseases in dusty trades (Inorganic dusts). [1918.]
- *No. 234. The safety movement in the iron and steel industry, 1907 to 1917.
- No. 236. Effects of the air hammer on the hands of stonemasons. [1918.]
- No. 249. Industrial health and efficiency. Final report of British Health of Munition Workers' Committee. [1919.]
- *No. 251. Preventable death in the cotton-manufacturing industry. [1919.]
- No. 258. Accidents and accident prevention in machine building. [1919.]
- No. 267. Anthrax as an occupational disease. [1920.]
- No. 278. Standardization of industrial accident statistics. [1920.]
- *No. 280. Industrial poisoning in making coal-tar dyes and dye intermediates. [1921.]
- *No. 291. Carbon monoxide poisoning. [1921.]
- No. 293. The problem of dust phthisis in the granite-stone industry. [1922.]
- No. 298. Causes and prevention of accidents in the iron and steel industry, 1910-1919.
- No. 308. Occupation hazards and diagnostic signs: A guide to impairments to be looked for in hazardous occupations. [1922.]
- No. 392. Survey of hygienic conditions in the printing trades. [1925.]
- No. 405. Phosphorus necrosis in the manufacture of fireworks and in the preparation of phosphorus. [1926.]
- No. 427. Health survey of the printing trades, 1922 to 1925.
- No. 428. Proceedings of the Industrial Accident Prevention Conference, held at Washington, D. C., July 14-16, 1926.
- No. 460. A new test for industrial lead poisoning. [1928.]
- No. 466. Settlement for accidents to American seamen. [1928.]
- No. 488. Deaths from lead poisoning, 1925-1927.
- No. 490. Statistics of industrial accidents in the United States to the end of 1927.
- No. 507. Causes of death, by occupation. [1929.]

Industrial Relations and Labor Conditions.

- No. 237. Industrial unrest in Great Britain. [1917.]
- No. 340. Chinese migrations, with special reference to labor conditions. [1923.]
- No. 349. Industrial relations in the West Coast lumber industry. [1923.]
- No. 361. Labor relations in the Fairmont (W. Va.) bituminous-coal field. [1924.]
- No. 380. Postwar labor conditions in Germany. [1925.]
- No. 383. Works council movement in Germany. [1925.]
- No. 384. Labor conditions in the shoe industry in Massachusetts, 1920-1924.
- No. 399. Labor relations in the lace and lace-curtain industries in the United States. [1925.]
- No. 384. Labor conditions in the Territory of Hawaii, 1929-1930.

Labor Laws of the United States (including decisions of courts relating to labor).

- No. 211. Labor laws and their administration in the Pacific States. [1917.]
- No. 229. Wage-payment legislation in the United States. [1917.]
- No. 285. Minimum wage laws of the United States: Construction and operation. [1921.]
- No. 321. Labor laws that have been declared unconstitutional. [1922.]
- No. 322. Kansas Court of Industrial Relations. [1923.]
- No. 343. Laws providing for bureaus of labor statistics, etc. [1923.]
- No. 370. Labor laws of the United States, with decisions of courts relating thereto. [1925.]
- No. 408. Laws relating to payment of wages. [1926.]
- No. 517. Decisions of courts and opinions affecting labor, 1927-1928.
- No. 623. Labor legislation, 1929.

Proceedings of Annual Conventions of the Association of Governmental Officials in Industry of the United States and Canada. (Name changed in 1928 from Association of Governmental Labor Officials of the United States and Canada.)

- *No. 266. Seventh, Seattle, Wash., July 12-15, 1920.
- No. 307. Eighth, New Orleans, La., May 2-6, 1921.
- *No. 323. Ninth, Harrisburg, Pa., May 22-26, 1922.
- *No. 352. Tenth, Richmond, Va., May 1-4, 1923.
- *No. 389. Eleventh, Chicago, Ill., May 19-23, 1924.
- *No. 411. Twelfth, Salt Lake City, Utah, August 13-16, 1925.
- *No. 429. Thirteenth, Columbus, Ohio, June 7-10, 1926.
- *No. 466. Fourteenth, Paterson, N. J., May 31 to June 3, 1927.
- *No. 480. Fifteenth, New Orleans, La., May 21-24, 1928.
- No. 508. Sixteenth, Toronto, Canada, June 4-7, 1929.
- No. 530. Seventeenth, Louisville, Ky., May 20-23, 1930.

Proceedings of Annual Meetings of the International Association of Industrial Accident Boards and Commissions.

- No. 210. Third, Columbus, Ohio, April 25-28, 1916.
- No. 248. Fourth, Boston, Mass., August 30-25, 1917.
- No. 264. Fifth, Madison, Wis., September 24-27, 1918.
- *No. 273. Sixth, Toronto, Canada, September 23-26, 1919.
- No. 281. Seventh, San Francisco, Calif., September 30-24, 1920.
- No. 304. Eighth, Chicago, Ill., September 19-23, 1921.
- No. 333. Ninth, Baltimore, Md., October 9-13, 1922.
- *No. 359. Tenth, St. Paul, Minn., September 24-26, 1923.
- No. 385. Eleventh, Halifax, Nova Scotia, August 26-28, 1924.
- No. 396. Index to proceedings, 1914-1924.
- No. 406. Twelfth, Salt Lake City, Utah, August 17-20, 1925.
- No. 432. Thirteenth, Hartford, Conn., September 14-17, 1926.
- *No. 466. Fourteenth, Atlanta, Ga., September 27-29, 1927.
- No. 485. Fifteenth, Paterson, N. J., September 11-14, 1928.
- No. 511. Sixteenth, Buffalo, N. Y., October 8-11, 1929.
- No. 536. Seventeenth, Wilmington, Del., September 22-26, 1930. (In press.)

Proceedings of Annual Meetings of the International Association of Public Employment Services.

- No. 192. First, Chicago, December 19 and 20, 1913; second, Indianapolis, September 24 and 25, 1914; third, Detroit, July 1 and 2, 1915.
- *No. 220. Fourth, Buffalo, N. Y., July 20 and 21, 1916.
- No. 311. Ninth, Buffalo, N. Y., September 7-9, 1921.
- No. 337. Tenth, Washington, D. C., September 11-13, 1922.
- No. 356. Eleventh, Toronto, Canada, September, 4-7 1923.
- No. 400. Twelfth, Chicago, Ill., May 19-23, 1924.
- No. 414. Thirteenth, Rochester, N. Y., September 15-17, 1925.
- No. 478. Fifteenth, Detroit, Mich., October 26-28, 1927.
- No. 501. Sixteenth, Cleveland, Ohio, September 18-21, 1928.

Productivity of Labor.

- No. 358. Productivity costs in the common brick industry. [1924.]
- No. 360. Time and labor costs in manufacturing 100 pairs of shoes, 1923.
- No. 407. Labor cost of production and wages and hours of labor in the paper box-board industry. [1926.]
- *No. 412. Wages, hours, and productivity in the pottery industry, 1925.
- No. 441. Productivity of labor in the glass industry. [1927.]
- No. 474. Productivity of labor in merchant blast furnaces. [1928.]
- No. 475. Productivity of labor in newspaper printing. [1929.]

Retail Prices and Cost of Living.

- *No. 121. Sugar prices, from refiner to consumer. [1913.]
- *No. 120. Wheat and flour prices, from farmer to consumer. [1913.]
- *No. 164. Butter prices, from producer to consumer. [1914.]
- No. 170. Foreign food prices as affected by the war. [1915.]
- No. 367. Cost of living in the United States. [1924.]
- No. 369. The use of cost of living figures in wage adjustments. [1925.]
- No. 466. Retail prices, 1890 to 1926.

Safety Codes.

- *No. 331. Code of lighting: Factories, mills, and other work places.
- No. 336. Safety code for the protection of industrial workers in foundries.
- No. 350. Rules for governing the approval of headlighting devices for motor vehicles.
- *No. 351. Safety code for the construction, care, and use of ladders.
- No. 373. Safety code for laundry machinery and operations.
- No. 382. Code of lighting school buildings.
- No. 410. Safety code for paper and pulp mills.