

UNITED STATES DEPARTMENT OF LABOR

W. R. DOAK, Secretary

BUREAU OF LABOR STATISTICS

ETHELBERT STEWART, Commissioner

BULLETIN OF THE UNITED STATES
BUREAU OF LABOR STATISTICS

No. 533

WAGES AND HOURS OF LABOR SERIES

**WAGES AND HOURS OF LABOR
IN WOOLEN AND WORSTED
GOODS MANUFACTURING
1910 TO 1930**



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BULLETIN OF THE U. S. BUREAU OF LABOR STATISTICS

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WASHINGTON

FEBRUARY, 1931

WAGES AND HOURS OF LABOR IN WOOLEN AND WORSTED GOODS MANUFACTURING, 1910 TO 1930

INTRODUCTION AND SUMMARY

In 1930 the Bureau of Labor Statistics made a study of wages and hours of labor, by occupations, of the employees in woolen and worsted goods manufacturing in the United States. The data covering hours and earnings were collected by agents of the bureau from the records of 105 representative mills in 15 States for each of 21,591 males and 19,809 females, or a total of 41,400 wage earners. Based on the 1927 Census of Manufactures this number represents 27 per cent of the total in the industry in the United States.

The bureau also made studies of the industry in each of the years from 1910 to 1914 and in each of the even years from 1914 to 1928. Summaries for each year of average full-time hours and earnings per week and average earnings per hour are presented in Table 1 for the industry, and also for each of the occupations in the industry for which data were collected. Index numbers are also given with the 1913 average taken as the base or 100.

This industry, like others in the South, especially those engaged in the manufacture of textiles, has grown in recent years to such an extent that it seemed advisable to include southern mills in the 1930 report. Wage figures were, therefore, obtained from 12 mills in Georgia, Kentucky, Maryland, South Carolina, Tennessee, and Virginia. Two sets of averages are therefore shown in Table 1 for 1930—one for all mills except the 12 southern mills that were *not* included in any of the years prior to 1930; and the other for all mills, including those in the South.

AVERAGE HOURS AND EARNINGS, 1910 TO 1930

In 1930 the full-time hours per week of the 38,417 employees in the 93 mills were 49.3 as in 1928. They earned an average of 47.3 cents per hour or 4.1 cents less than in 1928, and their average full-time earnings per week were \$23.32 or \$2.02 less than in 1928. The average full-time hours per week for the 12 southern mills and the 93 mills combined were 49.6; the employees earned an average of 46 cents per hour, with average full-time earnings per week of \$22.82.

The averages for the years 1910 to 1914 are for employees in *selected* occupations only and are therefore comparable one year with another. Those for the even years from 1914 to 1930 are for employees in *all occupations* in the industry and are also comparable one year with

another for each of these years. Averages for *selected* occupations, however, should not be compared with those for *all* occupations.

The index numbers are for the purpose of furnishing comparable figures one year with another over the entire period from 1910 to 1930. The index for any year from 1910 to 1914 for selected occupations is the per cent that the average for the year is of the 1913 average. The index for any year from 1914 to 1930 for all occupations was computed by increasing or decreasing the 1914 index for selected occupations in proportion to the increase or decrease in the average for each year as compared with the 1914 averages for all occupations.

Average full-time hours of males in 1930 ranged, by occupations, from 48.5 per week for frame spinners to 53.9 for hand drawers-in while those of females ranged from 48 for card tenders to 53 for dresser tenders. Average earnings per hour of males ranged from 23.7 cents for doffers to 78.7 cents for hand drawers-in, and of females from 26.9 cents for doffers to 54.4 cents for weavers. Average full-time earnings per week of males ranged from \$12.25 for doffers to \$42.42 for hand drawers-in, and of females from \$13.37 for doffers to \$26.98 for weavers.

The wage figures for the 12 southern mills were included with figures for all other mills covered in 1930 in computing the averages quoted above.

Except for a very few mills, the 1930 average hours and earnings were computed from the individual hours and earnings in a representative pay-roll period in January, February, or March and therefore are representative of conditions in those months.

TABLE 1.—Average hours and earnings with index numbers, 1910 to 1930, by occupation, sex, and year

Occupation and sex	Year	Number of establishments	Number of employees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week	Index numbers of—		
							Full-time hours per week	Earnings per hour	Full-time earnings per week
Selected occupations.....	1910	19	11,919	50.0	\$9.178	\$10.00	101.3	99.4	91.9
	1911	27	18,342	50.9	.179	10.18	101.0	99.9	92.4
	1912	46	17,517	50.9	.281	11.23	100.0	102.0	101.0
	1913	47	18,653	53.9	.197	11.02	100.0	100.0	100.0
	1914	48	18,328	54.9	.202	11.00	99.7	102.5	100.0
All occupations.....	1914	48	40,001	55.0	.192	10.00			
	1916	81	49,954	54.3	.225	12.34	97.9	129.7	123.5
	1919	63	51,929	54.3	.247	13.57	97.9	192.5	146.9
	1920	67	38,164	48.3	.629	30.33	86.3	363.7	302.0
	1922	67	30,430	46.8	.474	23.13	87.1	287.9	221.5
	1924	72	41,872	49.1	.523	26.17	87.7	309.3	262.0
	1926	112	30,970	49.3	.491	24.21	89.0	274.5	247.3
	1928	92	34,450	49.3	.516	25.34	89.0	290.3	253.7
	1930	93	30,417	49.3	.473	23.32	86.0	266.4	233.4
	1930	105	41,600	49.6	.460	22.93			

¹ Two sets of averages are shown for 1914 for the industry; one for selected occupations and the other for all occupations in the industry. The 1910 to 1914 averages for selected occupations only are comparable one year with another, as are those for all occupations one year with another from 1914 to 1930.

² Not including the southern mills.

³ Including the southern mills.

TABLE 1.—Average hours and earnings with index numbers, 1910 to 1930, by occupation, sex, and year—Continued

BY OCCUPATIONS

Occupation and sex	Year	Number of establishments	Number of employes	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week	Index numbers of—		
							Full-time hours per week	Earnings per hour	Full-time earnings per week
Wool sorters:									
Male	1910	18	289	56.3	\$0.247	\$13.86	102.4	87.9	89.8
	1911	19	444	56.4	.241	13.54	102.5	85.8	87.8
	1912	19	471	55.2	.267	14.72	100.4	95.0	95.4
	1913	19	246	55.0	.281	15.43	100.0	100.0	100.0
	1914	15	391	54.2	.276	14.07	98.5	98.2	97.0
	1916	17	412	54.1	.329	17.80	98.4	117.1	115.4
	1918	20	538	54.4	.460	24.94	98.9	163.7	161.6
	1920	22	423	48.1	.871	41.90	87.6	310.0	271.5
	1922	17	358	48.4	.710	34.36	88.0	252.7	222.7
	1924	19	389	49.5	.776	38.41	90.0	276.2	242.9
	1926	30	445	50.8	.718	36.22	92.4	253.7	234.7
	1928	22	392	49.9	.728	36.33	89.7	259.1	235.5
	* 1930	28	502	49.3	.743	36.63	89.6	264.4	237.4
	* 1930	29	503	49.3	.742	36.58			
Female	1920	1	28	48.0	.901	43.25			
	1922	3	87	48.0	.702	33.70			
	1924	5	65	48.2	.608	29.31			
	1926	2	37	48.0	.698	33.50			
	1928	2	27	48.3	.666	27.29			
	* 1930	2	49	48.0	.641	30.77			
	* 1930	3	63	49.3	.607	28.00			
Wool-washer tenders:									
Male	1920	20	113	48.8	.583	28.45			
	1922	23	93	49.2	.446	21.94			
	1924	20	119	49.3	.513	25.29			
	1926	33	122	50.2	.463	23.24			
	1928	25	105	50.6	.484	24.49			
	* 1930	28	148	50.6	.465	23.63			
	* 1930	30	151	50.6	.462	23.38			
Picker tenders:									
Male	1920	41	277	48.3	.530	25.60			
	1922	43	276	49.3	.428	21.10			
	1924	45	273	49.3	.471	23.22			
	1926	56	245	49.7	.438	21.77			
	1928	56	306	49.5	.467	22.62			
	* 1930	55	298	49.7	.441	21.92			
	* 1930	64	368	49.9	.409	20.41			
Card tenders:									
Male	1910	26	201	56.9	.127	7.25	101.1	89.4	90.5
	1911	40	320	57.1	.136	7.73	101.4	95.8	96.5
	1912	40	412	56.4	.136	7.64	100.2	95.1	95.4
	1913	40	329	56.3	.142	8.01	100.0	100.0	100.0
	1914	41	378	56.1	.147	8.26	99.6	103.5	103.1
	1916	47	533	55.8	.186	10.38	99.1	131.0	129.6
	1918	47	599	54.8	.287	15.75	97.3	202.1	196.6
	1920	43	444	48.4	.517	25.02	86.0	364.1	312.4
	1922	46	514	49.5	.405	20.05	87.9	285.2	250.5
	1924	47	528	49.4	.473	23.37	87.7	333.1	291.8
	1926	70	631	49.8	.419	20.87	88.6	295.1	260.5
	1928	62	550	50.3	.447	22.48	89.3	314.8	280.6
	* 1930	66	578	50.5	.425	21.46	89.7	299.3	267.9
	* 1930	76	652	50.8	.409	20.78			
Female	1920	11	103	48.3	.487	21.11			
	1922	10	100	48.2	.351	16.92			
	1924	12	94	48.0	.409	19.63			
	1926	19	166	48.1	.365	17.78			
	1928	15	136	48.1	.383	18.42			
	* 1930	9	108	48.0	.374	17.99			
Card strippers:									
Male	1910	27	162	57.0	.153	8.69	100.9	91.1	91.9
	1911	42	223	57.1	.151	8.62	101.1	89.9	91.1
	1912	42	240	56.9	.163	9.29	100.7	97.0	98.2
	1913	42	236	56.5	.168	9.46	100.0	100.0	100.0
	1914	43	250	55.7	.169	9.44	98.6	100.6	99.6
	1916	48	303	55.5	.209	11.61	98.2	124.4	122.7
	1918	48	359	54.8	.324	17.77	97.0	192.9	187.8

*Not including the southern mills.

*Including the southern mills.

TABLE 1.—Average hours and earnings with index numbers, 1910 to 1930, by occupation, sex, and year—Continued

BY OCCUPATIONS—Continued

Occupation and sex	Year	Number of establishments	Number of employees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week	Index numbers of—		
							Full-time hours per week	Earnings per hour	Full-time earnings per week
Card strippers—Continued.									
Male.....	1920	45	292	48.2	\$0.570	\$27.47	85.9	236.2	290.4
	1923	46	311	49.5	.433	21.42	87.4	257.7	228.5
	1924	49	398	50.0	.508	25.50	89.6	301.2	270.6
	1925	73	361	49.5	.464	22.97	87.2	278.2	242.8
	1928	65	351	48.7	.475	23.61	88.9	282.7	246.6
	1930	65	317	49.2	.497	22.98	87.1	278.9	242.9
	1930	74	332	48.5	.452	22.27			
Card grinders:									
Male.....	1922	12	28	47.4	.491	22.78			
	1924	15	37	48.8	.602	30.38			
	1926	18	30	50.9	.517	26.64			
	1928	17	42	49.2	.529	26.08			
	1930	9	29	48.0	.512	24.56			
	1930	12	24	48.7	.488	23.81			
Gift-box tenders:									
Male.....	1920	8	130	48.8	.502	23.00			
	1922	8	268	48.3	.363	17.53			
	1924	8	343	49.9	.418	21.91			
	1926	12	209	50.1	.405	20.29			
	1928	7	262	53.2	.392	20.85			
	1930	10	451	50.9	.391	19.86			
Female.....	1920	15	292	48.4	.442	21.39			
	1922	15	413	49.1	.379	18.64			
	1924	14	435	49.4	.397	18.87			
	1926	21	296	51.0	.328	16.83			
	1928	20	393	50.2	.397	19.21			
	1930	24	495	50.0	.334	16.70			
	1930	28	525	50.2	.326	16.37			
Comber tenders:									
Male.....	1910	8	109	50.8	.129	7.97	102.1	99.1	92.5
	1911	9	189	50.5	.141	7.94	102.1	99.4	93.2
	1912	9	161	55.1	.156	8.58	100.5	100.0	100.0
	1913	9	115	54.8	.158	8.51	100.9	100.9	100.9
	1914	8	226	55.8	.161	9.00	101.8	101.2	102.8
	1916	8	274	56.2	.190	11.18	102.7	127.6	131.0
	1918	9	248	55.8	.214	17.49	101.8	201.2	202.4
	1920	10	162	48.9	.522	26.90	95.2	352.8	317.2
	1922	11	209	48.1	.425	20.92	87.8	278.9	245.4
	1924	7	212	49.6	.522	25.90	90.5	334.6	304.2
	1926	10	171	50.5	.478	24.14	92.2	296.4	283.7
	1928	9	222	51.4	.494	24.88	93.8	310.2	292.4
	1930	14	294	50.4	.469	22.64	92.6	290.6	277.8
Female.....	1910	6	129	55.5	.111	6.12	99.9	94.9	91.2
	1911	7	130	55.6	.109	6.10	99.5	92.2	92.0
	1912	7	150	56.9	.116	6.47	99.5	92.1	94.5
	1913	7	163	56.1	.117	6.37	100.8	100.0	100.0
	1914	8	182	54.8	.119	6.52	97.7	101.7	96.2
	1916	10	178	53.5	.177	9.46	98.4	151.2	144.0
	1918	12	328	52.8	.255	12.59	94.1	239.6	208.8
	1920	12	155	48.7	.479	22.28	88.8	408.6	354.2
	1922	10	100	49.7	.385	19.12	88.6	229.1	201.2
	1924	10	114	49.2	.418	20.57	87.7	237.2	212.1
	1926	17	163	49.2	.378	18.98	88.9	222.1	207.1
	1928	17	150	50.2	.458	22.94	89.7	246.7	249.2
	1930	17	133	49.7	.392	19.04	88.6	227.4	203.8
	1930	18	120	46.9	.375	18.71			
Drawing-frame tenders:									
Male.....	1916	6	211	55.9	.178	9.90			
	1918	6	192	54.1	.204	14.41			
	1920	6	61	45.9	.501	24.07			
	1922	8	196	48.1	.378	18.18			
	1924	8	267	49.2	.429	21.60			
	1926	9	271	48.8	.390	18.54			
	1928	6	90	48.2	.398	18.61			
	1930	8	204	50.4	.383	19.61			
	1930	9	206	50.5	.369	19.79			

¹Not including the southern mills.

²Including the southern mills.

TABLE 1.—Average hours and earnings with index numbers, 1910 to 1930, by occupation, sex, and year—Continued

BY OCCUPATIONS—Continued

Occupation and sex	Year	Number of establishments	Number of employees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week	Index numbers of—		
							Full-time hours per week	Earnings per hour	Full-time earnings per week
Drawing-frame tenders—Contd.									
<i>Female</i>									
	1916	14	1,603	53.7	\$0.170	\$9.15			
	1918	15	1,760	52.9	.250	13.24			
	1920	16	1,753	48.3	.445	21.49			
	1922	17	1,615	48.5	.349	16.93			
	1924	15	1,885	48.9	.397	19.41			
	1926	26	1,753	49.7	.352	17.49			
	1928	25	1,765	49.4	.356	17.50			
	1930	28	1,973	49.3	.359	17.70			
	1930	29	1,983	49.4	.358	17.69			
Spinners, mule:									
<i>Male</i>									
	1910	26	529	57.0	.224	12.75	100.0	93.7	94.3
	1911	40	638	57.3	.224	12.81	101.4	93.7	95.2
	1912	40	719	56.5	.240	13.56	100.0	100.4	100.3
	1913	42	823	56.5	.239	13.45	100.0	100.0	100.0
	1914	42	897	56.0	.249	13.88	99.1	104.2	103.2
	1916	46	1,222	55.3	.316	17.51	97.9	132.2	130.2
	1918	46	1,431	54.9	.499	27.42	97.2	208.6	203.9
	1920	45	980	48.2	.815	39.33	85.3	341.4	292.4
	1922	44	1,119	49.2	.670	32.96	87.1	280.3	245.1
	1924	47	1,390	48.9	.755	36.93	86.5	315.9	274.5
	1926	69	1,249	49.7	.695	34.54	88.0	290.8	256.8
	1928	61	1,106	49.5	.684	33.86	87.6	286.2	251.7
	1930	62	1,078	49.5	.659	32.62	87.6	275.7	242.5
	1930	71	1,223	50.0	.620	31.00			
	1930	2	9	52.6	.359	18.88			
<i>Female</i>									
Spinners, frame:									
<i>Male</i>									
	1910	2	114	56.0	.125	7.01	103.7	91.9	95.6
	1911	3	194	56.0	.132	7.37	103.7	97.1	100.5
	1912	3	244	54.0	.158	8.53	100.0	116.2	116.4
	1913	3	115	54.0	.136	7.33	100.0	100.0	100.0
	1914	3	282	53.9	.145	7.80	99.8	106.6	106.4
	1916	3	266	53.9	.191	10.30	99.8	140.4	140.5
	1918	5	161	53.0	.316	16.74	98.1	232.4	228.4
	1920	4	49	48.0	.556	26.78	88.9	410.3	365.3
	1922	4	45	48.0	.357	17.14	88.9	262.5	233.8
	1924	3	46	50.0	.421	21.05	92.6	309.6	287.2
	1930	3	53	48.0	.403	19.34	88.9	296.3	263.8
	1930	4	73	48.5	.365	17.70			
	1930	8	578	56.0	.122	6.85	100.0	87.1	88.0
	1911	10	1,002	56.4	.126	7.07	101.6	90.0	90.9
	1912	10	1,070	55.2	.144	7.92	99.5	102.9	101.8
	1913	10	751	55.5	.140	7.78	100.0	100.0	100.0
	1914	9	970	54.2	.147	7.99	97.7	105.0	102.7
	1916	14	1,302	53.9	.180	9.68	97.1	128.6	124.4
	1918	15	1,330	52.4	.278	14.62	94.4	198.5	187.9
	1920	14	1,026	48.2	.481	23.18	86.8	343.6	297.9
	1922	15	872	48.4	.345	16.70	87.2	246.4	214.7
	1924	14	1,106	48.9	.417	20.39	88.1	297.9	262.1
	1926	23	1,228	49.8	.362	18.03	89.7	258.5	231.7
	1928	22	1,281	49.7	.383	19.04	89.5	273.6	244.7
	1930	29	1,227	49.1	.387	19.00	88.5	276.4	244.2
	1930	34	1,301	49.4	.380	18.77			
Doffers:									
<i>Male</i>									
	1916	5	255	49.8	.161	8.05			
	1918	5	138	50.5	.266	13.58			
	1920	6	108	46.3	.497	23.01			
	1922	6	165	47.0	.299	14.05			
	1924	7	214	49.9	.301	15.02			
	1926	6	47	48.2	.288	13.88			
	1928	9	73	50.3	.303	15.24			
	1930	1	8	46.8	.333	16.25			
	1930	4	31	51.7	.237	12.25			

¹Not including the southern mills.

²Including the southern mills.

³Southern mills only.

TABLE 1.—Average hours and earnings with index numbers, 1910 to 1930, by occupation, sex, and year—Continued.

BY OCCUPATIONS—Continued

Occupation and sex	Year	Number of establishments	Number of employees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week	Index numbers of—		
							Full-time hours per week	Earnings per hour	Full-time earnings per week
Doffers—Continued.									
Female.....	1916	12	770	52.2	80.135	\$7.06			
	1918	12	829	48.6	.203	9.85			
	1920	14	561	46.7	.852	16.44			
	1922	14	619	48.1	.275	13.28			
	1924	10	566	48.1	.315	15.15			
	1926	22	701	49.9	.290	13.97			
	1928	20	588	50.3	.284	14.29			
	1930	22	668	49.5	.274	13.56			
	1930	24	668	49.7	.280	13.37			
Winders:									
Male.....	1930	10	22	51.3	.344	17.55			
	1930	13	26	52.3	.322	16.64			
Female.....	1930	57	2,072	48.9	.393	18.73			
	1930	63	2,115	49.0	.379	18.57			
Twister tenders:									
Male.....	1930	12	37	53.0	.426	22.58			
Female.....	1910	10	332	56.9	.126	7.16	102.7	98.8	95.6
	1911	12	600	56.7	.131	7.40	102.3	97.0	94.7
	1912	12	751	56.7	.137	7.62	100.5	101.5	101.6
	1913	12	598	55.4	.135	7.50	100.0	100.0	100.0
	1914	11	584	54.3	.144	7.81	98.0	106.7	104.1
	1916	23	1,028	54.2	.174	9.43	97.8	129.9	125.7
	1918	24	892	53.9	.265	13.60	97.3	189.5	184.0
	1920	34	1,043	48.3	.457	22.07	87.2	338.5	294.3
	1922	40	892	49.3	.362	17.35	89.0	290.7	221.3
	1924	38	914	49.3	.418	20.61	86.0	309.6	274.8
	1926	65	1,117	49.7	.304	16.09	89.7	299.6	241.2
	1928	57	1,319	50.0	.354	17.70	90.3	262.2	226.0
	1930	64	1,400	49.5	.371	18.40	89.5	274.8	245.3
	1930	69	1,467	49.3	.365	18.18			
Spooler tenders:									
Male.....	1930	2	13	51.5	.265	13.63			
Female.....	1916	55	1,571	54.1	.173	9.40			
	1918	56	1,514	53.6	.270	14.51			
	1920	55	1,474	48.2	.458	22.68			
	1922	59	1,247	48.7	.383	18.65			
	1924	64	1,226	48.6	.419	20.36			
	1926	95	1,283	49.1	.391	19.29			
	1928	82	1,407	49.0	.371	18.18			
	1930	78	1,077	48.6	.391	19.00			
	1930	87	1,147	48.9	.363	18.73			
Creelers:									
Male.....	1930	4	73	48.0	.359	17.18			
	1930	5	77	48.6	.348	16.82			
Female.....	1930	6	40	48.7	.339	16.51			
	1930	7	46	49.5	.331	16.38			
Dresser tenders:									
Male.....	1910	27	214	57.1	.242	13.40	101.4	92.0	89.2
	1911	46	337	57.1	.243	13.55	101.4	92.4	89.6
	1912	46	354	56.4	.262	14.71	100.2	96.6	90.4
	1913	46	347	56.3	.263	14.80	100.0	100.0	100.0
	1914	47	363	55.2	.273	15.03	98.0	103.8	101.6
	1916	55	422	55.0	.318	17.47	97.7	120.9	116.0
	1918	58	469	54.6	.452	24.28	97.0	171.9	154.1
	1920	63	493	48.6	.767	37.28	86.3	291.6	251.9
	1922	58	493	48.6	.633	31.87	86.7	244.2	215.3
	1924	65	467	49.2	.745	36.98	87.6	294.4	249.2
	1926	95	545	49.1	.706	34.92	87.2	298.1	232.9
	1928	79	533	49.0	.700	34.30	87.0	296.2	231.6
	1930	81	590	49.1	.686	32.80	87.2	254.0	221.6
	1930	90	621	49.3	.650	32.06			
Female.....	1930	3	10	53.0	.355	18.82			

* Not including the southern mills.

* Including the southern mills.

* Southern mills only.

WOOLEN AND WORSTED GOODS MANUFACTURING

TABLE 1.—Average hours and earnings with index numbers, 1910 to 1930, by occupation, sex, and year—Continued

BY OCCUPATIONS—Continued

Occupation and sex	Year	Number of establishments	Number of employees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week	Index numbers of—		
							Full-time hours per week	Earnings per hour	Full-time earnings per week
Tiers-in, hand:									
Male.....	1930	7	22	48.6	\$0.625	\$30.38			
	1930	8	23	48.9	.597	29.19			
Female.....	1930	8	16	49.1	.296	14.53			
	1930	4	18	48.6	.295	14.34			
Tiers-in, machine:									
Male.....	1930	8	8	49.5	.581	28.76			
Drawers-in, hand:									
Male.....	1924	10	40	51.6	.690	35.60			
	1926	22	80	50.2	.666	33.43			
	1928	6	16	51.7	.693	35.83			
	1930	4	16	53.7	.803	43.12			
	1930	5	17	53.9	.787	42.42			
Female.....	1916	52	424	54.7	.250	13.65			
	1918	55	406	54.2	.355	19.23			
	1920	63	302	48.3	.595	28.74			
	1922	60	436	48.5	.480	23.28			
	1924	62	453	49.1	.635	26.27			
	1926	84	533	48.9	.497	24.30			
	1928	86	624	48.7	.525	25.57			
	1930	78	595	49.0	.511	26.04			
	1930	89	686	48.5	.489	24.21			
Loom fixers:									
Male.....	1910	27	429	56.6	.279	15.76	101.4	98.9	95.2
	1911	46	689	56.7	.275	15.59	101.6	92.6	94.2
	1912	46	589	55.9	.308	17.13	100.2	103.7	103.5
	1913	47	581	55.8	.297	16.55	100.0	100.0	100.0
	1914	47	651	55.1	.312	17.18	98.7	105.1	103.8
	1916	60	794	54.9	.381	20.70	98.4	128.3	126.1
	1918	61	843	54.5	.532	30.04	97.7	185.9	181.5
	1920	64	736	48.3	.973	47.00	86.6	327.6	294.0
	1922	64	747	48.4	.754	36.49	86.7	253.9	220.5
	1924	68	821	49.0	.870	42.63	87.2	292.9	257.6
	1926	99	748	49.0	.807	39.54	87.8	271.7	238.9
	1928	83	692	49.0	.821	40.23	87.5	276.4	243.1
	1929	80	639	49.5	.809	40.05	88.7	272.4	242.0
	1930	91	701	49.8	.775	38.60			
Weavers:									
Male.....	1910	27	2,907	57.1	.207	11.79	101.4	89.2	90.3
	1911	46	4,049	57.1	.210	11.97	101.4	90.5	91.7
	1912	46	4,476	56.3	.237	13.30	100.0	102.2	101.8
	1913	47	3,834	56.3	.232	13.08	100.0	100.0	100.0
	1914	48	4,330	55.2	.238	13.10	98.0	102.6	100.3
	1916	61	5,431	54.9	.304	15.95	97.5	131.0	122.1
	1918	61	5,812	54.6	.470	25.62	96.8	202.6	195.4
	1920	64	4,825	48.3	.807	38.98	85.8	347.8	298.5
	1922	64	5,518	48.3	.610	29.75	85.8	265.5	227.8
	1924	68	5,725	48.8	.701	34.21	86.7	302.2	261.9
	1926	97	5,528	48.9	.652	31.68	86.9	281.0	244.1
	1928	83	4,641	48.9	.658	32.18	86.9	283.6	246.4
	1930	82	3,724	49.3	.686	31.35	87.6	274.1	240.0
	1930	93	4,187	49.8	.611	30.43			
Female.....	1910	27	2,856	56.3	.180	10.14	100.5	91.4	91.9
	1911	46	3,384	56.8	.184	10.47	101.4	93.4	94.9
	1912	46	3,586	55.9	.206	11.48	99.8	104.6	104.1
	1913	47	3,493	56.0	.197	11.03	100.0	100.0	100.0
	1914	48	3,862	54.7	.203	11.08	97.7	103.0	100.3
	1916	61	4,805	54.5	.271	14.79	97.3	137.0	133.8
	1918	61	5,295	54.1	.496	21.96	96.6	206.1	199.1
	1920	63	3,783	48.3	.747	36.08	86.3	379.2	327.1
	1922	63	3,622	48.4	.676	27.86	86.4	292.4	252.9
	1924	67	3,713	48.9	.654	31.98	87.3	332.0	289.9
	1926	89	2,743	49.2	.600	29.52	87.9	304.6	267.6
	1928	79	2,419	48.8	.605	29.52	87.1	307.1	267.6
	1930	71	1,751	49.2	.579	28.49	87.9	293.9	258.3
	1930	81	2,012	49.6	.544	26.98			

Not including the southern mills.

1 Including the southern mills.

TABLE 1.—Average hours and earnings with index numbers, 1910 to 1930, by occupation, sex, and year—Continued

BY OCCUPATIONS—Continued

Occupation and sex	Year	Number of establishments	Number of employees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week	Index numbers of—		
							Full-time hours per week	Earnings per hour	Full-time earnings per week
Cloth inspectors:									
Male	1920	10	251	48.0	\$0.768	\$36.62			
	1922	49	315	48.2	.860	27.05			
	1924	19	246	48.7	.882	28.34			
	1926	23	235	48.8	.863	27.19			
	1928	31	261	48.8	.872	27.80			
	1930	26	234	48.8	.842	26.45			
	1930	27	241	49.0	.838	26.36			
Female	1920	16	144	48.8	.804	24.24			
	1922	7	64	48.4	.873	18.95			
	1924	16	245	48.5	.484	23.42			
	1926	31	102	49.6	.421	20.85			
	1928	11	75	48.5	.428	20.78			
	1930	14	126	48.8	.388	18.74			
	1930	18	144	49.0	.364	17.84			
Burlers:									
Female	1910	26	1,024	56.5	.130	7.33	101.6	86.0	90.0
	1911	43	1,516	56.8	.130	7.36	102.2	86.0	90.4
	1912	44	1,562	55.9	.148	8.26	100.5	95.8	101.4
	1913	44	1,643	55.5	.146	8.14	100.0	100.0	100.0
	1914	44	1,756	54.5	.158	8.47	98.2	105.2	104.1
	1916	55	1,899	54.5	.185	10.09	98.2	126.7	124.0
	1918	55	1,867	54.1	.276	14.94	97.8	139.0	143.5
	1920	64	2,321	48.4	.452	21.88	87.1	309.6	304.8
	1922	61	1,773	48.2	.371	17.88	86.7	254.1	219.7
	1924	60	1,711	49.2	.420	20.66	88.5	287.7	253.8
	1926	90	1,722	49.3	.381	18.78	88.7	261.0	230.7
	1928	79	1,691	49.3	.383	18.88	88.7	262.3	231.9
	1930	81	2,075	49.0	.354	17.35	88.1	242.5	212.1
	1930	92	2,358	49.4	.339	16.75			
Menders:									
Female	1910	25	1,196	56.6	.160	9.09	102.7	87.4	89.0
	1911	44	1,623	56.8	.160	9.07	102.7	87.4	89.7
	1912	44	1,638	55.7	.189	10.50	100.7	102.2	108.0
	1913	42	1,389	55.8	.182	10.11	100.0	100.0	100.0
	1914	43	1,501	54.4	.195	10.87	98.4	108.6	104.8
	1916	53	1,767	54.2	.245	12.26	98.2	123.0	131.4
	1918	53	1,685	54.1	.249	12.91	97.8	150.7	147.0
	1920	61	1,739	48.5	.503	29.25	87.7	329.5	299.2
	1922	63	1,985	48.4	.445	21.84	87.5	242.2	215.1
	1924	64	1,850	48.5	.534	25.90	87.7	291.5	236.2
	1926	91	2,121	48.5	.607	24.64	87.9	277.0	245.7
	1928	82	2,086	48.5	.488	23.67	87.7	256.7	234.1
	1930	82	2,382	49.0	.473	23.18	88.5	258.5	220.2
	1930	89	2,511	49.3	.459	22.63			
Perchers:									
Male	1920	59	419	46.4	.687	32.25			
	1922	55	362	45.5	.520	25.27			
	1924	61	466	49.1	.601	28.51			
	1926	91	462	49.1	.559	27.45			
	1928	80	470	48.8	.567	27.67			
	1930	77	547	48.8	.549	26.79			
	1930	86	570	49.0	.539	26.41			
Female	1920	12	43	49.8	.468	22.31			
	1922	15	75	48.4	.432	20.91			
	1924	10	35	48.4	.452	21.86			
	1926	16	97	46.6	.492	23.43			
	1928	12	65	48.5	.438	21.29			
	1930	19	138	49.3	.394	19.42			
Fullers:									
Male	1920	53	195	48.5	.800	28.67			
	1922	52	248	49.1	.465	22.96			
	1924	51	227	49.0	.512	25.09			
	1926	75	228	49.4	.464	22.92			
	1928	68	259	49.0	.494	24.21			
	1930	72	251	49.3	.464	22.88			
	1930	81	270	49.5	.451	22.37			

* Not including the southern mills.

* Including the southern mills.

WOOLEN AND WORSTED GOODS MANUFACTURING

TABLE 1.—Average hours and earnings with index numbers, 1910 to 1930, by occupation, sex, and year—Continued

BY OCCUPATIONS—Continued

Occupation and sex	Year	Number of establishments	Number of employees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week	Index numbers of—		
							Full-time hours per week	Earnings per hour	Full-time earnings per week
Washer tenders, cloth:									
Male.....	1920	56	378	48.6	\$0.574	\$27.90			
	1922	59	330	49.6	.461	22.87			
	1924	60	402	49.7	.518	25.74			
	1926	85	353	49.7	.442	21.97			
	1928	73	378	50.0	.462	23.10			
	1930	72	383	49.3	.468	23.07			
	1930	82	405	49.6	.455	22.57			
Dryer tenders, cloth:									
Male.....	1920	58	276	48.4	.551	26.67			
	1922	57	219	50.3	.453	22.79			
	1924	59	267	49.8	.506	25.20			
	1926	84	222	49.9	.444	22.16			
	1928	71	230	50.1	.468	23.45			
	1930	74	217	49.8	.451	22.46			
	1930	83	237	50.2	.433	21.74			
Truckers:									
Male.....	1920	62	1,205	48.1	.605	34.29			
	1922	60	1,334	48.2	.299	19.23			
	1924	64	1,672	49.2	.451	22.19			
	1926	93	1,236	48.9	.408	19.95			
	1928	79	1,419	48.5	.417	20.22			
	1930	91	1,593	48.8	.402	19.62			
	1930	103	1,655	48.9	.396	19.36			
Female.....	1930	11	113	49.9	.292	14.57			
Dye-house laborers:									
Male.....	1910	27	837	56.3	.143	8.06	101.3	89.9	91.2
	1911	45	1,116	56.6	.145	8.22	101.8	91.2	93.0
	1912	45	1,093	55.5	.157	8.72	99.8	98.7	98.6
	1913	46	1,041	55.6	.159	8.84	100.0	100.0	100.0
	1914	47	1,427	54.9	.160	8.75	98.7	100.6	99.0
	1916	55	1,636	55.0	.197	10.83	98.9	123.9	122.5
	1918	55	1,606	54.7	.204	16.60	98.4	191.2	187.8
	1920	32	961	48.3	.564	27.24	86.9	354.7	306.1
	1922	54	1,032	48.9	.435	21.32	87.9	273.6	241.2
	1924	56	877	49.2	.490	24.11	88.6	306.2	272.7
	1926	82	1,006	49.4	.445	21.98	88.6	279.9	248.6
	1928	72	962	49.1	.463	22.73	88.3	291.2	257.1
	1930	72	844	49.4	.458	22.63	88.8	288.1	256.0
	1930	82	944	49.8	.436	21.71			
Other employees:									
Male.....	1914	47	13,947	55.7	.180	10.03			
	1916	63	16,978	55.8	.225	12.51			
	1918	63	17,306	55.3	.330	18.24			
	1920	67	7,194	48.6	.580	26.19			
	1922	67	7,797	49.6	.455	22.57			
	1924	72	7,984	49.3	.509	25.09			
	1926	112	7,626	49.4	.480	23.71			
	1928	92	7,623	49.3	.501	24.80			
	1930	93	6,719	49.3	.491	24.21			
	1930	105	7,226	49.7	.479	23.81			
Female.....	1914	46	7,781	54.2	.139	7.54			
	1916	61	6,347	53.9	.168	9.05			
	1918	63	6,407	53.4	.250	13.37			
	1920	67	3,349	48.2	.421	20.29			
	1922	61	3,481	48.9	.336	16.43			
	1924	68	3,939	49.1	.382	18.76			
	1926	105	3,750	49.4	.346	17.09			
	1928	86	3,774	49.2	.355	17.47			
	1930	84	2,112	49.3	.352	17.35			
	1930	93	2,319	49.8	.337	16.78			

¹ Not including the southern mills.

² Including the southern mills.

AVERAGE HOURS AND EARNINGS, 1928 AND 1930, BY STATE

Table 2 shows for 1928 and 1930 average full-time hours and earnings per week and average earnings per hour for males and for females separately and for both sexes combined.

There were decreases in average full-time hours per week, for males in Connecticut, from 49.1 in 1928 to 48.9 in 1930; in average earnings per hour from 60 cents in 1928 to 55.4 cents in 1930; and in full-time earnings per week from \$29.46 in 1928 to \$27.09 in 1930. Males in New Jersey, however, had an increase in average hourly earnings from 61.9 cents in 1928 to 63 cents in 1930. Males in each of the other States in the table, females in each State, and males and females combined in each State earned less in 1930 than in 1928.

In 1928 average full-time hours per week of males ranged, by States, from 48 to 52.2, of females from 48 to 52.5, and of both sexes combined from 48 to 52.4; while in 1930 the averages ranged from 48.4 to 53.5, from 48 to 53.8, and from 48.3 to 53.6, respectively.

Average earnings per hour of males ranged, by States, from 50.1 to 61.9 cents in 1928 and from 34.8 to 63 cents in 1930, of females from 37.2 to 50.9 cents in 1928 and from 25 to 50.3 cents in 1930, and of both sexes combined from 44.9 to 57.5 cents in 1928 and from 30.8 to 56.7 cents in 1930.

Full-time earnings per week in 1928 of males ranged, by States, from an average of \$25.55 to \$31.01, of females from \$18.77 to \$24.58, and of both sexes combined from \$23.21 to \$27.83; and in 1930 the averages ranged from \$18.62 to \$30.49 for males, from \$13.45 to \$24.35 for females, and from \$16.51 to \$27.44 for both sexes combined.

TABLE 2.—Average hours and earnings, 1928 and 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 weekly earnings	
	1928	1930	1928	1930	1928	1930	1928	1930	1928	1930
MALES										
Connecticut.....	10	12	1,504	1,385	49.1	48.9	\$0.600	\$0.554	\$29.46	\$27.09
Maine.....	16	12	2,173	1,664	50.6	51.1	.561	.525	26.39	24.85
Massachusetts.....	12	16	7,808	8,096	48.8	48.5	.532	.515	25.94	24.09
New Hampshire.....	5	4	1,097	976	51.0	51.3	.501	.490	25.85	25.14
New Jersey.....	8	4	2,124	1,411	48.5	48.4	.619	.630	30.02	30.49
New York.....	4	6	1,024	1,035	50.8	50.8	.549	.523	27.99	26.57
Pennsylvania.....	23	22	1,687	1,417	52.2	53.5	.594	.543	31.01	29.05
Rhode Island.....	12	14	3,012	3,313	48.4	48.7	.576	.531	27.88	25.86
Vermont.....	3	3	619	571	48.0	44.9	.547	.545	26.26	25.85
Southern district.....		12		1,723		53.5		.348		18.62
Total ¹	92	93	21,049	19,868	49.4	49.4	.666	.632	28.06	26.28
Total ²		105		21,591		49.7		.516		25.05
FEMALES										
Connecticut.....	10	12	718	664	49.2	48.9	.474	.467	23.32	19.41
Maine.....	16	12	1,229	933	50.2	50.9	.483	.415	24.25	21.12
Massachusetts.....	13	16	6,397	6,734	44.0	45.0	.450	.449	21.50	19.63
New Hampshire.....	5	4	517	971	52.5	50.0	.372	.348	19.53	17.40
New Jersey.....	6	4	1,673	1,578	48.3	48.4	.569	.503	24.59	24.35
New York.....	4	6	731	1,097	48.4	49.1	.465	.363	22.51	19.39
Pennsylvania.....	23	22	2,997	2,563	52.5	53.2	.383	.363	20.11	19.51
Rhode Island.....	12	14	2,822	3,531	48.1	48.2	.423	.402	20.35	19.38
Vermont.....	3	3	426	458	48.0	48.6	.391	.364	18.77	17.96
Southern district.....		12		1,260		53.8		.250		13.46
Total ¹	92	93	17,801	18,549	49.2	49.2	.428	.403	21.55	19.53
Total ²		105		19,869		49.5		.392		19.40

¹ Not including southern mills.² Including southern mills.

TABLE 2.—Average hours and earnings, 1928 and 1930, by sex and State—Contd.

Sex and State	Number of establishments		Number of employees		Average full-time hours per week		Average earnings per hour		Average full-time weekly earnings	
	1928	1930	1928	1930	1928	1930	1928	1930	1928	1930
MALES AND FEMALES										
Connecticut.....	10	12	2,222	2,049	49.1	48.9	\$0.562	\$0.507	\$27.59	\$24.79
Maine.....	16	12	3,393	2,597	50.4	51.0	.534	.491	26.91	25.04
Massachusetts.....	13	16	14,195	14,830	48.4	48.3	.511	.470	24.73	22.70
New Hampshire.....	5	4	1,914	1,947	51.7	50.7	.449	.424	23.21	21.50
New Jersey.....	6	4	3,797	2,969	48.4	48.4	.575	.567	27.83	27.44
New York.....	4	6	1,755	2,132	49.8	50.0	.519	.463	25.85	23.15
Pennsylvania.....	23	22	4,684	4,000	52.4	53.3	.469	.432	24.58	23.03
Rhode Island.....	12	14	5,835	6,844	48.2	48.2	.511	.467	24.63	22.65
Vermont.....	3	3	1,055	1,029	48.0	48.8	.485	.466	23.28	22.74
Southern district.....		12		2,983		53.0		.308		16.51
Total ¹	92	93	38,650	38,417	49.3	49.3	.514	.473	25.34	23.32
Total ²		105		41,400		49.6		.460		22.82

¹ Not including southern mills.

² Including southern mills.

AVERAGE AND CLASSIFIED EARNINGS PER HOUR, 1910 TO 1930

In Table 3 are set forth average and classified earnings per hour for mule spinners, frame spinners, and weavers for each of the years from 1910 to 1914 and for each of the even years thereafter to 1930, and also for the wage earners in each of 10 other representative occupations for 1926, 1928, and 1930. The classified figures for the employees in these occupations represent a percentage distribution by average earnings per hour of the wage earners in all occupations in the industry, applying especially to the period from 1926 to 1930.

Two sets of figures are shown in the table for 1930—one for all except the southern mills which were not included in any year prior to 1930, and the other for all mills including those in the South.

The 1930 figures are for males only in 4 occupations, for females only in 4, and for both sexes in 5 occupations. The 10,095 males in these occupations are 47 per cent of the males; the 12,078 females are 61 per cent of the females; and the males and females together are 54 per cent of the total number of employees included in the study. For a distribution by number of the employees receiving each classified group of average earnings per hour in each of these occupations in each State in 1930, see Table B, pages 37 to 42.

Of the 2,907 male weavers who earned an average of 20.7 cents per hour in 1910, 49 per cent earned less than 20 cents per hour and none earned so much as 50 cents per hour. Average earnings per hour in the occupation increased to 80.7 cents in 1920, when about 2 per cent of the 4,825 earned less than 40 cents per hour and 52 per cent earned 80 cents or more per hour; but decreased to 61.6 cents in 1922, increased to 70.1 cents in 1924, decreased to 65.2 cents in 1926, and increased to 65.8 cents in 1928. In 1930 the average for employees in all mills except those in the southern mills was 63.6 cents and for all mills including the southern mills was 61.1 cents per hour.

The percentage distribution shows that of the 3,724 male weavers in all mills, excluding the 463 in the southern mills, approximately 7 per cent of them earned less than 40 cents per hour, while of the 4,187 in all mills, including the 463 in the southern mills, approximately 11 per cent of them earned less than 40 cents per hour in 1930.

TABLE 3.—Average and classified earnings per hour of employees in 13 specified occupations, 1910 to 1930, by sex and year—Continued

Occupation and sex	Year	Number of establishments	Number of employees	Average earnings per hour	Per cent of employees whose earnings per hour were—																														
					Under 8 cts.	8, under 9 cts.	9, under 10 cts.	10, under 12 cts.	12, under 14 cts.	14, under 16 cts.	16, under 18 cts.	18, under 20 cts.	20, under 25 cts.	25, under 30 cts.	30, under 40 cts.	40, under 50 cts.	50, under 60 cts.	60, under 70 cts.	70, under 80 cts.	80, under 90 cts.	90 cts. under \$1	\$1, under \$1.10	\$1.10, under \$1.25	\$1.25 and over											
Doffers—Continued. Female.....	1926	22	701	\$0.280						1	(1)	2	16	51	37	2																			
	1928	20	588	.284									28	37	29	5	1																		
	1930	22	668	.274								(1)	37	31	29	2	2																		
	1930	24	698	.269							3	(1)	37	30	28	2																			
Spooler tenders: Female.....	1926	95	1,283	.301								(1)	3	8	52	23	8	4	1																
	1928	82	1,407	.371								(1)	5	11	48	24	8	3	1	(1)															
	1930	78	1,077	.301					(1)	(1)		(1)	1	13	44	27	10	3	(1)																
	1930	87	1,147	.383					(1)	(1)	1	1	3	14	42	27	9	3	(1)																
Loom fixers: Male.....	1926	99	748	.807												(1)	2	10	35	34	16	3	(1)												
	1928	83	692	.821									(1)	3	7	32	36	15	7																
	1930	80	639	.809												(1)	3	12	31	37	13	3	(1)												
	1930	91	701	.775												(1)	3	11	26	34	12	3	(1)												
Burlers: Female.....	1926	90	1,722	.381				(1)				(1)	2	11	51	25	7	2	2		(1)														
	1928	79	1,691	.383				(1)	1	(1)		(1)	1	2	9	47	30	8	1																
	1930	81	2,075	.354	(1)				(1)	(1)	1	1	7	22	38	20	7	4	(1)		(1)														
	1930	92	2,258	.339	(1)	(1)	(1)	(1)	1	1	2	2	9	21	35	18	6	4	(1)		(1)														
Menders: Female.....	1926	91	2,121	.507								(1)			2	16	33	26	16	6	2	1	(1)												
	1928	82	2,086	.488					(1)			(1)	(1)	1	18	36	24	12	4	1	(1)														
	1930	83	2,382	.473						(1)		(1)	(1)	2	4	25	32	20	11	4	2	1	(1)												
	1930	89	2,511	.459	(1)		(1)	(1)	(1)	1	(1)	(1)	3	6	24	30	19	11	4	2	1	(1)													
Truckers: Male.....	1926	98	1,236	.408										1	4	36	47	10	(1)	(1)															
	1928	79	1,419	.417										2	3	33	45	12	1	(1)															
	1930	91	1,563	.402								(1)		2	6	46	41	10	1	(1)															
	1930	103	1,635	.396								(1)	3	7	36	36	26	10	1	(1)															
Dye-house laborers: Male.....	1926	82	1,008	.445												9	53	5	3																
	1928	72	962	.463											(1)	4	76	13	6	(1)															
	1930	72	844	.458												10	74	10	8																
	1930	82	944	.436							(1)		2	8	13	67	9	6																	

¹ Less than 1 per cent.

² Not including southern mills.

³ Including southern mills.

Table 4 shows for each classified group of earnings per hour the number and per cent of all males and females separately and of both sexes combined in all occupations in the 105 mills that were included in the 1930 study of the woolen and worsted goods industry.

The average earnings per hour of 4, or less than 1 per cent, of the 19,809 females were within the group of 5 and under 6 cents; of 2,210, or 11 per cent, were 30 and under 32½ cents; of 545, or 3 per cent, were 60 and under 65 cents; of 16, or less than 1 per cent, were \$1 and under \$1.10; of 2 were \$1.20 and under \$1.30; and of 1 were \$1.50 and under \$1.60.

TABLE 4.—Classified earnings per hour of males and of females and of both sexes combined in all occupations in the industry in 1930

Classified earnings	Number			Per cent		
	Males	Females	Total	Males	Females	Total
5 and under 6 cents		4	4			
6 and under 7 cents	3	3	6	(1)	(1)	(2)
7 and under 8 cents	1	5	6	(1)	(5)	(6)
8 and under 9 cents	1	10	11	(1)	(10)	(11)
9 and under 10 cents	2	10	12	(2)	(10)	(12)
10 and under 11 cents	7	10	17	(7)	(10)	(17)
11 and under 12 cents	10	31	41	(10)	(31)	(41)
12 and under 13 cents	7	27	34	(7)	(27)	(34)
13 and under 14 cents	4	25	29	(4)	(25)	(29)
14 and under 15 cents	7	45	52	(7)	(45)	(52)
15 and under 16 cents	19	72	91	(19)	(72)	(91)
16 and under 17 cents	16	31	47	(16)	(31)	(47)
17 and under 18 cents	24	84	108	(24)	(84)	(108)
18 and under 19 cents	34	76	110	(34)	(76)	(110)
19 and under 20 cents	10	80	90	(10)	(80)	(90)
20 and under 21 cents	104	247	351	(104)	(247)	(351)
21 and under 22 cents	51	150	201	(51)	(150)	(201)
22 and under 23 cents	76	190	266	(76)	(190)	(266)
23 and under 24 cents	30	247	283	(30)	(247)	(283)
24 and under 25 cents	111	352	464	(111)	(352)	(464)
25 and under 27½ cents	394	997	1,391	(394)	(997)	(1,391)
27½ and under 30 cents	1,496	398	1,874	(1,496)	(398)	(1,874)
30 and under 32½ cents	543	2,210	2,753	(543)	(2,210)	(2,753)
32½ and under 35 cents	876	1,703	2,529	(876)	(1,703)	(2,529)
35 and under 37½ cents	993	2,087	3,060	(993)	(2,087)	(3,060)
37½ and under 40 cents	1,532	1,936	3,462	(1,532)	(1,936)	(3,462)
40 and under 42½ cents	2,564	1,312	3,878	(2,564)	(1,312)	(3,878)
42½ and under 45 cents	1,875	947	2,522	(1,875)	(947)	(2,522)
45 and under 47½ cents	1,309	1,299	2,578	(1,309)	(1,299)	(2,578)
47½ and under 50 cents	1,042	674	1,716	(1,042)	(674)	(1,716)
50 and under 55 cents	1,681	1,008	2,630	(1,681)	(1,008)	(2,630)
55 and under 60 cents	1,736	725	2,461	(1,736)	(725)	(2,461)
60 and under 65 cents	1,659	545	2,204	(1,659)	(545)	(2,204)
65 and under 70 cents	1,290	337	1,677	(1,290)	(337)	(1,677)
70 and under 75 cents	1,156	261	1,467	(1,156)	(261)	(1,467)
75 and under 80 cents	756	201	967	(756)	(201)	(967)
80 and under 85 cents	665	109	774	(665)	(109)	(774)
85 and under 90 cents	348	61	409	(348)	(61)	(409)
90 and under 95 cents	243	45	294	(243)	(45)	(294)
95 cents and under \$1.00	87	21	108	(87)	(21)	(108)
\$1.00 and under \$1.10	81	16	97	(81)	(16)	(97)
\$1.10 and under \$1.20	30		30	(30)		(30)
\$1.20 and under \$1.30	11	2	13	(11)	(2)	(13)
\$1.30 and under \$1.40	6		6	(6)		(6)
\$1.40 and under \$1.50	2		2	(2)		(2)
\$1.50 and under \$1.60	2	1	3	(2)	(1)	(3)
\$1.60 and under \$1.70	2		2	(2)		(2)
\$1.70 and under \$1.80						
\$1.80 and under \$1.90	1		1	(1)		(1)
\$1.90 and under \$2.00	1		1	(1)		(1)
\$2.00 and under \$2.25	1		1	(1)		(1)

¹ Less than 1 per cent.

REGULAR OR CUSTOMARY HOURS PER DAY AND WEEK

The regular or customary full-time hours per day and week of an establishment are the hours of operation when it is working its recognized standard of full time as established by the regular time of beginning and quitting work each day less the regular time off duty for lunch or dinner, with no overtime and no loss of time for any cause.

Table 5 shows average full-time hours per week and the per cent of the employees in each of 13 representative occupations in each classified group of full-time hours per week for each of the specified years from 1910 to 1930 for which data are available. For a similar distribution, by *number*, of the employees in each of the 13 occupations in each State in 1930, see Table C, pages 43 to 46.

Average full-time hours per week of weavers (male) decreased from 57.1 in 1910 and 1911 to 56.3 in 1912 and 1913, to 55.2 in 1914, to 54.9 in 1916, to 54.5 in 1918, and to 48.3 in 1920 and 1922, and then increased gradually to 49.3 in 1930 for all mills except the southern mills. The average for all mills, including the southern mills, was 49.8 per week. The decrease between 1910 and 1930, excluding the southern mills, was 13.7 per cent.

The full-time hours per week of 65 per cent of the 2,907 male weavers included in the study in 1910 were over 54 and under 57, of 17 per cent were 57 and under 60, and of 19 per cent were 60 and over. In 1910 and 1911 there were no male weavers at 54 hours or less per week. There were 33 per cent at 54 per week in 1912; 28 per cent in 1913; 60 per cent in 1914; 64 per cent in 1916; and 73 per cent in 1918, and only 4 per cent in 1920, when 94 per cent were "48 and under 54."

The per cent at 48 hours and under in each year since 1920 was 91 in 1922, 87 in 1924, 80 in 1926, 85 in 1928, and 76 in 1930, for all except the southern mills.

TABLE 5.—Average and classified full-time hours per week in 13 specified occupations, 1910 to 1930, by sex and year

Occupation and sex	Year	Number of establishments	Number of employees	Average full-time hours per week	Per cent of employees whose full-time hours per week were—					
					Under 48	48	Over 48, under 54	54	Over 54, under 57	57 and under 60
Wool sorters:										
<i>Male</i>										
	1910	18	280	56.3					86	4
	1911	19	444	56.4					83	12
	1912	19	471	55.2				81	21	14
	1913	19	246	55.0				65	21	14
	1914	15	381	54.2				83	17	(1)
	1916	17	412	54.1	1			82	7	
	1918	20	538	54.4				87	7	
	1920	22	423	48.1		90		1		
	1922	17	358	48.4		94		6		
	1924	19	350	49.5		75	1	24		
	1926	20	445	50.8		52	3	39	5	
	1928	22	302	49.9		69		31		
	1930	28	502	48.3		78	3	21		
	1930	29	503	49.3		78	3	23		
<i>Female</i>										
	1920	1	28	48.0		100				
	1922	2	37	48.0		100				
	1924	4	85	48.2		97		3		
	1926	2	37	48.0		100				
	1928	2	27	48.3		78	22			
	1930	2	48	48.0		100				
	1930	2	83	49.3		78		22		

¹ Less than 1 per cent.

² Tabulated in previous reports as "48 and under 54."

³ Not including southern mills.

⁴ Including southern mills.

TABLE 5.—Average and classified full-time hours per week in 15 specified occupations, 1910 to 1930, by sex and year—Continued

Occupation and sex	Year	Number of establishments	Number of employees	Average full-time hours per week	Per cent of employees whose full-time hours per week were—							
					Under 48	48	Over 48, under 54	54	Over 54, under 57	57 and under 60	60 and over	
Card tenders:												
Male												
	1910	28	201	56.9						66	20	14
	1911	40	320	57.1						55	35	10
	1912	40	412	56.4				36		18	33	13
	1913	40	329	56.3				32		24	36	8
	1914	41	388	56.1				46		18	19	13
	1916	47	533	55.8				47		22	15	17
	1918	47	599	54.8	3	4		62		16	1	14
	1920	43	444	48.4		84		3				2
	1922	46	514	49.6		81	4	9			2	4
	1924	47	528	49.4		81	5	9		1		4
	1926	70	531	49.8		66	12	16		4		2
	1928	62	556	50.3		66	5	14			1	8
	1930	66	578	50.5		62	6	20		7		6
	1930	76	652	50.8	2	55	8	18		8	3	6
Female												
	1920	11	108	48.3		95		5				
	1922	10	109	48.2		97	3					
	1924	12	94	48.0		100						
	1926	19	166	48.7		89		10		2		
	1928	15	136	48.1	4	88		8				
	1930	9	105	48.0		100						
Drawing-frame tenders:												
Male												
	1916	6	211	55.0		(?)		77		4	8	11
	1918	6	193	54.1				96		4		
	1920	6	51	48.0		100						
	1922	8	189	48.1	1	98		2				
	1924	8	263	49.2	(?)	81		2		16		
	1926	9	271	48.6		87	1	13				
	1928	6	66	48.2		97		2				
	1930	8	204	50.4		76	2	2		3		17
	1930	9	209	50.5		75	2	2		5		16
Female												
	1916	14	1,608	53.7	1	13		62		23	2	
	1918	15	1,760	52.9	3	11		66		21		
	1920	16	1,768	48.3	(?)	96		4				
	1922	17	1,615	48.5		91		9				
	1924	15	1,555	48.9	(?)	83	2	12		3		
	1926	26	1,753	49.7		68	5	27		(?)		
	1928	25	1,766	49.4		73	5	22				
	1930	28	1,973	49.3	3	70	7	21				
	1930	29	1,963	49.4	2	70	7	21		1		
Spinners, mule:												
Male												
	1910	26	520	57.0						61	26	13
	1911	40	638	57.3						49	38	13
	1912	40	719	56.5				35		15	36	11
	1913	42	828	56.5				30		21	41	8
	1914	42	897	56.0				48		17	19	17
	1916	46	1,222	55.3		2		55		17	18	8
	1918	46	1,431	54.9		5		58		24	1	12
	1920	46	960	48.2		96		4				
	1922	44	1,119	46.2		82	4	11			3	1
	1924	47	1,290	48.9		83	6	9		1	1	
	1926	68	1,249	49.7		69	8	16		5	(?)	1
	1928	61	1,106	49.5	1	73	4	15		4	1	2
	1930	62	1,073	49.5		74	4	15		6		1
	1930	71	1,223	50.0	2	65	6	13		8	4	2
Female												
	1930	3	0	52.6	22					78		
Spinners, frame:												
Male												
	1930	3	53	48.0		100						
	1930	4	73	48.5		73	27					
Female												
	1910	8	578	56.0						97		3
	1911	10	1,002	56.4						80	19	1
	1912	10	1,070	55.2				53		32	14	1
	1913	10	781	55.5				43		34	23	
	1914	9	970	54.2				75		25		
	1916	14	1,202	53.9	1	17		70		20	2	
	1918	15	1,330	52.4	6	14		80		9		
	1920	14	1,026	48.2	(?)	96		3				

¹ Less than 1 per cent.

² Tabulated in previous reports as "48 and under 54."

³ Not including southern mills.

⁴ Including southern mills.

⁵ Southern mills only.

TABLE 5.—Average and classified full-time hours per week in 15 specified occupations, 1910 to 1930, by sex and year—Continued

Occupation and sex	Year	Number of establishments	Number of employees	Average full-time hours per week	Per cent of employees whose full-time hours per week were—						
					Under 45	45	Over 45, under 54	54	Over 54, under 57	57 and under 80	80 and over
Spinners, frame—Continued.											
Female.....											
	1922	18	072	48.4	3	90		8			
	1924	14	1,106	48.0	(1)	82	4	14			
	1926	23	1,228	49.3		65	8	27			
	1928	22	1,281	49.7		70	4	27			
	* 1930	29	1,227	49.1	8	69	7	31			
	* 1930	34	1,301	49.4	9	65	7	24	2		
Dofters:											
Male.....											
	1910	6	235	49.8	51			49			
	1918	5	139	50.5	40			60			
	1920	6	106	48.3	27	73					
	1922	5	165	47.0	30	70					
	1924	7	214	49.9	26	27		47			
	1926	5	47	48.2		69	11				
	1928	9	78	50.3		55	15	27		8	
	* 1930	1	8	48.8		63	28				
	* 1930	4	21	51.7		24	24	48	5		
Female.....											
	1910	12	709	52.2	22	74		42	30	2	
	1918	12	829	48.6	37	52		53	8		
	1920	14	561	46.7	30	67		3			
	1922	14	619	48.1	19	68		13			
	1924	10	566	48.1	20	62	7	11			
	1926	22	701	49.9		59	12	28			
	1928	20	588	50.3		55	6	26			
	* 1930	22	668	49.5	5	57	6	20			
	* 1930	24	608	49.7	5	55	8	31	2		
Spooler tenders:											
Male.....											
	* 1930	2	13	51.5				85		15	
Female.....											
	1910	55	1,571	54.1	4	71		74	8	11	
	1918	56	1,514	53.6	7			75	18		
	1920	55	1,474	49.2	1	97		4		(1)	
	1922	59	1,247	48.7	(1)	87		11			
	1924	64	1,228	48.6	(1)	86	2	9			
	1926	95	1,283	49.1	(1)	78	2	16	(1)		
	1928	82	1,407	49.0		81	4	15			
	* 1930	78	1,077	48.6	(1)	85	6	8	(1)		
	* 1930	87	1,147	48.9	1	80	7	7		1	
Loom fixers:											
Male.....											
	1910	27	429	56.6				79	9	12	
	1911	46	569	55.7				68	24	8	
	1912	46	589	55.9				38	22	9	
	1913	47	581	55.8				39	31	4	
	1914	47	651	55.1				58	27	7	
	1916	60	794	54.9		21		60	26	4	
	1918	61	843	54.5		21		74	20	5	
	1920	64	736	48.3	(1)	95		4		1	
	1922	64	747	48.4	1	92	1	6			
	1924	68	821	49.0		83	3	13		(1)	
	1926	99	748	49.0		78	11	9	2	(1)	
	1928	83	692	49.0	1	81	4	11	2	(1)	
	* 1930	80	639	49.5	1	74	6	13	4	2	
	* 1930	91	701	49.8	2	67	8	12	6	2	
Weavers:											
Male.....											
	1910	27	2,907	57.1				65	17	19	
	1911	46	4,049	57.1				80	25	14	
	1912	46	4,476	56.3				63	29	14	
	1913	47	3,834	56.3				29	32	6	
	1914	48	4,336	55.2				60	19	9	
	1916	61	5,491	54.9		22		64	17	4	
	1918	61	5,812	54.5		22		73	21	4	
	1920	64	4,825	48.3	1	94		4		1	
	1922	64	5,518	48.3	2	86	1	8			
	1924	68	5,725	48.8		87	4	9		1	
	1926	97	5,628	48.9		80	10	8	2		
	1928	83	4,641	48.9	1	84	4	8	2	1	
	* 1930	82	3,724	49.3	2	74	6	12	4	2	
	* 1930	93	4,187	49.8	4	66	7	10	7	3	

¹ Less than 1 per cent.

² Tabulated in previous reports as "45 and under 54."

³ Not including southern mills.

⁴ Including southern mills.

⁵ Southern mills only.

TABLE 5.—Average and classified full-time hours per week in 13 specified occupations, 1910 to 1930, by sex and year—Continued

Occupation and sex	Year	Number of establishments	Number of employees	Average full-time hours per week	Per cent of employees whose full-time hours per week were—						
					Under 48	48	Over 48, under 54	54	Over 54, under 57	57 and under 60	60 and over
Weavers—Continued.											
<i>Female</i>											
	1910	27	2,855	56.3					84	7	9
	1911	46	3,384	56.8					83	28	9
	1912	46	2,686	55.9				39	28	25	8
	1913	47	3,493	56.0				30	32	36	2
	1914	48	3,862	54.7				54	39	8	
	1916	61	4,505	54.5		1.4			56	32	8
	1918	61	5,295	54.1	(1)	1.4		75	21		
	1920	63	3,783	48.3	(1)	1.95		4			
	1921	63	3,622	48.4	(1)	1.92	2	6		1	
	1924	67	3,713	48.9			84	4	12		
	1926	89	2,748	49.2			71	14	13	2	(1)
	1928	78	2,419	48.8			80	9	11		
	* 1930	71	1,751	49.3	1		68	17	12	1	
	† 1930	81	2,012	49.6	4		59	18	10	5	4 (1)
Burlers:											
<i>Female</i>											
	1910	26	1,034	56.5					81	9	10
	1911	43	1,616	56.8					85	27	9
	1912	44	1,562	55.9				46	17	30	7
	1913	44	1,643	56.6				52	20	26	2
	1914	44	1,756	54.6	1			64	40	4	
	1916	56	1,889	54.6	(1)	1.1		65	26	9	
	1918	55	1,867	54.1	(1)	1.2		80	17		
	1920	64	2,321	48.4	1	1.98		5		1	
	1922	61	1,773	48.2	1	1.94	(1)	4			
	1924	60	1,711	49.2	(1)	1.78	2	19			
	1926	90	1,722	49.3			73	10	17	1	
	1928	79	1,691	49.3			74	8	16		
	* 1930	81	2,075	49.0	2		76	8	14	(1)	
	† 1930	92	2,258	49.4	2		70	9	13	4	1 1
Menders:											
<i>Female</i>											
	1910	25	1,196	56.6					73	10	18
	1911	44	1,623	56.8					72	14	15
	1912	44	1,668	55.7				53	20	14	12
	1913	42	1,388	55.3				57	23	16	4
	1914	43	1,501	64.4	1			82	8	9	
	1916	53	1,767	64.3	1			86	5	8	
	1918	53	1,685	64.1				91	9		
	1920	61	1,729	48.6	1	1.92		6		1	
	1922	63	1,985	48.4	3	1.89	1	7			
	1924	64	1,850	48.6			90	3	8		
	1926	91	2,121	48.6	(1)	1.84	8	8			
	1928	82	2,066	48.5			89	4	7		
	* 1930	82	2,382	49.0	1		78	7	14	(1)	
	† 1930	89	2,511	49.3	1		74	7	13	2	1 1
Truckers:											
<i>Male</i>											
	1920	62	1,205	48.1	2	1.95		2		(1)	(1)
	1922	60	1,334	48.2	1	1.95	1	2		(1)	(1)
	1924	64	1,672	49.2	2	1.81	1	11	(1)	1	6
	1926	93	1,236	48.9	(1)	1.82	5	11	3		1
	1928	70	1,419	48.5	(1)	1.90	8	6	(1)	(1)	1
	* 1930	91	1,593	48.8	1	1.83	3	10	2	2	(1)
	† 1930	103	1,655	48.9	2	1.80	4	11	3	3	1 (1)
<i>Female</i>											
	* 1930	11	113	49.9	7	45	6	42			
Dye-house laborers:											
<i>Male</i>											
	1910	27	837	56.3					85	9	7
	1911	45	1,116	56.6					74	17	9
	1912	45	1,093	55.5				51	25	17	7
	1913	46	1,041	55.6				45	29	24	3
	1914	47	1,427	54.9				69	18	7	7
	1916	55	1,636	55.0				60	25	10	5
	1918	55	1,606	54.7	(1)	1.2		67	25		7
	1920	52	961	48.3		1.95		4		1	
	1922	54	1,032	48.9			67	3	5	3	1
	1924	56	877	49.3			82	5	11		3
	1926	82	1,008	49.4			74	8	14	2	2
	1928	72	962	49.1			81	5	12	1	(1)
	* 1930	72	844	49.4	1		72	11	11	2	(1)
	† 1930	82	944	49.5	1		65	14	10	6	3

¹ Less than 1 per cent.

² Tabulated in previous reports as "48 and under 54."

³ Not including southern mills.

⁴ Including southern mills.

Table 6 shows for *day work* and for *night work* separately the number of establishments in each State at each of the specified number of regular full-time hours per week and per day. There was day work in each of the 105 mills included in the 1930 study in which full-time hours per week ranged from 44 to 60, and night work in 27 mills in which full-time hours ranged from 44 to 65 per week.

Hours per day for day work, Monday to Friday, ranged from 8 to 11, and for night work, Monday to Friday, in 26 mills ranged from 9 to 13. In 1 mill the hours for night work were 11, Monday to Thursday, or 44 per week, with no work on Friday and Saturday.

On Saturday the hours for day work ranged from 3½ to 5½ in the 89 mills that were on a 6-day week basis. Sixteen mills with day work were on a 5-day week basis without any work on Saturday. The hours of 5 of the 16 mills were 9½ on each of 4 days and 10 on 1 day; of 4 were 9½ on each of 5 days; of 3 were 10 on each of 5 days; of 2 were 9½ on each of 4 days and 9 on 1 day; of 1 were 9½ on each of 5 days; and of 1 mill were 10 hours on each of 4 days and 8 on 1 day.

TABLE 6.—Number of establishments in each State, at each specified number of full-time hours per week and per day, for day work and night work, 1930

DAY WORK

Full-time hours per week	Full-time hours per day			Number of establishments in—									Total establishments	
	Monday to Thursday	Friday	Saturday	Connecticut	Maine	Massachusetts	New Hampshire	New Jersey	New York	Pennsylvania	Rhode Island	Vermont		Southern district
44	8	8	4										1	1
46½	9½	9½							1					1
	8½	8½	4½	1	4	5	1	2		1	3	1		15
	8½	8½	4½	4	5	10	2	1		1	4	1		23
	8½	8½	3½		1					1				2
48	9½	10		5	1	1								8
	9½	9½												4
	9½	9								1	1			3
	10	8									1			1
	9	9	5	1										2
50	9½	9½	4½						2					2
	10	10												2
50½	9½	9½	4½						1					2
	9½	9½	5					1						1
53	9½	9	5							1				1
	9½	9½	5½							1	1			3
	9½	9½	5		3		1		1	7	1		1	16
54	9½	9½	5							3				3
	9½	9½	4½		1	1				2				5
	10	10	4	1										2
55	10	10	5							3				3
55½	10	10	5½											1
56	10½	10½	5½									1		1
	10½	10½	5½											1
57	10½	10½	5½											1
57½	10½	10½	5½											1
60	11	11	5											1
Total				12	12	18	4	4	8	22	14	2	12	106

1 In 1 establishment females work 9½ hours Monday to Friday and 3½ Saturday.

2 Females work 9 hours Monday to Friday and 4½ Saturday.

3 Females work 10 hours Monday to Friday and 4 Saturday.

4 Females work 10 hours Monday to Friday and 5½ Saturday.

TABLE 6.—Number of establishments in each State, at each specified number of full-time hours per week and per day, for day work and night work, 1930—Con.

NIGHT WORK

Full-time hours per week	Full-time hours per day			Number of establishments in—									Total establishments	
	Monday to Thursday	Friday	Saturday	Connecticut	Maine	Massachusetts	New Hampshire	New Jersey	New York	Pennsylvania	Rhode Island	Vermont		Southern district
44	11												1	1
46	9	9				1								1
48	9½	9½						1			1			2
50	10	10								1	2			3
55	11	11			1	1	1				1			4
56½	11½	11½									1			1
60	12	12				2	2			2	2	1	2	12
62½	12½	12½				2								2
65	13	13							1					1
Total					1	7	8	1	1	3	7	1	3	27

1 Females work 8 hours Monday to Friday or 40 hours per week.

2 Includes 1 establishment in which the weaving department works 8 hours Monday to Friday or 40 per week.

CHANGES IN HOURS AND WAGE RATES SINCE MAY 1, 1928

Only 6 of the 105 mills included in the 1930 study of the industry reported changes in the regular full-time hours since May 1, 1928. In 5 of the 6 mills a change was made from a 6-day week of 8½ hours on 5 days and 4½ on Saturday, or 48 per week, to a 5-day week of 9½ hours on 4 days and 10 hours on 1 day, or 48 per week, with no work on Saturday. The other changed from a 6-day week of 9½ hours on 5 days and 5½ on Saturday, or 54 per week, to a 5-day week of 10 hours each day or 50 per week.

Changes in wage rates since May 1, 1928, were reported by only 6 of the 105 mills. The piece rates of weavers, menders, and burlers in 1 mill, and the wage rates of all employees in the worsted department in 1 mill and of all employees in another mill were reduced 10 per cent. The wage rates of all time workers in 2 mills were reduced 2 cents per hour and of piece workers the equivalent of 2 cents per hour. In 1 mill the rates of frame spinners and twister tenders were increased from 32.3 to 36 cents per hour and a bonus system was established. Later the rate per hour was increased to 37 cents and the bonus discontinued.

OVERTIME AND SUNDAY AND HOLIDAY WORK, 1930

Any time worked in excess of the regular full-time hours per day or per week regardless of the rate paid for such time is overtime. Work on Sunday and holidays is extra time only when done by employees whose regular hours per day and week do not provide for work on those days.

In reply to inquiries concerning overtime and work on Sunday and holidays, 41 of the 105 mills covered by the 1930 study reported a higher rate for overtime and 26 a higher rate for extra work on Sunday and holidays than for regular working time.

Table 7 shows the number of mills in which there was provision for extra rate for overtime and for work on Sunday and holidays, the employees who were entitled to extra rate or time for such extra work, and the number of *times regular rate* for such work. The extra rate ranged from $1\frac{1}{2}$ to $1\frac{1}{2}$ times the regular rate.

TABLE 7.—*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
3	All.....	1½	1½
1	do.....	1½	1
1	do.....	1½	1½
1	do.....	1½	1
1	do.....	1½	1
1	do.....	1½	1½
4	Time workers.....	1½	1½
1	do.....	1½	1
3	do.....	1½	1
1	Time workers when plant is running on an overtime basis.....	1½	1½
4	Time workers.....	1½	1½
3	do.....	1½	1
1	do.....	1½	1
1	do.....	1½	1
2	Daytime workers.....	(¹)	(²)
1	do.....	1½	1½
1	do.....	1½	1½
1	Time workers.....	1½	1½
1	Day spinners after 6 o'clock in evening.....	1½	1
1	Daytime workers after full-time hours per day.....	1½	1
1	Piece workers after full-time hours per week.....	1½	1
1	Time workers.....	1½	1
1	Dresser tenders.....	1½	1
1	Time workers.....	1½	1½
1	Mule spinners.....	(³)	(⁴)
5	Time workers.....	1½	1½
1	Piece workers.....	1½	1½
1	Day workers.....	1½	1
1	Time workers, dressers and spinners.....	1½	1
1	Part of cloth room, drawing-in, dye house, grey cloth, harness and dressing, and wet finish departments.....	1½	1½
64	None.....		

¹ Except work during noon hour for which they receive $1\frac{1}{2}$ times regular rate.

² Except work during noon hour for which they receive double regular rate.

³ 1 cent per hour above regular rate.

⁴ Except work during noon hour for which they receive $1\frac{1}{2}$ times regular rate.

⁵ Regular piece rates and 14 cents for each overtime hour worked.

⁶ Regular piece rates and 28 cents for each hour worked.

⁷ And Saturday. No regular working time on Saturday in these mills. All are on 5-day per week basis.

BONUS SYSTEMS

Forty-four of the 105 mills covered in this study reported bonus systems in operation. 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 8.

The basis of the bonus in each of 39 mills was *production* and was limited to specified employees of each mill. In one mill there were two bonuses—one based on *production* and limited to loom fixers only and the other based on *efficiency* and limited to harness raisers only. In two mills the basis was *efficiency* and limited to weavers only. In two mills the basis was *attendance*—in one limited to Noble comber tenders only and in the other all employees except overseers and wool scourers were paid \$1 per week in addition to earnings in the week at basic rates.

TABLE 8.—*Bonus systems of 44 woolen and worsted establishments, 1930*

Number of establishments	Bonus based on—	Employees entitled	Amount of or per cent of earnings paid as bonus	Necessary to get bonus
13	Production	Loom fixers	One-half of 1 per cent of weavers' earnings.	Upkeep of looms.
2	do	do	1 per cent of weavers' earnings.	Do.
2	do	do	One-half of 1 per cent of weavers' earnings for single, and 1 per cent for double loom.	Do.
2	do	do	Per cent of earnings of loom fixers equal to extra efficiency of weavers.	Do.
2	do	Loom fixers and mule fixers	One-half of 1 per cent of earnings of weavers and mule spinners.	Upkeep of looms and mules.
1	do	Loom fixers	6 per cent of weavers' earnings.	Upkeep of looms.
1	do	do	Varies with quality of goods woven.	Do.
1	do	do	One-half of 1 per cent of weavers' earnings.	Do.
1	do	Menders	8.5 cents per cut.	Mend 18 or more cuts per week.
1	do	Loom fixers on nonautomatic looms.	2 per cent of weavers' earnings.	Upkeep of looms.
1	do	Loom fixers	2½ per cent of weavers' earnings.	Do.
1	do	Mule spinners	Varies with quality of goods spun.	Production in excess of set standard.
1	do	Loom fixers	6 per cent of earnings of loom fixers to those on automatic looms, 3 per cent of earnings to those on other looms.	Upkeep of looms.
1	do	Mule spinners	1 cent per pound for all over 800 per week.	Produce over 800 pounds per week.
1	do	All sewers except those on finishing.	30 cents per cut for all over 17 per week.	Produce over 17 cuts per week.
1	do	Mule spinners, 260 spindles.	25 cents per set for all over 12 per week.	Produce more than 12 sets per week.
1	do	Mule spinners, 360 spindles.	32 cents per set for all over 12 per week.	Do.
1	do	Pieceworkers	75 cents per week.	Earn an average of 50.8 to 53.4 cents per hour.
1	do		\$1 per week.	Earn an average of \$3.5 to 55.6 cents per hour.
1	do		\$1.50 per week.	Earn an average of 55.7 and over per hour.
1	do	Loom fixers	Varies with quality of cloth woven.	Upkeep of looms.
1	do	Menders	\$1.55 for each cut above set standard per week.	Production in excess of set standard.
1	do	Dressers	Per cent of earnings equal to extra efficiency of weavers.	Efficiency in quality of work that will not lower weavers efficiency.
1	do	Weavers	5 per cent of earnings. 10 per cent of earnings. 15 per cent of earnings.	Earn \$20 to \$25 per week. Earn \$25 to \$35 per week. Earn \$35 and over per week.
1	do	Reelers	75 cents for each 100 pounds over 300 per week.	Reel more than 300 pounds per week.
1	do	Menders	\$1 per week.	Earn at least \$17 per week.
2	do	Dressers, loom fixers, menders, perchers, slashers, and slasher helpers.	Various.	Production in excess of set standard.
1	do	Assistant foremen in weaving department, dresser tenders, loom fixers, mule spinners, and perchers.	Various.	Production in excess of set standard.
1	do	Loom fixers	One-half of 1 per cent of earnings of weavers on single, and 1 per cent of earnings of weavers on double looms.	Upkeep of looms.
1	Efficiency	Harness raisers	5 per cent of earnings.	Perfect work.
1	do	Weavers	10 per cent of earnings.	Do.
1	do	do	1 cent per yard of cloth woven.	Do.
1	Attendance	Noble comb tenders	60 cents per pay period.	Full-time attendance.
1	do	All except overseers and wool scourers.	\$1 per week.	Do.

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

In Table 9 index numbers of employment and of pay rolls in woolen and worsted goods manufacturing are presented for each month, January, 1923, to December, 1930, inclusive. These indexes were computed from the volume of employment and the amount of the pay rolls for each of the months and years, with the 1926 average as 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 covered by the table, both monthly employment and pay rolls were highest, 127.6 and 138.1, respectively, in May, 1923; and lowest, 69.7 in December, 1930, and 63.6, in November, 1930. Index numbers of employment by years were 124.5 in 1923, 113.3 in 1924, 110.7 in 1925, 100.0 in 1926, 99.7 in 1927, 95.0 in 1928, 96.0 in 1929, and 77.7 in 1930; and of pay rolls were 126.7 in 1923, 114.1 in 1924, 110.6 in 1925, 100.0 in 1926, 100.6 in 1927, 94.4 in 1928, 96.3 in 1929, and 72.7 in 1930.

TABLE 9.—Index numbers of employment and of pay rolls, January, 1923, to August, 1930, by month and year

[Average for 1926=100]

Month	Employment							
	1923	1924	1925	1926	1927	1928	1929	1930
January.....	122.9	120.5	118.4	107.2	105.9	98.0	96.2	87.9
February.....	124.7	120.3	117.1	99.8	106.1	97.2	97.9	84.8
March.....	126.0	119.4	114.4	97.8	102.2	98.9	96.5	78.8
April.....	127.4	112.1	112.8	96.4	99.3	91.9	96.9	72.7
May.....	127.6	110.1	109.3	95.6	96.9	98.2	97.4	78.1
June.....	126.4	106.1	108.2	95.1	97.4	94.8	96.1	79.6
July.....	125.0	101.1	108.8	94.9	93.0	91.6	93.9	77.4
August.....	123.8	102.5	107.1	95.0	97.2	92.2	96.6	79.4
September.....	121.9	109.2	107.5	96.5	98.2	91.2	97.4	79.1
October.....	122.2	115.8	108.7	105.4	99.4	96.4	96.5	74.1
November.....	123.7	119.2	109.6	107.2	100.5	99.6	93.6	71.7
December.....	122.7	120.9	108.8	106.4	99.8	99.4	99.5	69.7
Average.....	124.5	113.3	110.7	100.0	99.7	95.0	96.0	77.7
	Pay-roll totals							
January.....	119.1	121.3	126.5	107.4	107.7	98.5	98.6	84.3
February.....	120.2	124.2	123.2	98.7	108.5	98.0	99.6	80.3
March.....	122.3	119.6	117.4	96.4	102.3	91.4	97.2	72.9
April.....	124.3	110.1	112.7	92.8	98.1	87.7	96.5	67.1
May.....	128.1	107.0	109.8	93.9	97.0	92.2	99.7	75.6
June.....	126.2	100.6	105.9	94.7	98.2	94.4	97.0	77.0
July.....	120.0	94.8	105.3	94.3	92.0	89.5	93.0	72.7
August.....	122.6	102.2	102.6	94.7	98.4	91.0	96.9	72.9
September.....	125.6	111.2	100.4	97.7	99.6	90.2	98.1	73.4
October.....	128.5	122.4	106.5	110.5	101.9	99.1	100.7	67.7
November.....	126.1	124.8	108.6	108.0	100.9	99.6	99.5	63.6
December.....	127.8	130.9	108.2	110.4	102.0	102.2	95.2	64.2
Average.....	126.7	114.1	110.6	100.0	100.6	94.4	96.2	72.7

IMPORTANCE OF THE INDUSTRY

Table 10 shows for the industry the number of establishments, average number of wage earners, amount of wages paid, cost of materials, value of products, and value added by manufacture in 1914, 1919, 1921, 1923, 1925, and 1927 for the United States as a whole, and in 1927 only for each of the nine States for which 1930 data are presented in this report. These figures were taken from the reports of the Census of Manufactures for 1927. From them averages per wage earner of yearly wages, cost of materials, value of products, and of value added by manufacture were computed by the bureau, as was the per cent that wages were of value added by manufactures.

Average annual wages per wage earner by years ranged from \$479 in 1914 to \$1,158 in 1925. The averages by States in 1927 ranged from \$945 to \$1,297. Wages formed 57 per cent of value added by manufacture in 1914 and 1925, 55 per cent in 1927, 51 per cent in 1923, 49 per cent in 1921, and 42 per cent in 1919. In 1927 the per cent by States ranged from 50 to 77.

TABLE 10.—Number of establishments, wage earners, cost of materials, value of products, and value added by manufacture, in the woolen and worsted goods industry, 1914 to 1927

[From United States Census of Manufactures]

State and year	Number of establishments	Average number of wage earners	Wages	Cost of materials	Value of products
United States:					
1914.....	799	168,694	\$75,958,444	\$246,496,666	\$379,484,379
1919.....	832	168,787	168,108,681	666,594,683	1,065,434,072
1921.....	814	171,592	174,594,788	406,045,592	756,588,763
1923.....	851	194,552	222,984,522	622,731,847	1,062,568,438
1925.....	832	165,224	191,270,791	626,401,943	987,790,338
1927.....	769	154,301	173,821,906	562,107,822	817,978,399
1927					
Connecticut.....	40	8,968	11,662,469	30,307,095	49,944,924
Maine.....	59	10,394	12,167,798	28,332,904	51,874,208
Massachusetts.....	174	51,064	58,036,387	163,149,995	268,236,808
New Hampshire.....	35	5,007	6,141,099	13,146,981	24,143,480
New Jersey.....	24	2,953	12,285,102	31,628,989	53,389,369
New York.....	38	6,103	6,864,629	17,660,188	31,044,655
Pennsylvania.....	146	17,264	19,598,093	69,819,696	105,622,214
Rhode Island.....	95	24,389	26,499,909	91,122,057	137,668,178
Vermont.....	15	2,619	3,058,143	6,981,756	10,939,729
All other States.....	182	18,686	17,559,276	49,760,281	84,637,747

State and year	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:						
1914.....	\$132,987,718	\$479	\$1,533	\$2,391	\$638	57
1919.....	399,839,389	1,908	3,991	6,388	2,897	43
1921.....	355,638,208	1,019	2,931	4,403	2,072	49
1923.....	439,826,591	1,146	3,201	5,462	2,261	51
1925.....	337,388,395	1,168	3,755	5,797	2,042	57
1927.....	815,870,457	1,120	3,283	5,299	2,046	55
1927						
Connecticut.....	10,637,829	1,297	3,370	5,564	2,184	59
Maine.....	23,541,304	1,172	2,729	4,996	2,297	62
Massachusetts.....	108,685,811	1,137	3,195	5,265	2,070	55
New Hampshire.....	10,996,499	1,227	2,626	4,822	2,196	58
New Jersey.....	21,742,371	1,229	3,178	5,362	2,185	56
New York.....	13,184,467	1,125	2,928	5,087	2,160	62
Pennsylvania.....	35,602,618	1,135	4,044	6,118	2,074	55
Rhode Island.....	40,444,119	1,087	3,786	5,841	1,994	57
Vermont.....	3,667,973	1,168	3,600	4,177	1,511	77
All other States.....	84,877,468	945	2,577	4,564	1,877	60

SCOPE AND METHOD

This report includes 1930 data for wage earners in 93 representative woolen and worsted mills in Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and also for the wage earners in 12 mills in Georgia, Kentucky, Maryland, South Carolina, Tennessee, and Virginia. Since data were obtained for one mill only in each of two States, the data for the 12 mills were combined and shown as the "Southern district" in the tables in which wage figures are presented by States, because the policy of the bureau is not to publish figures for any one mill separately. None of the States in this district were included in any study prior to 1930.

Approximately 90 per cent of the total wage earners in the industry in the United States are employed in the States included in the bureau's 1930 study, the data shown being for 27 per cent of all wage earners.

The various studies of the industry were limited to mills in which the entire or principal products were dress goods and cloth for women's coats and men's suits and overcoats, or yarns for such goods.

The number of mills covered in each of the years from 1910 to 1930 in which studies have been made by the bureau are as follows:

Establishments		Establishments	
1910.....	19	1920.....	67
1911.....	27	1922.....	67
1912.....	46	1924.....	72
1913.....	47	1926.....	112
1914.....	48	1928.....	92
1916.....	61	1930.....	105
1918.....	63		

Data for each of the mills with a pay period of more than one week were reduced to a 1-week basis. Wage figures for weavers were taken for two weeks in all mills because of the carry over of incomplete cuts from one week to another and then reduced to a 1-week basis.

Table 11 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 11.—Number of wage earners in woolen and worsted goods manufacturing in 1927, and number of establishments and of employees for which 1930 data are shown by States

State	Number of wage earners reported by United States census in 1927 ¹	Establishments and employees for which data are shown for 1930 in this report	
		Number of establishments	Number of employees
Connecticut.....	8,993	12	2,049
Maine.....	10,394	12	2,667
Massachusetts.....	51,064	16	14,830
New Hampshire.....	5,007	4	1,947
New Jersey.....	9,953	4	2,669
New York.....	8,108	6	2,132
Pennsylvania.....	17,264	22	4,000
Rhode Island.....	24,349	14	6,544
Vermont.....	2,819	3	1,029
Other States.....	18,585	² 12	2,983
Total.....	154,261	105	41,490

¹ Not including wage earners in establishments which had annual production valued at less than \$5,000 each.

² Southern district.

Average earnings per hour of employees in each occupation as presented in the various tables in this report were computed by dividing the combined earnings of all employees in the occupation in one week by the combined hours worked by all employees in the occupation in the week.

Average full-time hours per week of all employees in each occupation were computed by dividing the combined full-time hours per week of all employees in the occupation by the number of employees in the occupation in one week. The full-time hours per week of each employee were used in arriving at this average, even though some employees worked more or less than full time on account of overtime, sickness, disability, or other cause.

Average full-time earnings per week of employees in each occupation were computed by multiplying the average earnings per hour of all employees in the occupation by the average full-time hours per week. This is on the assumption that the earnings for full time would have been at the same average rate per hour as for the time that was actually worked in one week.

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 in 1 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 36, the table shows that the 21,591 males in the 105 mills worked an average of 4.8 days in one week; that their average full-time hours in one week were 49.7; that they actually worked an average of 42.6 hours in the week, or 85.7 per cent of full time; that they earned an average of 51.6 cents per hour and \$21.97 in the week; and that, had they worked full time at the same average per hour as was earned in the 42.6 hours, they would have earned an average of \$25.65 in the week. The 19,809 females in the 105 mills worked an average of 4.7 days in one week; their average full-time hours per week were 49.5 and the hours actually worked in the week averaged 38.8, or 78.4 per cent of full time; the earnings averaged 39.2 cents per hour and \$15.19 in the week. Had they worked the average full time of 49.5 hours per week at the same average as was earned in the 38.8 hours actually worked they would have earned an average of \$19.40. The 41,400 wage earners in the 105 mills worked an average of 4.8 days in one week; had average full-time hours per week of 49.6 and worked an average of 40.7 hours, or 82.1 per cent of full time, and earned an average of 46 cents per hour and \$18.73 in the week. Had

they worked their average full-time hours of 49.6 per week at the same average per hour as was earned in the 40.7 hours they would have earned an average of \$22.82 in the week.

TABLE B.—Average and classified earnings per hour in 13 specified occupations, 1930, by sex and State.

TABLE C.—Average and classified full-time hours per week in 13 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 number of days worked in 1 week	Average full-time hours per week	Average hours actually worked in 1 week	Per cent of full-time hours worked per week	Average earnings per hour	Average full-time earnings per week	Average actual earnings per week
Wool sorters, male:									
Connecticut.....	2	3	3.0	50.0	23.3	46.6	\$0.643	\$32.15	\$14.06
Maine.....	2	40	2.1	54.0	26.0	37.0	.737	39.90	14.73
Massachusetts.....	6	300	5.7	48.0	31.3	65.2	.732	25.14	22.90
New Hampshire.....	2	33	5.0	42.5	50.0	93.5	.633	33.97	31.08
New Jersey.....	3	25	5.2	48.0	44.9	93.5	.767	36.82	34.48
New York.....	3	14	4.3	50.8	38.9	76.9	.696	34.71	26.64
Pennsylvania.....	7	34	4.6	54.0	43.1	79.8	.694	36.94	29.80
Rhode Island.....	3	53	5.4	48.0	44.0	91.7	.909	43.03	40.03
Southern district.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	29	503	4.1	49.3	34.6	70.3	.743	36.68	25.72
Wool sorters, female:									
Massachusetts.....	2	49	3.8	48.0	29.5	61.5	.641	30.77	18.92
Southern district.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	3	63	4.0	49.3	33.1	67.1	.607	26.00	18.80
Wool washer tenders, male:									
Connecticut.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Maine.....	2	7	3.4	54.0	24.4	45.2	.462	24.95	15.45
Massachusetts.....	6	66	4.8	49.4	46.4	93.9	.455	22.46	21.13
New Hampshire.....	2	9	5.6	54.3	57.1	105.2	.395	20.91	21.08
New Jersey.....	3	21	4.8	48.0	42.5	88.5	.550	29.40	23.37
New York.....	3	4	4.5	48.3	41.0	84.9	.433	20.91	17.75
Pennsylvania.....	6	17	4.9	54.0	45.3	83.7	.495	26.34	22.49
Rhode Island.....	3	22	5.5	52.1	57.9	111.1	.440	22.92	25.45
Southern district.....	2	3	5.3	51.3	56.3	109.7	.340	17.44	19.13
Total.....	30	151	4.9	50.6	47.5	93.9	.462	23.38	21.94
Picker tenders, male:									
Connecticut.....	10	46	4.8	48.9	42.8	87.5	.431	21.06	18.46
Maine.....	12	63	4.6	50.5	40.4	80.0	.422	21.31	17.05
Massachusetts.....	11	62	4.5	48.0	42.1	87.7	.420	20.16	17.68
New Hampshire.....	3	25	5.1	50.4	48.4	96.0	.429	21.62	20.77
New Jersey.....	3	26	4.9	48.0	39.8	82.9	.574	27.65	22.99
New York.....	4	24	5.7	52.7	49.3	93.5	.439	22.98	21.85
Pennsylvania.....	5	20	4.9	53.2	50.6	95.1	.485	25.90	24.02
Rhode Island.....	4	24	5.6	48.0	45.3	94.4	.409	19.63	18.52
Vermont.....	3	8	5.1	51.5	54.7	106.2	.446	22.97	24.41
Southern district.....	9	70	4.9	50.9	47.7	93.7	.281	14.30	13.40
Total.....	64	368	4.9	49.9	44.7	89.6	.409	20.41	18.25
Card tenders, male:									
Connecticut.....	10	57	4.9	48.5	45.9	94.6	.493	19.55	18.49
Maine.....	11	48	4.4	51.4	43.7	84.7	.469	21.10	17.98
Massachusetts.....	13	177	4.7	49.2	42.7	86.8	.401	19.73	17.15
New Hampshire.....	3	29	5.6	52.2	54.3	104.0	.422	22.03	22.91
New Jersey.....	3	49	4.9	48.0	42.2	87.8	.572	27.46	24.14
New York.....	5	64	5.3	53.6	49.4	92.2	.443	23.74	21.90
Pennsylvania.....	12	69	4.3	53.8	41.7	77.5	.423	22.76	17.64
Rhode Island.....	6	54	5.7	49.6	55.0	110.9	.383	19.00	21.07
Vermont.....	3	31	5.2	50.3	46.6	92.6	.447	22.49	20.62
Southern district.....	10	74	4.8	53.2	46.7	87.8	.291	15.48	13.54
Total.....	76	652	4.9	50.8	45.7	90.0	.409	20.78	18.71

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 number of days worked in 1 week	Average full-time hours per week	Average hours actually worked in 1 week	Per cent of full-time hours worked per week	Average earnings per hour	Average full-time earnings per week	Average actual earnings per week
Card tenders, female:									
Maine.....	3	11	5.8	48.0	44.8	93.3	\$0.367	\$17.62	\$16.44
Massachusetts.....	2	66	3.5	48.0	28.4	59.2	.379	18.19	10.74
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Vermont.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	9	105	4.1	48.0	32.5	67.7	.374	17.95	12.15
Card strippers, male:									
Connecticut.....	10	32	4.9	48.7	46.1	94.7	.450	21.92	20.72
Maine.....	12	35	4.7	50.7	46.2	91.1	.463	23.47	21.39
Massachusetts.....	13	128	4.5	48.1	40.4	84.0	.446	21.45	18.00
New Hampshire.....	4	22	5.5	50.3	53.7	106.8	.490	20.12	21.56
New Jersey.....	3	29	4.4	48.0	39.6	80.4	.413	20.42	23.02
New York.....	3	8	5.9	52.0	51.2	98.5	.488	25.32	24.98
Pennsylvania.....	12	31	4.5	53.6	46.9	87.5	.515	27.50	24.16
Rhode Island.....	6	26	4.0	48.0	54.1	112.7	.442	21.22	23.88
Vermont.....	2	9	5.9	48.0	61.6	127.5	.500	24.00	25.81
Southern district.....	9	35	4.7	51.8	44.5	85.9	.323	16.73	14.38
Total.....	74	352	4.8	49.5	44.7	90.2	.452	22.37	20.23
Card grinders, male:									
Maine.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	5	18	5.3	48.0	47.8	99.6	.491	23.57	23.46
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	2	4	6.0	48.0	65.9	137.3	.486	23.33	32.04
Southern district.....	4	5	5.0	53.0	51.3	94.8	.357	18.92	18.32
Total.....	13	24	5.3	48.7	49.9	102.5	.480	23.81	24.32
Gill box tenders, male:									
Maine.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	4	347	3.9	49.6	33.0	66.5	.391	19.36	12.62
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	2	47	4.4	53.7	47.5	88.3	.441	24.56	20.05
Total.....	10	451	4.1	50.8	36.3	71.5	.391	19.86	14.20
Gill box tenders, female:									
Massachusetts.....	6	162	4.6	48.0	36.8	76.7	.356	17.09	13.09
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	3	35	5.7	48.0	49.1	102.3	.429	20.89	21.05
New York.....	2	42	3.6	49.1	31.4	64.0	.275	13.50	8.64
Pennsylvania.....	6	156	4.5	53.7	42.0	78.2	.321	17.34	13.48
Rhode Island.....	4	88	5.5	48.0	45.7	97.3	.366	14.83	14.43
Southern district.....	2	30	5.5	54.2	50.0	92.3	.223	12.03	11.13
Total.....	26	525	4.8	50.2	41.3	82.3	.325	16.37	13.47
Comber tenders, male:									
Maine.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	6	233	3.8	49.8	33.8	67.9	.456	22.71	15.45
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	1	8	3.2	50.3	26.1	51.9	.613	30.78	15.97
Pennsylvania.....	2	9	5.0	54.0	48.0	88.9	.406	21.92	19.51
Rhode Island.....	2	20	5.4	53.4	58.3	105.4	.677	30.81	32.48
Total.....	14	284	4.0	50.4	36.5	72.4	.469	23.64	17.12
Comber tenders, female:									
Maine.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	4	28	4.7	48.0	37.2	77.5	.362	17.38	13.45
New Jersey.....	3	33	5.2	48.0	45.1	94.0	.415	19.92	18.68
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

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 number of days worked in 1 week	Average full-time hours per week	Average hours actually worked in 1 week	Per cent of full-time hours worked per week	Average earnings per hour	Average full-time earnings per week	Average actual earnings per week
Comber tenders, k mile—Con.									
Pennsylvania.....	2	37	4.5	54.0	41.4	76.7	80.352	\$19.55	\$14.97
Rhode Island.....	2	29	5.7	48.0	45.9	95.6	.369	18.97	17.85
Southern district.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	15	130	4.9	49.9	42.2	84.5	.375	18.71	15.83
Drawing-frame tenders, male:									
Massachusetts.....	4	185	4.7	50.4	35.9	71.2	.366	19.45	13.84
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	2	14	5.5	48.5	47.9	98.6	.493	23.96	23.60
Southern district.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	9	209	4.7	50.5	37.2	73.7	.390	19.70	14.52
Drawing-frame tenders, female:									
Maine.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	6	901	4.1	48.0	32.9	68.5	.378	18.06	12.39
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	2	145	5.2	48.0	44.7	93.1	.442	21.22	19.74
New York.....	2	101	3.4	46.5	31.1	62.5	.298	14.75	9.26
Pennsylvania.....	8	333	4.4	53.5	42.2	78.9	.315	16.85	13.26
Rhode Island.....	5	322	5.8	48.2	47.0	97.5	.349	16.82	16.40
Vermont.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Southern district.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	29	1,993	4.5	49.4	37.7	76.3	.359	17.69	12.51
Spinners, mule, male:									
Connecticut.....	11	145	4.5	48.9	37.2	76.1	.669	32.71	24.87
Maine.....	11	152	4.4	50.0	36.0	72.0	.672	33.60	24.29
Massachusetts.....	11	305	4.3	48.1	37.3	77.5	.664	32.03	24.63
New Hampshire.....	4	62	5.1	49.4	45.8	92.1	.742	38.65	33.76
New Jersey.....	3	58	4.8	48.0	40.6	84.6	.758	36.28	30.81
New York.....	4	71	4.3	52.5	43.5	82.9	.577	30.29	25.15
Pennsylvania.....	11	115	4.9	54.1	47.2	87.2	.561	30.35	26.46
Rhode Island.....	4	108	5.5	48.0	44.0	91.7	.694	33.02	30.27
Vermont.....	2	56	5.1	48.7	46.4	95.4	.646	32.11	29.94
Southern district.....	9	145	4.8	53.2	44.4	83.5	.355	18.99	15.74
Total.....	71	1,223	4.7	50.9	40.8	81.6	.520	31.00	25.31
Spinners, mule, female: Southern district	3	9	4.3	52.5	35.8	68.1	.369	18.99	12.84
Spinners, frame, male:									
Massachusetts.....	3	53	3.5	49.0	28.4	59.2	.408	19.24	11.45
Southern district.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	4	73	3.1	48.5	25.1	51.8	.365	17.70	9.17
Spinners, frame, female:									
Maine.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	7	472	3.5	48.0	30.5	63.5	.418	20.05	12.74
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	3	129	4.2	48.0	39.1	81.5	.464	22.27	18.15
New York.....	2	52	3.4	48.8	30.9	63.3	.298	14.54	9.19
Pennsylvania.....	7	185	4.5	53.5	42.9	80.2	.337	18.03	14.47
Rhode Island.....	5	224	5.5	46.2	47.4	98.1	.370	17.87	17.56
Vermont.....	2	30	5.8	46.0	55.9	116.5	.379	18.14	21.04
Southern district.....	5	74	4.5	54.0	39.3	72.8	.266	14.36	10.44
Total.....	34	1,201	4.4	49.4	37.7	76.3	.390	18.77	14.30
Doers, male:									
Rhode Island.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Southern district.....	3	13	5.0	53.5	46.2	75.1	.165	8.93	6.63
Total.....	4	21	5.0	51.7	43.7	84.5	.227	12.27	10.39

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 number of days worked in 1 week	Average full-time hours per week	Average hours actually worked in 1 week	Per cent of full-time hours worked per week	Average earnings per hour	Average full-time earnings per week	Average actual earnings per week
Doffers, female:									
Maine.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	6	233	3.4	48.0	27.0	56.3	\$0.306	\$14.04	\$8.23
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	2	42	3.0	48.5	27.9	57.5	.238	11.54	6.64
Pennsylvania.....	6	151	4.5	53.5	41.3	77.2	.264	14.12	10.93
Rhode Island.....	5	126	5.6	48.2	47.3	98.1	.265	12.77	12.52
Vermont.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Southern district.....	2	80	4.7	54.4	38.7	71.1	.170	9.26	6.57
Total.....	24	698	4.3	49.7	36.5	73.4	.209	13.37	9.61
Winders, male:									
Connecticut.....	2	6	4.7	48.0	42.7	89.0	.300	14.40	12.60
Maine.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	3	5	4.6	48.0	39.1	81.5	.363	17.42	14.21
New Hampshire.....	2	2	6.0	48.0	48.0	100.0	.403	19.35	19.35
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)
Vermont.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Southern district.....	3	6	3.5	55.9	30.0	53.7	.235	13.14	7.06
Total.....	13	28	3.9	52.3	31.8	60.8	.322	16.34	10.24
Winders, female:									
Connecticut.....	4	9	4.8	48.0	38.8	80.8	.364	17.47	14.11
Maine.....	5	32	4.8	49.1	38.1	77.6	.412	20.23	15.71
Massachusetts.....	10	845	4.2	48.0	34.1	69.0	.374	17.95	12.41
New Hampshire.....	2	132	5.4	48.7	43.9	90.1	.351	17.09	15.38
New Jersey.....	4	123	5.3	48.3	45.5	94.2	.420	20.29	19.14
New York.....	3	75	3.4	48.5	29.0	69.4	.332	16.20	9.64
Pennsylvania.....	17	379	5.0	53.5	44.4	83.0	.359	19.21	15.91
Rhode Island.....	11	553	5.0	48.3	42.8	88.6	.411	19.85	17.59
Vermont.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Southern district.....	6	43	3.9	53.4	35.3	66.1	.199	10.63	7.03
Total.....	63	2,116	4.5	49.0	38.7	79.0	.379	18.57	14.66
Twister tenders, male:									
Connecticut.....	2	8	6.0	48.0	49.4	102.9	.365	17.52	18.02
Maine.....	2	2	1.0	48.0	5.4	11.3	.641	30.77	3.43
Massachusetts.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Hampshire.....	2	3	4.3	52.0	37.8	71.7	.545	28.34	20.35
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.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Vermont.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Total.....	12	37	4.1	53.0	38.1	71.9	.426	22.56	16.23
Twister tenders, female:									
Connecticut.....	8	41	3.1	48.3	26.7	54.2	.300	14.79	8.01
Maine.....	5	18	4.4	50.3	38.0	75.5	.328	16.50	12.46
Massachusetts.....	12	494	5.1	48.0	41.1	85.6	.363	17.42	14.95
New Hampshire.....	2	28	5.2	46.3	43.7	94.4	.342	15.83	14.92
New Jersey.....	4	138	5.0	48.3	42.0	87.0	.451	21.78	18.94
New York.....	5	96	4.0	48.5	31.5	64.5	.381	18.59	12.01
Pennsylvania.....	16	361	4.4	53.5	40.8	76.3	.350	18.73	14.26
Rhode Island.....	11	292	4.8	48.1	40.9	85.0	.399	19.19	16.33
Vermont.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Southern district.....	5	87	5.6	54.1	49.7	91.9	.279	16.09	13.80
Total.....	69	1,497	4.8	49.8	40.8	81.9	.365	18.18	14.87
Spooler tenders, male: Southern district.....									
	2	13	3.0	51.5	26.8	52.0	.266	13.66	7.11
Spooler tenders, female:									
Connecticut.....	12	108	4.3	48.6	36.0	74.1	.381	18.52	13.76
Maine.....	12	80	4.3	49.7	33.7	67.8	.413	20.53	13.92
Massachusetts.....	16	466	3.8	48.0	25.7	61.9	.365	18.48	11.43
New Hampshire.....	3	30	3.8	48.0	27.2	56.7	.546	26.21	14.86

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 number of days worked in 1 week	Average full-time hours per week	Average hours actually worked in 1 week	Per cent of full-time hours worked per week	Average earnings per hour	Average full-time earnings per week	Average actual earnings per week
Spooler tenders, female—Contd.									
New Jersey.....	4	65	5.2	48.2	43.2	89.4	\$0.494	\$22.41	\$20.04
New York.....	5	52	4.5	49.2	37.5	76.2	.385	17.47	13.34
Pennsylvania.....	11	70	4.5	52.8	38.9	73.7	.367	19.28	14.37
Rhode Island.....	12	171	4.8	48.3	39.7	82.2	.393	19.80	16.28
Vermont.....	3	38	5.2	48.8	45.7	93.6	.441	19.57	18.40
Southern district.....	9	70	4.4	53.2	39.4	74.1	.277	14.74	10.91
Total.....	57	1,147	4.3	48.9	34.8	71.2	.393	18.78	13.38
Creelers, male:									
Massachusetts.....	2	69	4.9	48.0	39.0	81.2	.351	16.83	13.70
Rhode Island.....	2	4	5.5	48.0	51.0	106.3	.443	21.26	22.86
Southern district.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Total.....	5	77	4.9	48.5	39.9	82.1	.346	16.82	13.79
Creelers, female:									
Massachusetts.....	2	21	4.1	48.0	33.0	68.8	.349	16.75	11.80
New Hampshire.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
New York.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Rhode Island.....	3	6	8.0	48.0	51.3	106.9	.281	12.19	14.44
Southern district.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Total.....	7	46	4.6	49.5	40.5	81.8	.321	16.39	12.37
Dresser tenders, male:									
Connecticut.....	12	64	4.3	48.6	38.8	79.8	.625	30.38	24.29
Maine.....	12	37	4.9	50.3	43.3	86.1	.608	30.48	26.22
Massachusetts.....	16	185	4.9	48.0	39.9	83.1	.665	31.92	26.49
New Hampshire.....	4	27	4.7	50.1	44.1	88.0	.675	32.82	29.74
New Jersey.....	4	23	5.6	49.3	50.3	102.0	.691	34.07	34.73
New York.....	6	43	4.2	49.6	37.8	76.2	.611	30.31	23.10
Pennsylvania.....	13	65	5.0	53.0	44.0	83.0	.800	42.40	34.16
Rhode Island.....	12	109	5.1	48.3	44.4	91.9	.667	32.22	29.60
Vermont.....	3	37	4.9	48.6	42.4	87.2	.619	29.98	26.25
Southern district.....	9	31	4.7	53.4	43.7	81.8	.318	18.87	18.78
Total.....	90	621	4.8	49.3	41.9	85.0	.650	32.06	27.28
Dresser tenders, female: Southern district.....									
	3	10	5.3	53.0	44.4	83.8	.355	18.92	15.76
Tiers-in, hand, male:									
Connecticut.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Massachusetts.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
New Hampshire.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
New York.....	3	13	4.8	49.0	48.8	99.1	.632	31.92	29.48
Rhode Island.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Southern district.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Total.....	8	23	4.4	48.9	41.5	84.9	.597	29.19	24.62
Tiers-in, hand, female:									
Massachusetts.....	2	13	5.9	48.0	47.5	99.2	.306	14.89	14.69
New Hampshire.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Southern district.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Total.....	4	18	5.8	48.6	47.3	97.3	.296	14.24	13.98
Tiers-in, machine, male:									
Maine.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Massachusetts.....	2	4	5.8	48.0	45.8	95.4	.646	26.92	24.89
New Jersey.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Rhode Island.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Total.....	5	8	5.1	49.5	42.4	85.7	.561	28.78	24.96
Drawers-in, hand, male:									
Maine.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Pennsylvania.....	3	14	5.3	53.7	44.9	83.6	.823	44.14	36.89
Southern district.....	1	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Total.....	5	17	5.4	53.9	44.2	82.0	.787	42.42	34.78

* 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 number of days worked in 1 week	Average full-time hours per week	Average hours actually worked in 1 week	Per cent of full-time hours worked per week	Average earnings per hour	Average full-time earnings per week	Average actual earnings per week
Drawers-in, hand, female:									
Connecticut.....	12	51	4.6	48.8	35.0	71.7	\$0.515	\$25.13	\$18.05
Maine.....	12	54	4.2	50.8	33.5	65.9	.508	25.81	17.03
Massachusetts.....	15	211	4.7	48.0	35.5	74.0	.511	24.53	18.12
New Hampshire.....	4	29	5.4	51.1	45.8	89.6	.428	21.77	19.53
New Jersey.....	4	22	5.5	49.8	39.9	80.1	.644	32.07	25.69
New York.....	4	31	3.0	48.4	23.9	49.4	.381	18.44	9.11
Pennsylvania.....	11	44	4.7	51.6	43.7	84.7	.500	25.80	21.84
Rhode Island.....	13	120	5.0	49.6	40.7	83.7	.537	26.10	21.87
Vermont.....	3	33	4.4	48.2	37.0	76.8	.505	24.34	18.67
Southern district.....	11	71	4.3	54.2	38.9	68.1	.299	16.21	11.65
Total.....	89	668	4.6	49.5	37.1	74.9	.489	24.21	18.11
Loom fixers, male:									
Connecticut.....	12	43	4.4	49.1	40.8	83.1	.718	35.95	29.30
Maine.....	10	57	4.7	52.1	42.9	82.3	.734	38.34	31.60
Massachusetts.....	16	191	5.1	48.2	41.6	86.3	.629	30.66	24.51
New Hampshire.....	4	28	5.4	51.5	48.1	93.4	.700	36.05	33.69
New Jersey.....	4	58	5.8	48.4	46.7	96.5	.939	46.45	43.35
New York.....	6	52	4.4	49.9	39.7	79.6	.690	34.43	27.41
Pennsylvania.....	13	61	5.3	52.4	49.3	94.1	.877	45.95	43.21
Rhode Island.....	13	135	5.3	49.1	45.3	92.3	.819	40.21	37.14
Vermont.....	3	24	5.1	48.7	45.7	93.8	.802	39.06	36.61
Southern district.....	11	62	5.0	53.2	47.3	88.9	.456	24.26	21.68
Total.....	91	701	5.1	49.8	44.1	88.6	.776	38.60	34.23
Weavers, male:									
Connecticut.....	12	441	4.1	48.8	34.4	70.5	.668	32.60	22.96
Maine.....	12	429	4.0	50.6	34.8	68.8	.607	30.71	21.16
Massachusetts.....	15	1,004	5.0	47.8	40.4	84.5	.615	29.40	24.35
New Hampshire.....	4	228	5.3	50.8	44.8	88.2	.601	30.83	26.89
New Jersey.....	4	346	5.1	48.9	43.6	89.2	.686	33.55	29.93
New York.....	6	155	5.4	50.8	38.7	76.2	.651	33.07	25.22
Pennsylvania.....	13	298	4.9	53.3	45.1	84.6	.613	32.67	27.63
Rhode Island.....	13	789	5.2	49.9	43.5	86.8	.656	32.14	28.52
Vermont.....	3	134	5.0	48.2	40.2	83.4	.656	31.62	26.37
Southern district.....	11	463	4.7	53.5	42.1	78.7	.421	22.53	17.73
Total.....	93	4,187	4.8	49.8	40.7	81.7	.611	30.43	24.85
Weavers, female:									
Connecticut.....	11	77	4.1	49.1	34.1	69.5	.591	29.02	20.16
Maine.....	11	200	3.7	50.9	30.8	60.5	.528	26.88	16.02
Massachusetts.....	13	453	5.2	48.0	41.6	86.7	.567	27.22	22.68
New Hampshire.....	4	74	5.2	50.8	42.2	83.1	.504	25.60	21.30
New Jersey.....	4	278	3.9	48.3	31.4	65.0	.693	33.47	21.74
New York.....	6	202	4.0	49.6	35.4	71.4	.576	28.67	20.42
Pennsylvania.....	12	170	4.9	51.8	45.5	87.8	.554	29.23	25.64
Rhode Island.....	8	233	5.6	48.2	44.8	92.9	.670	32.47	28.57
Vermont.....	2	64	5.1	51.0	44.1	86.5	.675	33.33	28.38
Southern district.....	10	261	4.5	52.4	38.4	73.3	.304	16.93	11.65
Total.....	81	2,013	4.7	49.6	38.6	77.8	.544	28.98	20.98
Cloth inspectors, male:									
Connecticut.....	2	6	5.3	49.9	45.3	91.9	.421	20.76	19.06
Maine.....	3	17	4.0	52.9	37.2	70.3	.551	29.15	20.46
Massachusetts.....	3	171	4.5	48.0	36.6	76.3	.538	25.82	19.69
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	5	9	5.2	52.8	45.4	91.7	.613	32.37	29.71
Rhode Island.....	3	22	6.0	48.8	57.1	117.0	.687	33.65	33.54
Southern district.....	4	7	6.0	52.4	47.4	90.5	.406	21.27	19.24
Total.....	27	241	4.7	49.0	39.6	80.8	.538	28.36	21.31
Cloth inspectors, female:									
Maine.....	3	6	5.3	54.0	49.0	90.7	.329	17.77	16.13
Massachusetts.....	5	34	3.9	48.0	32.6	67.9	.491	19.26	13.08
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

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 number of days worked in 1 week	Average full-time hours per week	Average hours actually worked in 1 week	Per cent of full-time hours worked per week	Average earnings per hour	Average full-time earnings per week	Average actual earnings per week
Cloth inspectors, female—Con.									
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	3	45	4.6	48.0	38.3	79.8	\$2.363	\$17.43	\$13.08
Vermont.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Southern district.....	4	18	5.6	54.2	51.6	95.2	.247	13.30	12.73
Total.....	18	144	4.6	49.0	38.7	79.0	.364	17.84	14.11
Burlers, female:									
Connecticut.....	12	173	4.4	48.8	35.5	72.7	.328	16.01	11.63
Maine.....	12	112	4.1	40.8	32.8	80.5	.352	17.88	14.47
Massachusetts.....	15	734	4.0	48.0	35.4	73.8	.360	18.72	13.86
New Hampshire.....	4	152	5.1	51.2	42.3	82.5	.309	15.95	13.10
New Jersey.....	4	109	5.1	49.4	39.5	80.0	.433	21.39	17.08
New York.....	6	166	4.1	48.8	35.7	73.2	.236	18.40	12.02
Pennsylvania.....	13	181	5.0	52.5	41.8	79.6	.247	18.22	14.60
Rhode Island.....	12	370	4.9	48.6	41.4	85.4	.339	16.70	14.01
Vermont.....	3	86	3.7	48.1	45.2	94.0	.249	11.98	11.27
Southern district.....	11	183	4.8	53.9	44.5	82.6	.198	10.88	8.74
Total.....	93	2,258	4.7	49.4	38.0	78.1	.330	16.76	13.09
Menders, female:									
Connecticut.....	12	143	4.3	49.2	37.7	76.6	.421	20.71	15.86
Maine.....	12	182	4.6	50.9	35.1	69.0	.421	21.43	14.90
Massachusetts.....	15	743	5.9	48.0	30.2	63.1	.303	24.14	19.70
New Hampshire.....	4	150	5.2	52.0	44.7	86.0	.374	19.46	16.73
New Jersey.....	4	124	5.1	48.8	38.5	78.9	.306	20.52	21.12
New York.....	6	153	4.5	49.0	39.1	79.8	.425	20.83	16.63
Pennsylvania.....	13	177	4.8	52.2	41.6	79.7	.474	24.74	19.71
Rhode Island.....	13	645	5.2	48.2	43.7	90.7	.494	23.23	21.16
Vermont.....	3	65	5.3	48.4	37.7	77.9	.357	17.28	13.67
Southern district.....	7	129	5.2	55.0	48.9	88.9	.249	13.70	12.16
Total.....	89	2,511	5.0	49.3	40.0	81.0	.450	22.63	18.77
Perchers, male:									
Connecticut.....	11	37	4.6	48.3	42.7	88.4	.584	28.21	24.95
Maine.....	11	23	5.0	49.1	45.7	93.1	.515	25.20	23.51
Massachusetts.....	15	203	5.2	48.1	39.5	82.7	.594	27.13	22.47
New Hampshire.....	4	22	4.8	51.5	49.2	95.5	.451	23.28	18.15
New Jersey.....	4	41	5.1	49.5	42.1	85.1	.694	32.47	27.98
New York.....	5	44	4.6	49.1	37.5	76.4	.501	24.60	18.75
Pennsylvania.....	10	28	5.6	52.2	53.1	99.8	.591	31.44	31.40
Rhode Island.....	14	139	5.4	48.1	46.2	96.0	.519	24.98	24.00
Vermont.....	3	21	6.0	48.8	60.0	102.5	.522	25.47	26.13
Southern district.....	9	23	5.5	54.8	54.0	98.9	.355	19.38	19.16
Total.....	86	570	5.2	49.0	43.4	88.6	.530	26.41	23.38
Perchers, female:									
Connecticut.....	2	3	4.3	48.0	41.4	86.3	.416	19.97	17.24
Maine.....	4	45	5.1	48.8	40.8	83.6	.309	15.08	12.62
Massachusetts.....	3	26	4.6	48.0	34.1	71.0	.443	21.28	15.14
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania.....	2	5	6.0	51.6	60.7	98.3	.515	26.57	25.13
Rhode Island.....	6	28	5.5	48.9	47.5	97.1	.424	20.73	20.15
Total.....	19	128	5.1	49.3	42.0	85.2	.394	19.42	16.65
Fullers, male:									
Connecticut.....	12	29	4.5	49.0	42.5	86.7	.492	22.64	19.68
Maine.....	11	27	4.3	50.7	47.8	94.3	.433	21.95	20.88
Massachusetts.....	15	85	3.9	48.2	33.8	70.1	.442	21.30	14.96
New Hampshire.....	4	6	5.7	49.0	48.3	94.5	.447	21.90	20.70
New Jersey.....	4	29	4.9	48.2	41.8	86.5	.560	28.60	24.65
New York.....	6	18	5.3	52.3	50.1	95.8	.482	25.21	24.16
Pennsylvania.....	7	12	5.4	53.2	55.4	104.1	.477	25.38	26.42
Rhode Island.....	10	37	5.6	48.5	52.7	108.0	.487	21.32	22.68

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 number of days worked in 1 week	Average full-time hours per week	Average hours actually worked in 1 week	Per cent of full-time hours worked per week	Average earnings per hour	Average full-time earnings per week	Average actual earnings per week
Fullers, male—Continued.									
Vermont.....	3	8	5.5	51.0	49.8	97.6	\$0.440	\$22.44	\$21.87
Southern district.....	9	19	4.8	52.9	48.4	91.5	.291	15.39	14.08
Total.....	81	270	4.7	49.6	43.4	87.5	.451	22.37	19.56
Washer tenders, cloth, male:									
Connecticut.....	10	27	4.7	49.0	45.1	92.0	.437	21.41	19.72
Maine.....	12	27	4.4	51.7	43.9	84.9	.420	21.71	18.44
Massachusetts.....	15	91	4.4	48.5	39.3	81.0	.464	22.50	18.24
New Hampshire.....	4	13	5.4	49.4	48.2	97.6	.427	21.09	20.57
New Jersey.....	4	66	5.0	48.2	43.6	90.5	.580	37.96	23.28
New York.....	6	49	4.1	51.7	41.4	80.1	.437	22.59	18.08
Pennsylvania.....	7	13	5.2	52.8	51.8	98.1	.442	24.09	24.14
Rhode Island.....	11	86	5.4	48.4	50.4	104.1	.442	21.39	22.22
Vermont.....	3	8	4.9	50.0	44.8	89.6	.434	21.70	19.45
Southern district.....	10	22	5.9	54.9	50.9	103.6	.275	15.10	15.65
Total.....	82	405	4.9	49.6	45.1	90.9	.455	22.57	20.54
Dryer tenders, cloth, male:									
Connecticut.....	10	18	4.8	49.6	46.3	93.2	.431	20.05	19.06
Maine.....	12	32	4.2	52.2	38.3	73.4	.428	22.24	16.37
Massachusetts.....	15	61	4.2	49.0	35.9	73.3	.430	21.07	15.44
New Hampshire.....	4	12	5.6	49.5	50.9	102.8	.426	21.09	21.71
New Jersey.....	4	20	5.2	48.3	47.6	98.6	.567	37.39	26.06
New York.....	6	17	4.9	50.5	45.4	89.9	.424	21.41	19.23
Pennsylvania.....	9	13	5.0	52.5	51.5	98.1	.452	25.31	24.85
Rhode Island.....	11	30	5.7	48.8	55.8	114.4	.427	20.75	23.76
Vermont.....	3	11	5.1	51.6	49.2	95.5	.410	21.16	19.09
Southern district.....	9	20	5.4	54.5	50.0	102.8	.277	15.10	15.53
Total.....	83	237	4.8	50.2	45.1	89.8	.433	21.74	19.54
Truckers, male:									
Connecticut.....	12	56	4.5	48.9	41.3	84.5	.400	19.56	16.50
Maine.....	12	117	4.4	51.6	39.9	77.3	.417	21.52	16.65
Massachusetts.....	16	554	4.7	48.0	36.2	75.3	.409	19.63	15.81
New Hampshire.....	4	79	5.3	50.8	48.4	95.3	.366	18.59	17.70
New Jersey.....	4	68	5.3	48.1	45.4	94.5	.524	28.26	23.77
New York.....	4	54	4.6	50.1	44.5	88.8	.395	19.79	16.39
Pennsylvania.....	20	56	4.9	52.7	41.5	78.7	.395	20.62	18.06
Rhode Island.....	14	271	5.4	48.4	45.7	94.6	.361	17.47	16.74
Vermont.....	3	28	5.1	48.4	44.0	90.9	.407	19.70	17.90
Southern district.....	12	62	5.2	53.3	48.6	91.2	.262	13.96	12.76
Total.....	103	1,555	4.9	49.9	41.4	84.7	.396	19.26	16.39
Truckers, female:									
Maine.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Massachusetts.....	2	47	3.4	48.0	26.3	55.0	.289	13.67	8.17
New Hampshire.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New York.....	3	10	3.5	49.6	31.4	63.3	.323	16.02	10.12
Pennsylvania.....	2	31	4.5	54.0	43.3	80.2	.323	17.44	14.01
Rhode Island.....	2	2	5.0	48.0	40.5	84.4	.307	14.74	12.43
Total.....	11	112	4.1	49.9	35.7	71.5	.292	14.67	10.44
Dye house laborers, male:									
Connecticut.....	9	68	4.8	49.1	43.7	89.0	.443	21.75	19.34
Maine.....	12	70	4.6	50.7	43.5	85.8	.423	21.45	18.40
Massachusetts.....	16	347	4.2	49.0	38.7	79.0	.454	22.25	17.55
New Hampshire.....	4	36	5.5	51.2	49.5	96.7	.411	21.04	20.34
New Jersey.....	4	85	5.3	48.7	50.5	103.7	.572	37.86	28.91
New York.....	6	58	4.4	50.6	40.6	80.2	.438	22.16	17.80
Pennsylvania.....	7	32	5.3	54.3	51.9	95.6	.451	24.49	23.39
Rhode Island.....	11	139	5.2	48.1	51.2	106.4	.440	21.18	23.51
Vermont.....	3	9	5.4	48.9	51.0	104.3	.430	21.03	21.94
Southern district.....	10	100	5.2	52.9	52.4	99.1	.290	14.61	14.69
Total.....	82	944	4.7	49.8	44.9	90.2	.436	21.71	19.55

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 number of days worked in 1 week	Average full-time hours per week	Average hours actually worked in 1 week	Per cent of full-time hours worked per week	Average earnings per hour	Average full-time earnings per week	Average actual earnings per week
Other employees, male:									
Connecticut.....	12	304	4.8	49.3	43.4	88.0	\$0.477	\$24.01	\$21.16
Maine.....	12	435	4.6	51.3	45.3	88.3	.490	24.62	21.75
Massachusetts.....	16	2,943	4.8	48.5	40.7	83.9	.499	24.20	20.33
New Hampshire.....	4	290	5.5	51.8	49.9	96.9	.412	21.22	20.58
New Jersey.....	4	544	5.1	48.2	43.9	91.1	.545	28.08	26.10
New York.....	8	343	4.7	50.5	42.5	84.2	.495	25.00	21.08
Pennsylvania.....	22	515	5.1	53.4	48.4	90.6	.470	25.10	22.76
Rhode Island.....	14	1,165	5.5	48.5	49.1	101.2	.467	22.65	22.91
Vermont.....	3	173	5.4	48.8	47.1	96.5	.472	23.08	22.20
Southern district.....	12	517	5.3	54.2	51.0	94.1	.337	18.37	17.19
Total.....	105	7,238	5.0	49.7	44.6	89.7	.479	23.81	21.34
Other employees, female:									
Connecticut.....	9	58	4.6	48.4	38.5	79.8	.790	14.04	11.18
Maine.....	10	58	5.0	50.8	42.4	83.5	.318	16.15	12.50
Massachusetts.....	16	725	4.4	48.0	34.0	72.7	.812	15.94	11.59
New Hampshire.....	3	119	5.0	50.4	42.4	84.1	.322	16.23	13.67
New Jersey.....	4	331	4.7	48.2	38.7	80.3	.492	22.71	19.06
New York.....	6	51	4.6	49.1	39.3	80.0	.344	16.90	13.51
Pennsylvania.....	21	402	4.5	52.5	40.4	75.5	.347	18.03	13.03
Rhode Island.....	12	350	5.3	48.1	44.4	92.3	.310	14.91	13.77
Vermont.....	2	16	5.1	48.0	42.8	89.2	.301	14.45	13.08
Southern district.....	9	207	5.2	54.8	47.0	85.8	.316	11.84	10.14
Total.....	93	2,317	4.7	49.8	39.7	79.7	.337	16.78	13.41
All employees, male:									
Connecticut.....	12	1,385	4.5	48.9	39.8	81.0	.554	27.09	21.93
Maine.....	12	1,064	4.4	51.1	39.8	77.9	.526	26.98	20.94
Massachusetts.....	16	5,096	4.6	48.5	39.0	80.4	.515	24.94	20.11
New Hampshire.....	4	976	5.4	51.3	48.2	94.0	.490	25.14	23.65
New Jersey.....	4	1,411	5.1	48.4	44.2	91.3	.630	30.49	27.84
New York.....	6	1,035	4.6	50.8	42.0	82.7	.522	26.67	21.92
Pennsylvania.....	22	1,417	5.0	53.5	46.7	87.3	.543	30.06	25.20
Rhode Island.....	14	3,313	5.4	48.7	47.3	97.1	.531	25.89	25.14
Vermont.....	3	571	5.2	48.9	45.1	92.2	.545	26.85	24.58
Southern district.....	12	1,723	4.9	53.5	46.7	87.3	.346	18.62	16.32
Total.....	105	21,591	4.8	49.7	42.6	85.7	.516	25.66	21.97
All employees, female:									
Connecticut.....	12	654	4.5	48.9	35.7	75.0	.397	19.41	14.20
Maine.....	12	933	4.0	50.9	32.7	64.3	.415	21.12	13.56
Massachusetts.....	16	6,734	4.4	48.0	34.8	72.5	.409	19.63	14.24
New Hampshire.....	4	971	5.1	50.0	42.9	85.8	.348	17.40	14.94
New Jersey.....	4	1,573	4.8	48.4	39.5	81.6	.503	24.35	19.95
New York.....	6	1,097	3.9	49.1	34.2	69.9	.313	19.20	13.46
Pennsylvania.....	22	2,563	4.5	53.2	42.1	79.1	.402	19.21	15.29
Rhode Island.....	14	3,531	5.2	48.2	43.7	90.7	.374	19.26	17.55
Vermont.....	3	453	5.3	48.6	43.8	90.1	.374	17.99	15.88
Southern district.....	12	1,260	4.8	53.8	43.1	80.1	.250	13.45	10.76
Total.....	105	19,809	4.7	49.5	38.6	78.4	.392	19.40	15.19
All employees:									
Connecticut.....	12	2,049	4.4	48.9	38.3	78.2	.507	24.79	19.43
Maine.....	12	2,397	4.3	51.0	37.3	75.1	.491	26.94	18.29
Massachusetts.....	16	14,830	4.5	48.3	37.1	76.5	.479	22.70	17.44
New Hampshire.....	4	1,947	5.2	50.7	45.0	89.9	.424	21.50	19.90
New Jersey.....	4	2,989	5.0	48.4	41.7	86.2	.367	27.44	23.65
New York.....	6	2,132	4.2	50.0	38.0	76.0	.493	23.15	17.50
Pennsylvania.....	22	4,000	4.7	52.3	43.7	82.0	.422	23.03	18.95
Rhode Island.....	14	5,844	5.2	48.5	45.5	93.8	.467	22.65	21.23
Vermont.....	3	1,029	5.3	48.8	44.6	91.4	.496	22.74	20.75
Southern district.....	12	2,963	4.9	53.6	45.3	84.3	.206	15.51	12.91
Total.....	105	41,400	4.8	49.5	40.7	82.1	.460	22.62	18.79

¹ Data included in total.

TABLE B.—Average and classified earnings per hour in 13 specified occupations, 1950, by sex and State

Occupation, sex, and State	Number of establishments	Number of employees	Average earnings per hour	Number of employees whose earnings (in cents) per hour were—																	
				Under 14	14, under 16	16, under 18	18, under 20	20, under 25	25, under 30	30, under 35	35, under 40	40, under 45	45, under 50	50, under 60	60, under 70	70, under 80	80, under 90	90, under 100	100, under 110	110, under 125	125, and over
Wool sorters, male:																					
Connecticut.....	2	3	\$0.643											2				1			
Maine.....	2	40	.737												1	30					
Massachusetts.....	3	300	.732						2	21		1	2	10	104	70					
New Hampshire.....	2	33	.633							1	3	2	6	14	7						
New Jersey.....	3	25	.767										1	3	10	11					
New York.....	3	14	.686											1	13	1					
Pennsylvania.....	7	34	.694										3	20	10	1					
Rhode Island.....	3	53	.909												8	6	38				1
Southern district.....	1	(1)	(1)											(1)							
Total.....	29	503	.742						2	22	3	3	15	61	269	89	38				1
Wool sorters, female:																					
Massachusetts.....	2	49	.641								7	2	6	7	27						
Southern district.....	1	(1)	(1)			(1)	(1)														
Total.....	3	63	.607			1	13				7	2	6	7	27						
Card tenders, male:																					
Connecticut.....	10	67	.403						2	27	24	3	1								
Maine.....	11	48	.409						1	20	23	4									
Massachusetts.....	13	177	.401					3	18	60	102	4									
New Hampshire.....	3	29	.422						2	7	11	2									
New Jersey.....	3	49	.572								8	3	20	18							
New York.....	5	64	.443						5	14	20	17	8								
Pennsylvania.....	12	69	.423						4	16	31	5	2	11							
Rhode Island.....	6	54	.383					1	10	30	9	3	1								
Vermont.....	3	31	.447						6	7	7	12	6								
Southern district.....	10	74	.291			4	12	31	17	8	3	4									
Total.....	78	652	.409			4	12	35	65	187	238	64	38	29							
Card tenders, female:																					
Maine.....	3	11	.367						7		4										
Massachusetts.....	2	66	.379							44	22										
New Hampshire.....	1	(1)	(1)					(1)	(1)												
New Jersey.....	1	(1)	(1)									(1)									

¹Data included in total.

TABLE B.—Average and classified earnings per hour in 13 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 (in cents) per hour were—																		
				Under 14	14, under 16	16, under 18	18, under 20	20, under 25	25, under 30	30, under 35	35, under 40	40, under 45	45, under 50	50, under 60	60, under 70	70, under 80	80, under 90	90, under 100	100, under 110	110, under 125	125, and over	
Card tenders, female—Contd.																						
Rhode Island.....	1	(1)	(1)						(1)	(1)												
Vermont.....	1	(1)	(1)						(1)													
Total.....	9	105	\$0.374						5	21	44	26	9									
Drawing-frame tenders, male:																						
Massachusetts.....	4	185	.386							1	156	23	5									
New Hampshire.....	1	(1)	(1)						(1)	(1)	(1)											
New York.....	1	(1)	(1)									(1)										
Rhode Island.....	2	14	.493								1	1	8	2	1	1						
Southern district.....	1	(1)	(1)						(1)													
Total.....	9	209	.390						6	3	158	25	13	2	1	1						
Drawing-frame tenders, female:																						
Maine.....	1	(1)	(1)							(1)	(1)	(1)										
Massachusetts.....	6	901	.378			1	1	5	2	37	788	29	20	15	2	1						
New Hampshire.....	1	(1)	(1)					(1)	(1)	(1)	(1)											
New Jersey.....	3	145	.442							3	21	30	91									
New York.....	3	101	.298							82	5	14										
Pennsylvania.....	8	333	.315					6	83	167	77											
Rhode Island.....	6	322	.349						17	198	30	34	43									
Vermont.....	1	(1)	(1)								(1)											
Southern district.....	1	(1)	(1)					(1)	(1)													
Total.....	29	1,983	.358			1	1	17	211	454	1,021	106	154	15	2	1						
Spinners, mule, male:																						
Connecticut.....	11	146	.669									1	14	80	62	14	14	10	1			
Maine.....	11	152	.672										2	32	45	40	18	7	1	1		
Massachusetts.....	11	308	.666						1		5	28	8	44	86	82	28	12	2			
New Hampshire.....	4	62	.742										2	10	10	21	12	6	1			
New Jersey.....	3	58	.758										5	1	1	9	4	28				
New York.....	4	71	.677							3	1	2	4	39	23	1						
Pennsylvania.....	11	115	.561							1	2	7	12	45	33	13						
Rhode Island.....	4	106	.688							1		3	3	1	23	25	34	19				
Vermont.....	3	58	.646											3	21	13	14	3	1			

Southern district.....	9	145	.355				23	10	54	2	8	8	22	8					
Total.....	71	1,223	.620				33	14	56	10	54	55	288	295	233	134	86	5	1
Spinners, mule, female: Southern district.....	8	9	.359					5	1				2						
Spinners, frame, male:																			
Massachusetts.....	3	53	.403							37	9	7							
Southern district.....	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)		(1)									
Total.....	4	73	.365	5	1	4	5	4		35	9	7							
Spinners, frame, female:																			
Maine.....	1	(1)	(1)						(1)	(1)	(1)								
Massachusetts.....	7	473	.418				1	1	3	168	175	125							
New Hampshire.....	1	(1)	(1)				(1)	(1)	(1)	(1)									
New Jersey.....	3	139	.454						6	15		93	25						
New York.....	2	52	.298					27	25										
Pennsylvania.....	7	186	.337				5	20	61	81	10								
Rhode Island.....	6	224	.370						156	19	3	59							
Vermont.....	2	30	.378						3	27									
Southern district.....	5	74	.266				1	1	23	40									
Total.....	34	1,301	.390				1	1	34	108	311	312	232	277	25				
Doffers, male:																			
Rhode Island.....	1	(1)	(1)					(1)	(1)	(1)		(1)							
Southern district.....	3	13	.195						2	1									
Total.....	4	21	.237						2	4	2	2		1					
Doffers, female:																			
Maine.....	1	(1)	(1)						(1)	(1)									
Massachusetts.....	5	233	.205					9	95	94	21	13	1						
New Hampshire.....	1	(1)	(1)				(1)	(1)	(1)	(1)									
New Jersey.....	1	(1)	(1)						(1)	(1)									
New York.....	2	42	.238					41		1									
Pennsylvania.....	6	151	.204				1	68	83	24	4	1							
Rhode Island.....	5	125	.265					78	33	3	11								
Vermont.....	1	(1)	(1)						(1)	(1)									
Southern district.....	2	30	.170					19	11										
Total.....	24	698	.269				19	1	259	209	153	42	14	1					
Spooler tenders, male: Southern district.....	2	13	.265					1	12										
Spooler tenders, female:																			
Connecticut.....	12	105	.381						43	18	10	11	11	10	2				
Maine.....	12	80	.413						5	19	17	7	12	18	1				
Massachusetts.....	15	456	.385	1		1	4	9	19	190	75	64	45	34	22	1			
New Hampshire.....	3	30	.545							1		5	6	8	8	2			

¹Data included in total.

TABLE B.—Average and classified earnings per hour in 15 specified occupations, 1930, by sex and State—Continued

Occupation, sex, and State	Number of establishments	Number of employes	Average earnings per hour	Number of employees whose earnings (in cents) per hour were—															
				Under 14	14, under 16	16, under 18	18, under 20	20, under 25	25, under 30	30, under 35	35, under 40	40, under 45	45, under 50	50, under 60	60, under 70	70, under 80	80, under 90	90, under 100	100, under 110
Spooler tenders, female—Con.																			
New Jersey.....	4	65	\$0.464							4	5	26	11	19	1				
New York.....	6	52	.355																
Pennsylvania.....	11	70	.367					1	10	15	13	8	2	3					
Rhode Island.....	12	171	.385						9	22	16	7	9	6		1			
Vermont.....	3	58	.341			1			40	34	27	25	34	9	1				
Southern district.....	9	70	.377		4	3	5	19	17	5	1	13							
Total.....	87	1,147	.383	1	5	10	9	31	158	311	171	170	135	107	35	4			
Loom fixers, male:																			
Connecticut.....	12	43	.718											1	16	23	3		
Maine.....	10	57	.734											1	12	34	10		
Massachusetts.....	15	191	.829												9	48	106	19	4
New Hampshire.....	4	26	.700										2	2	2	7	10		
New Jersey.....	4	58	.939												2	6	13	23	11
New York.....	6	52	.690													6	13	23	11
Pennsylvania.....	13	51	.877											1	27	16	8	25	5
Rhode Island.....	13	135	.819												10	1	9	25	5
Vermont.....	3	24	.903													45	77	10	2
Southern district.....	11	62	.456							5	5	15	5	29		15	1	6	
Total.....	91	701	.776							5	5	15	7	45	75	195	237	36	22
Weavers, male:																			
Connecticut.....	12	441	.698					1			10	17	54	85	92		41	25	11
Maine.....	12	429	.697					2	5	3	34	42	28	76	81	41	42	19	5
Massachusetts.....	16	1,004	.815	1		2		13	13	17	54	59	85	227	232	146	67	26	10
New Hampshire.....	4	223	.601				2	1	6	7	7	13	15	42	53	45	19	4	1
New Jersey.....	4	246	.656					1		2	9	10	3	43	56	57	49	11	2
New York.....	6	155	.651					1		2	6	10	3	25	43	39	18	4	1
Pennsylvania.....	13	295	.613					2	1	3	6	14	15	28	102	30	14	5	
Rhode Island.....	13	789	.656			1		2	7	9	13	21	59	157	198	126	86	21	11
Vermont.....	3	134	.666			1		1	2	4	5	5	4	24	45	15	10	7	5
Southern district.....	11	463	.421	5	3	6	3	26	54	25	65	41	80	101	25	30	1		
Total.....	93	4,187	.611	6	3	11	10	51	86	87	304	302	539	664	969	711	344	121	67

Weavers, female:																			
Connecticut.....	11	77	.591				1				3	4	6	8	25	16	12	1	1
Maine.....	11	200	.528		1	1	5	7	15	18	17	27	50	50	27	17	14	14	5
Massachusetts.....	13	463	.567	1	1	4	2	12	19	36	50	50	110	89	81	22	4	2	1
New Hampshire.....	4	74	.504		1	4	5	6	5	10	8	2	14	8	11	4	4		
New Jersey.....	4	278	.693					2	2	5	1	3	37	72	98	43	16	3	
New York.....	6	202	.576			1		4	12	8	23	24	50	36	28	12	3	1	
Pennsylvania.....	12	170	.564				1	3	6	5	15	24	57	32	22	3	3	1	
Rhode Island.....	8	233	.570				1	2	1	5	16	32	38	59	22	5	5	2	1
Vermont.....	2	64	.575					2		5	6	10	14	10	5	7			
Southern district.....	10	261	.304	8	10	14	15	45	33	37	44	27	14	12					
Total.....	81	2,012	.544	9	12	20	20	68	69	100	135	168	194	457	348	268	111	37	5
Burlers, female:																			
Connecticut.....	12	173	.328	2		1	2	13	55	34	17	18	9	11	7	5			1
Maine.....	12	112	.352					12	26	32	7	20	5	2	7				
Massachusetts.....	10	724	.390			1	3	10	113	229	70	63	51	94	53	6		1	
New Hampshire.....	4	152	.309					26	46	47	15	9	6	1	2				
New Jersey.....	4	109	.432			1		3	8	2	10	29	44	5					
New York.....	6	168	.336					17	59	39	37	1	3	2	9	1			
Pennsylvania.....	13	181	.347		1		2	7	41	46	45	14	10	4	2				
Rhode Island.....	12	370	.338	5	9	8	9	13	86	84	45	65	25	21					
Vermont.....	3	86	.249			1	13	37	13	23									
Southern district.....	11	183	.196	31	19	29	11	61	29	3									
Total.....	92	2,259	.339	38	29	41	40	199	476	539	255	249	160	140	80	10		1	1
Manders, female:																			
Connecticut.....	12	143	.421					16	22	18	21	52	8	4			2		
Maine.....	12	182	.421				1	12	12	11	94	28	19	4	1				
Massachusetts.....	15	743	.503				7	18	51	121	100	106	167	96	51	20	6	3	
New Hampshire.....	4	160	.374				11	22	26	41	12	33	5						
New Jersey.....	4	124	.605							1		12	45	45	17				
New York.....	6	163	.425					1	94	3	10	9	22	5	1	4	2	3	
Pennsylvania.....	13	177	.474		1		4	7	16	23	19	27	40	22	3	7	6	1	
Rhode Island.....	13	645	.484				1	15	53	87	89	126	164	93	14	2	1		
Vermont.....	3	65	.357			2	1	12	12	11	4	5	8	1	1				
Southern district.....	7	129	.249	5	19	2	1	30	52	11	2	3	1	2					
Total.....	89	2,511	.459	5	20	4	3	66	152	296	312	353	402	480	270	83	38	15	7
Truckers, male:																			
Connecticut.....	12	56	.400					10	7	10	14	8	6	1					
Maine.....	12	117	.417					1	16	29	35	27	9						
Massachusetts.....	16	654	.409			7		10	46	327	324	52	79	8					
New Hampshire.....	4	79	.368					19	22	11	20	5	2						
New Jersey.....	4	68	.524					1	1	6	2	0	46	2	2				
New York.....	6	54	.395					1	16	10	6	2	17	8	2				
Pennsylvania.....	20	56	.385				5	8	8	10	10	3	4	5	2				
Rhode Island.....	14	271	.361				17	53	50	57	59	25	10						

TABLE B.—Average and classified earnings per hour in 15 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 (in cents) per hour were—																	
				Under 14	14, under 16	16, under 18	18, under 20	20, under 25	25, under 30	30, under 35	35, under 40	40, under 45	45, under 50	50, under 60	60, under 70	70, under 80	80, under 90	90, under 100	100, under 110	110, under 125	125, and over
Truckers, male—Continued.																					
Vermont.....	3	38	\$0.407							5	1	25	4	3							
Southern district.....	12	62	.262		1	1	5	20	15	12	7		1								
Total.....	103	1,655	.396		1	8	5	46	116	182	468	506	142	161	16	4					
Truckers, female:																					
Maine.....	1	(1)	(1)							(1)											
Massachusetts.....	2	47	.289					1	34	9	3										
New Hampshire.....	1	(1)	(1)					(1)	(1)	(1)											
New York.....	3	10	.323						3	6	1										
Pennsylvania.....	2	31	.323						5	25	1										
Rhode Island.....	2	2	.307						1	1	1										
Total.....	11	113	.392					21	44	43	5										
Dye-house laborers, male:																					
Connecticut.....	9	68	.443							8	32	28	2								
Maine.....	12	70	.423							21	34	10	5								
Massachusetts.....	18	347	.454							8	185	118	34	1							
New Hampshire.....	4	36	.411							10	25	1									
New Jersey.....	4	85	.372									21	15	65							
New York.....	6	58	.438							11	35	9	2	1							
Pennsylvania.....	7	32	.451							9	1	3	11	7	2						
Rhode Island.....	11	139	.440								16	94	15	13	1						
Vermont.....	3	9	.430							1	4	4									
Southern district.....	10	100	.280		2		1	22	45	11	13	5			1						
Total.....	82	944	.436		2		1	22	45	20	89	417	215	81	82						

¹ Data included in total.

TABLE C.—Average and classified full-time hours per week in 13 specified occupations, 1930, by sex and State

Occupation, sex, and State	Number of establishments	Number of employees	Average full-time hours per week	Number of employees whose full-time hours per week were—							
				Under 48	48	Over 48, under 54	54	Over 54, under 57	57, under 60	60	Over 60
Wool sorters, male:											
Connecticut	2	3	50.0		2		1				
Maine	2	40	54.0				40				
Massachusetts	6	300	48.0		300						
New Hampshire	2	33	53.5		3		30				
New Jersey	3	25	48.0		25						
New York	3	14	50.6			14					
Pennsylvania	7	34	54.0				34				
Rhode Island	3	53	48.0		53						
Southern district	1	(¹)	(¹)			(¹)					
Total	29	503	49.3		383	15	105				
Wool sorters, female:											
Massachusetts	2	49	48.0		49						
Southern district	1	(¹)	(¹)				(¹)				
Total	3	63	49.3		49		14				
Card tenders, male:											
Connecticut	10	57	48.5		48	7	2				
Maine	11	48	51.6		20	22	6				
Massachusetts	13	177	49.2		154	3	5			15	
New Hampshire	3	29	52.2		18	1	1			9	
New Jersey	3	49	48.0		49						
New York	5	64	53.6	2	49	14	44				4
Pennsylvania	12	69	53.8		8	40	21				
Rhode Island	6	54	49.6		44	6				4	
Vermont	3	31	50.3		23		6			2	
Southern district	10	74	53.2	8	23	3	14	22		4	
Total	78	682	50.8	10	356	56	118	53	22	34	4
Card tenders, female:											
Maine	3	11	48.0		11						
Massachusetts	2	66	48.0		66						
New Hampshire	1	(¹)	(¹)		(¹)						
New Jersey	1	(¹)	(¹)		(¹)						
Rhode Island	1	(¹)	(¹)		(¹)						
Vermont	1	(¹)	(¹)		(¹)						
Total	9	105	48.0		105						
Drawing-frame tenders, male:											
Massachusetts	4	185	50.4		145		6			34	
New Hampshire	1	(¹)	(¹)				(¹)				
New York	1	(¹)	(¹)		(¹)						
Rhode Island	2	14	48.6		10	4					
Southern district	1	(¹)	(¹)				(¹)				
Total	9	209	50.5		166	4	4	11		34	
Drawing-frame tenders, female:											
Maine	1	(¹)	(¹)				(¹)				
Massachusetts	6	901	48.0		901		(¹)				
New Hampshire	1	(¹)	(¹)	(¹)			(¹)				
New Jersey	3	145	48.0		145						
New York	3	101	49.5	17	19	65					
Pennsylvania	8	333	53.5			41	292				
Rhode Island	5	322	48.2		283	39					
Vermont	1	(¹)	(¹)		(¹)						
Southern district	1	(¹)	(¹)				(¹)				
Total	29	1,983	49.4	34	1,386	146	408	10			
Spinners, mule, male:											
Connecticut	11	146	48.0		115	10	8				
Maine	11	152	50.0		104	30	18				
Massachusetts	11	306	48.1		305		3				
New Hampshire	4	62	49.4		53	4				5	
New Jersey	3	58	48.0		58						
New York	4	71	52.5		9	13	49				
Pennsylvania	11	115	54.1			7	70	38			

¹ Data included in total.

TABLE C.—Average and classified full-time hours per week in 13 specified occupations, 1930, by sex and State—Continued

Occupation, sex, and State	Number of establishments	Number of employees	Average full-time hours per week	Number of employees whose full-time hours per week were—						
				Under 46	46	Over 46, under 54	54	Over 54, under 57	57, under 60	Over 60
Spinners, mule, male—Continued.										
Rhode Island	4	108	48.0		108					
Vermont	3	86	49.7		46			11		1
Southern district	9	145	53.2	24		84		28	51	11
Total	71	1,323	50.0	24	798	73	161	96	51	21
Spinners, mule, female: Southern district.										
	3	9	52.6	2				7		
Spinners, frame, male:										
Massachusetts	3	53	48.0		53					
Southern district	1	(1)	(1)		(1)					
Total	4	73	48.5		53	20				
Spinners, frame, female:										
Maine	1	(1)	(1)				(1)			
Massachusetts	7	473	48.0		473					
New Hampshire	1	(1)	(1)	(1)			(1)			
New Jersey	3	139	48.0		139					
New York	2	52	48.8	23		29				
Pennsylvania	7	186	53.5			22	163			
Rhode Island	5	234	48.2		204	30				
Vermont	2	30	48.0		30					
Southern district	5	74	54.0			6	46	22		
Total	34	1,301	49.4	29	848	68	306	22		
Dofters, male:										
Rhode Island	1	(1)	(1)		(1)	(1)				
Southern district	3	13	53.5				10	1		
Total	4	21	51.7		5	5	10	1		
Dofters, female:										
Maine	1	(1)	(1)				(1)			
Massachusetts	5	233	48.0		233					
New Hampshire	1	(1)	(1)	(1)			(1)			
New Jersey	1	(1)	(1)		(1)					
New York	2	42	46.5	21		21				
Pennsylvania	5	151	53.5			20	151			
Rhode Island	5	125	48.2		112	13				
Vermont	1	(1)	(1)		(1)					
Southern district	2	30	54.4				19	11		
Total	24	698	49.7	24	382	54	217	11		
Spooler tenders, male: Southern district.										
	2	13	51.5			11				2
Spooler tenders, female:										
Connecticut	12	108	48.6		91	8				
Maine	12	80	49.7		56	22				
Massachusetts	15	496	48.0		466					
New Hampshire	2	20	49.0		20					
New Jersey	4	66	49.2		61	4				
New York	6	52	49.2	5	10	37				
Pennsylvania	11	70	52.8		5	29	42			
Rhode Island	12	171	48.2		162		9			
Vermont	3	28	48.6		26			3		
Southern district	9	70	53.2	11		8		26	15	
Total	87	1,147	48.9	16	919	78	81	39	15	
Loom fixers, male:										
Connecticut	12	43	49.1		33	3	7			
Maine	10	57	52.1		19		7			
Massachusetts	15	191	48.2		187					2
New Hampshire	4	28	51.5		15		2			3
New Jersey	4	58	48.4		52	5				
New York	5	52	49.9	7	15	20	10			
Pennsylvania	12	51	52.4		3	12	24	7		

1 Data included in total.

TABLE C.—Average and classified full-time hours per week in 13 specified occupations, 1930, by sex and State—Continued

Occupation, sex, and State	Number of establishments	Number of employees	Average full-time hours per week	Number of employees whose full-time hours per week were—							
				Under 48	48	Over 48, under 54	54	Over 54, under 57	57, under 60	60	Over 60
Loom fixers, male—Continued.											
Rhode Island.....	13	135	49.1		119		8	6		7	
Vermont.....	3	24	48.7		22			2			
Southern district.....	11	62	53.2	8		15		21	16	2	
Total.....	91	701	49.8	15	471	55	85	45	16	14	
Weavers, male:											
Connecticut.....	12	441	48.8		360	86	45				
Maine.....	12	429	50.6		247		140	42			
Massachusetts.....	15	1,004	47.8	86	879		8			20 16	
New Hampshire.....	4	228	50.9		161		13	16		38	
New Jersey.....	4	245	48.9		208	43					
New York.....	6	155	50.8	5	37	61	52				
Pennsylvania.....	13	298	53.3		37	33	152	68		8	
Rhode Island.....	13	789	49.0		699		25	26		37	
Vermont.....	3	134	48.2		130			4			
Southern district.....	11	463	53.5	56		112		132	142	21	
Total.....	93	4,187	49.8	147	2,753	285	430	290	142	124 16	
Weavers, female:											
Connecticut.....	11	77	49.1		45	26	6				
Maine.....	11	300	50.9		104		98				
Massachusetts.....	18	453	48.0		453						
New Hampshire.....	4	74	50.8		40		34				
New Jersey.....	4	273	48.3		259	19					
New York.....	6	202	49.6	20	13	169					
Pennsylvania.....	12	170	51.8		15	86	66				
Rhode Island.....	8	233	48.2		227		6				
Vermont.....	2	64	51.0		40			24			
Southern district.....	10	261	52.4	51		60		70	76	4	
Total.....	81	2,012	49.6	71	1,196	360	211	94	76	4	
Burlers, female:											
Connecticut.....	12	173	48.8		139	19	16				
Maine.....	12	112	49.8		79		83				
Massachusetts.....	15	724	48.0		724						
New Hampshire.....	4	152	51.3		68		34				
New Jersey.....	4	109	49.4		78	81					
New York.....	6	163	48.8	38	44	85					
Pennsylvania.....	13	181	52.5		31	31	119				
Rhode Island.....	12	370	48.5		338		32				
Vermont.....	3	86	48.1		85			1			
Southern district.....	11	183	53.9	9		44		96	20	14	
Total.....	92	2,258	49.4	47	1,585	211	284	97	20	14	
Manders, female:											
Connecticut.....	12	143	49.2		105	15	23				
Maine.....	12	182	50.9		94		88				
Massachusetts.....	15	743	48.0		743						
New Hampshire.....	4	150	52.0		51		99				
New Jersey.....	4	124	48.6		104	20					
New York.....	6	153	49.0	31	39	83					
Pennsylvania.....	13	177	52.2		35	87	105				
Rhode Island.....	13	645	48.2		627		18				
Vermont.....	3	85	48.4		62			3			
Southern district.....	7	129	55.0			32		57	16	24	
Total.....	89	2,511	49.3	81	1,860	187	333	60	16	24	
Truckers, male:											
Connecticut.....	12	56	48.9		46	3	7				
Maine.....	12	117	51.6		49		60	8			
Massachusetts.....	16	854	48.0	7	835		1	9		1 1	
New Hampshire.....	4	79	50.8	3	31		41	8			
New Jersey.....	4	69	48.1		66	2				1	
New York.....	6	84	50.1	11	10	19	14				
Pennsylvania.....	20	56	52.7		4	16	82	4			
Rhode Island.....	14	271	48.4		244	13	12	2			

TABLE C.—Average and classified full-time hours per week in 15 specified occupations, 1930, by sex and State—Continued

Occupation, sex, and State	Number of establishments	Number of employees	Average full-time hours per week	Number of employees whose full-time hours per week were—							
				Under 45	45	Over 45, under 54	54	Over 54, under 57	57, under 60	60	Over 60
Truckers, male—Continued											
Vermont.....	3	38	48.4		36			2			
Southern district.....	12	62	53.8	9		9	18	11	19	1	
Total.....	108	1,555	48.9	30	1,321	62	190	30	19	2	
Truckers, female:											
Maine.....	1	(¹)	(¹)		(¹)						
Massachusetts.....	2	47	48.0		47						
New Hampshire.....	1	(¹)	(¹)	(¹)			(¹)				
New York.....	3	10	49.8	2	1	7					
Pennsylvania.....	2	31	54.0				31				
Rhode Island.....	2	2	48.0		2						
Total.....	11	113	49.9	8	51	7	47				
Dye house laborers, male:											
Connecticut.....	9	68	49.1		52	6	10				
Maine.....	12	70	50.7		34		32				
Massachusetts.....	15	347	49.0		279	30	4			28	
New Hampshire.....	4	26	51.2		17		19				
New Jersey.....	4	55	48.7		73	12					
New York.....	6	58	50.6	6	6	33	13				
Pennsylvania.....	7	32	54.8			2	11	19			
Rhode Island.....	11	129	48.1		137		2				
Vermont.....	3	9	48.9		8			1			
Southern district.....	10	100	52.9	8		37		33	20	2	
Total.....	82	944	49.8	14	610	120	91	58	30	27	

¹ Data included in total.

LIST OF BULLETINS OF THE BUREAU OF LABOR STATISTICS

The following is a list of all bulletins of the Bureau of Labor Statistics published since July, 1912, except that in the case of bulletins giving the results of periodic surveys of the bureau only the latest bulletin on any one subject is here listed.

A complete list of the reports and bulletins issued prior to July, 1912, as well as the bulletins published since that date, will be furnished on application. Bulletins marked thus () are out of print.*

Conciliation and Arbitration (including strikes and lockouts).

- *No. 124. Conciliation and arbitration in the building trades of Greater New York. [1913.]
- *No. 133. Report of the industrial council of the British Board of Trade on its inquiry into industrial agreements. [1913.]
- No. 139. Michigan copper district strike. [1914.]
- *No. 144. Industrial court of the cloak, suit, and skirt industry of New York City. [1914.]
- *No. 145. Conciliation, arbitration, and sanitation in the dress and waist industry of New York City. [1914.]
- *No. 191. Collective bargaining in the anthracite-coal industry. [1916.]
- *No. 198. Collective agreements in the men's clothing industry. [1916.]
- No. 233. Operation of the industrial disputes investigation act of Canada. [1918.]
- No. 255. Joint industrial councils in Great Britain. [1919.]
- No. 283. History of the Shipbuilding Labor Adjustment Board, 1917 to 1919.
- No. 287. National War Labor Board: History of its formation, activities, etc. [1921.]
- *No. 308. Use of Federal power in settlement of railway labor disputes. [1922.]
- No. 341. Trade agreement in the silk-ribbon industry of New York City. [1923.]
- No. 402. Collective bargaining by actors. [1926.]
- No. 468. Trade agreements, 1927.
- No. 481. Joint industrial control in the book and job printing industry. [1928.]

Cooperation.

- No. 313. Consumers' cooperative societies in the United States in 1920.
- No. 314. Cooperative credit societies (credit unions) in America and in foreign countries. [1922.]
- No. 437. Cooperative movement in the United States in 1925 (other than agricultural).
- No. 531. Consumers', credit, and productive cooperative societies, 1929. (In press.)

Employment and Unemployment.

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- *No. 389. Eleventh, Chicago, Ill., May 19-23, 1924.
- *No. 411. Twelfth, Salt Lake City, Utah, August 18-19, 1925.
- No. 429. Thirteenth, Columbus, Ohio, June 7-10, 1926.
- *No. 455. Fourteenth, Paterson, N. J., May 31 to June 3, 1927.
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- No. 281. Seventh, San Francisco, Calif., September 20-24, 1920.
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