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WAGES AND HOURS OF LABOR SERIES

**WAGES AND HOURS OF LABOR  
IN WOOLEN AND WORSTED  
GOODS MANUFACTURING, 1922**



MAY, 1923

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

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## WAGES AND HOURS OF LABOR IN WOOLEN AND WORSTED GOODS MANUFACTURING, 1922.

### INTRODUCTION AND SUMMARY.

Earnings per hour, full-time and actual earnings per week, and full-time and actual hours of work per week, in the woolen and worsted goods industry of the United States in the year 1922 are presented in this report. In addition summaries are shown for 1907-1914, 1916, 1918, 1920, and 1922. Data were not collected for 1915, 1917, 1919, and 1921.<sup>a</sup>

Nearly all of the 1922 data for this report were obtained from pay rolls for a period in March, April, May, or June. The 1922 figures cover 67 representative establishments located in 9 States in which the manufacture of woolen and worsted goods is an important industry.

The average full-time weekly earnings of male employees in the selected occupations in 1922 varied from \$14.05 for doffers to \$36.49 for loom fixers. The average full-time weekly earnings of female employees in the selected occupations varied from \$13.23 for doffers to \$33.70 for wool sorters.

A summary of the hourly earnings, full-time weekly earnings, and full-time hours per week, from 1907 to 1922, inclusive, in the principal occupations of the industry is presented in Table 1.

TABLE 1.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK, AVERAGE EARNINGS PER HOUR, AND AVERAGE FULL-TIME EARNINGS PER WEEK IN THE UNITED STATES, IN SPECIFIED YEARS, 1907 TO 1922, BY OCCUPATIONS AND SEX.

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.	Per cent of employees whose full-time hours per week were—									
							Under 48.	48	Over 48 and under 54.	54	Over 54 and under 57.	57 and under 60.	60 and over.			
Wool sorters:																
Male.....	1907	11	184	58.0	\$0.233	\$13.51	.....	.....	.....	.....	9	79	12			
	1908	11	164	57.8	.223	12.89	.....	.....	.....	.....	13	78	9			
	1909	11	186	57.9	.239	13.84	.....	.....	.....	.....	8	84	8			
	1910	18	289	56.3	.247	13.86	.....	.....	.....	.....	88	4	8			
	1911	19	444	56.4	.241	13.54	.....	.....	.....	.....	83	12	5			
	1912	19	471	55.2	.267	14.72	.....	.....	.....	.....	61	21	14			
	1913	19	246	55.0	.281	15.43	.....	.....	.....	.....	65	21	14			
	1914	15	381	54.2	.276	14.97	.....	.....	.....	.....	83	17	(1)			
	1916	17	412	54.1	.329	17.80	1	.....	.....	.....	82	17	.....			

<sup>a</sup> Previous reports of wages and hours of labor in woolen and worsted goods manufacturing have been published by the bureau, as follows: Nineteenth Annual Report, covering 1890 to 1903; Bulletin No. 59 (July 1905), covering 1903 and 1904; Bulletin No. 65 (July, 1906), covering 1904 and 1905; Bulletin No. 71 (July, 1907), covering 1905 and 1906; Bulletin No. 77 (July, 1908), covering 1906 and 1907; Bulletin No. 128 (August, 1913), covering 1907 to 1912; Bulletin No. 150 (May, 1914), covering 1912 and 1913; Bulletin No. 190 (May, 1916), covering 1913 and 1914; Bulletin No. 238 (June, 1918) covering 1914 and 1916; Bulletin No. 261 (August, 1919), covering 1916 and 1918; and Bulletin No. 289 (September, 1921), covering 1920.

<sup>1</sup> Less than 1 per cent.

TABLE 1.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK, AVERAGE EARNINGS PER HOUR, AND AVERAGE FULL-TIME EARNINGS PER WEEK IN THE UNITED STATES, IN SPECIFIED YEARS, 1907 TO 1922, BY OCCUPATIONS AND SEX.—Continued.

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.	Per cent of employees whose full-time hours per week were—													
							Under 48.	Over 48 and under 54.	Over 54 and under 57.	57 and under 60.	60 and over.									
Wool sorters—Concld.																				
Male.....	1918	20	538	54.4	\$0.460	\$24.94			87	7										5
	1920	22	423	48.1	.871	41.90		99	1											
	1922	17	358	48.4	.710	34.36		94	6											
Female.....	1920	1	28	48.0	.901	43.25		100												
	1922	3	37	48.0	.702	33.70		100												
Wool washer tenders:																				
Male.....	1920	20	113	48.8	.583	28.45		88		11										2
	1922	23	93	49.2	.446	21.94		84	1	9	1	5								
Picker tenders:																				
Male.....	1920	41	277	48.3	.530	25.60		95		5										
	1922	43	276	49.3	.428	21.10		82	5	9										5
Card tenders:																				
Male.....	1907	19	145	58.6	.126	7.38					9	48	43							
	1908	19	136	58.6	.121	7.09					10	47	43							
	1909	19	134	58.4	.124	7.24					10	55	35							
	1910	26	201	56.9	.127	7.25					66	20	14							
	1911	40	320	57.1	.136	7.73					55	35	10							
	1912	40	412	56.4	.135	7.64					39	18	33	13						
	1913	40	329	56.3	.142	8.01					32	24	36	8						
	1914	41	398	56.1	.147	8.26					46	18	19	18						
	1916	47	533	55.8	.186	10.38					47	22	15	17						
	1918	47	599	54.8	.287	15.75		3	4		62	16	1	14						
	1920	43	444	48.4	.517	25.02		(1)	94		3			2						
	1922	46	514	49.5	.405	20.05			81	4	9			4						
Female.....	1920	11	103	48.3	.437	21.11		95		5				2						4
	1922	10	109	48.2	.351	16.92		97	3											
Card strippers:																				
Male.....	1907	18	89	58.2	.145	8.44					19	43	38							
	1908	18	79	58.1	.145	8.42					19	49	32							
	1909	18	80	58.1	.151	8.77					16	53	31							
	1910	27	162	57.0	.153	8.69					64	20	16							
	1911	42	223	57.1	.151	8.62					52	37	11							
	1912	42	240	56.9	.163	9.29					29	15	39	17						
	1913	42	236	56.5	.168	9.46					27	23	45	5						
	1914	43	250	55.7	.169	9.44					48	20	20	12						
	1916	48	303	55.5	.209	11.61	(1)				52	19	18	10						
	1918	48	359	54.8	.324	17.77					76	15	2	7						
	1920	45	292	48.2	.570	27.47		96		4										
	1922	46	311	49.5	.433	21.43		84	4	8				1						4
Card grinders:																				
Male.....	1922	12	28	48.4	.491	23.76		89	7	4										
Gill box tenders:																				
Male.....	1920	8	130	49.8	.502	25.00		85		2										14
	1922	8	288	48.3	.363	17.53		96		4										
Female.....	1920	15	383	48.4	.442	21.39		93		7										
	1922	15	413	49.1	.339	16.64		81		19										
Comber tenders:																				
Male.....	1907	4	52	58.5	.133	7.78								75						25
	1908	4	29	58.6	.131	7.68								72						28
	1909	4	29	58.6	.137	8.03								72						28
	1910	6	106	56.5	.139	7.87								88						12
	1911	9	188	56.5	.141	7.94								82	10					9
	1912	9	181	55.1	.156	8.56					72	8	12	8						
	1913	9	115	54.8	.156	8.51					77	6	17							
	1914	6	228	55.8	.161	9.00					64	7								28
	1916	8	274	56.3	.199	11.18					59	1	2	38						
	1918	9	248	55.8	.314	17.49					69	1		29						
	1920	10	162	48.9	.552	26.99		93						7						
	1922	11	209	48.1	.435	20.92		98		2										
Female.....	1907	4	101	55.7	.099	5.51					78	18		4						
	1908	4	117	55.8	.099	5.52					78	17		5						
	1909	4	111	55.8	.102	5.69					77	20		4						
	1910	6	129	55.5	.111	6.13					97			3						
	1911	7	139	55.8	.109	6.10					82	15		3						
	1912	7	150	55.8	.116	6.47					82	13		5						
	1913	7	163	56.1	.117	6.57					1	15		8						
	1914	6	162	54.8	.119	6.52					25	75								
	1916	10	178	53.5	.177	9.46					48	33								
	1918	12	328	52.8	.258	13.59		2	19		55	25								
	1920	12	155	48.7	.478	23.28		89		11										
	1922	10	100	49.7	.385	19.13		71		29										

<sup>1</sup> Less than 1 per cent.

<sup>2</sup> Tabulated in previous reports as "48 and under 54."

WAGES AND HOURS OF LABOR—WOOLEN AND WORSTED GOODS. 3

TABLE 1.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK, AVERAGE EARNINGS PER HOUR, AND AVERAGE FULL-TIME EARNINGS PER WEEK IN THE UNITED STATES, IN SPECIFIED YEARS, 1907 TO 1922, BY OCCUPATIONS AND SEX—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.	Per cent of employees whose full-time hours per week were—											
							Under 48.	48	Over 48 and under 54.	54	Over 54 and under 57.	57 and under 60.	60 and over.					
<b>Drawing-frame tenders:</b>																		
<b>Male</b> .....	1916	5	211	55.0	\$0.178	\$9.80	(1)	.....	77	4	8	11						
	1918	6	193	54.1	.264	14.81	.....	.....	96	4	.....	.....						
	1920	6	51	48.0	.501	24.05	.....	<sup>1</sup> 100	.....	.....	.....	.....						
	1922	8	189	48.1	.378	18.18	.....	1	98	2	.....	.....						
<b>Female</b> .....	1916	14	1,603	53.7	.170	9.15	.....	1	<sup>2</sup> 13	62	37	2						
	1918	15	1,760	52.9	.250	13.24	.....	3	211	66	21	.....						
	1920	16	1,758	48.3	.445	21.49	.....	(1)	<sup>2</sup> 90	4	.....	.....						
	1922	17	1,615	48.5	.349	16.93	.....	.....	91	9	.....	.....						
<b>Spinners, mule:</b>																		
<b>Male</b> .....	1907	19	384	58.6	.219	12.83	.....	.....	.....	.....	13	38	49					
	1908	19	267	58.2	.215	12.51	.....	.....	.....	.....	18	43	39					
	1909	19	297	58.2	.223	12.98	.....	.....	.....	.....	16	47	37					
	1910	26	529	57.0	.224	12.75	.....	.....	.....	.....	61	26	13					
	1911	40	638	57.3	.224	12.81	.....	.....	.....	.....	49	38	13					
	1912	40	719	56.5	.240	13.56	.....	.....	.....	.....	35	15	8					
	1913	42	828	56.5	.239	13.45	.....	.....	.....	.....	30	21	11					
	1914	42	897	56.0	.249	13.88	.....	.....	.....	.....	48	17	17					
	1916	46	1,222	55.3	.316	17.51	.....	.....	.....	.....	55	17	18					
	1918	46	1,431	54.9	.499	27.42	.....	.....	.....	.....	58	24	1					
	1920	46	960	48.2	.816	39.33	.....	.....	.....	.....	<sup>2</sup> 96	.....	.....					
	1922	44	1,119	49.2	.670	32.96	.....	.....	.....	.....	82	4	1					
<b>Spinners, frame:</b>																		
<b>Male</b> .....	1910	2	114	56.0	.125	7.01	.....	.....	.....	.....	100	.....	.....					
	1911	3	194	56.0	.132	7.37	.....	.....	.....	.....	100	.....	.....					
	1912	3	244	54.0	.158	8.53	.....	.....	.....	.....	100	.....	.....					
	1913	3	115	54.0	.136	7.33	.....	.....	.....	.....	100	.....	.....					
	1914	3	282	53.9	.145	7.80	.....	.....	.....	.....	1	.....	.....					
	1916	3	266	53.9	.191	10.30	.....	.....	.....	.....	1	.....	.....					
	1918	5	161	53.0	.316	16.74	.....	.....	.....	.....	11	.....	.....					
	1920	4	49	48.0	.558	26.78	.....	.....	.....	.....	<sup>2</sup> 100	.....	.....					
	1922	4	45	48.0	.357	17.14	.....	.....	.....	.....	100	.....	.....					
<b>Female</b> .....	1907	5	323	57.6	.127	7.32	.....	.....	.....	.....	.....	15	79	5				
	1908	5	284	57.5	.122	7.02	.....	.....	.....	.....	.....	21	73	6				
	1909	5	295	57.5	.124	7.13	.....	.....	.....	.....	.....	20	75	4				
	1910	8	578	56.0	.122	6.85	.....	.....	.....	.....	.....	37	.....	3				
	1911	10	1,002	56.4	.126	7.07	.....	.....	.....	.....	.....	80	19	1				
	1912	10	1,070	55.2	.144	7.92	.....	.....	.....	.....	.....	53	32	14				
	1913	10	751	55.5	.140	7.78	.....	.....	.....	.....	.....	43	34	23				
	1914	9	970	54.2	.147	7.99	.....	.....	.....	.....	.....	75	25	.....				
	1916	14	1,302	53.9	.180	9.68	.....	.....	.....	.....	.....	70	20	2				
	1918	15	1,330	52.4	.278	14.62	.....	.....	.....	.....	.....	6	4	.....				
	1920	14	1,026	48.2	.481	23.18	.....	.....	.....	.....	.....	6	2	.....				
	1922	15	972	48.4	.345	16.70	.....	.....	.....	.....	.....	(1)	<sup>2</sup> 96	.....				
<b>Doffers:</b>																		
<b>Male</b> .....	1916	5	255	49.8	.161	8.05	.....	.....	.....	.....	.....	49	.....	.....				
	1918	5	138	50.5	.266	13.58	.....	.....	.....	.....	.....	60	.....	.....				
	1920	6	108	46.3	.497	23.01	.....	.....	.....	.....	.....	27	<sup>2</sup> 73	.....				
	1922	5	165	47.0	.299	14.05	.....	.....	.....	.....	.....	30	70	.....				
<b>Female</b> .....	1916	12	709	52.2	.135	7.05	.....	.....	.....	.....	.....	22	<sup>2</sup> 4	.....				
	1918	12	829	48.6	.203	9.85	.....	.....	.....	.....	.....	37	<sup>2</sup> 2	.....				
	1920	14	561	46.7	.352	16.44	.....	.....	.....	.....	.....	30	<sup>2</sup> 67	.....				
	1922	14	619	48.1	.275	13.23	.....	.....	.....	.....	.....	19	68	.....				
<b>Twister tenders:</b>																		
<b>Female</b> .....	1907	7	186	57.2	.112	6.41	.....	.....	.....	.....	.....	.....	.....	42	36	22		
	1908	7	138	57.6	.114	6.57	.....	.....	.....	.....	.....	.....	.....	32	41	28		
	1909	7	223	58.0	.112	6.50	.....	.....	.....	.....	.....	.....	.....	22	42	36		
	1910	10	332	56.9	.126	7.16	.....	.....	.....	.....	.....	.....	.....	68	9	23		
	1911	12	600	56.7	.131	7.40	.....	.....	.....	.....	.....	.....	.....	76	10	14		
	1912	12	751	55.7	.137	7.62	.....	.....	.....	.....	.....	.....	.....	51	28	5		
	1913	12	598	55.4	.135	7.50	.....	.....	.....	.....	.....	.....	.....	45	38	8		
	1914	11	884	54.3	.144	7.81	.....	.....	.....	.....	.....	.....	.....	74	26	.....		
	1916	23	1,028	54.2	.174	9.43	.....	.....	.....	.....	.....	(1)	<sup>2</sup> 1	.....	83	11	4	
	1918	24	802	53.9	.256	13.80	.....	.....	.....	.....	.....	.....	.....	2	2	.....		
	1920	34	1,043	48.3	.457	22.07	.....	.....	.....	.....	.....	.....	.....	2	<sup>2</sup> 88	.....		
	1922	40	892	49.3	.352	17.35	.....	.....	.....	.....	.....	.....	.....	(1)	78	.....		
<b>Spooler tenders:</b>																		
<b>Female</b> .....	1916	55	1,571	54.1	.173	9.40	.....	.....	.....	.....	.....	.....	.....	76	8	11		
	1918	56	1,514	53.6	.270	14.51	.....	.....	.....	.....	.....	.....	.....	75	18	.....		
	1920	55	1,474	48.2	.458	22.08	.....	.....	.....	.....	.....	.....	.....	1 <sup>2</sup>	9.5	.....		
	1922	59	1,247	48.7	.383	18.65	.....	.....	.....	.....	.....	.....	.....	(1)	87	.....		

<sup>1</sup> Less than 1 per cent.

<sup>2</sup> Tabulated in previous reports as "48 and under 54."

TABLE 1.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK, AVERAGE EARNINGS PER HOUR, AND AVERAGE FULL-TIME EARNINGS PER WEEK IN THE UNITED STATES, IN SPECIFIED YEARS, 1907 TO 1922, BY OCCUPATIONS AND SEX—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.	Per cent of employees whose full-time hours per week were—													
							Under 48.	48	Over 48 and under 54.	54	Over 54 and under 57.	57 and under 60.	60 and over.							
<b>Dresser tenders:</b>																				
<b>Male</b> .....	1907	19	119	58.8	\$0.224	\$13.17							5	48	47					
	1908	19	97	58.4	.225	13.14							7	62	31					
	1909	19	126	58.3	.224	13.06							13	52	34					
	1910	27	214	57.1	.242	13.80							61	18	21					
	1911	46	337	57.1	.243	13.85							58	28	14					
	1912	46	384	56.4	.262	14.71						28	35	26	71					
	1913	46	347	56.3	.263	14.80						26	37	30	1					
	1914	47	363	55.2	.273	15.03						63	17	11	9					
	1916	55	422	55.0	.318	17.47						63	19	12	5					
	1918	58	469	54.6	.452	24.28						72	22		6					
	1920	63	403	48.6	.767	37.28	(1)	91				7								
	1922	58	493	48.8	.653	31.87	(1)	87	(1)	10										2
<b>Creelers or tiers-in:</b>																				
<b>Female</b> .....	1922	3	40	47.9	.315	15.09	3	98												
<b>Drawers in:</b>																				
<b>Female</b> .....	1916	52	424	54.7	.250	13.68						63	25	12						
	1918	55	406	54.2	.355	19.23	1					78	21							
	1920	63	392	48.3	.595	28.74	1	94				4								
	1922	60	436	48.5	.480	23.28	1	90	1	8										
<b>Loom fixers:</b>																				
<b>Male</b> .....	1907	19	223	58.0	.267	15.49							14	63	23					
	1908	19	218	57.9	.262	15.17							15	69	16					
	1909	19	242	58.1	.263	15.28							12	66	22					
	1910	27	429	56.6	.279	15.76							79	9	12					
	1911	46	569	56.7	.275	15.59							68	24	8					
	1912	46	589	55.9	.308	17.13						38	32	21	9					
	1913	47	581	55.8	.297	16.55						39	31	26	4					
	1914	47	651	55.1	.312	17.18						58	27	7	7					
	1916	60	794	54.9	.381	20.70					2	60	26	10	4					
	1918	61	843	54.5	.552	30.04					1	64	20		5					
	1920	64	736	48.3	.973	47.00	(1)	95			4									
	1922	64	747	48.4	.754	36.49	(1)	92	1	6										
<b>Weavers:</b>																				
<b>Male</b> .....	1907	19	1,653	58.5	.203	11.88							11	45	44					
	1908	19	1,409	58.6	.196	11.49							3	60	37					
	1909	19	1,589	58.6	.199	11.66							3	63	34					
	1910	27	2,907	57.1	.207	11.79							65	17	19					
	1911	46	4,049	57.1	.210	11.97							60	25	14					
	1912	46	4,476	56.3	.237	13.30						33	28	24	15					
	1913	47	3,834	56.3	.232	13.06						28	32	34	6					
	1914	48	4,336	55.2	.238	13.10						60	19	11	9					
	1916	61	5,431	54.9	.304	15.95					2	64	17	14	4					
	1918	61	5,812	54.5	.470	25.52					2	73	21		4					
	1920	64	4,825	48.3	.807	38.98	1	94			4									
	1922	64	5,518	48.3	.616	29.75	2	89	1	8										
<b>Female</b> .....	1907	19	1,873	58.0	.188	10.90							15	63	22					
	1908	19	1,882	57.7	.166	9.58							18	70	12					
	1909	19	1,807	57.6	.166	9.56							22	65	13					
	1910	27	2,855	56.3	.180	10.14							84	7	9					
	1911	46	3,384	56.8	.184	10.47							63	28	9					
	1912	46	3,586	55.9	.206	11.48						39	28	25	8					
	1913	47	3,493	56.0	.197	11.03						30	32	36	2					
	1914	48	3,862	54.7	.203	11.08						54	39	8						
	1916	61	4,505	54.5	.271	14.76					4	56	32	8						
	1918	61	5,295	54.1	.406	21.96	(1)	94			4	75	21							
	1920	63	3,783	48.3	.747	36.08	(1)	95			4									
	1922	63	3,622	48.4	.576	27.85	(1)	92	2	6										
<b>Cloth inspectors:</b>																				
<b>Male</b> .....	1920	10	251	48.0	.763	36.62		100			(1)									
	1922	49	315	48.3	.560	27.05	1	94	2	3										
<b>Female</b> .....	1920	16	144	48.3	.504	24.34		96			4									
	1922	7	54	48.4	.373	18.05		93			7									
<b>Burlers:</b>																				
<b>Female</b> .....	1907	18	611	58.3	.122	7.11							9	61	30					
	1908	18	494	58.0	.116	6.73							12	69	19					
	1909	18	582	58.0	.123	7.13							13	68	20					
	1910	26	1,034	56.5	.130	7.33							81	9	10					

<sup>1</sup> Less than 1 per cent

<sup>2</sup> Tabulated in previous reports as "48 and under 54."



WAGES AND HOURS OF LABOR—WOOLEN AND WORSTED GOODS. 5

TABLE 1.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK, AVERAGE EARNINGS PER HOUR, AND AVERAGE FULL-TIME EARNINGS PER WEEK IN THE UNITED STATES, IN SPECIFIED YEARS, 1907 TO 1922, BY OCCUPATIONS AND SEX—Concluded.

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.	Per cent of employees whose full-time hours per week were—						
							Under 48.	48	Over 48 and under 54.	54	Over 54 and under 57.	57 and under 60.	60 and over.
<b>Burlers—Concluded.</b>													
Female.....	1911	43	1,516	56.8	\$0.130	\$7.36	.....	.....	.....	.....	65	27	9
	1912	44	1,562	55.9	.145	8.25	.....	.....	.....	46	17	30	7
	1913	44	1,643	55.6	.146	8.14	.....	.....	.....	52	20	26	2
	1914	44	1,756	54.6	.155	8.47	.....	.....	.....	54	40	4	.....
	1916	55	1,889	54.6	.185	10.09	(1)	21	.....	65	26	9	.....
	1918	55	1,867	54.1	.276	14.94	(1)	2	.....	80	17	.....	.....
	1920	64	2,321	48.4	.452	21.88	.....	.....	.....	1	93	5	.....
	1922	61	1,773	48.2	.371	17.88	.....	.....	.....	1	94	(1)	.....
<b>Menders:</b>													
Female.....	1907	18	403	58.5	.145	8.48	.....	.....	.....	.....	14	39	47
	1908	18	341	58.4	.148	8.64	.....	.....	.....	.....	18	33	49
	1909	18	553	58.8	.137	8.06	.....	.....	.....	.....	13	31	57
	1910	25	1,196	56.8	.160	9.09	.....	.....	.....	.....	73	10	18
	1911	44	1,623	56.8	.160	9.07	.....	.....	.....	.....	72	14	15
	1912	44	1,668	55.7	.189	10.50	.....	.....	.....	.....	53	20	14
	1913	42	1,388	55.3	.183	10.11	.....	.....	.....	.....	57	23	16
	1914	43	1,501	54.4	.195	10.57	.....	.....	.....	.....	82	5	9
	1916	53	1,767	54.3	.245	13.28	.....	.....	.....	.....	86	5	8
	1918	53	1,685	54.1	.349	18.91	.....	.....	.....	.....	91	9	.....
	1920	61	1,729	48.5	.603	29.25	.....	.....	.....	.....	1	92	.....
	1922	63	1,985	48.4	.445	21.54	.....	.....	.....	.....	3	89	1
<b>Perchers:</b>													
Male.....	1920	59	419	48.4	.687	33.25	(1)	94	.....	.....	4	.....	2
	1922	55	352	48.6	.520	25.27	(1)	92	(1)	.....	2	.....	5
Female.....	1920	13	43	49.8	.468	23.31	.....	.....	.....	.....	30	.....	.....
	1922	15	75	48.4	.432	20.91	.....	.....	.....	.....	93	.....	.....
<b>Fullers:</b>													
Male.....	1920	53	195	48.6	.590	28.67	.....	.....	.....	.....	92	.....	1
	1922	52	248	49.1	.468	22.98	.....	.....	.....	.....	85	4	7
<b>Washer tenders, cloth:</b>													
Male.....	1920	56	378	48.6	.574	27.90	.....	.....	.....	.....	93	.....	4
	1922	59	330	49.6	.461	22.87	.....	.....	.....	.....	1	81	4
<b>Dryer tenders, cloth:</b>													
Male.....	1920	56	276	48.4	.551	26.67	.....	.....	.....	.....	96	.....	3
	1922	57	219	50.3	.453	22.79	.....	.....	.....	.....	79	3	8
<b>Truckers:</b>													
Male.....	1920	62	1,205	48.1	.505	24.29	.....	.....	.....	.....	2	95	.....
	1922	60	1,334	48.2	.399	19.23	.....	.....	.....	.....	1	95	.....
<b>Laborers, dyehouse:</b>													
Male.....	1907	19	434	58.1	.144	8.37	.....	.....	.....	.....	.....	12	65
	1908	19	385	57.8	.140	8.09	.....	.....	.....	.....	.....	16	63
	1909	19	514	57.9	.137	7.93	.....	.....	.....	.....	.....	16	63
	1910	27	837	56.3	.143	8.06	.....	.....	.....	.....	.....	85	9
	1911	45	1,116	56.6	.145	8.22	.....	.....	.....	.....	.....	74	17
	1912	45	1,093	55.5	.157	8.72	.....	.....	.....	.....	.....	51	25
	1913	46	1,041	55.6	.159	8.84	.....	.....	.....	.....	.....	45	29
	1914	47	1,427	54.9	.160	8.75	.....	.....	.....	.....	.....	69	18
	1916	55	1,636	55.0	.197	10.83	.....	.....	.....	.....	.....	60	25
	1918	55	1,606	54.7	.304	16.60	(1)	2	.....	.....	.....	67	25
	1920	52	961	48.3	.564	27.24	.....	.....	.....	.....	.....	4	95
	1922	54	1,032	48.9	.435	21.32	.....	.....	.....	.....	.....	87	3
<b>Other employees:</b>													
Male.....	1914	47	13,947	55.7	.180	10.03	.....	.....	.....	.....	.....	59	18
	1916	63	16,978	55.8	.225	12.51	.....	.....	.....	.....	.....	49	26
	1918	63	17,308	55.3	.330	18.24	.....	.....	.....	.....	.....	4	93
	1920	67	7,194	48.6	.580	28.19	.....	.....	.....	.....	.....	3	91
	1922	67	7,797	49.6	.455	22.57	.....	.....	.....	.....	.....	2	82
Female.....	1914	46	7,781	54.2	.139	7.54	.....	.....	.....	.....	.....	69	24
	1916	61	6,347	53.9	.168	9.05	.....	.....	.....	.....	.....	4	95
	1918	63	6,407	53.4	.250	13.37	.....	.....	.....	.....	.....	7	94
	1920	67	3,349	48.2	.421	20.29	.....	.....	.....	.....	.....	6	87
	1922	61	3,461	48.9	.336	16.43	.....	.....	.....	.....	.....	3	83

<sup>1</sup> Less than 1 per cent.

<sup>2</sup> Tabulated in previous reports as "48 and under 54."

To aid in making comparisons from year to year, index numbers have been computed for full-time hours per week, earnings per hour, and full-time weekly earnings, for all occupations for which data are available, and for the industry for the years 1910 to 1922, inclusive. These index numbers, which are shown in Table 2, are computed from the average for each year shown in Table 1 and are simply percentages in which the figures for 1913 are used as the base, or 100 per cent. The year 1913 is used as the base, as it represents the close of a distinct economic period, and the facts for the earlier and later years are brought into direct comparison with the facts for 1913. The index number for each year preceding and subsequent to 1913 is the per cent that the average for that year is of the average for 1913. For example, Table 2 shows that relatively the full-time weekly earnings of female frame spinners in 1910 were only 88 per cent of their weekly earnings in 1913. In 1914 they were 3 per cent higher; in 1918 they were 88 per cent higher; in 1920, 198 per cent higher; and in 1922, 115 per cent higher than in 1913. The summary at the end of the table shows that the full-time weekly earnings in 1920 for the industry as a whole were more than three times the weekly earnings of 1913, but that in 1922 there was a drop to about two and one-third times the earnings of 1913, making a reduction of 24 per cent in the two-year interval from 1920 to 1922.

TABLE 2.—INDEX NUMBERS OF FULL-TIME HOURS PER WEEK, HOURLY EARNINGS, AND FULL-TIME WEEKLY EARNINGS IN THE PRINCIPAL OCCUPATIONS, FOR EACH SPECIFIED YEAR, 1910 TO 1922.

(1913=100.)

Occupation, sex, and year.	Index numbers of—			Occupation, sex, and year.	Index numbers of—		
	Full-time hours per week.	Hourly earnings.	Full-time weekly earnings.		Full-time hours per week.	Hourly earnings.	Full-time weekly earnings.
<b>Wool sorters:</b>				<b>Comber tenders—Concl'd.</b>			
Male.....1910..	102	88	90	Male.....1913..	100	100	100
1911..	103	86	88	1914..	102	103	106
1912..	100	95	95	1916..	103	128	131
1913..	100	100	100	1918..	102	201	206
1914..	99	98	97	1920..	89	354	317
1916..	98	117	115	1922..	88	279	246
1918..	99	164	162	Female.....1910..	99	95	93
1920..	87	310	272	1911..	99	93	93
1922..	88	253	223	1912..	99	99	98
<b>Card tenders:</b>				1913..	100	100	100
Male.....1910..	101	89	91	1914..	98	102	99
1911..	101	96	97	1916..	95	151	144
1912..	100	95	95	1918..	94	221	207
1913..	100	100	100	1920..	87	409	354
1914..	100	104	103	1922..	89	320	291
1916..	99	131	130	<b>Spinners, mule:</b>			
1918..	97	202	197	Male.....1910..	101	94	95
1920..	86	364	312	1911..	101	94	95
1922..	88	285	250	1912..	100	100	101
<b>Card strippers:</b>				1913..	100	100	100
Male.....1910..	101	91	92	1914..	99	104	103
1911..	101	90	91	1916..	98	132	130
1912..	101	97	98	1918..	97	209	204
1913..	100	100	100	1920..	85	341	292
1914..	99	101	100	1922..	87	280	245
1916..	98	124	123	<b>Spinners, frame:</b>			
1918..	97	193	188	Male.....1910..	104	92	96
1920..	85	339	290	1911..	104	97	101
1922..	88	258	227	1912..	100	116	116
<b>Comber tenders:</b>				1913..	100	100	100
Male.....1910..	103	89	92	1914..	100	106	106
1911..	103	90	93	1916..	100	141	141
1912..	101	100	101	1918..	98	232	228

TABLE 2.—INDEX NUMBERS OF FULL-TIME HOURS PER WEEK, HOURLY EARNINGS, AND FULL-TIME WEEKLY EARNINGS IN THE PRINCIPAL OCCUPATIONS, FOR EACH SPECIFIED YEAR, 1910 TO 1922—Concluded.

Occupation, sex, and year.	Index numbers of—			Occupation, sex, and year.	Index numbers of—		
	Full-time hours per week.	Hourly earnings.	Full-time weekly earnings.		Full-time hours per week.	Hourly earnings.	Full-time weekly earnings.
<b>Spinners, frame—Concl'd.</b>				<b>Weavers—Concluded.</b>			
Male.....1920..	89	410	365	Female.....1910..	101	91	92
1922..	89	263	234	1911..	101	93	95
Female.....1910..	101	87	88	1912..	100	105	104
1911..	102	90	91	1913..	100	100	100
1912..	99	103	102	1914..	98	103	100
1913..	100	100	100	1916..	97	138	134
1914..	98	105	103	1918..	97	206	199
1916..	97	129	124	1920..	86	379	327
1918..	94	199	188	1922..	86	292	252
1920..	87	344	298	<b>Burlers:</b>			
1922..	87	246	215	Female.....1910..	102	89	90
<b>Twister tenders:</b>				1911..	102	89	90
Female.....1910..	103	93	95	1912..	101	99	101
1911..	102	97	99	1913..	100	100	100
1912..	101	101	102	1914..	98	106	104
1913..	100	100	100	1916..	98	127	124
1914..	98	107	104	1918..	97	189	184
1916..	98	129	126	1920..	87	310	269
1918..	97	190	184	1922..	87	254	220
1920..	87	339	294	<b>Menders:</b>			
1922..	89	261	231	Female.....1910..	103	88	91
<b>Dresser tenders:</b>				1911..	103	88	91
Male.....1910..	101	92	93	1912..	101	104	105
1911..	101	92	94	1913..	100	100	100
1912..	100	100	99	1914..	98	108	105
1913..	100	100	100	1916..	98	135	133
1914..	98	104	102	1918..	98	193	189
1916..	98	121	118	1920..	88	330	289
1918..	97	172	164	1922..	88	243	213
1920..	86	292	252	<b>Laborers, dyehouse:</b>			
1922..	87	248	215	Male.....1910..	101	90	91
<b>Loom fixers:</b>				1911..	102	91	93
Male.....1910..	101	94	95	1912..	100	99	99
1911..	102	93	94	1913..	100	100	100
1912..	100	104	104	1914..	99	101	99
1913..	100	100	100	1916..	99	124	123
1914..	99	105	104	1918..	98	191	188
1916..	98	128	125	1920..	87	355	308
1918..	98	186	182	1922..	88	274	241
1920..	87	328	284	<b>The industry:</b>			
1922..	87	254	220	1910.....	101	90	91
<b>Weavers:</b>				1911.....	102	91	92
Male.....1910..	101	89	90	1912.....	100	102	102
1911..	101	91	92	1913.....	100	100	100
1912..	100	102	102	1914.....	98	103	100
1913..	100	100	100	1916.....	98	127	124
1914..	98	103	100	1918.....	97	193	186
1916..	98	131	122	1920.....	86	355	304
1918..	97	203	195	1922.....	87	268	231
1920..	86	348	298				
1922..	86	266	228				

Table 1 shows the average earnings per hour each year back to 1907 for most of the leading occupations of the industry. Many readers may desire, however, to know the distribution of the employees entering into the average for each year according to their individual hourly earnings. Such a tabulation has been made for four of the principal occupation groups—male mule spinners, female frame spinners, male weavers, and female weavers—and is here presented in Table 3. It will be observed that the range of individual hourly earnings is wide each year, and that the employees as a mass move up in their hourly earnings from 1914 to 1920 and fall back in 1922.

TABLE 3.—AVERAGE AND CLASSIFIED EARNINGS PER HOUR FOR SPINNERS AND WEAVERS IN SPECIFIED YEARS, 1907 TO 1922.

Occupation, sex, and year.	Number of establishments.	Number of employees.	Average earnings per hour.	Per cent of employees whose earnings per hour were—																					
				6 and under 8 cents.	8 and under 9 cents.	9 and under 10 cents.	10 and under 12 cents.	12 and under 14 cents.	14 and under 16 cents.	16 and under 18 cents.	18 and under 20 cents.	20 and under 25 cents.	25 and under 30 cents.	30 and under 40 cents.	40 and under 50 cents.	50 and under 60 cents.	60 and under 70 cents.	70 and under 80 cents.	80 and under 90 cents.	90 and under \$1.00.	\$1.00 and under \$1.10.	\$1.10 and under \$1.25.	\$1.25 and over.		
<b>Spinners, mule:</b>																									
<b>Male.....</b>																									
1907..	19	384	\$0.219				1	1	3	11	19	45	20	1											
1908..	19	267	.215				1	3	6	9	18	37	25	1											
1909..	19	297	.223					1	3	14	16	34	30	2	(1)										
1910..	26	529	.224				(1)	(1)	2	8	15	47	25	2											
1911..	40	638	.224				(1)	(1)	2	9	15	53	18	3											
1912..	40	719	.240				(1)	(1)	1	5	10	42	34	8											
1913..	42	828	.239				(1)	1	1	8	10	38	31	10	(1)										
1914..	42	897	.249				(1)		1	4	12	37	31	14	1	(1)									
1916..	46	1,222	.316						(1)	(1)	(1)	20	21	47	11	1									
1918..	46	1,431	.499				(1)					1	1	20	30	26	15	6			1	(1)			
1920..	46	960	.816											1	1	10	17	14	1		15	13	11	3	
1922..	44	1,119	.670											1	13	15	30	21	14		5	5	(1)		
<b>Spinners, frame:</b>																									
<b>Female.....</b>																									
1907..	5	323	.127		4	1	36	24	36																
1908..	5	284	.122		1	1	32	65																	
1909..	5	295	.124		2	1	20	77																	
1910..	8	578	.122		2	4	47	41	7																
1911..	10	1,002	.126			1	39	47	13	(1)															
1912..	10	1,070	.144			1	3	34	53	8															
1913..	10	751	.140			(1)	2	42	54	2		(1)													
1914..	9	970	.147				1	28	54	16	1														
1916..	14	1,202	.180				(1)	8	8	27	43	15													
1918..	15	1,330	.278							1	2	21	44	32	(1)										
1920..	14	1,026	.481											4	50	42	4	(1)	(1)						
1922..	15	972	.345									(1)	9	84	7		(1)								
<b>Weavers:</b>																									
<b>Male.....</b>																									
1907..	19	1,653	.208		(1)	1	4	5	9	13	17	36	11	4	(1)										
1908..	19	1,409	.196		(1)	1	3	7	13	15	18	32	9	3	(1)										
1909..	19	1,589	.199		(1)	1	4	7	12	13	16	31	11	4	(1)										
1910..	27	2,907	.207		(1)	2	4	9	15	19	33	14	4	(1)											
1911..	46	4,049	.210		(1)	1	2	4	9	13	15	35	17	4	(1)										
1912..	46	4,476	.237		(1)	1	2	5	8	11	34	26	13	(1)											
1913..	47	3,834	.232		(1)	1	2	5	9	12	33	24	11	1											
1914..	48	4,336	.238		(1)	1	2	4	7	10	34	29	12	(1)		(1)									
1916..	61	5,431	.304		(1)	(1)	(1)	1	1	2	3	17	26	40	10		(1)	(1)							

	1918..	61	5,812	.470			(1)	(1)	(1)	(1)	(1)	2	5	21	34	25	11	2	1	(1)	(1)			
	1920..	64	4,825	.807					(1)	(1)	(1)	(1)	(1)	1	2	6	15	23	19	17	(1)	(1)		
	1922..	64	5,518	.616			(1)		(1)	(1)	(1)	(1)	1	4	14	25	30	16	6	2	(1)	(1)	5	
Female.....	1907..	19	1,873	.188		(1)	1	4	8	12	16	22	31	6	1									
	1908..	19	1,882	.166			1	9	14	20	21	17	16	1	(1)									
	1909..	19	1,807	.166		(1)	1	2	12	14	17	20	15	2	1									
	1910..	27	2,855	.180		(1)	2	7	10	14	17	19	25	5	1	(1)								
	1911..	46	3,384	.184		(1)	1	8	12	16	16	15	23	6	1	(1)								
	1912..	46	3,586	.206			1	4	5	9	14	17	32	14	5	(1)								
	1913..	47	3,493	.197		(1)	(1)	4	8	11	16	18	27	12	3	(1)								
	1914..	48	3,862	.203		(1)	1	5	6	9	13	16	30	15	4	(1)								
	1916..	61	4,505	.271		(1)	(1)		1	2	4	6	26	30	26	(1)								
	1918..	61	5,295	.406			(1)	(1)	(1)		1	1	5	10	34	14	5	1	(1)	(1)				
	1920..	63	3,783	.747			(1)	(1)	(1)				(1)	1	4	12	20	23	17	12	(1)	(1)	7	
	1922..	63	3,622	.576				(1)	(1)		(1)	(1)	(1)	1	8	22	22	13	5	1	(1)	(1)	3	

<sup>1</sup> Less than 1 per cent.

Table 4 following shows that the average number of days in operation for the year ended December 31, 1921, in the mills canvassed ranged from 259.6 in Maine to 306.5 in Vermont, with an average of 277.6 days in the 67 mills covered.

The leading cause of idleness was slack business which was responsible for 21.9 days out of 35.3 for all causes in the mills as a whole. In computing the averages the days for each mill were added and the total divided by the number of mills, regardless of the size of the several mills.

TABLE 4.—AVERAGE NUMBER OF DAYS ESTABLISHMENTS WERE IN OPERATION AND NUMBER OF DAYS IDLE BY SPECIFIED CAUSES DURING THE YEAR ENDING DECEMBER 31, 1921, BY STATES.

State.	Number of establishments.	Average number of days in operation during year ending Dec. 31, 1921.	Average number of week days idle during year on account of—		
			Holidays and vacation.	Slack business.	Other causes.
Connecticut.....	11	274.3	6.7	27.4	4.7
Maine.....	12	259.6	6.0	43.1	4.3
Massachusetts.....	11	287.9	12.5	12.5	.....
New Hampshire.....	4	275.3	10.3	27.5	.....
New Jersey.....	4	293.3	7.8	6.3	5.8
New York.....	2	277.5	6.0	29.5	.....
Pennsylvania.....	13	282.5	8.0	8.2	14.3
Rhode Island.....	8	273.1	6.9	26.5	6.5
Vermont.....	2	306.5	6.5	.....	.....
Total.....	67	277.6	8.0	21.9	5.4

The next table (Table 5) shows by States the average and classified number of days the spinning and weaving departments of the 67 establishments reported were in operation during the year ending September 30, 1920, and the year ending December 31, 1921.

The number of days in operation in 1921 was greater than in 1920 in all States except New Jersey, which shows a decrease for both spinners and weavers. Some of these establishments had no spinning departments and some had no weaving departments, but a large majority had both. This explains the difference between the averages in this table and those of the preceding table. The averages are unweighted, as in the preceding table.

TABLE 5.—AVERAGE AND CLASSIFIED NUMBER OF DAYS SPINNING AND WEAVING DEPARTMENTS WERE IN OPERATION, BY STATES, FOR THE YEARS ENDING SEPTEMBER 30, 1920, AND DECEMBER 31, 1921.

State and department.	Year.	Number of establishments.	Average number of days in operation in year.	Number of establishments in operation—								
				Under 180 days.	195 and under 210 days.	210 and under 225 days.	225 and under 240 days.	240 and under 255 days.	255 and under 270 days.	270 and under 285 days.	285 and under 300 days.	300 and over.
<i>Spinning department.</i>												
Connecticut.....	1920	8	270.5	.....	1	.....	.....	.....	3	1	2	1
	1921	8	279.1	.....	1	.....	.....	.....	1	1	.....	5
Maine.....	1920	11	232.5	.....	3	3	2	.....	.....	3	.....	.....
	1921	12	259.6	.....	.....	1	1	4	2	1	2	1
Massachusetts.....	1920	11	259.9	.....	.....	1	.....	6	.....	1	3	.....
	1921	9	288.6	.....	.....	.....	.....	.....	1	1	7	.....
New Hampshire.....	1920	4	223.5	.....	.....	2	1	1	.....	.....	.....	.....
	1921	4	275.3	.....	.....	.....	.....	.....	.....	4	.....	.....
New Jersey.....	1920	3	304.3	.....	.....	.....	.....	.....	.....	.....	.....	3
	1921	3	289.7	.....	.....	.....	.....	.....	.....	2	.....	1

TABLE 5.—AVERAGE AND CLASSIFIED NUMBER OF DAYS SPINNING AND WEAVING DEPARTMENTS WERE IN OPERATION, BY STATES, FOR THE YEARS ENDING SEPTEMBER 30, 1920, AND DECEMBER 31, 1921—Concluded.

State and department.	Year.	Number of establishments.	Average number of days in operation in year.	Number of establishments in operation—									
				Under 180 days.	195 and under 210 days.	210 and under 225 days.	225 and under 240 days.	240 and under 255 days.	255 and under 270 days.	270 and under 285 days.	285 and under 300 days.	300 and over.	
<i>Spinning department—Continued.</i>													
New York.....	1920	2	238.0				1	1					
	1921	2	277.5							2			
Pennsylvania.....	1920	4	260.0			1		1			1	1	
	1921	5	289.4							2			3
Rhode Island.....	1920	4	256.0		1			1			1	1	
	1921	4	272.3							1	3		
Vermont.....	1920	3	249.3				1	1			1		
	1921	2	306.5										2
Total.....	1920	50	253.5		5	7	5	11	3	8	7	4	
	1921	49	278.4		1	1	1	4	7	14	9	12	
<i>Weaving department.</i>													
Connecticut.....	1920	10	256.2	1		1			3	2	3		
	1921	11	274.3		1			2	1	1	1	5	
Maine.....	1920	11	235.3		3	2	3			3			
	1921	12	259.6			1	1	4	2	1	2	1	
Massachusetts.....	1920	12	255.9			2		5	2	2	3		
	1921	11	287.5						1	3	7		
New Hampshire.....	1920	4	223.5			2	1	1					
	1921	4	275.3							4			
New Jersey.....	1920	4	284.5						1				3
	1921	4	293.3							2			2
New York.....	1920	2	238.0					1	1				
	1921	2	277.5							2			
Pennsylvania.....	1920	12	267.4					3	4	2	3		
	1921	10	283.8					2	1	1	3	3	
Rhode Island.....	1920	7	254.3			1	1	1	2	2			
	1921	8	273.1					1	2	3	1	1	
Vermont.....	1920	3	277.0						1		3		1
	1921	2	306.5										2
Total.....	1920	65	254.9	1	3	8	6	12	12	10	9	4	
	1921	64	277.8		1	1	1	9	7	17	14	14	

In this survey inquiry was made as to the number of starts made both by the establishments and by the several employees during the representative pay period studied. By starts is meant the number of calendar days in the pay period on which the mill operated or the employees worked. The purpose of showing the number of starts was to determine the opportunity afforded for work and the regularity of employment on the part of employees.

A tabulation of such data has been made for four major groups of employees—male mule spinners, female frame spinners, male weavers, and female weavers. The figures for these occupation groups may be accepted as fairly representative for all employees.

Referring to the table below (Table 6), it is seen that 43 mills employed male mule spinners. Of this number, 34 mills were in operation 6 days in the sample pay period studied; 6 were in operation only 5 days; 2 were in operation 4 days; and 1 was in operation but 2 days. Weighting the days in operation in each mill by the number of employees, the mills averaged 5.7 days in operation. The employees averaged 5.2 days of work per week, making a loss of 0.5 of a day, due to the many causes that may keep employees from working. Out of the 1,114 employees in this occupation, 639 worked 6 days, 290 worked 5 days, etc.

One week only was studied for spinners, but for weavers a two-weeks period was studied.

**TABLE 6.—AVERAGE AND CLASSIFIED NUMBER OF STARTS (DAYS WORKED) PER PAY PERIOD FOR SPINNERS AND WEAVERS, BY SEX.**

Occupation and sex.	Number of establishments.	Average starts for establishments weighted by number of employees.	Number of establishments in which starts (days worked) in 1 week were—						Number of employees.	Average number of starts (days worked) in 1 week.	Number of employees whose starts (days worked) in 1 week were—					
			1	2	3	4	5	6			1	2	3	4	5	6
Spinners, mule: Male.....	43	5.7		1		2	6	34	1,114	5.2	14	55	26	90	290	639
Spinners, frame: Female.....	13	5.3				2	2	9	891	4.7	22	67	51	275	106	370

  

Occupation and sex.	Number of establishments.	Average starts for establishments weighted by number of employees.	Number of establishments in which starts (days worked) in 2 weeks were—									Number of employees.	Average number of starts (days worked) in 2 weeks.	Number of employees whose starts (days worked) in 2 weeks were—											
			5	6	7	8	9	10	11	12	1			2	3	4	5	6	7	8	9	10	11	12	
Weavers: Male.....	63	11.4		1		2	2	11	2	45	5,455	10.1	24	50	63	122	162	278	119	176	524	727	848	2,362	
Female.....	61	11.4		1		2	2	9	2	45	3,580	9.9	20	32	70	76	86	216	81	168	517	408	428	1,478	

<sup>1</sup> Not including 5 employees having a two-week pay period.  
<sup>2</sup> Not including 31 employees having a two-week pay period.  
<sup>3</sup> Not including 63 employees, starts for whom were not reported.  
<sup>4</sup> Not including 1 employee, starts for whom were not reported, and 41 employees, starts for whom were reported for 3 weeks.



EXPLANATION OF SCOPE AND METHOD.

This report includes data from establishments whose sole or principal products are woolen and worsted materials for ladies' wear, including dress goods and cloakings; materials for men's wear, including suitings and overcoatings; goods for uniforms, and flannels. All data were obtained from pay rolls of the various establishments by agents of the bureau. The number of establishments included or summarized in the report has varied considerably since 1907, as follows:

	Establishments.		Establishments.
1907 to 1910.....	19	1914.....	48
1911.....	27	1916.....	61
1912.....	46	1918.....	63
1913.....	47	1920 and 1922.....	67

In selecting establishments from which to obtain data the bureau undertook to represent all States in which woolen and worsted manufacturing is of material importance, the measure of importance being the number of employees as reported by the United States Census of Manufactures. The following table shows by States the number of employees in the industry as reported by the United States census of 1919, the number of establishments from which the bureau obtained data for 1922, and the number of employees in such establishments.

TABLE 7.—TOTAL NUMBER OF EMPLOYEES IN WOOLEN AND WORSTED GOODS MANUFACTURING AND NUMBER OF EMPLOYEES FOR WHICH DATA ARE SHOWN FOR 1922.

State.	Number of employees reported by United States census of 1919.	Establishments and employees for which data are shown for 1922 in this report.	
		Number of establishments.	Number of employees.
Connecticut.....	7,798	11	2,113
Maine.....	9,913	12	2,280
Massachusetts.....	53,864	11	16,946
New Hampshire.....	9,772	4	3,557
New Jersey.....	14,490	4	3,238
New York.....	7,812	2	1,723
Pennsylvania.....	22,798	13	3,345
Rhode Island.....	24,393	8	4,002
Vermont.....	3,031	2	2,226
Other States.....	12,916	.....	.....
Total.....	166,787	67	39,430

According to the census of 1919 more than 92 per cent of the total number of employees in the industry are found in the States in which the establishments furnishing information to the Bureau of Labor Statistics are located. The number of employees for which the bureau obtained 1922 data and for which detailed information is presented in this report is more than 23 per cent of the total in the industry in 1919, the year to which the census figures apply.

Full-time hours per week are the regular hours during which under normal conditions employees in an occupation are on duty. Full-time hours do not in any way indicate the extent of unemployment. Employees may work overtime or broken time or be laid off, or a temporary reduction may be made in working hours without affecting the full-time hours as here presented.

The earnings per hour appearing in the tables include the wages of time workers and the earnings of piece workers, and are obtained by dividing the total earnings for the pay-roll period by the total number of hours worked.

Where no record was regularly kept of the actual time worked by piece workers, the establishments at the request of the bureau kept a record for the pay-roll period selected.

The full-time weekly earnings are the earnings of employees working full time, or the earnings on broken time reduced to equivalent earnings for a full week.

The average actual earnings of employees during one pay-roll period are shown in Table A in comparison with average full time earnings. In this table low actual earnings may be due either to a low rate or to broken time.

The averages of full-time hours per week, and actual earnings are computed by adding the data for each employee and dividing by the number of employees.

The average full-time weekly earnings, that is the hypothetical earnings, if all employees worked full time, are obtained by multiplying the average earnings per hour by the average full-time hours.

Descriptions of all the operations in a representative woolen and worsted mill may be found in Bulletin No. 238 of this bureau.

Figures relating to wages and hours are shown separately for 28 of the more important occupations. Males and females are tabulated separately in each occupation. Of the 28 occupations tabulated, data are shown for males alone in 12 occupations, for females alone in 6 occupations, and for both males and females in 10 occupations. The occupations are arranged in the order of manufacture in Table 1.

All employees not included under any of the selected occupations are combined and shown under "Other employees."

#### GENERAL TABLES.

In addition to the text tables already shown, four general tables are presented, as follows:

TABLE A.—Average number of starts (days) in representative pay period made by establishments and by employees, average hours and earnings, and classified full-time hours per week, by occupations, sex, and States, 1922.

A start is a calendar day on which work was done. This definition applies both to the mill and to each individual employee. The first column relating to starts gives the average number of starts made by the mill. In this average the starts of each mill are weighted by the number of employees in the occupation considered, thus the figures in effect represent the average number of starts afforded the employees of the occupation. The next column shows the number of starts actually made by the employees, which because of time lost by

employees generally falls short of the average starts of the establishment.

Other columns show average full-time hours, average hours actually worked and per cent of full-time hours worked, employees classified according to their full-time hours, average earnings per hour, average earnings actually received for one week, and average full-time earnings per week.

TABLE B.—Average and classified earnings per hour for spinners and weavers, by sex and States, 1922.

In this table the average earnings for each employee were obtained by dividing the earnings in the pay period by the hours worked, and in like manner the average earnings for the occupation were obtained by dividing the aggregate earnings in the pay period by the aggregate hours worked by all employees of the occupation.

TABLE C.—Average full-time hours for all spinners and weavers and average and classified actual hours worked for those who made as many starts as mill operated, in pay period, by States, 1922.

This table shows the entire number of employees canvassed in the selected occupations included in this table and their average full-time hours. Several of the mills, however, did not work full time and many employees did not work as many starts as the mills were open for work. A column of the table shows the number of employees who made all of the starts the mill afforded them, and a parallel column shows the average hours that were worked in the week by the employees who made as many starts as the mill afforded.

In addition the table gives a classification of the employees who worked as many starts as the mills were open, according to the hours such employees actually worked.

Undoubtedly some employees who made as many starts as the mills were open, did not work as many hours on such days as opportunity was afforded them. If an employee lost a part of a day when the mill was open it may have been because no work was available for him or because he did not care to work, therefore the hours actually worked by employees who made every start possible may to some extent fall short of the full opportunity for work. However, even with this uncertainty the table is much more significant than a table of hours worked without any consideration of days or hours lost by absence when the mills were open for work.

TABLE D.—Average and full-time earnings for all spinners and weavers and average and classified actual earnings for those who made as many starts as mill operated, in pay period, by States, 1922.

The explanation given for Table C will make this table clear without further statement.

**TABLE A.—AVERAGE NUMBER OF STARTS (DAYS) IN REPRESENTATIVE PAY PERIOD MADE BY ESTABLISHMENTS AND BY EMPLOYEES, AVERAGE HOURS AND EARNINGS, AND CLASSIFIED FULL-TIME HOURS PER WEEK, BY OCCUPATIONS, SEX, AND STATES, 1922.**

Occupation, sex, and State.	Number of establishments.	Number of employees.	Average number of starts (days) made in one week—		Hours.										Earnings.				
			By establishments.	By employees.	Average full-time hours per week.	Average hours actually worked in one week.	Per cent of full time worked.	Number of employees whose full-time hours per week were—						Average earnings per hour.	Average full-time earnings per week.	Average earnings actually received in one week.			
								Under 48.	48	Over 48 and under 54.	54	Over 54 and under 57.	57 and under 60.				60	Over 60.	
<i>Wool sorters.</i>																			
Male:																			
Connecticut.....	2	5	6.0	5.6	50.4	47.6	94										\$0.558	\$28.12	\$26.58
Massachusetts.....	5	162	4.0	3.8	48.0	29.3	61		3								.703	33.74	20.62
New Hampshire.....	2	74	6.0	5.8	48.0	46.6	97		74								.695	33.36	32.38
New Jersey.....	2	22	6.0	5.8	48.0	50.5	105		22								.736	35.33	37.16
Pennsylvania.....	3	19	6.0	5.6	54.0	50.9	94				19						.705	38.07	35.88
Rhode Island.....	3	76	5.8	5.7	48.0	46.2	96		76								.736	35.33	34.00
All States.....	17	358	5.0	4.9	48.4	39.2	81		337		21						.710	34.36	27.80
Female:																			
Massachusetts.....	2	28	2.3	2.3	48.0	20.0	42		28								.636	30.53	12.72
Other States.....	1	9	6.0	6.0	48.0	53.0	110		9								.780	37.44	41.36
All States.....	3	37	3.2	3.2	48.0	28.0	58		37								.702	33.70	19.69
<i>Wool washer tenders.</i>																			
Male:																			
Connecticut.....	4	5	5.6	5.6	49.7	49.3	99		3	1	1						.459	22.81	22.62
Massachusetts.....	6	36	4.5	4.2	48.5	40.7	84		34				2				.445	21.58	18.09
New Hampshire.....	2	14	6.0	4.9	48.0	39.6	83		14								.404	19.39	15.98
New Jersey.....	2	15	6.0	6.0	48.0	52.9	110		15								.507	24.34	26.78
New York.....	2	6	3.3	3.3	48.0	27.4	57		6								.406	19.49	11.13
Pennsylvania.....	3	8	6.0	6.0	54.3	53.7	99				7	1					.449	24.38	24.11
Rhode Island.....	3	6	5.0	5.0	48.0	43.1	90		6								.399	19.15	17.20
Other States.....	1	3	6.0	5.0	58.0	56.0	97						3				.401	23.26	22.46
All States.....	23	93	5.2	4.8	49.2	43.8	89		78	1	8	1	5				.446	21.94	19.57

<i>Picker tenders.</i>																	
<b>Male:</b>																	
Connecticut.....	8	34	5.8	5.6	48.7	47.4	97	30		4					.394	19.19	18.70
Maine.....	12	45	5.7	5.6	49.0	49.2	100	32	8	5					.407	19.94	20.03
Massachusetts.....	9	105	5.7	5.3	48.8	48.8	109	98				7			.447	21.81	23.73
New Hampshire.....	3	18	5.6	5.3	49.3	46.3	94	14		4					.442	21.79	20.50
New Jersey.....	3	34	5.9	5.8	48.8	48.8	107	29	5						.488	23.81	25.55
Pennsylvania.....	2	18	5.6	5.9	56.3	68.8	113			11		7			.344	19.37	21.94
Rhode Island.....	3	8	5.8	5.6	48.0	47.5	99	8							.390	18.75	18.82
Vermont.....	2	7	6.0	5.9	48.0	51.6	108	7							.401	19.25	20.68
Other States.....	1	7	6.0	5.7	48.0	51.2	107	7							.424	20.35	21.75
All States.....	43	276	5.8	5.5	49.3	51.6	105	225	13	24		14			.428	21.10	22.12
<i>Card tenders.</i>																	
<b>Male:</b>																	
Connecticut.....	8	50	5.8	5.3	49.3	45.4	92	42		5		3			.361	17.80	16.38
Maine.....	12	87	5.8	5.3	48.9	44.5	91	68	10	9					.370	18.09	16.46
Massachusetts.....	9	172	4.8	4.6	48.9	40.8	83	153	7		8	4			.393	19.22	16.06
New Hampshire.....	3	26	5.6	5.3	49.2	44.2	90	21		5					.394	19.38	17.38
New Jersey.....	3	61	5.8	5.5	48.5	54.8	113	56	5						.535	25.95	29.29
New York.....	2	19	3.9	3.8	48.0	34.0	71	19							.420	20.16	14.27
Pennsylvania.....	3	34	4.7	5.6	55.4	54.4	98			26		8			.391	21.66	21.26
Rhode Island.....	4	37	5.5	5.0	48.0	43.8	91	37							.363	17.42	15.90
Vermont.....	2	28	6.0	5.8	54.0	54.2	100	21					7		.391	21.11	21.20
All States.....	46	514	5.3	5.1	49.5	45.3	92	417	22	45		8	15	7	.405	20.05	18.34
<b>Female:</b>																	
Maine.....	3	14	5.6	5.2	48.0	41.5	86	14							.360	17.28	14.91
Massachusetts.....	2	66	6.0	5.9	48.0	47.2	98	66							.362	17.38	17.11
New Jersey.....	2	6	6.0	5.3	50.9	47.4	93	3	3						.290	14.76	13.75
Other States.....	3	23	5.0	4.7	48.0	38.3	80	23							.326	15.65	12.47
All States.....	10	109	5.7	5.5	48.2	44.6	93	106	3						.351	16.92	15.66
<i>Card strippers.</i>																	
<b>Male:</b>																	
Connecticut.....	8	33	5.9	5.9	48.5	49.7	102	30		3					.412	19.98	20.50
Maine.....	12	53	5.7	5.7	48.8	47.4	97	42	6	5					.440	21.47	20.89
Massachusetts.....	9	107	5.4	5.3	48.4	45.1	93	100	5			2			.437	21.15	19.68
New Hampshire.....	3	22	5.8	5.8	48.5	47.4	98	20		2					.354	18.62	18.21
New Jersey.....	3	12	6.0	6.0	48.5	55.4	114	11	1						.508	24.64	28.14
New York.....	2	11	4.5	4.5	48.0	42.0	88	11							.469	22.51	19.71
Pennsylvania.....	3	17	5.8	5.6	55.1	53.0	96			14		3			.428	23.58	22.68
Rhode Island.....	4	21	5.6	5.4	48.0	48.3	101	21							.418	20.06	20.20
Vermont.....	2	35	6.0	5.2	54.9	48.0	87	25					10		.430	23.61	20.61
All States.....	46	311	5.6	5.5	49.5	47.4	96	260	12	24		2	3	10	.433	21.43	20.50

TABLE A.—AVERAGE NUMBER OF STARTS (DAYS) IN REPRESENTATIVE PAY PERIOD MADE BY ESTABLISHMENTS AND BY EMPLOYEES, AVERAGE HOURS AND EARNINGS, AND CLASSIFIED FULL-TIME HOURS PER WEEK, BY OCCUPATIONS, SEX, AND STATES, 1922—Continued.

Occupation, sex, and State.	Number of establishments.	Number of employees.	Average number of starts (days) made in one week—		Hours.									Earnings.				
			By establishments.	By employees.	Average full-time hours per week.	Average hours actually worked in one week.	Per cent of full time worked.	Number of employees whose full-time hours per week were—							Average earnings per hour.	Average full-time earnings per week.	Average earnings actually received in one week.	
								Under 48.	48	Over 48 and under 54.	54	Over 54 and under 57.	57 and under 60.	60				Over 60.
<i>Card grinders.</i>																		
Male:																		
Maine.....	2	3	4.3	4.3	49.3	40.3	82	1	2							\$0.447	\$22.04	\$17.98
Massachusetts.....	5	10	4.6	4.6	48.0	39.6	83	10								.531	25.49	21.01
New Hampshire.....	2	10	5.8	5.2	48.6	45.2	93	9		1						.483	23.47	21.85
New York.....	2	2	4.0	4.0	48.0	36.0	75	2								.500	24.00	18.00
Other States.....	1	3	5.0	5.0	48.0	43.8	91	3								.435	20.88	19.03
All States.....	12	28	5.0	4.8	48.4	41.9	87	25	2	1						.491	23.76	20.56
<i>Gill box tenders.</i>																		
Male:																		
Massachusetts.....	2	138	6.0	4.2	48.0	36.5	76	138								.393	18.86	14.36
Pennsylvania.....	2	12	6.0	5.9	54.0	53.2	99			12						.382	20.63	20.33
Rhode Island.....	2	6	5.8	4.3	48.0	35.6	74	6								.326	15.65	11.63
Other States.....	2	132	5.1	4.6	48.0	38.8	81	132								.333	15.98	12.93
All States.....	8	288	5.6	4.4	48.3	38.2	79	276		12						.363	17.53	13.90
Female:																		
Massachusetts.....	3	133	4.0	3.9	48.0	33.5	70	133								.355	17.04	11.87
New Jersey.....	2	70	5.6	5.2	48.0	45.5	95	70								.382	18.34	17.38
Pennsylvania.....	5	86	6.0	5.7	53.5	50.6	95	7		79						.361	19.31	18.27
Rhode Island.....	3	68	4.7	4.7	48.0	39.8	83	68								.305	14.64	12.15
Other States.....	2	56	6.0	5.6	48.0	45.0	94	56								.256	12.29	11.51
All States.....	15	413	5.1	4.8	49.1	41.7	85	334		79						.339	16.64	14.13
<i>Comber tenders.</i>																		
Male:																		
Massachusetts.....	3	139	4.5	3.6	48.0	31.2	65	139								.447	21.46	13.95
Rhode Island.....	3	14	5.1	4.6	48.0	38.6	80	14								.414	19.87	15.98

Other States.....	5	56	5.0	4.6	48.4	38.4	79	52	4						.416	20.13	15.99
All States.....	11	209	4.7	4.0	48.1	33.6	70	205	4						.435	20.92	14.63
<b>Female:</b>																	
Massachusetts.....	2	18	4.6	3.9	48.0	34.2	71	18							.396	19.01	13.53
New Jersey.....	2	26	5.5	5.3	48.0	47.1	98	26							.382	18.34	17.97
Pennsylvania.....	3	29	6.0	5.4	54.0	48.7	90	24	29						.384	20.74	18.71
Rhode Island.....	2	24	4.8	4.7	48.0	41.1	86	24							.381	18.29	15.63
Other States.....	1	3	6.0	4.0	48.0	33.3	69	3							.398	19.10	13.28
All States.....	10	100	5.3	4.9	49.7	43.4	87	71	29						.385	19.13	16.69
<i>Drawing-frame tenders.</i>																	
<b>Male:</b>																	
Massachusetts.....	2	154	5.9	4.2	48.0	36.4	76	1	153						.383	18.38	13.92
Other States.....	6	35	5.4	4.7	48.5	40.1	83		32	3					.363	17.61	14.58
All States.....	8	189	5.8	4.3	48.1	37.1	77	1	185	3					.378	18.18	14.04
<b>Female:</b>																	
Massachusetts.....	3	861	4.6	3.9	48.0	32.0	67		861						.364	17.47	11.66
New Jersey.....	2	133	5.6	5.4	48.0	46.2	96		133						.378	18.14	17.47
New York.....	2	121	2.6	2.4	48.0	20.2	42		121						.349	16.75	7.07
Pennsylvania.....	5	177	6.0	5.7	52.8	49.9	95		35	142					.320	16.90	15.94
Rhode Island.....	3	153	5.7	5.0	48.0	40.7	85		153						.315	15.12	12.82
Other States.....	2	170	6.0	5.7	48.0	45.9	96		170						.330	15.84	15.12
All States.....	17	1,615	4.9	4.4	48.5	36.5	75	1,473	142						.349	16.93	12.74
<i>Spinners, mule.</i>																	
<b>Male:</b>																	
Connecticut.....	8	123	5.8	5.6	48.5	45.9	95		112	1	10				.569	27.60	26.08
Maine.....	12	168	5.7	5.2	49.3	42.6	86		134	9	18		7		.680	33.52	28.95
Massachusetts.....	8	411	5.9	5.3	48.2	43.1	89		404			7			.753	36.29	32.43
New Hampshire.....	4	59	5.7	5.3	48.9	42.8	88		50		9				.699	34.18	29.96
New Jersey.....	3	32	6.0	5.9	49.8	48.9	98		22	10					.561	27.94	27.42
New York.....	2	57	3.5	3.5	48.0	30.1	63		57						.724	34.75	21.77
Pennsylvania.....	2	102	5.7	5.1	53.7	48.7	91		21	81					.475	25.51	23.16
Rhode Island.....	3	62	6.0	5.8	48.0	47.0	98		62						.645	30.96	30.34
Vermont.....	2	105	6.0	5.4	51.0	43.7	86		73			32			.695	35.45	30.35
All States.....	44	1,119	5.7	5.2	49.2	43.6	89	914	41	118		39	7		.670	32.96	29.23

TABLE A.—AVERAGE NUMBER OF STARTS (DAYS) IN REPRESENTATIVE PAY PERIOD MADE BY ESTABLISHMENTS AND BY EMPLOYEES, AVERAGE HOURS AND EARNINGS, AND CLASSIFIED FULL-TIME HOURS PER WEEK, BY OCCUPATIONS, SEX, AND STATES, 1922—Continued.

Occupation, sex, and State.	Number of establishments.	Number of employees.	Average number of starts (days) made in one week—		Hours.									Earnings.				
			By establishments.	By employees.	Average full-time hours per week.	Average hours actually worked in one week.	Per cent of full time worked.	Number of employees whose full-time hours per week were—							Average earnings per hour.	Average full-time earnings per week.	Average earnings actually received in one week.	
								Under 48.	48	Over 48 and under 54.	54	Over 54 and under 57.	57 and under 60.	60				Over 60.
<i>Spinners, frame.</i>																		
Male:																		
Massachusetts.....	3	42	5.4	3.8	48.0	31.5	66		42							\$0.357	\$17.14	\$11.25
Other States.....	1	3	5.0	4.0	48.0	35.0	73		3							.347	16.66	12.16
All States.....	4	45	5.3	3.8	48.0	31.7	66		45							.357	17.14	11.31
Female:																		
Massachusetts.....	3	545	5.0	4.3	47.9	35.5	74	20	525							.350	16.77	12.43
New Jersey.....	2	22	6.0	5.9	48.0	47.4	99		22							.287	13.78	13.62
Pennsylvania.....	4	116	6.0	5.4	52.2	46.8	90		35		81					.343	17.90	16.06
Rhode Island.....	3	117	5.3	4.9	48.0	40.1	84		117							.340	16.32	13.60
Other States.....	3	172	6.0	5.2	48.0	42.1	88		172							.344	16.51	14.49
All States.....	15	972	5.4	4.7	48.4	38.8	80	20	871		81					.345	16.70	13.40
<i>Doffers.</i>																		
Male:																		
Massachusetts.....	3	149	4.8	3.6	46.9	28.3	60	50	99							.307	14.40	8.68
Other States.....	2	16	5.4	4.6	48.0	37.2	78		16							.245	11.76	9.10
All States.....	5	165	4.9	3.7	47.0	29.1	62	50	115							.299	14.05	8.72
Female:																		
Massachusetts.....	3	276	5.1	4.1	46.7	32.0	69	109	167							.291	13.59	9.29
Pennsylvania.....	4	106	6.0	5.6	52.5	48.5	92	4	21		81					.286	15.02	13.88
Rhode Island.....	3	71	5.5	5.4	47.6	43.2	91	7	64							.239	11.38	10.32
Other States.....	4	166	6.0	5.4	48.0	43.2	90		166							.264	12.67	13.41
All States.....	14	619	5.5	4.8	48.1	39.1	81	120	418		81					.275	13.23	10.76



<i>Twister tenders.</i>															
Female:															
Connecticut.....	4	12	5.2	3.6	50.0	41.3	83	8	4				.282	14.10	11.64
Maine.....	4	7	4.9	4.3	48.0	34.1	71	7					.345	16.56	11.77
Massachusetts.....	9	416	4.7	3.8	48.0	31.6	66	1	415				.350	16.80	11.05
New Jersey.....	3	45	6.0	5.3	48.0	41.9	87		45				.345	16.56	14.48
New York.....	2	73	3.4	3.3	48.0	26.0	54		73				.392	18.82	10.21
Pennsylvania.....	9	249	6.0	5.6	52.6	48.0	91	1	56		192		.341	17.94	16.38
Rhode Island.....	7	60	5.0	4.5	48.1	36.7	76		59		1		.416	20.01	15.25
Other States.....	2	30	5.3	4.9	48.0	39.3	82		30				.344	16.51	13.53
All States.....	40	892	5.1	4.4	49.3	37.0	75	2	693		197		.352	17.35	13.02
<i>Spooler tenders.</i>															
Female:															
Connecticut.....	9	63	5.9	5.3	48.7	40.9	84	4	50		9		.381	18.55	15.56
Maine.....	12	101	5.6	5.0	48.7	40.9	84		82	12	7		.412	20.06	16.84
Massachusetts.....	11	654	4.9	4.3	48.0	34.8	73		654				.386	18.53	13.44
New Hampshire.....	3	26	5.4	5.3	48.9	42.2	86		22		4		.554	27.09	23.36
New Jersey.....	4	36	5.8	5.5	50.2	48.0	96		21	15			.306	15.36	14.66
New York.....	2	62	4.8	3.9	48.0	30.1	63		62				.358	17.18	10.77
Pennsylvania.....	9	153	5.9	5.4	52.1	44.8	86		48		105		.355	18.50	15.91
Rhode Island.....	7	84	5.2	4.4	48.4	37.0	76	1	77		6		.378	18.30	13.98
Vermont.....	2	68	6.0	5.6	48.0	44.6	93		68				.389	18.67	17.35
All States.....	59	1,247	5.2	4.7	48.7	37.8	78	5	1,084	27	131		.383	18.65	14.48
<i>Dresser tenders.</i>															
Male:															
Connecticut.....	13	55	5.8	5.6	48.3	46.5	96	4	46		5		.591	28.55	27.48
Maine.....	11	39	5.8	5.6	48.7	46.3	95		33	2	4		.668	32.53	30.92
Massachusetts.....	11	156	5.9	5.5	48.0	45.2	94		156				.677	32.50	30.63
New Hampshire.....	4	24	5.8	5.6	49.0	45.5	93		20		4		.624	30.58	28.42
New Jersey.....	3	24	5.6	5.4	48.0	45.3	94		24				.654	31.39	29.63
New York.....	2	19	4.4	3.4	48.0	35.5	74		19				.575	27.60	20.44
Pennsylvania.....	9	56	5.7	5.5	51.4	49.8	97		24		32		.720	37.01	35.85
Rhode Island.....	8	70	5.0	4.6	48.3	39.2	81		67		3		.641	30.96	25.14
Vermont.....	2	50	6.0	5.8	50.6	53.8	106		39			11	.616	31.17	33.15
All States.....	60	493	5.7	5.3	48.8	45.6	93	4	428	2	48		.653	31.87	29.82
<i>Creelers or tiers-in.</i>															
Female: All States.....															
	3	40	6.0	5.6	47.9	44.4	93	1	39				.315	15.09	14.01

TABLE A.—AVERAGE NUMBER OF STARTS (DAYS) IN REPRESENTATIVE PAY PERIOD MADE BY ESTABLISHMENTS AND BY EMPLOYEES, AVERAGE HOURS AND EARNINGS, AND CLASSIFIED FULL-TIME HOURS PER WEEK, BY OCCUPATIONS, SEX, AND STATES, 1922—Continued.

Occupation, sex, and State.	Number of establishments.	Number of employees.	Average number of starts (days) made in one week—		Hours.										Earnings.				
			By establishments.	By employees.	Average full-time hours per week.	Average hours actually worked in one week.	Per cent of full time worked.	Number of employees whose full-time hours per week were—							Average earnings per hour.	Average full-time earnings per week.	Average earnings actually received in one week.		
								Under 48.	48	Over 48 and under 54.	54	Over 54 and under 57.	57 and under 60.	60				Over 60.	
<i>Drawers-in.</i>																			
Female:																			
Connecticut.....	10	44	5.8	5.1	48.5	39.8	82	4	34	.....	6	.....	.....	.....	.....	.....	\$0.456	\$22.12	\$18.14
Maine.....	10	31	5.5	5.3	48.6	43.9	90	.....	26	3	2	.....	.....	.....	.....	.....	.454	22.06	19.92
Massachusetts.....	11	153	5.4	5.1	48.0	40.1	84	.....	153	.....	.....	.....	.....	.....	.....	.....	.462	22.18	18.51
New Hampshire.....	4	32	6.0	5.8	48.2	47.1	98	.....	31	.....	1	.....	.....	.....	.....	.....	.430	20.73	20.23
New Jersey.....	4	23	6.0	5.5	48.8	38.1	78	.....	20	3	.....	.....	.....	.....	.....	.....	.521	25.42	19.82
New York.....	2	15	4.6	4.1	48.0	29.1	61	.....	15	.....	.....	.....	.....	.....	.....	.....	.424	20.35	12.34
Pennsylvania.....	9	45	6.0	5.7	50.9	49.8	98	.....	23	.....	22	.....	.....	.....	.....	.....	.476	24.23	23.72
Rhode Island.....	8	70	5.2	4.9	48.3	38.8	80	.....	67	.....	3	.....	.....	.....	.....	.....	.550	26.57	21.36
Vermont.....	2	23	6.0	5.9	48.0	48.7	101	.....	23	.....	.....	.....	.....	.....	.....	.....	.545	26.16	26.53
All States.....	60	436	5.6	5.2	48.5	41.6	86	4	392	6	34	.....	.....	.....	.....	.....	.480	23.28	19.97
<i>Loom fixers.</i>																			
Male:																			
Connecticut.....	11	46	5.8	5.8	48.5	49.6	102	3	38	.....	5	.....	.....	.....	.....	.....	.702	34.05	34.83
Maine.....	12	52	5.8	5.7	49.1	47.7	97	.....	38	7	7	.....	.....	.....	.....	.....	.686	33.68	32.73
Massachusetts.....	11	290	5.1	4.9	48.0	40.7	85	.....	290	.....	.....	.....	.....	.....	.....	.....	.806	38.69	32.83
New Hampshire.....	4	60	5.9	5.6	48.2	45.0	93	.....	58	.....	2	.....	.....	.....	.....	.....	.646	31.14	29.10
New Jersey.....	4	71	5.8	5.8	47.8	48.0	100	4	64	3	.....	.....	.....	.....	.....	.....	.761	36.38	36.52
New York.....	2	27	3.8	3.7	48.0	31.4	65	.....	27	.....	.....	.....	.....	.....	.....	.....	.756	36.29	23.75
Pennsylvania.....	10	57	5.6	5.5	50.9	51.0	100	.....	29	.....	28	.....	.....	.....	.....	.....	.774	39.40	39.49
Rhode Island.....	8	97	5.6	5.4	48.2	44.4	92	.....	93	.....	4	.....	.....	.....	.....	.....	.730	35.19	32.45
Vermont.....	2	47	6.0	5.7	48.0	47.8	100	.....	47	.....	.....	.....	.....	.....	.....	.....	.743	35.66	35.46
All States.....	64	747	5.5	5.3	48.4	44.2	91	7	684	10	46	.....	.....	.....	.....	.....	.754	36.49	33.29

<i>Weavers.</i>																
<b>Male:</b>																
Connecticut.....	11	623	5.8	15.3	48.4	43.8	90	50	507	66				608	29.19	26.41
Maine.....	12	515	5.9	4.8	48.6	38.9	80		430	51	34			507	27.56	22.07
Massachusetts.....	11	2,007	5.7	5.1	48.0	41.0	85	4	2,003					644	30.91	26.40
New Hampshire.....	4	207	5.8	5.1	48.5	40.5	34		190		17			566	27.45	22.96
New Jersey.....	4	381	5.6	5.4	47.1	44.3	94	47	332	2				608	28.43	26.74
New York.....	2	195	4.8	4.1	48.0	31.2	65		195					612	29.38	19.10
Pennsylvania.....	10	401	5.5	5.2	50.7	48.4	95		134			267		557	28.24	26.94
Rhode Island.....	8	688	5.5	4.8	48.5	39.8	32		633					598	29.01	23.78
Vermont.....	2	501	6.0	5.2	48.0	42.3	38		501					680	32.64	28.73
All States.....	64	5,518	5.7	15.1	48.3	41.5	86	101	4,925	53	439			616	29.75	25.55
<b>Female:</b>																
Connecticut.....	11	172	5.9	15.8	48.7	41.8	88	3	147		22			592	28.83	24.76
Maine.....	12	308	5.9	4.7	49.1	38.4	78		235	28	45			540	26.49	20.71
Massachusetts.....	11	1,393	5.4	4.7	48.0	37.9	79	3	1,390					616	29.57	23.35
New Hampshire.....	4	408	5.8	5.2	48.5	42.0	87		376		32			491	23.79	20.62
New Jersey.....	4	342	5.7	5.0	48.5	40.7	84	7	294		41			572	27.77	23.29
New York.....	2	52	3.3	3.0	48.0	25.2	53		52					688	33.03	17.37
Pennsylvania.....	9	246	5.7	5.1	50.5	45.2	90		145			101		475	23.97	21.47
Rhode Island.....	8	487	5.9	5.6	48.1	44.5	93		490					561	26.99	24.98
Vermont.....	2	214	6.0	4.9	48.0	40.2	84		214					701	33.65	28.21
All States.....	63	3,622	5.6	15.0	48.4	40.2	83	13	3,333	69	207			576	27.85	23.17
<i>Cloth inspectors.</i>																
<b>Male:</b>																
Connecticut.....	10	15	5.8	5.8	48.0	48.6	101	2	12		1			595	28.56	28.92
Maine.....	10	16	5.9	5.6	48.9	49.3	101		13		1	2		592	28.95	29.15
Massachusetts.....	10	202	4.2	3.7	48.0	30.2	63		202					570	27.36	17.22
New Hampshire.....	3	33	6.0	5.1	48.0	43.8	91		33					522	25.06	22.90
New Jersey.....	4	9	6.0	6.0	50.3	50.4	100		5		4			564	28.37	28.41
New York.....	2	9	3.7	3.7	48.0	31.5	66		9					530	25.44	16.68
Pennsylvania.....	2	8	6.0	5.6	54.0	50.2	90					8		520	28.08	26.09
Rhode Island.....	6	21	4.8	4.8	48.0	37.4	78		21					507	24.34	18.98
Vermont.....	2	2	6.0	6.0	48.0	57.7	120		2					621	29.81	35.81
All States.....	49	315	4.7	4.2	48.3	35.3	73	2	297	5	11			560	27.05	19.74
<b>Female:</b>																
Massachusetts.....	2	29	5.2	4.4	48.0	37.3	78		29					375	18.00	13.96
Pennsylvania.....	4	6	5.8	5.7	52.0	49.0	94		2		4			388	20.18	18.99
Other States.....	1	19	6.0	6.0	48.0	48.0	100		19					369	17.71	17.62
All States.....	7	54	5.6	5.1	48.4	42.3	87		50		4			373	18.05	15.81

<sup>1</sup> Not including 1 establishment for which starts were not reported.

TABLE A.—AVERAGE NUMBER OF STARTS (DAYS) IN REPRESENTATIVE PAY PERIOD MADE BY ESTABLISHMENTS AND BY EMPLOYEES, AVERAGE HOURS AND EARNINGS, AND CLASSIFIED FULL-TIME HOURS PER WEEK, BY OCCUPATIONS, SEX, AND STATES, 1922—Continued.

Occupation, sex, and State.	Number of establishments.	Number of employees.	Average number of starts (days) made in one week—		Hours.										Earnings.				
			By establishments.	By employees.	Average full-time hours per week.	Average hours actually worked in one week.	Per cent of full time worked.	Number of employees whose full-time hours per week were—							Average earnings per hour.	Average full-time earnings per week.	Average earnings actually received in one week.		
								Under 48.	48	Over 48 and under 54.	54	Over 54 and under 57.	57 and under 60.	60				Over 60.	
<i>Burlers.</i>																			
Female:																			
Connecticut.....	11	94	5.8	5.4	48.4	44.0	91	7	77	.....	10	.....	.....	.....	.....	.....	\$0.370	\$17.91	\$16.36
Maine.....	9	36	6.0	5.3	48.2	42.9	89	.....	34	.....	1	.....	.....	.....	.....	.....	.319	15.38	13.69
Massachusetts.....	11	762	4.8	4.3	48.0	35.2	73	6	756	.....	.....	.....	.....	.....	.....	.....	.375	18.00	13.19
New Hampshire.....	4	291	6.0	4.9	48.0	41.7	87	.....	289	.....	2	.....	.....	.....	.....	.....	.389	18.67	16.23
New Jersey.....	4	155	6.0	5.3	48.1	43.2	90	5	144	.....	6	.....	.....	.....	.....	.....	.393	18.90	16.97
New York.....	2	90	3.9	3.6	48.0	27.8	58	.....	90	.....	.....	.....	.....	.....	.....	.....	.382	18.34	10.62
Pennsylvania.....	10	112	5.4	5.2	50.5	42.1	83	.....	66	.....	46	.....	.....	.....	.....	.....	.328	16.56	13.81
Rhode Island.....	8	180	5.6	5.2	48.5	41.0	85	4	160	.....	16	.....	.....	.....	.....	.....	.356	17.27	14.58
Vermont.....	2	53	6.0	5.4	48.0	43.0	90	.....	53	.....	.....	.....	.....	.....	.....	.....	.328	15.74	14.10
All States.....	61	1,773	5.3	4.7	48.2	38.5	80	22	1,669	7	75	.....	.....	.....	.....	.....	.371	17.88	14.28
<i>Menders.</i>																			
Female:																			
Connecticut.....	11	133	5.8	5.5	48.5	44.9	98	8	109	.....	16	.....	.....	.....	.....	.....	.485	23.52	21.79
Maine.....	12	129	5.9	5.5	48.4	45.7	94	.....	114	11	4	.....	.....	.....	.....	.....	.380	18.39	17.34
Massachusetts.....	11	930	5.3	3.6	47.8	29.0	61	43	887	.....	.....	.....	.....	.....	.....	.....	.456	21.80	13.22
New Hampshire.....	4	28	5.6	5.5	48.4	45.5	94	.....	26	.....	2	.....	.....	.....	.....	.....	.433	20.96	19.70
New Jersey.....	3	66	6.0	5.6	48.7	44.8	92	.....	58	8	.....	.....	.....	.....	.....	.....	.502	24.45	22.48
New York.....	2	114	3.3	3.3	48.0	25.4	53	.....	114	.....	.....	.....	.....	.....	.....	.....	.511	24.53	12.97
Pennsylvania.....	10	192	5.6	5.2	51.4	45.8	89	.....	84	.....	108	.....	.....	.....	.....	.....	.455	23.39	20.85
Rhode Island.....	8	252	5.3	5.2	48.3	38.7	80	1	237	.....	14	.....	.....	.....	.....	.....	.460	22.22	17.79
Vermont.....	2	141	6.0	5.0	48.0	40.4	84	.....	141	.....	.....	.....	.....	.....	.....	.....	.321	15.41	12.96
All States.....	63	1,985	5.3	4.4	48.4	35.4	73	52	1,770	19	144	.....	.....	.....	.....	.....	.445	21.54	15.75

<i>Perchers.</i>																		
<b>Male:</b>																		
Connecticut.....	9	20	5.9	5.9	47.9	48.9	102	1	19						.535	25.63	26.18	
Maine.....	9	17	6.0	5.8	48.4	48.6	100		16		1				.465	22.51	22.57	
Massachusetts.....	11	129	5.4	4.5	48.0	36.3	76		129						.567	27.22	20.62	
New Hampshire.....	4	67	6.0	5.1	48.1	43.2	90		66		1				.462	22.22	19.99	
New Jersey.....	3	9	6.0	5.9	48.6	47.3	97		8		1				.703	34.17	33.28	
New York.....	2	35	3.3	3.3	48.0	28.4	59		35		5				.508	24.38	14.40	
Pennsylvania.....	7	11	5.7	5.6	50.7	47.4	93		6		1				.510	25.86	24.16	
Rhode Island.....	8	22	5.5	5.3	48.3	42.7	88		21		1				.543	28.23	23.15	
Vermont.....	2	42	6.3	6.1	52.0	52.1	100		25				17		.471	24.49	24.54	
All States.....	55	352	5.5	5.0	48.6	41.1	85	1	325	1	8		17		.520	25.27	21.35	
<b>Female:</b>																		
Connecticut.....	2	2	5.5	5.5	51.0	48.9	96		1		1				.332	16.93	16.22	
Maine.....	2	5	5.6	5.2	49.2	41.5	84		4		1				.354	17.42	14.66	
Massachusetts.....	3	33	5.8	5.5	48.0	44.1	92		33						.501	24.05	22.08	
Pennsylvania.....	3	5	6.0	6.0	51.6	49.0	95		2		3				.423	21.83	20.74	
Rhode Island.....	3	14	5.4	5.2	48.0	40.8	85		14						.416	19.97	16.99	
Other States.....	2	16	6.0	5.8	48.0	45.8	95		16						.348	16.70	15.96	
All States.....	15	75	5.8	5.5	48.4	44.1	91		70		5				.432	20.91	19.09	
<i>Fuller tenders.</i>																		
<b>Male:</b>																		
Connecticut.....	9	26	5.9	5.8	48.7	51.8	106		23		3				.430	20.94	22.25	
Maine.....	12	20	5.7	5.7	48.8	48.2	99		16	2	2				.442	21.57	21.29	
Massachusetts.....	10	119	5.6	5.5	48.2	52.5	109		115	4					.479	23.09	25.16	
New Hampshire.....	4	10	5.4	4.6	49.2	40.3	82		8		2				.445	21.89	17.89	
New Jersey.....	4	28	5.8	5.6	48.6	49.9	103		25		3				.579	28.14	28.89	
Pennsylvania.....	4	11	5.9	5.9	52.9	56.3	106		2		9				.400	21.16	22.56	
Rhode Island.....	6	14	5.6	5.6	48.4	48.9	101		13		1				.412	19.94	20.16	
Vermont.....	2	16	5.8	5.5	56.7	54.4	96		6				3	7	.431	24.44	23.43	
Other States.....	1	4	5.0	4.0	48.0	33.7	70		4						.291	13.97	9.79	
All States.....	52	248	5.7	5.5	49.1	51.1	104		212	9	17			3	7	.468	22.98	23.91
<i>Washer tenders, cloth.</i>																		
<b>Male:</b>																		
Connecticut.....	11	18	5.8	5.1	48.7	52.5	108	2	13		3				.429	20.39	22.50	
Maine.....	12	17	5.8	5.8	48.8	52.4	107		14		2				.440	21.47	23.08	
Massachusetts.....	11	124	5.5	5.1	49.4	49.6	100		109	4				11	.451	22.28	22.34	
New Hampshire.....	4	20	5.4	4.7	49.2	40.6	83		16		4				.410	20.17	16.62	
New Jersey.....	4	56	5.6	5.6	48.6	52.4	108		49	7					.583	28.33	30.55	
New York.....	2	28	3.5	3.2	48.0	34.6	72		28						.422	20.26	14.62	
Pennsylvania.....	6	16	5.9	5.6	53.3	53.8	101		2		14				.409	21.80	21.99	
Rhode Island.....	7	33	5.7	5.7	48.2	50.2	104		32		1				.415	20.00	20.81	
Vermont.....	2	18	5.8	5.8	58.0	58.1	100		5				4	9	.423	24.53	24.60	
All States.....	59	330	5.4	5.2	49.6	49.3	99	2	268	12	24			4	20	.461	22.87	22.73

TABLE A.—AVERAGE NUMBER OF STARTS (DAYS) IN REPRESENTATIVE PAY PERIOD MADE BY ESTABLISHMENTS AND BY EMPLOYEES, AVERAGE HOURS AND EARNINGS, AND CLASSIFIED FULL-TIME HOURS PER WEEK, BY OCCUPATIONS, SEX, AND STATES, 1922—Concluded.

Occupation, sex, and State.	Number of establishments.	Number of employees.	Average number of starts (days) made in one week—		Hours.											Earnings.				
			By establishments.	By employees.	Average full-time hours per week.	Average hours actually worked in one week.	Per cent of full time worked.	Number of employees whose full-time hours per week were—								Average earnings per hour.	Average full-time earnings per week.	Average earnings actually received in one week.		
								Under 48.	48	Over 48 and under 54.	54	Over 54 and under 57.	57 and under 60.	60	Over 60.					
<i>Dryer tenders, cloth.</i>																				
<b>Male:</b>																				
Connecticut.....	9	11	5.7	5.7	48.5	53.2	110		10		1							\$0.408	\$19.79	\$21.67
Maine.....	12	16	5.7	5.7	49.3	48.6	99		12	1	3							.414	20.41	20.12
Massachusetts.....	11	100	5.3	4.9	50.5	48.2	95		86	1			1		12			.437	22.07	21.06
New Hampshire.....	4	12	5.4	4.6	49.0	40.9	83		10		2							.437	21.41	17.88
New Jersey.....	4	30	5.7	5.7	48.7	59.1	121		26	4								.612	29.80	36.16
New York.....	2	9	3.4	3.4	48.0	34.7	72		9									.411	19.73	14.27
Pennsylvania.....	6	12	5.8	5.8	53.0	60.3	114		2		10							.415	22.00	25.05
Rhode Island.....	7	14	5.6	5.4	48.4	51.6	107		13		1							.388	18.78	20.02
Vermont.....	2	15	5.8	5.5	57.2	51.6	90		5						3	7		.380	21.74	19.58
All States.....	57	219	5.4	5.2	50.3	50.1	100		173	6	17		1		3	19		.453	22.79	22.69
<i>Truckers.</i>																				
<b>Male:</b>																				
Connecticut.....	11	60	5.9	5.6	48.3	46.9	97	1	56		3							.393	18.98	18.42
Maine.....	12	64	5.8	5.6	48.9	46.3	95		50	6	8							.419	20.49	19.39
Massachusetts.....	11	799	5.8	4.6	48.1	38.3	80	4	789					2	4			.406	19.53	15.55
New Hampshire.....	4	85	5.9	5.7	48.2	46.7	97		82		3							.371	17.88	17.33
New Jersey.....	4	57	5.9	5.8	48.6	49.7	102		50	7								.497	24.15	24.69
New York.....	2	43	4.6	3.5	48.0	30.5	64		48									.385	18.48	11.73
Pennsylvania.....	6	17	5.8	5.8	52.6	52.8	100		4		13							.376	19.78	19.87
Rhode Island.....	8	150	5.6	5.3	47.8	43.3	91	11	137		2							.348	16.63	15.08
Vermont.....	2	59	6.0	5.7	48.0	51.0	106		59									.383	18.38	19.53
All States.....	60	1,334	5.8	4.9	48.2	41.2	85	16	1,270	13	29		2		4			.399	19.23	16.42

<i>Laborers, dyehouse.</i>																		
<b>Male:</b>																		
Connecticut.....	9	80	5.6	5.4	49.1	47.7	97	66	14							.409	20.08	19.55
Maine.....	11	78	6.0	5.8	49.1	50.9	104	64	14							.418	20.52	21.27
Massachusetts.....	11	443	5.5	4.9	48.1	45.1	94	436	7							.446	21.45	20.16
New Hampshire.....	3	111	6.0	5.8	48.0	48.3	101	111								.419	20.11	20.24
New Jersey.....	4	102	6.0	5.8	48.9	52.5	107	84	18							.489	23.91	25.68
New York.....	2	32	3.7	3.6	48.0	35.9	75	32								.421	20.21	15.11
Pennsylvania.....	5	43	5.8	5.2	54.1	50.2	93	8		26		2	7			.397	21.48	19.89
Rhode Island.....	7	107	5.6	5.2	48.6	46.5	96	95	10	2						.414	20.12	19.25
Vermont.....	2	36	5.8	5.7	57.1	56.7	99	4				28	4			.399	24.22	22.61
All States.....	54	1,032	5.6	5.2	48.9	47.3	97	900	35	56		30	11			.435	21.32	20.57
<i>Other employees.</i>																		
<b>Male:</b>																		
Connecticut.....	11	304	6.0	5.7	51.6	51.1	99	16	215	5	35	2	1	2	28	.421	21.72	21.48
Maine.....	12	384	5.9	5.7	50.0	48.3	97	7	293	10	44	26	1	4	6	.432	21.60	20.87
Massachusetts.....	11	3,142	5.7	4.8	48.8	42.1	86	73	2,831	17	60	18	70	73		.461	22.50	19.41
New Hampshire.....	4	790	6.0	5.5	48.5	45.5	94	1	748	7	17	3		6	8	.400	19.40	18.22
New Jersey.....	4	1,012	5.8	5.5	49.0	51.6	105	6	932	45					29	.547	26.80	28.24
New York.....	2	454	3.4	3.0	44.2	27.8	63	5	398					51		.437	19.31	12.17
Pennsylvania.....	13	498	5.9	5.6	54.8	53.5	98	6	105	3	330	6		47		.421	23.07	22.54
Rhode Island.....	8	630	5.7	5.4	49.6	45.9	93	18	557		8	7	3	26	11	.427	21.18	19.59
Vermont.....	2	583	6.0	5.7	54.2	53.3	98		305			36	142	42	58	.430	23.31	22.91
All States.....	67	7,797	5.7	5.1	49.6	45.4	92	125	6,384	87	434	140	165	202	260	.455	22.57	20.64
<b>Female:</b>																		
Connecticut.....	7	82	5.9	5.2	48.5	43.4	89	14	54		14					.295	14.31	12.82
Maine.....	11	75	5.9	5.4	49.0	44.2	90		62		13					.312	15.29	13.77
Massachusetts.....	10	1,485	5.8	4.2	47.9	33.3	70	62	1,423							.333	15.95	11.09
New Hampshire.....	4	446	5.9	5.0	48.2	40.7	84		433		13					.316	15.23	12.84
New Jersey.....	4	317	5.7	5.4	48.7	44.3	91		275	42						.426	20.75	18.85
New York.....	2	150	3.6	3.0	48.0	24.7	51		150							.345	16.56	8.53
Pennsylvania.....	13	476	5.9	5.4	52.1	46.4	89	6	142		328					.333	17.35	15.45
Rhode Island.....	8	304	5.4	4.9	48.2	39.2	81	12	276		16					.327	15.76	12.81
Vermont.....	2	126	6.0	6.0	53.9	52.0	96		52				74			.269	14.50	13.97
All States.....	61	3,461	5.7	4.7	48.9	38.4	79	94	2,867	42	384		74			.336	16.43	12.87

TABLE B.—AVERAGE AND CLASSIFIED EARNINGS PER HOUR FOR SPINNERS AND WEAVERS, BY SEX AND STATES, 1922.

Occupation, sex, and State.	Number of establishments.	Number of employees.	Average earnings per hour.	Number of employees whose earnings per hour were—															
				10 and under 12 cents.	12 and under 14 cents.	14 and under 16 cents.	16 and under 18 cents.	18 and under 20 cents.	20 and under 25 cents.	25 and under 30 cents.	30 and under 40 cents.	40 and under 50 cents.	50 and under 60 cents.	60 and under 70 cents.	70 and under 80 cents.	80 and under 90 cents.	90 and under \$1.00.	\$1.00 and under \$1.10.	\$1.10 and under \$1.25.
<i>Spinners, mule.</i>																			
Male:																			
Connecticut.....	8	123	\$0.569							2	35	41	36	8	1				
Maine.....	12	168	.678							1	6	39	46	51	16	8	1		
Massachusetts.....	8	411	.753								2	28	135	96	105	36	8	1	
New Hampshire.....	4	59	.699									15	17	18	4	3	2		
New Jersey.....	3	32	.561							2	12	8	1	8	1				
New York.....	2	57	.724								6		13	12	16	8	2		
Pennsylvania.....	2	102	.475							5	86	6		5					
Rhode Island.....	3	62	.645								1	12	44	5					
Vermont.....	2	105	.695								1	15	43	32	13	1			
Total.....	44	1,119	.670							10	149	164	335	235	156	56	13	1	
<i>Spinners, frame.</i>																			
Female:																			
Massachusetts.....	3	545	.350							19	503	23							
New Jersey.....	2	22	.287						2	16	4								
Pennsylvania.....	4	116	.343						2	34	48	32							
Rhode Island.....	3	117	.340							12	104			1					
Other States.....	3	172	.344							8	155	9							
Total.....	15	972	.345						4	89	814	64		1					
<i>Weavers.</i>																			
Male:																			
Connecticut.....	11	623	.603				2		1	3	18	66	211	233	71	14	4		
Maine.....	12	515	.567	1			1	2	6	8	39	109	148	128	57	12	3		
Massachusetts.....	11	2,007	.644			2			5	5	69	237	418	642	356	185	70	7	
New Hampshire.....	4	207	.566						4	5	4	46	71	48	26	1	2		
New Jersey.....	4	381	.603							3	28	56	105	103	59	19	5		
New York.....	2	195	.612							1	9	38	50	34	32	25	6		
Pennsylvania.....	10	401	.557						3	8	46	89	94	116	41	4			
Rhode Island.....	8	688	.598						5	5	28	112	182	196	108	26	13	4	
Vermont.....	2	501	.680			1				2	5	36	89	170	107	59	22	6	
Total.....	64	5,518	.616	1	3	3	2	24	40	246	789	1,368	1,670	857	345	125	20	11	



<b>Female:</b>																			
Connecticut.....	11	172	.592						6	25	66	50	17	7					1
Maine.....	12	308	.540	1				5	2	29	80	94	51	3	5	1			2
Massachusetts.....	11	1,393	.616					2	9	55	251	335	361	229	103	25	6	7	10
New Hampshire.....	4	408	.491					2	2	49	183	134	26	2	1	2			
New Jersey.....	4	342	.572				3	2	14	34	55	85	82	9	2				1
New York.....	2	52	.688							2	3	11	5	13	10				
Pennsylvania.....	9	246	.475					4	12	57	75	61	36	5	2				
Rhode Island.....	8	487	.561					2	4	40	96	137	143	7	2	2			
Vermont.....	2	214	.701					1		6	18	30	37	47	39	12	2	2	2
<b>Total.....</b>	<b>63</b>	<b>3,622</b>	<b>.576</b>	<b>1</b>			<b>3</b>	<b>16</b>	<b>43</b>	<b>278</b>	<b>786</b>	<b>953</b>	<b>808</b>	<b>469</b>	<b>182</b>	<b>47</b>	<b>13</b>	<b>10</b>	<b>13</b>

TABLE C.—AVERAGE FULL-TIME HOURS FOR ALL SPINNERS AND WEAVERS, AND AVERAGE AND CLASSIFIED ACTUAL HOURS WORKED FOR THOSE WHO MADE AS MANY STARTS AS MILL OPERATED, IN PAY PERIOD, BY SEX AND STATES, 1922.

## ONE-WEEK PAY PERIOD.

Occupation, State, and sex.	Number of establishments.	All employees.		Employees who made as many starts as mill operated.	Number of employees who made as many starts as mill operated and whose hours worked in one week were—																											
		Number.	Average full-time hours in one week.		Number.	Average actual hours in one week.	16 and under 20.	24 and under 28.	28 and under 32.	32 and under 34.	34 and under 36.	36 and under 38.	38 and under 40.	40 and under 42.	42 and under 44.	44 and under 46.	46 and under 48.	48	Over 48 and under 50.	50 and under 52.	52 and under 54.	54	Over 54 and under 56.	56 and under 58.	58 and under 60.	60	Over 60.					
<i>Spinners, frame.</i>																																
Female:																																
Massachusetts.....	3	545	47.9	413	40.5	.....	3	31	.....	181	.....	.....	.....	.....	20	.....	178	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
New Jersey.....	2	22	48.0	19	48.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
Pennsylvania.....	2	35	48.0	29	47.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
Rhode Island.....	3	117	48.0	102	42.0	.....	.....	.....	2	44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
Other States.....	3	172	48.0	65	47.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	5	58	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
All States.....	13	891	47.9	628	42.1	.....	3	31	2	225	.....	.....	.....	.....	1	21	7	337	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
<i>Spinners, mule.</i>																																
Male:																																
Connecticut.....	8	123	48.5	113	47.3	.....	.....	.....	1	1	2	.....	3	8	10	18	53	.....	5	9	.....	1	.....	.....	.....	.....	.....	.....	.....	.....		
Maine.....	12	168	49.3	115	47.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Massachusetts.....	8	411	48.2	251	47.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
New Hampshire.....	4	59	48.9	48	46.5	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
New Jersey.....	3	32	49.8	29	49.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
New York.....	2	57	48.0	56	30.5	.....	.....	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Rhode Island.....	3	62	48.0	57	49.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vermont.....	2	105	51.0	64	47.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other States.....	1	97	53.7	67	53.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
All States.....	43	1,114	49.2	800	46.7	35	.....	1	1	12	15	25	11	19	33	115	346	16	33	40	64	1	9	11	2	11	.....	.....	.....	.....	.....	

TWO-WEEK PAY PERIOD.

Occupation, State, and sex.	Number of establishments.	All employees.		Employees who made as many starts as mill operated.		Number of employees who made as many starts as mill operated and whose hours worked in two weeks were—																			
		Number.	Average full-time hours in two weeks.	Number.	Average actual hours in two weeks.	44 and under 48.	48	52 and under 56.	56 and under 60.	60 and under 64.	64 and under 68.	68 and under 72.	72 and under 76.	76 and under 80.	80 and under 84.	84 and under 88.	88 and under 92.	92 and under 96.	96	Over 96 and under 100.	100 and under 104.	104 and under 108.	108	Over 108.	
<i>Weavers.</i>																									
<b>Male:</b>																									
Connecticut.....	<sup>1</sup> 10	560	96.9	364	101.4									1	3	14	16	55	108	8	55		55	49	
Maine.....	12	515	97.2	191	93.8									7	26	21	79	14	14	22		8			
Massachusetts.....	11	2,007	96.0	1,233	90.8						1	191	4	4	30	327	104	572	104	572					
New Hampshire.....	4	207	97.0	130	94.9				2	1							19	108							
New Jersey.....	3	379	94.2	314	92.4							1		78	1	4	8	210	5	1	1			5	
New York.....	2	195	96.0	96	84.2	1		65				1		3	3	6	3	14							
Pennsylvania.....	10	401	104.0	319	103.2									1	18	2	3	84		3	7	200		1	
Rhode Island.....	8	688	97.0	443	94.4					3	22	3		3	6	21	10	46	285	1		41		2	
Vermont.....	2	501	96.0	295	98.3											1	88	40	29	128	8				
All States.....	<sup>1</sup> 62	5,453	96.8	3,385	94.0	1		65		2	4	23	196	8	102	114	387	405	1,435	57	209	16	304	57	
<b>Female:</b>																									
Connecticut.....	<sup>1</sup> 10	171	97.4	105	96.8			2	2							3	11	16	31	2	15		21	2	
Maine.....	12	308	98.1	131	95.2				1					3	8	15	6	50	9	6	7	1	25		
Massachusetts.....	11	1,393	96.0	799	85.1					1		347	2		15	150	67	217							
New Hampshire.....	4	408	96.9	292	95.6				1	1							12	277							
New Jersey.....	<sup>1</sup> 3	301	95.6	188	93.4									29			1	153							
New York.....	2	52	96.0	44	52.7			43																	
Pennsylvania.....	9	246	100.9	175	100.0											16	1	5	76	2	5	3	67		
Rhode Island.....	8	487	96.2	401	95.6	1				1	1	1	1		1	2	3	15	369				6		
Vermont.....	2	214	96.0	85	97.6													26	18	13	28				
All States.....	<sup>2</sup> 61	3,580	96.7	2,220	91.2		1	45	3	2	3	2	348	5	39	51	172	196	1,150	23	55	4	119	2	

<sup>1</sup> Not including 1 establishment for which starts were not reported.

<sup>2</sup> Not including 2 establishments for which starts were not reported

**TABLE D.—AVERAGE FULL-TIME EARNINGS FOR ALL SPINNERS AND WEAVERS, AND AVERAGE AND CLASSIFIED ACTUAL EARNINGS FOR THOSE WHO MADE AS MANY STARTS AS MILL OPERATED, IN PAY PERIOD, BY STATES, 1922.**

**ONE-WEEK PAY PERIOD.**

Occupation, State, and sex.	Number of establishments.	All employees.		Employees who made as many starts as mill operated.		Number of employees who made as many starts as mill operated and whose earnings in one week were—											
		Number.	Average full-time earnings in one week.	Number.	Average actual earnings in one week.	Under \$10.	\$10 and under \$11.	\$11 and under \$12.	\$12 and under \$13.	\$13 and under \$14.	\$14 and under \$15.	\$15 and under \$16.	\$16 and under \$17.	\$17 and under \$18.	\$18 and under \$19.	\$19 and under \$20.	\$20 and under \$22.
<i>Spinners, frame.</i>																	
Female:																	
Massachusetts.....	3	545	\$16.77	413	\$14.08	3	2	34	140	39	17	107	44	17	7	2	1
New Jersey.....	2	22	13.78	19	13.88	.....	.....	2	.....	13	1	.....	.....	.....	3	.....	.....
Pennsylvania.....	1 2	35	12.72	29	12.61	.....	.....	3	15	11	.....	.....	.....	.....	.....	.....	.....
Rhode Island.....	3	117	16.32	102	14.32	.....	8	3	35	.....	1	.....	55	.....	.....	.....	.....
Other States.....	3	172	16.51	65	16.24	.....	.....	.....	2	3	2	1	48	.....	9	.....	.....
All States.....	1 13	891	16.42	628	14.25	3	10	42	192	66	21	108	147	17	19	2	1

Occupation, sex, and State.	Number of establishments.	All employees.		Employees who made as many starts as mill operated.		Number of employees who made as many starts as mill operated and whose earnings in one week were—																				
		Number.	Average full-time earnings in one week.	Number.	Average actual earnings in one week.	Under \$18.	\$18 and under \$20.	\$20 and under \$22.	\$22 and under \$24.	\$24 and under \$26.	\$26 and under \$28.	\$28 and under \$30.	\$30 and under \$32.	\$32 and under \$34.	\$34 and under \$36.	\$36 and under \$38.	\$38 and under \$40.	\$40 and under \$42.	\$42 and under \$44.	\$44 and under \$46.	\$46 and under \$48.	\$48 and under \$50.	\$50 and under \$52.	\$52 and under \$54.		
<i>Spinners, male.</i>																										
Male:																										
Connecticut.....	8	123	\$27.60	113	\$26.90	3	2	8	25	11	16	19	14	7	5	2	1									
Maine.....	12	168	33.52	115	31.88			3	2	8	13	18	15	20	13	10	5	1	2	4			1			
Massachusetts.....	8	411	36.29	251	34.44		1	1	4	18	21	22	32	49	17	12	21	15	13	8	5			4	4	* 4
New Hampshire.....	4	59	34.18	48	32.59			2	1	8	3	5	5	5	7	2	3	1	1	3						
New Jersey.....	3	32	27.94	29	28.53			1	2	4	5	6	1	1	5	3	3	1								
New York.....	2	57	34.75	56	22.08	<sup>3</sup> 34	1							1	5	3	7	4		1						
Rhode Island.....	3	62	30.96	57	31.67					1	6	6	6	33	2	1	2									
Vermont.....	2	105	35.45	64	32.95					1	11	8	9	10	7	10	3	1	3	1						
Other states.....	<sup>4</sup> 1	97	24.86	67	24.89			4	2	9	37	11	3	1												
All States.....	<sup>4</sup> 43	1,114	33.11	800	30.70	<sup>3</sup> 37	9	18	45	89	87	82	83	130	59	47	39	19	19	17	5	7	4		* 4	

<sup>1</sup> Not including 2 establishments having 2-week pay rolls.  
<sup>2</sup> Including 1 whose earnings were \$62 and over.  
<sup>3</sup> Including 6 whose earnings were \$8 and under \$10; 5 whose earnings were \$12 and under \$14; 19 whose earnings were \$14 and under \$16; and 4 whose earnings were \$16 and under \$18.  
<sup>4</sup> Not including one establishment having a 2-week pay roll.

TABLE D.—AVERAGE FULL-TIME EARNINGS FOR ALL SPINNERS AND WEAVERS, AND AVERAGE AND CLASSIFIED ACTUAL EARNINGS FOR THOSE WHO MADE AS MANY STARTS AS MILL OPERATED, IN PAY PERIOD, BY STATES, 1922—Concluded.

## TWO-WEEK PERIOD.

Occupation, State, and sex.	Number of establishments.	All employees.		Employees who made as many starts as mill operated.	Number of employees who made as many starts as mill operated and whose earnings in two weeks were—																							
		Number.	Average full-time earnings in two weeks.		Number.	Average actual earnings in two weeks.	\$18 and under \$20.	\$20 and under \$24.	\$24 and under \$28.	\$28 and under \$32.	\$32 and under \$36.	\$36 and under \$40.	\$40 and under \$44.	\$44 and under \$48.	\$48 and under \$52.	\$52 and under \$56.	\$56 and under \$60.	\$60 and under \$64.	\$64 and under \$68.	\$68 and under \$72.	\$72 and under \$76.	\$76 and under \$80.	\$80 and under \$84.	\$84 and under \$88.	\$88 and under \$92.	\$92 and over.		
<i>Weavers.</i>																												
<b>Male:</b>																												
Connecticut.....	10	560	\$58.04	364	\$60.99				2	1	11	9	18	33	55	48	50	38	39	14	11	22	10					
Maine.....	12	515	55.11	191	51.93					6	4	21	5	39	23	29	20	18	13	8	3	1	1					
Massachusetts.....	11	2,007	61.82	1,235	57.71			13	18	43	41	103	119	118	99	146	184	95	61	40	89	9	7		9		41	
New Hampshire.....	4	207	54.90	127	53.89			1			6	13	19	12	32	9	11	11	13									
New Jersey.....	4	381	56.86	314	56.16			4	4	17	13	21	31	35	36	34	31	23	26	12	11	8	3	3		2		
New York.....	2	195	58.75	96	41.86	1	1	5	13	8	16	16	17	7	3	1	4	1		1								
Pennsylvania.....	10	401	56.48	319	58.33			3	3	7	12	28	23	33	29	32	25	39	28	32	11	9	4	1				
Rhode Island.....	8	688	58.01	444	55.36		2	2	7	10	20	36	40	69	45	50	56	40	22	20	10	12	3					
Vermont.....	2	501	65.28	295	67.37						3	7	6	12	14	42	48	45	23	19	26	16	15	6		13		
All States.....	63	5,455	59.52	3,385	57.59	1	3	28	53	90	143	238	312	342	345	382	427	305	220	141	159	77	44	19		56		
<b>Female:</b>																												
Connecticut.....	10	171	56.36	105	56.25			2	1	2	2	5	7	12	22	15	15	6	9	7	1							
Maine.....	12	308	52.97	131	50.07			1	3	2	15	13	34	11	21	6	13	4	1									
Massachusetts.....	11	1,393	59.14	799	49.91	1		8	41	86	90	108	85	51	57	74	65	58	23	6	32		1	1	3		10	
New Hampshire.....	4	408	47.58	292	46.65			2	14	24	48	91	58	37	13	3	2											
New Jersey.....	3	301	54.70	188	55.25			2	6	7	10	13	20	18	14	26	21	15	20	11	4	1						
New York.....	2	52	66.05	44	37.00			3	1	6	6	11	10	7														
Pennsylvania.....	9	246	47.93	175	48.50			1	5	9	24	24	30	22	18	16	12	4	4	5	1							
Rhode Island.....	8	487	53.97	401	53.65			3	1	5	15	26	32	30	65	40	31	90	18	15	28	2						
Vermont.....	2	214	67.30	85	68.85						1	2			2	3	9	17	12	6	7	7	9	6	2	2		
All States.....	62	3,621	55.90	2,220	51.27	1	6	16	69	140	203	255	304	239	212	190	229	128	81	65	47	11	7	5		12		

<sup>5</sup> Not including 1 establishment for which starts were not reported.

<sup>6</sup> Not including 2 establishments for which starts were not reported.