

CHAPTER III.—PERSONNEL

INTRODUCTION

The total number of persons engaged in manufactures was 1.4 per cent smaller in 1929 than in 1919, if figures for the total personnel of industry as shown in General Summary, Table 3, are made comparable with those for 1919 by the addition of data for the salaried employees of central-administrative offices. (See same table, footnote 1.) Wage earners alone, who in 1929 constituted 85.6 per cent of the total number of persons engaged, decreased 1.8 per cent during the same period. Managerial and clerical staffs, on the other hand, increased about 9 per cent, a trend consistent with the increase in the number and importance of the central-office groups of establishments, which normally require considerable centralized administrative attention.

With reduced personnel, industries nevertheless turned out a 38 per cent larger physical volume of goods in 1929 than in 1919. The reason was to be found in greater plant mechanization and in the more economical administration of both human and material production facilities. The new machinery installed in manufacturing establishments not only was considerable in amount but, in general, was more nearly automatic in operation than was that which it replaced. Following the war-time emphasis on production rather than cost, management, impelled by the increasing pressure of competition, resorted to numerous managerial devices for effecting greater efficiency in the utilization of materials and processes. The indexes for "Production per wage earner" (General Summary, Table 2), which reflect roughly changes both in mechanization and in administration, indicate that productivity per wage earner increased 40 per cent between 1919 and 1929.

Some indication of the increase in power-driven mechanical equipment at the disposal of factory operatives is afforded by the relative numbers for "Horsepower per 100 wage earners" (General Summary, Table 2), which increased from 326 to 486 during the decade.

The statistics for industrial personnel, by sex (Table 1), show very little change between 1919 and 1929 in the proportions of male and female workers in industry.

A small increase in the percentage of females employed in 1929 is too slight to indicate a general tendency to replace male by female factory operatives, although in isolated instances such substitutions may have been made.

The statistics on wage-earner employment, by months (Table 3), afford a means of observing seasonal, cyclical, and secular fluctuations in employment levels. Reasonable continuity of factory operation over the 12 months of the year, generally recognized as a social and economic desideratum, is indicated by the figures for "Per cent minimum is of maximum" which approach nearest to 100. The notable attempt to regularize production by the lateral integration of products by part or all of the establishments in certain industries in which some irregularity of operation had grown to seem inevitable was a step toward a more stable and satisfactory employment situation. Nevertheless, the figures for "All industries" (Table 3) indicate that the fluctuation of the wage-earner-employment level in 1929 (90.8 to 100) exceeded that of 1925 (93.7 to 100). In 4 of the 5 years for which figures are given in the table either December or January was the month of minimum employment. For the 16 major groups of industries, the figures indicate that the greatest regularity of employment in 1929 was in "Printing, publishing, and allied industries" (97.2 per cent) and "Railroad repair shops" (96.8 per cent), and that "Food and allied products" and "Transportation equipment" were least successful in evening-out employment through the year 1929. In four Southern States—Alabama, North Carolina, South Carolina, and Georgia—the percentage which the minimum number of wage earners for the year was of the maximum did not drop below 95.6. All generalizations concerning employment stability, however, should be made in the light of the general or particular industrial conditions existing at the time.

The changes from 1919 to 1929 in the prevailing hours of labor are seen by the table following to have been considerably less radical than were those which took place during the 5-year interval from 1914 to 1919:

CENSUS OF MANUFACTURES: 1929

PER CENT DISTRIBUTION OF WAGE EARNERS EMPLOYED, BY
NUMBERS OF HOURS PER WEEK; 1929, 1919, AND 1914

HOURS PER WEEK	1929	1919	1914
Total.....	100.0	100.0	100.0
48 or under.....	45.5	48.6	11.8
Over 48 but under 54.....	24.9	16.4	13.4
54 or over but under 60.....	21.2	22.8	47.8
60 or over.....	7.4	12.1	26.9
Not specified.....	1.0		

¹ Although the sums of the items for 1919 and 1914 are slightly less than 100, each item is nevertheless correct to the nearest tenth of 1 per cent.

These figures show a striking reduction during the 5-year period from 1914 to 1919 and a much less pro-

nounced decrease during the following 10-year period in the percentage of wage earners employed 54 hours or more per week. It will be noted, however, that the proportion employed 48 hours or under per week after quadrupling between 1914 and 1919, decreased slightly during the following decade.

The wage and salary compensation received by industrial personnel amounted in 1929 to 22.5 per cent of the gross value of products manufactured, or, on a more equitable basis of comparison, to 33.5 per cent of the net value, excluding duplication. (General Summary, Tables 3 and 7.)

TABLE 1.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES, BY OCCUPATIONAL STATUS AND BY SEX: 1899 TO 1929

[The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in the censuses of manufactures for the other years; and those for 1919 and all earlier years include data for all establishments, in all industries, with products valued at \$500 or more, whereas the corresponding minimum limit for 1929 was \$5,000. The totals for the several classes for 1919 and earlier years are therefore slightly larger than the corresponding figures given in many other tables, in which the data for the "Automobile repairing" industry and for establishments reporting products valued at less than \$5,000 have been deducted from the figures for 1919 and earlier years in order to render them strictly comparable with those for years subsequent to 1919. Each class of employees is shown, by sex, for each industry and for each State in Chapter X.]

CLASS AND SEX	1929	1919	1914	1909	1904	1899
All classes, aggregate.....	10,830,728	10,812,736	8,263,063	7,678,578	6,213,612	(¹)
Male.....	8,093,815	8,588,720	6,613,376	6,162,263	(¹)	(¹)
Female.....	2,736,913	2,224,016	1,649,687	1,516,315	(¹)	(¹)
Per cent male.....	78.3	79.4	80.0	80.3		
Per cent female.....	21.7	20.6	20.0	19.7		
Proprietors and firm members, total.....	133,210	269,137	262,599	273,265	225,673	(²)
Male.....	127,810	258,894	252,430	263,673	(²)	(²)
Female.....	5,400	10,243	10,169	9,592	(²)	(²)
Per cent male.....	95.9	96.2	96.1	96.5		
Per cent female.....	4.1	3.8	3.9	3.5		
Per cent class is of aggregate ³	1.3	2.5	3.2	3.6	3.6	
Salaried officers and employees, total.....	1,358,775	1,447,227	964,217	790,267	519,556	364,120
Male.....	987,502	1,057,790	770,039	646,297	(²)	(²)
Female.....	371,273	389,431	194,178	143,970	(²)	(²)
Per cent male.....	72.7	73.1	79.9	81.8		
Per cent female.....	27.3	26.9	20.1	18.2		
Per cent class is of aggregate.....	18.2	13.4	11.7	10.3	8.4	
Principal salaried officers of corporations, total.....	155,015	132,467	92,671	80,735	60,047	(²)
Male.....	146,730	127,074	89,749	78,937	(²)	(²)
Female.....	8,285	5,393	2,922	1,798	(²)	(²)
Per cent male.....	94.7	95.9	96.8	97.8		
Per cent female.....	5.3	4.1	3.2	2.2		
Per cent class is of aggregate.....	1.5	1.2	1.1	1.1	1.0	
Other salaried officers and employees, total.....	1,203,760	1,314,760	871,546	709,532	459,509	(²)
Male.....	840,772	930,722	680,290	567,360	381,181	(²)
Female.....	362,988	384,038	191,256	142,172	78,328	(²)
Per cent male.....	69.8	70.8	78.1	80.0	83.0	
Per cent female.....	30.2	29.2	21.9	20.0	17.0	
Per cent class is of aggregate.....	11.7	12.2	10.5	9.2	7.4	
Wage earners (average for the year), total.....	8,838,743	9,066,372	7,036,247	6,615,046	4,548,383	⁴ 4,712,763
Male.....	⁵ 6,978,503	7,267,030	5,500,907	5,252,293	⁷ 4,242,643	⁸ 3,632,977
Female.....	⁶ 1,860,240	1,829,342	1,445,340	1,362,753	⁷ 1,065,855	⁸ 918,510
Per cent male.....	79.0	79.9	79.5	79.4		
Per cent female.....	21.0	20.1	20.5	20.6		
Per cent class is of aggregate.....	85.6	84.1	85.2	86.1	88.0	

¹ Data incomplete.

² No data.

³ The percentages for 1919 and earlier years are not comparable with that for 1929 for the reason that the earlier figures include data for considerable numbers of establishments reporting products valued at less than \$5,000, practically all of which were owned by proprietors or by members of firms. (See headnote.)

⁴ Includes data for 159,835 children under 16, not distributed by sex.

⁵ Includes data for 181,276 children under 16, not distributed by sex.

⁶ Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14.

⁷ Not including data for children under 16. See footnote 4.

⁸ Not including data for children under 16. See footnote 5.

PERSONNEL

TABLE 2.—OFFICERS AND EMPLOYEES OF CENTRAL ADMINISTRATIVE OFFICES, BY SEX AND COMPENSATION, BY STATES: 1929

[This table gives statistics covering those central administrative offices which made separate reports for their personnel. Many such offices, however, did not report their personnel separately but included data for them in the returns for their plants. The figures in this table do not appear elsewhere in this report. No central-administrative-office employees were reported from Arizona, New Mexico, North Dakota, and Wyoming. See GENERAL EXPLANATIONS—Persons engaged—Central-administrative-office employees]

	Number of central-administrative-office reports received	ALL OFFICERS AND EMPLOYEES OF CENTRAL ADMINISTRATIVE OFFICES REPORTED SEPARATELY				PRINCIPAL OFFICERS OF CENTRAL ADMINISTRATIVE OFFICES REPORTED SEPARATELY				OTHER OFFICERS AND EMPLOYEES OF CENTRAL ADMINISTRATIVE OFFICES REPORTED SEPARATELY			
		Number			Aggregate compensation	Number			Total compensation	Number			Total compensation
		Aggregate	Total male	Total female		Total	Male	Female		Total	Male	Female	
United States.....	3,994	208,363	140,680	67,683	\$600,487,331	15,101	14,750	351	\$174,750,620	193,262	125,930	67,332	\$425,686,711
Alabama.....	39	1,351	1,044	307	4,553,342	153	150	3	1,494,744	1,198	804	304	3,088,598
Arkansas.....	13	182	141	41	401,995	44	41	3	157,013	138	100	38	304,932
California.....	233	11,088	7,919	3,789	28,482,626	1,163	1,125	28	9,215,692	10,535	6,794	3,741	19,266,934
Colorado.....	33	1,346	1,037	309	3,972,509	166	162	4	1,478,303	1,180	875	305	2,494,206
Connecticut.....	50	2,895	1,734	1,161	7,904,231	173	172	1	2,469,635	2,722	1,562	1,160	5,494,596
Delaware.....	15	2,693	1,621	1,072	7,932,615	95	93	2	1,500,163	2,598	1,528	1,070	6,432,452
District of Columbia.....	6	37	25	12	136,347	15	15	0	98,020	22	10	12	38,327
Florida.....	12	202	167	35	523,543	36	36	0	177,325	166	131	35	346,218
Georgia.....	46	2,515	1,865	650	4,727,873	230	228	2	1,766,492	2,285	1,637	648	2,961,381
Idaho.....	6	29	22	7	71,433	13	13	0	49,400	16	9	7	22,033
Illinois.....	362	29,559	19,346	10,213	87,198,428	1,730	1,688	42	22,289,097	27,829	17,658	10,171	64,909,331
Indiana.....	69	1,810	1,105	705	4,530,270	167	167	0	1,633,145	1,613	918	695	2,903,131
Iowa.....	52	703	493	215	1,967,791	99	98	1	320,079	609	395	214	1,147,712
Kansas.....	11	293	138	125	798,847	29	28	1	180,676	234	110	124	588,171
Kentucky.....	30	485	315	170	1,710,609	105	99	6	933,386	380	216	164	777,223
Louisiana.....	29	785	638	147	1,980,599	104	103	1	740,914	681	535	146	1,245,685
Maine.....	35	425	288	137	1,234,574	92	89	3	525,243	333	199	134	709,331
Maryland.....	74	1,454	912	542	4,001,926	230	227	3	1,979,104	1,224	685	539	2,022,732
Massachusetts.....	266	8,278	4,562	3,716	25,702,580	840	821	19	10,280,850	7,438	3,741	3,697	15,412,721
Michigan.....	118	8,593	5,568	3,030	20,541,705	502	483	19	6,225,656	8,091	5,080	3,011	20,316,049
Minnesota.....	75	3,238	2,443	795	7,279,321	202	204	4	2,320,654	2,940	2,149	791	4,958,667
Mississippi.....	12	295	233	62	756,227	39	39	0	269,088	256	194	62	486,539
Missouri.....	129	7,849	5,650	2,199	18,263,839	531	522	9	5,237,296	7,318	5,123	2,195	13,026,543
Montana.....	4	29	14	15	108,345	8	8	0	57,686	21	6	15	50,759
Nebraska.....	16	388	247	141	1,016,125	57	55	2	452,063	331	192	139	504,062
Nevada.....	3	8	7	1	22,887	3	3	0	12,848	5	4	1	10,039
New Hampshire.....	15	271	133	138	530,113	34	34	0	191,057	237	104	133	338,156
New Jersey.....	109	6,991	5,508	1,483	17,288,405	340	331	9	3,986,354	6,651	5,177	1,474	13,272,051
New York.....	830	50,621	32,103	18,418	159,083,750	3,151	3,062	89	49,850,201	47,370	29,041	18,329	109,233,549
North Carolina.....	33	511	382	129	1,609,724	76	73	3	725,545	435	309	126	884,170
Ohio.....	271	16,918	11,710	5,208	48,350,281	1,203	1,185	18	13,106,805	15,715	10,525	5,190	35,243,476
Oklahoma.....	12	670	500	170	2,022,550	44	43	1	445,723	620	457	163	1,576,827
Oregon.....	25	553	432	121	1,329,120	88	87	1	414,675	465	345	120	914,445
Pennsylvania.....	478	27,494	20,148	7,346	80,485,051	1,830	1,793	37	19,873,449	25,664	18,355	7,309	60,011,632
Rhode Island.....	27	813	436	377	2,314,918	90	89	1	1,233,201	723	847	376	1,081,717
South Carolina.....	22	349	265	84	938,610	00	59	1	450,615	289	206	83	487,995
South Dakota.....	4	11	8	3	19,500	5	5	0	11,400	6	3	3	8,100
Tennessee.....	51	1,286	986	300	4,107,768	217	215	2	1,748,284	1,069	771	298	2,359,474
Texas.....	87	3,149	2,436	713	8,382,230	267	260	7	2,373,223	2,884	2,176	708	6,006,007
Utah.....	22	282	220	62	708,416	73	72	1	365,830	209	143	61	342,586
Vermont.....	19	256	183	73	715,020	40	38	2	260,627	216	145	71	454,393
Virginia.....	70	3,075	2,342	733	7,885,239	225	217	8	1,743,539	2,850	2,125	725	6,141,700
Washington.....	59	575	381	194	2,065,950	55	49	6	1,076,085	620	332	188	959,865
West Virginia.....	42	1,669	1,172	497	4,858,230	128	128	0	1,249,654	1,541	1,044	497	3,608,576
Wisconsin.....	81	5,864	3,801	2,063	16,879,843	235	231	4	3,269,282	5,629	3,570	2,059	12,610,561

CENSUS OF MANUFACTURES: 1929

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR ALL INDUSTRIES, 1929, 1925, 1919, 1914, AND 1909, AND BY INDUSTRY GROUPS AND INDUSTRIES, 1929

[For statistics by States for individual industries, see Volume II. The month of maximum employment for each industry is indicated by bold-faced figures and that of minimum employment by *italic* figures]

GROUP AND INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum		
		January	February	March	April	May	June	July	August	September	October	November	December			
All industries:																
1929	8,838,748	8,492,857	8,677,823	8,835,116	8,902,940	8,897,938	8,912,024	8,955,049	9,093,922	9,188,768	9,085,854	8,680,712	8,347,036	90.8		
1925	8,384,261	8,124,887	8,230,830	8,342,041	8,323,068	8,250,878	8,220,843	8,255,101	8,404,848	8,611,876	8,673,870	8,621,866	8,531,873	93.7		
1919	9,000,059	8,784,866	8,589,745	8,585,616	8,672,768	8,622,710	8,767,554	9,020,427	9,247,834	9,406,847	9,379,238	9,467,990	9,565,119	89.6		
1914	6,896,190	6,936,874	7,002,498	7,103,092	7,077,018	7,008,057	6,956,527	6,878,061	6,879,634	6,945,736	6,865,971	6,597,015	6,500,897	91.5		
1909	6,472,616	6,067,639	6,155,197	6,281,087	6,295,203	6,314,849	6,376,039	6,344,246	6,514,503	6,756,335	6,854,660	6,864,428	6,848,222	88.6		
GROUPS OF INDUSTRIES: 1929																
Food and kindred products	753,247	659,034	659,850	666,925	688,430	687,824	742,626	803,218	871,068	915,433	847,063	770,045	710,979	72.0		
Textiles and their products	1,707,798	1,680,365	1,722,500	1,749,396	1,733,015	1,714,502	1,690,587	1,659,725	1,691,672	1,730,731	1,760,176	1,711,257	1,659,754	94.8		
Forest products	876,383	847,463	851,382	871,060	878,261	887,913	891,256	889,025	899,485	902,757	903,117	870,007	824,789	91.3		
Paper and allied products	233,393	227,925	230,697	232,415	232,150	231,558	232,427	231,760	234,097	236,252	239,481	238,485	233,439	95.2		
Printing, publishing, and allied industries	357,988	354,054	356,200	357,999	354,793	355,391	354,299	354,340	357,220	361,058	362,378	363,877	364,240	97.2		
Chemicals and allied products	280,888	279,563	282,176	292,240	291,907	295,750	292,006	284,401	270,212	286,304	296,556	293,639	286,267	88.3		
Products of petroleum and coal	147,216	139,657	141,659	142,503	145,218	147,652	150,089	151,084	152,550	150,317	149,915	148,088	147,554	91.7		
Rubber products	149,148	149,117	152,089	153,870	155,477	156,512	157,836	157,061	153,646	147,829	141,721	134,204	130,417	82.6		
Leather and its manufactures	318,415	303,269	316,995	319,097	312,250	305,980	303,393	317,078	334,113	342,849	340,468	320,815	304,659	88.5		
Stone, clay, and glass products	328,417	302,765	305,754	319,821	334,918	344,793	344,325	347,149	342,186	335,019	319,337	320,785	306,785	85.2		
Iron and steel and their products, not including machinery	880,882	860,716	876,852	889,502	899,319	908,076	905,670	907,493	909,331	896,102	884,236	834,405	798,252	87.8		
Nonferrous metals and their products	314,741	304,790	311,416	318,595	321,379	321,147	318,812	317,122	318,602	320,528	321,290	309,117	294,109	91.5		
Machinery, not including transportation equipment	1,091,269	1,020,210	1,047,348	1,067,707	1,089,548	1,104,100	1,122,666	1,134,361	1,137,130	1,139,070	1,137,629	1,075,061	1,019,790	89.5		
Transportation equipment, air, land, and water	583,355	569,392	619,144	645,887	659,460	655,399	621,178	612,243	594,438	582,176	529,895	452,030	459,015	68.5		
Railroad repair shops	393,156	400,551	402,888	402,573	399,477	397,920	397,131	396,528	396,839	397,074	399,566	396,889	389,838	96.8		
Miscellaneous industries	417,467	393,986	400,873	405,526	407,929	412,331	413,882	416,176	426,764	437,502	448,444	435,506	412,149	88.2		
INDUSTRIES: 1929																
Agricultural implements	41,693	42,641	44,308	45,078	45,055	44,721	43,518	41,132	38,637	37,240	37,095	39,482	40,448	82.6		
Aircraft and parts	14,710	11,128	12,400	13,592	15,012	16,101	17,484	18,881	18,124	15,870	14,256	12,480	11,687	60.5		
Alcohol, ethyl, and distilled liquors	1,484	1,313	1,339	1,414	1,320	1,447	1,522	1,432	1,602	1,677	1,739	1,577	1,419	75.5		
Aluminum manufactures	21,210	19,035	19,900	21,413	21,884	22,368	22,027	21,842	21,272	21,061	22,200	21,028	20,275	85.4		
Ammunition and related products	7,223	7,016	7,205	7,330	7,618	7,608	7,559	7,666	7,479	7,257	6,897	6,017	6,486	83.9		
Artificial and preserved flowers and plants	3,216	3,346	3,630	3,682	3,370	3,107	2,805	2,650	2,334	3,151	3,387	3,464	3,200	72.6		
Artificial leather	2,590	2,828	2,860	2,851	2,839	2,782	2,664	2,588	2,462	2,450	2,360	2,183	2,118	71.8		
Artists' materials	1,167	1,109	1,143	1,159	1,163	1,180	1,163	1,182	1,181	1,208	1,188	1,184	1,151	92.0		
Asbestos products, other than steam packing or pipe and boiler covering	8,092	7,567	7,809	8,219	8,284	8,461	8,481	8,550	8,742	8,543	8,060	7,556	7,038	80.5		
Asphalted-felt-base floor covering	2,345	2,545	2,525	2,609	2,141	2,089	2,151	2,216	2,318	2,381	2,405	2,510	2,520	82.1		
Awnings, tents, sails, and canvas covers	7,162	5,585	5,889	6,601	8,346	9,271	9,588	8,833	7,376	6,577	6,398	5,865	5,710	58.4		
Bags, other than paper, not made in textile mills	11,828	11,100	11,228	11,705	11,783	11,513	11,540	11,954	12,244	12,479	12,578	12,204	11,604	88.2		
Bags, paper, exclusive of those made in paper mills	6,970	6,550	6,840	7,136	7,285	7,098	7,072	6,998	6,979	6,930	7,125	6,931	6,687	89.8		
Baking powders, yeast, and other leavening compounds	3,006	3,016	3,072	3,108	3,076	3,079	3,035	2,969	2,944	2,935	2,905	2,973	2,956	93.4		
Baskets and rattan and willow ware, not including furniture	9,353	7,699	8,672	9,354	9,845	10,181	10,183	9,875	9,932	10,123	9,709	8,731	7,845	75.6		
Belting, other than leather and rubber, not made in textile mills	253	259	265	261	250	242	255	266	263	264	264	258	248	86.8		
Belting, leather	2,602	2,616	2,624	2,635	2,626	2,622	2,604	2,611	2,639	2,623	2,584	2,537	2,497	94.6		
Beverages	28,281	23,339	23,907	24,957	27,525	29,448	32,668	34,371	33,746	31,174	28,053	25,304	24,323	69.4		
Billiard and pool tables, bowling alleys, and accessories	1,390	1,205	1,270	1,225	1,312	1,424	1,482	1,512	1,680	1,615	1,512	1,377	1,171	72.5		
Blacking, stains, and dressings	1,617	1,610	1,654	1,679	1,641	1,631	1,639	1,641	1,650	1,581	1,604	1,580	1,568	92.8		
Bluing	105	100	101	108	106	103	104	103	106	113	111	106	103	88.5		
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rollings mills	16,175	15,601	16,195	16,464	16,714	16,902	16,909	16,990	16,666	16,288	15,938	15,100	14,532	84.4		
Bone black, carbon black, and lamp-black	1,915	1,844	1,804	1,879	1,861	1,935	1,920	1,940	1,938	2,018	1,998	1,927	1,913	80.5		
Bookbinding and blank-book making	24,754	24,236	24,556	24,830	24,700	24,367	24,146	24,635	25,180	25,167	25,217	24,974	24,986	95.8		
Boot and shoe factories	9,499	8,820	9,292	9,258	8,943	8,840	9,040	9,792	10,376	10,688	10,632	10,106	8,234	77.0		
Boot and shoe findings, not made in boot and shoe factories	10,376	9,813	10,359	10,272	10,095	9,915	9,914	10,371	11,185	11,448	11,194	10,068	9,847	85.7		
Boots and shoes, other than rubber	205,640	195,120	205,944	207,829	201,795	197,265	195,023	205,169	217,921	223,618	220,552	203,954	193,491	86.5		
Boots and shoes, rubber	25,659	25,279	24,947	25,031	24,632	23,887	24,671	25,177	26,123	26,713	27,104	27,013	27,342	87.4		
Boxes, cigar, wooden	4,374	4,159	4,161	4,189	4,108	4,217	4,222	4,370	4,616	4,633	4,706	4,661	4,456	88.4		
Boxes, paper, not elsewhere classified	55,654	55,839	54,088	54,651	54,552	53,907	53,972	54,047	55,439	57,316	59,770	68,813	56,941	89.1		
Boxes, wooden, except cigar boxes	30,554	30,171	30,445	31,330	31,651	31,726	31,209	30,751	30,148	30,320	30,911	28,478	28,478	89.8		
Bread and other bakery products	200,841	195,178	197,518	198,759	198,599	200,732	202,348	202,333	202,246	204,138	204,487	202,753	200,994	95.4		
Brooms	4,542	4,570	4,627	4,656	4,606	4,543	4,463	4,416	4,448	4,401	4,592	4,611	4,572	94.6		
Brushes, other than rubber	7,261	6,965	7,235	7,270	7,296	7,289	7,150	7,185	7,360	7,605	7,635	7,293	7,001	91.2		
Butter	19,097	17,425	17,466	17,927	18,001	19,840	20,760	20,811	20,419	19,744	19,140	18,550	18,184	83.7		
Buttons	9,034	9,338	9,481	9,291	9,069	8,902	8,691	8,330	8,597	8,833	9,166	9,261	9,386	87.9		
Candles	781	828	823	813	798	771	724	698	708	750	807	881	825	84.0		
Canning and preserving: Fish, crabs, shrimps, oysters, and clams	13,612	11,040	11,378	10,511	9,155	10,556	10,746	12,317	19,360	20,518	19,460	15,607	12,094	44.6		
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces	98,860	40,000	39,703	47,987	65,142	51,763	86,981	142,792	195,510	228,907	144,656	87,968	54,979	17.3		
Car and general construction and repairs, electric-railroad repair shops	29,476	29,880	29,498	29,522	29,272	29,072	29,020	29,054	29,820	29,818	29,833	29,356	28,954	97.0		
Car and general construction and repairs, steam-railroad repair shops	308,681	370,691	373,990	373,051	370,205	368,848	368,102	366,874	367,010	367,856	369,733	367,533	360,884	96.7		
Carbon paper and inked ribbons	1,251	1,229	1,254	1,260	1,250	1,254	1,256	1,242								

PERSONNEL

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR ALL INDUSTRIES, 1929, 1925, 1919, 1914, AND 1909, AND BY INDUSTRY GROUPS AND INDUSTRIES, 1929—Continued

[See headnote on first page of this table]

GROUP AND INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
INDUSTRIES: 1929—continued														
Carpets and rugs, rag.....	1,520	1,475	1,494	1,520	1,550	1,565	1,606	1,553	1,500	1,512	1,537	1,512	1,520	91.8
Carpets and rugs, wool, other than rag.....	32,023	32,904	33,238	33,494	33,412	33,179	32,730	31,969	31,572	32,109	33,548	33,830	29,397	86.9
Carriage, wagon, sleighs, and sled materials.....	681	723	745	714	699	688	678	665	641	653	658	647	605	86.0
Carriages and sleds, children's.....	7,102	5,850	6,618	6,965	7,288	7,329	6,885	6,927	7,350	7,949	8,340	7,733	5,985	70.1
Carriages, wagons, sleighs, and sleds.....	2,873	2,744	2,820	2,834	2,866	2,882	2,875	2,970	3,019	3,009	2,940	2,819	2,690	89.1
Cars, electric and steam railroad, not built in railroad repair shops.....	40,015	30,373	34,083	37,675	40,749	42,810	42,099	41,700	42,184	42,225	41,807	41,653	43,187	70.4
Cash registers and adding, calculating, and card-tabulating machines.....	10,840	15,555	16,633	17,219	17,321	17,119	17,335	17,033	10,774	16,773	10,968	10,805	10,540	89.7
Caskets, coffins, burial cases, and other morticians' goods.....	13,033	13,655	13,918	13,540	13,164	12,880	12,613	12,580	12,000	12,715	12,815	12,920	13,008	90.2
Cast-iron pipe.....	19,741	19,317	20,147	19,854	19,995	20,372	20,462	20,604	20,871	20,630	19,337	17,957	17,544	83.1
Cement.....	33,368	31,257	30,915	32,464	33,776	34,948	35,585	35,539	35,690	34,613	33,461	32,167	30,602	84.1
Cereal preparations.....	6,488	6,388	6,640	6,541	6,249	6,342	6,710	6,642	6,801	6,775	6,547	6,225	6,004	88.3
Cheese.....	3,401	2,891	2,918	3,059	3,393	3,683	3,842	3,866	3,762	3,579	3,413	3,200	3,137	74.8
Chemicals, not elsewhere classified.....	62,199	60,909	61,584	62,416	62,490	61,765	62,122	62,683	62,908	62,411	63,359	62,370	61,245	90.2
Chewing gum.....	2,265	2,042	2,052	2,100	2,154	2,401	2,372	2,342	2,348	2,338	2,412	2,320	2,249	84.7
China firing and decorating, not done in potteries.....	317	334	327	330	314	314	302	297	293	312	327	330	324	87.7
Chocolate and cocoa products, not including confectionery.....	6,249	6,231	6,235	6,357	6,190	5,988	5,842	5,713	5,908	6,560	7,030	6,678	6,292	81.3
Cigars and cigarettes.....	105,308	100,940	103,003	102,379	102,629	103,460	103,902	104,551	106,905	108,502	110,666	110,397	105,740	91.2
Clay products (other than pottery) and nonclay refractories.....	93,336	80,920	79,771	86,178	95,400	102,683	104,499	105,588	104,240	99,750	94,867	87,836	78,652	74.5
Cleaning and polishing preparations.....	2,713	2,638	2,734	2,774	2,833	2,808	2,710	2,691	2,721	2,688	2,707	2,656	2,500	91.6
Clocks, clock movements, time-recording devices, and time stamps.....	10,401	10,199	9,968	10,146	10,226	10,331	10,415	10,503	10,544	10,475	10,682	10,776	10,544	92.5
Clothing (except work clothing (men's, youths', and boys', not elsewhere classified).....	149,868	146,408	150,783	154,135	147,786	145,690	147,993	149,626	153,333	155,845	154,394	147,928	144,406	92.7
Clothing, men's, buttonholes.....	202	205	294	298	295	288	286	288	292	293	298	292	287	93.6
Clothing, women's, not elsewhere classified.....	187,500	181,163	192,030	199,301	195,970	186,232	173,706	163,618	182,467	198,149	201,500	191,548	184,412	81.1
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	38,201	34,650	37,471	37,599	38,354	38,283	38,263	37,810	38,769	39,756	40,141	39,523	37,825	86.3
Cloth sponging and refinishing.....	902	895	913	904	900	912	914	930	921	914	880	874	857	92.1
Coffee and spice, roasting and grinding.....	9,053	8,995	9,073	9,070	8,855	8,881	8,857	8,907	8,957	9,218	9,358	9,272	9,161	94.7
Coke, not including gas-house coke.....	20,552	19,870	20,584	20,607	20,485	20,787	20,965	21,122	21,039	20,601	20,753	20,264	19,595	92.8
Collapsible tubes.....	1,821	1,773	1,841	1,969	1,965	1,932	1,883	1,838	1,824	1,790	1,700	1,660	1,674	84.8
Collars, men's.....	2,952	3,007	3,148	3,191	3,191	3,061	2,883	2,928	2,840	2,908	2,870	2,823	2,480	77.7
Combs and hairpins, not made from metal or rubber.....	656	640	699	695	651	597	606	639	666	664	740	696	581	78.5
Compressed and liquefied gases.....	3,390	3,093	3,172	3,222	3,329	3,382	3,463	3,537	3,677	3,657	3,480	3,454	3,412	80.5
Concrete products.....	16,505	13,999	13,502	14,780	10,939	17,832	18,175	18,292	18,491	18,509	17,776	16,034	14,330	72.4
Condensed and evaporated milk.....	7,065	6,501	6,436	6,800	7,300	7,834	8,418	8,211	7,698	6,991	6,428	6,125	5,994	71.2
Confectionery.....	63,501	59,234	60,395	60,248	58,095	57,692	56,289	55,140	60,878	70,483	76,928	75,591	71,039	71.7
Cooperage.....	10,691	10,446	10,552	10,717	10,627	10,820	10,781	10,696	10,803	10,777	11,039	10,745	10,322	93.1
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	28,593	26,423	26,357	26,941	27,768	28,701	28,807	29,327	29,955	30,148	30,452	29,820	28,322	86.6
Cordage and twine.....	14,489	14,773	14,707	15,056	14,937	14,850	14,210	14,110	13,284	14,209	14,609	14,651	14,516	88.2
Cork products.....	3,842	3,687	3,713	3,880	3,931	4,085	4,003	3,948	3,979	3,894	3,718	3,676	3,594	88.0
Corn sirup, corn sugar, corn oil, and starch.....	6,780	7,022	7,218	6,880	6,739	6,457	6,254	6,231	6,417	6,761	7,095	6,707	6,894	86.3
Corsets and allied garments.....	13,664	15,053	13,474	13,927	14,639	13,640	13,840	13,685	13,680	13,686	13,673	13,615	13,435	93.0
Cotton goods.....	424,916	432,027	434,780	436,956	430,697	431,291	429,157	421,050	420,552	419,449	420,121	416,597	406,309	90.1
Cotton small wares.....	15,281	14,661	15,107	15,822	15,856	16,670	15,668	15,252	15,252	15,250	15,240	14,920	14,399	93.0
Crucibles.....	321	312	322	318	319	321	323	325	325	326	319	320	319	95.7
Cutlery (not including silver and plated cutlery) and edge tools.....	14,991	14,985	15,115	15,244	14,972	14,638	14,568	14,423	14,789	15,215	15,460	15,494	14,977	93.1
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apirists' supplies.....	5,450	5,773	5,769	5,856	5,698	5,137	5,133	5,029	5,080	5,167	5,399	5,625	5,881	85.4
Dental goods and equipment.....	4,559	4,310	4,329	4,402	4,490	4,515	4,633	4,740	4,728	4,581	4,666	4,642	4,610	90.9
Doors, shutters, and window sash and frames, metal.....	9,557	9,366	9,458	9,464	9,456	9,492	9,623	9,664	9,836	9,830	9,829	9,426	9,245	94.0
Druggists' preparations.....	10,688	10,936	11,057	10,947	10,743	10,570	10,549	10,477	10,411	10,480	10,791	10,761	10,547	94.2
Drug grinding.....	677	654	679	635	634	709	682	669	670	668	680	675	604	92.2
Dyeing and finishing textiles.....	79,327	78,757	80,698	81,643	80,948	79,265	78,218	76,926	77,929	79,064	80,535	79,783	77,592	94.2
Electrical machinery, apparatus, and supplies.....	328,722	292,232	294,317	294,630	299,704	309,257	330,048	350,447	365,850	374,146	382,709	344,504	306,809	76.4
Electroplating.....	5,928	5,504	5,803	5,980	6,256	6,135	6,135	5,977	6,007	6,088	6,126	6,108	5,275	84.8
Embroideries.....	6,622	6,693	6,816	7,009	6,864	6,516	6,102	6,688	6,163	6,702	7,121	7,017	6,770	79.9
Emery wheels and other abrasive and polishing appliances.....	3,873	3,713	3,826	3,910	3,963	3,975	3,970	3,985	4,008	3,946	3,881	3,721	3,568	89.0
Engines, turbines, tractors, and water wheels.....	61,148	59,600	62,466	64,125	66,446	66,109	65,552	63,347	57,931	56,601	57,646	57,262	56,690	85.2
Engravers' materials.....	313	317	326	321	318	317	312	307	308	304	309	308	306	93.3
Engraving (other than steel, copper-plate, or wood), chasing, etching, and diesinking.....	2,240	2,169	2,215	2,230	2,257	2,261	2,241	2,306	2,272	2,284	2,292	2,214	2,166	93.9
Engraving, steel and copperplate, and plate printing.....	10,130	9,111	9,448	9,522	9,621	9,802	9,837	10,047	10,261	10,656	10,977	11,108	10,867	84.7
Engraving, wood.....	142	136	132	136	147	147	146	146	146	147	147	141	141	91.8
Envelopes.....	10,367	10,031	10,177	10,261	10,404	10,363	10,350	10,299	10,320	10,461	10,598	10,573	10,536	94.6
Excelsior.....	1,241	1,192	1,264	1,246	1,270	1,247	1,223	1,207	1,213	1,298	1,270	1,241	1,213	91.8
Explosives.....	5,614	5,518	5,465	5,428	5,461	5,538	5,498	5,603	5,877	5,910	5,850	5,693	5,466	91.8
Fancy and miscellaneous articles, not elsewhere classified.....	18,722	17,269	17,916	18,103	17,640	17,397	17,337	17,998	19,089	20,267	21,355	21,219	19,041	80.8
Feathers, plumes, and manufactures thereof.....	257	191	205	280	277	257	252	255	287	293	289	290	260	65.2
Feeds, prepared, for animals and fowls.....	10,223	10,133	10,056	10,185	10,017	10,050	10,164	9,904	10,115	10,403	10,521	10,576	10,546	93.6

CENSUS OF MANUFACTURES: 1929

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR ALL INDUSTRIES, 1929, 1925, 1919, 1914, AND 1909, AND BY INDUSTRY GROUPS AND INDUSTRIES, 1929—Continued

[See headnote on first page of this table]

GROUP AND INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
INDUSTRIES: 1929—continued														
Felt goods, wool, hair, or jute.....	5,540	5,404	5,571	5,701	5,683	5,628	5,571	5,418	5,392	5,505	5,632	5,589	5,385	94.5
Fertilizers.....	20,926	19,946	23,377	35,195	37,767	18,688	14,847	14,554	16,287	18,961	17,941	17,381	17,210	38.5
Files.....	3,974	3,943	3,967	4,014	3,988	3,966	3,957	3,992	4,017	4,081	4,044	3,876	3,845	94.7
Firearms.....	6,838	6,878	6,901	7,011	6,997	6,948	6,800	6,885	6,844	6,798	6,728	6,633	6,477	92.4
Fire extinguishers, chemical.....	740	682	661	678	697	727	710	761	771	788	807	815	786	81.1
Fireworks.....	1,811	1,855	1,934	1,955	2,004	2,073	1,941	1,438	1,543	1,695	1,737	1,775	1,801	68.6
Flags and banners.....	938	884	875	906	937	1,015	963	921	905	917	989	969	976	80.2
Flavoring extracts and flavoring sirups.....	5,041	4,618	4,709	4,857	5,076	5,219	5,502	5,549	5,454	5,164	4,888	4,801	4,658	83.2
Flax and hemp, dressed.....	47	80	59	35	30	62	53	86	64	17	6	23	53	5.8
Flour and other grain-mill products.....	27,028	25,177	26,803	27,062	26,337	26,408	26,600	25,444	27,699	28,440	28,483	28,003	27,684	88.4
Food preparations, not elsewhere classified.....	10,616	10,077	10,314	10,653	10,563	10,573	10,695	10,460	10,502	10,780	11,335	11,074	10,372	88.9
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	20,832	20,932	21,632	22,279	22,629	22,286	21,988	21,600	21,218	20,706	18,972	18,171	18,270	80.6
Foundry and machine-shop products, not elsewhere classified.....	454,441	436,410	448,884	460,393	468,172	472,217	470,203	467,098	464,773	459,608	451,701	432,205	421,560	89.3
Foundry supplies.....	853	847	859	883	899	879	867	881	838	838	838	838	821	92.4
Fuel: Briquets and boulets.....	426	445	414	409	381	409	346	336	372	429	548	518	499	61.3
Fur goods.....	15,752	12,051	12,315	12,853	13,558	14,600	16,124	17,614	18,616	19,427	19,440	17,581	14,785	62.0
Furnishing goods, men's, not elsewhere classified.....	26,588	24,601	25,908	26,788	26,765	26,783	26,655	26,000	24,445	26,330	28,190	28,796	27,785	84.9
Furniture, including store and office fixtures.....	193,399	189,080	189,742	188,682	187,134	186,100	189,019	190,549	197,540	206,339	208,681	199,963	187,354	89.2
Furs, dressed.....	5,167	4,556	5,196	5,554	5,518	5,327	5,305	5,303	5,858	5,623	5,410	4,557	4,000	70.7
Galvanizing and other coating, not done in plants operated in connection with rolling mills.....	1,125	1,016	1,059	1,139	1,206	1,181	1,201	1,189	1,170	1,124	1,154	1,044	1,027	84.2
Gas and electric fixtures; lamps, lanterns, and reflectors.....	23,580	23,097	23,693	23,804	24,141	24,101	23,672	23,339	23,999	24,613	24,348	22,696	21,461	87.2
Gas machines, gas meters, and water and other liquid meters.....	6,101	5,697	5,832	5,907	5,925	6,051	6,175	6,173	6,211	6,279	6,294	6,353	6,314	80.7
Gas, manufactured, illuminating and heating.....	43,065	42,350	42,261	41,946	42,860	43,117	43,472	43,612	43,973	43,660	43,514	43,206	42,489	95.4
Glass.....	67,527	65,640	68,024	68,850	69,391	68,718	69,288	65,822	67,072	67,915	68,732	67,439	63,430	91.4
Glass products (except mirrors) made from purchased glass.....	6,029	6,243	6,564	6,533	6,177	5,811	5,709	5,878	6,133	6,136	5,816	5,751	5,568	85.4
Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.....	9,279	8,401	8,560	8,764	8,788	8,050	9,114	9,147	9,397	9,776	10,070	10,234	10,148	82.1
Gloves and mittens, leather.....	9,203	8,297	8,677	8,873	8,928	8,973	9,050	9,269	9,571	9,675	9,740	9,825	9,561	84.4
Glue and gelatin.....	2,993	3,180	3,151	3,159	3,112	2,995	2,817	2,670	2,537	2,858	3,021	3,211	3,204	70.0
Gold leaf and foil.....	1,177	1,154	1,187	1,183	1,183	1,190	1,187	1,171	1,159	1,173	1,172	1,172	1,187	95.5
Gold, silver, and platinum, reducing and refining, not from the ore.....	931	875	887	898	929	923	912	924	940	968	986	965	957	88.8
Graphite, ground and refined.....	494	353	371	366	402	532	570	574	594	719	694	405	260	36.2
Grease and tallow, not including lubricating greases.....	5,475	5,417	5,392	5,420	5,453	5,383	5,419	5,502	5,628	5,597	5,525	5,461	5,411	95.6
Haircloth.....	450	443	446	439	445	444	447	460	459	462	451	452	448	95.0
Hair work.....	359	350	352	354	356	347	346	358	371	378	379	378	362	87.1
Handkerchiefs.....	6,014	5,743	5,934	6,062	6,212	6,177	5,994	5,893	5,832	5,959	6,182	6,165	6,007	92.5
Hand stamps and stencils and brands.....	2,971	2,941	2,934	2,974	2,955	2,957	2,975	2,938	2,943	2,981	3,000	3,029	3,022	96.9
Hardware not elsewhere classified.....	52,306	53,290	54,881	55,125	55,143	54,396	53,788	53,425	52,635	51,369	50,114	47,405	46,094	83.6
Heat and cap materials, men's.....	2,564	2,638	2,759	2,893	2,777	2,641	2,519	2,502	2,505	2,502	2,488	2,349	2,260	77.8
Hats and caps, except felt and straw, men's.....	5,826	5,704	5,818	6,018	5,966	5,850	5,689	5,635	5,775	5,913	6,039	5,892	5,612	92.0
Hats, fur-felt.....	16,539	16,655	16,780	16,516	16,229	16,702	16,411	16,739	16,811	16,749	16,654	16,524	16,303	95.8
Hats, straw, men's.....	3,380	3,951	4,080	4,100	4,145	3,960	3,122	2,138	1,533	2,348	3,203	3,805	4,090	37.2
Hats, wool-felt.....	2,028	1,830	1,782	2,056	2,203	2,284	2,369	2,080	2,252	2,243	1,999	1,717	1,577	66.6
Hones, whetstones, and similar products.....	174	166	169	171	167	166	168	173	188	183	187	180	170	88.3
Horse blankets, fly nets, and related products.....	582	533	534	540	576	636	643	599	597	571	586	590	577	82.9
House-furnishing goods, not elsewhere classified.....	15,794	14,549	15,229	15,794	15,818	15,502	14,890	14,374	14,903	16,531	17,759	17,653	16,523	80.9
Ice cream.....	22,399	18,570	18,597	19,524	21,893	23,741	26,745	27,778	27,060	24,681	21,336	19,795	19,071	66.9
Ice, manufactured.....	32,184	23,077	23,282	25,308	30,769	34,245	40,049	43,093	43,184	40,289	32,342	26,493	24,078	53.4
Ink, printing.....	2,448	2,423	2,435	2,437	2,431	2,440	2,437	2,461	2,488	2,453	2,462	2,479	2,431	97.4
Ink, writing.....	416	380	394	394	425	430	433	442	435	445	436	405	378	84.0
Instruments, professional and scientific.....	16,876	16,609	17,209	17,840	17,738	17,979	17,690	17,283	16,967	17,538	16,183	15,206	14,374	79.9
Iron and steel: Blast furnaces.....	24,960	24,929	24,697	24,649	24,323	25,304	25,327	25,300	25,415	25,104	25,810	24,786	23,271	89.8
Iron and steel, processed.....	511	468	505	541	589	631	635	530	538	513	492	475	447	80.0
Iron and steel: Steel works and rolling mills.....	394,574	385,870	391,303	400,296	407,307	413,913	410,441	410,862	410,763	398,113	391,183	364,844	350,189	84.6
Ivory, shell, and bone work not including buttons, combs, or hairpins.....	391	372	382	389	395	403	410	404	380	385	386	391	381	90.7
Jewelry.....	27,922	27,283	27,695	27,895	27,412	27,085	26,878	26,805	27,539	29,247	30,002	29,555	27,685	89.3
Jewelry and instrument cases.....	2,269	2,086	2,154	2,193	2,161	2,208	2,251	2,209	2,235	2,336	2,445	2,534	2,418	82.3
Jute goods.....	4,931	4,843	4,943	4,970	4,883	4,839	4,891	4,859	4,925	4,938	4,997	5,066	5,075	95.2
Knit goods.....	208,488	196,156	200,576	205,256	206,992	206,638	207,297	205,136	207,995	214,097	221,603	219,954	212,310	88.1
Labels and tags.....	4,474	4,197	4,322	4,417	4,398	4,423	4,492	4,518	4,547	4,593	4,653	4,697	4,534	90.2
Lace goods.....	6,354	6,074	7,019	7,193	7,137	6,940	6,738	6,595	6,478	6,662	6,884	6,901	6,938	90.1
Lapsary work.....	806	676	560	575	611	608	484	531	565	477	422	447	410	71.2
Leads and related products.....	1,760	1,804	1,816	1,742	1,670	1,666	1,754	1,825	1,825	1,807	1,762	1,711	1,735	91.3
Leather goods, not elsewhere classified.....	6,035	5,496	5,743	6,014	6,110	6,054	5,955	6,046	6,044	6,234	6,444	6,363	5,923	85.3
Leather: Tanned, curried, and finished.....	49,632	49,572	49,962	49,160	48,552	49,335	48,613	49,764	50,976	51,795	51,533	50,933	49,692	93.3
Lime.....	8,554	7,938	7,994	8,744	9,177	9,237	9,010	9,025	8,920	8,720	8,462	8,039	7,594	80.0
Linen goods.....	2,195	2,159	2,148	2,205	2,227	2,209	2,203	2,228	2,227	2,209	2,193	2,213	2,116	94.9
Linsolium.....	5,544	5,898	5,860	5,665	5,456	5,366	5,360	5,397	5,528	5,477	5,378	5,506	5,592	93.0
Liquors, vinous.....	186	178	186	189	174	164	162	178	172	199	205	208	201	75.0
Lithography.....	18,979	18,776	18,777	18,877	18,917	19,048	18,897	18,902	18,990	19,118	19,241	19,182	19,018	97.6
Locomotives, not made in railroad repair shops.....	11,045	8,039												

PERSONNEL

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR ALL INDUSTRIES, 1929, 1925, 1919, 1914, AND 1909, AND BY INDUSTRY GROUPS AND INDUSTRIES, 1929—Continued

[See headnote on first page of this table]

GROUP AND INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
INDUSTRIES: 1929—continued														
Lumber and timber products, not elsewhere classified	410,084	400,713	400,950	416,529	421,545	430,734	431,848	430,665	435,156	430,250	428,804	413,091	388,719	89.3
Macaroni, spaghetti, vermicelli, and noodles	5,072	5,141	5,286	5,304	4,804	4,833	4,788	4,612	4,822	5,175	5,425	5,330	5,272	85.0
Machine-tool accessories and small metal-working tools, not elsewhere classified	26,682	24,432	25,349	27,035	28,311	28,979	28,411	27,331	27,080	27,089	27,527	25,684	22,902	70.0
Machine tools	47,391	48,709	45,382	46,350	46,903	47,279	47,857	48,593	48,798	49,182	49,542	48,595	46,309	88.4
Malt	590	674	658	657	630	571	516	482	523	517	588	588	580	71.5
Marble, granite, slate, and other stone products	37,817	34,626	34,881	36,937	38,304	39,008	39,475	39,143	39,751	39,528	38,908	37,492	35,631	87.1
Matches	3,760	3,884	3,830	3,824	3,756	3,671	3,631	3,546	3,627	3,810	3,898	3,859	3,790	91.0
Mats and matting, grass and coir	467	560	686	584	630	504	356	294	274	365	464	484	508	43.5
Mattresses and bed springs, not elsewhere classified	17,187	15,732	16,086	16,413	16,651	16,903	17,229	17,171	17,872	19,180	19,584	17,192	16,163	80.6
Meat packing, wholesale	122,505	128,709	125,107	118,731	116,612	118,030	121,259	122,444	120,580	122,677	123,500	124,769	127,821	90.7
Millinery	32,206	32,099	34,939	37,760	36,681	32,196	28,822	26,581	32,100	35,371	33,510	28,762	27,841	69.9
Minerals and earths, ground or otherwise treated	1,679	1,003	1,618	1,636	1,078	1,631	1,633	1,714	1,750	1,740	1,751	1,707	1,594	91.0
Mirror and picture frames	4,446	4,093	4,408	4,547	4,442	4,266	4,193	4,205	4,331	4,627	4,887	4,820	4,558	84.1
Mirrors, framed and unframed	4,782	4,711	4,775	4,876	4,835	4,765	4,681	4,704	4,822	4,892	4,921	4,806	4,599	93.5
Models and patterns, not including paper patterns	6,778	6,557	6,806	6,720	6,761	6,710	6,624	6,657	6,765	7,013	7,110	7,011	6,890	91.5
Motion pictures, not including projection in theaters	10,784	9,929	9,694	9,113	9,560	10,722	10,805	11,422	11,616	11,938	11,600	11,690	11,407	76.3
Motor-vehicle bodies and motor-vehicle parts	221,332	222,623	239,677	251,662	254,561	254,327	236,684	235,215	230,085	224,757	195,473	152,141	158,783	59.8
Motor vehicles, not including motorcycles	226,110	235,612	259,678	262,407	262,808	255,247	241,309	233,973	223,773	219,172	195,283	161,936	162,130	61.6
Motorcycles, bicycles, and parts	4,392	4,295	4,364	4,521	4,551	4,588	4,446	4,285	4,267	4,300	4,398	4,377	4,241	92.4
Mucilage, paste, and other adhesives, except glue and rubber cement	414	401	413	418	406	408	417	420	424	422	450	408	403	93.3
Musical instrument parts and materials: Piano and organ	3,090	3,506	3,434	3,267	3,105	2,901	2,767	2,543	2,982	3,166	3,277	3,268	2,870	72.5
Musical instruments and parts and materials, not elsewhere classified	3,176	3,487	3,368	3,262	3,169	3,068	2,972	2,875	3,034	3,124	3,261	3,314	3,174	82.4
Musical instruments: Organs	2,389	2,487	2,476	2,406	2,409	2,351	2,345	2,372	2,360	2,390	2,367	2,352	2,298	92.4
Musical instruments: Pianos	9,970	10,628	10,673	10,273	10,032	9,559	9,348	9,220	9,045	10,130	10,626	10,470	8,825	83.0
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills	2,027	1,999	2,010	2,023	2,008	2,028	2,041	1,989	2,073	2,068	2,086	2,053	1,998	93.0
Needles, pins, hooks and eyes, and snap fasteners	6,242	5,872	6,010	6,013	6,056	6,055	6,399	6,302	6,358	6,720	6,790	6,809	6,015	80.5
Nets and seines	903	910	938	945	919	891	892	916	918	948	831	873	858	87.7
Nonferrous-metal alloys and products, not including aluminum products	79,183	79,288	81,602	83,641	83,726	83,091	81,714	80,195	79,776	78,894	76,908	72,760	68,608	81.9
Oil, cake, and meal, cottonseed	15,225	22,028	18,521	14,525	10,953	7,300	6,309	6,670	8,880	18,068	26,155	26,109	24,375	24.1
Oil, cake, and meal, linseed	2,715	2,710	2,767	2,772	2,705	2,704	2,611	2,622	2,656	2,880	2,994	2,648	2,612	83.9
Oils, essential	265	208	226	243	270	286	261	267	274	318	301	281	247	65.8
Oils, not elsewhere classified	1,234	1,192	1,161	1,173	1,220	1,226	1,276	1,231	1,257	1,284	1,246	1,357	1,180	85.6
Oleioleath	1,412	1,405	1,359	1,396	1,394	1,339	1,379	1,366	1,386	1,438	1,407	1,481	1,508	88.9
Oleomargarine, not made in meat-packing establishments	1,534	1,596	1,585	1,594	1,549	1,502	1,474	1,438	1,426	1,442	1,580	1,614	1,607	88.3
Optical goods	9,701	9,333	9,561	9,723	9,843	9,781	9,778	9,649	9,542	9,678	9,834	9,901	9,790	94.2
Paints and varnishes	29,211	28,300	28,678	29,362	29,908	30,269	30,216	29,871	29,652	29,390	29,114	28,237	27,530	91.0
Paper	103,320	102,082	103,231	103,311	102,809	102,847	103,614	103,508	104,241	104,036	104,309	103,489	102,362	97.9
Paper goods, not elsewhere classified	20,227	19,365	19,858	20,085	20,132	20,337	20,469	20,590	20,582	20,665	20,515	20,865	19,720	93.9
Patent or proprietary medicines and compounds	16,434	17,126	17,432	17,151	16,629	16,160	15,862	15,731	15,842	16,305	16,508	16,338	16,062	90.5
Paving materials: Asphalt, tar, crushed slag, and mixtures	2,375	1,810	1,737	1,853	2,206	2,562	2,725	2,739	2,786	2,733	2,764	2,489	2,007	62.4
Peanuts, walnuts, and other nuts, processed or shelled	7,933	9,223	9,005	8,078	7,622	6,950	6,447	4,791	5,344	6,690	9,780	10,657	10,696	45.0
Pencils, lead (including mechanical)	5,703	5,513	5,650	5,782	5,817	5,736	5,747	5,649	5,798	5,896	5,882	5,715	5,202	88.2
Pens, fountain and stylographic; pen points, gold, steel, and brass	4,000	4,298	4,331	4,389	4,340	4,375	4,356	4,304	4,023	5,028	5,188	5,080	4,801	82.9
Perfumes, cosmetics, and other toilet preparations	13,109	12,693	12,864	13,150	12,852	12,850	12,788	12,870	13,106	13,535	13,780	13,630	13,177	92.0
Petroleum refining	80,696	74,444	75,913	77,063	79,001	80,641	82,662	82,972	84,176	82,969	82,551	82,191	82,571	88.4
Photographs	14,416	13,286	11,338	11,345	11,945	13,550	13,907	15,243	17,379	17,919	18,717	15,072	13,285	60.6
Photo-engraving, not done in printing establishments	12,353	12,159	12,218	12,343	12,407	12,364	12,305	12,301	12,312	12,381	12,450	12,482	12,617	97.1
Photographic apparatus and materials	12,967	11,600	11,858	12,156	12,537	12,641	12,877	13,066	13,087	13,346	13,970	14,316	14,154	81.0
Pipes (tobacco)	1,689	1,716	1,783	1,785	1,770	1,677	1,583	1,550	1,608	1,600	1,754	1,741	1,685	84.0
Planing-mill products (including general millwork), not made in planing mills connected with sawmills	90,134	88,511	88,779	90,071	91,157	91,282	93,806	92,909	92,984	92,037	90,764	86,635	82,999	89.3
Plated ware	10,728	10,389	10,670	10,641	10,577	10,571	10,587	10,585	10,689	10,933	11,203	11,165	10,852	92.7
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	27,960	29,235	29,610	29,593	29,516	29,281	28,694	28,046	28,124	27,661	26,915	25,623	23,205	78.4
Pocketbooks, purses, and cardcases	10,430	9,934	10,097	10,299	10,256	9,153	8,312	9,321	10,562	11,593	12,285	12,161	11,194	67.7
Pottery, including porcelain ware	35,409	34,323	35,283	35,700	35,922	36,037	35,765	34,094	35,331	36,614	36,305	35,695	34,846	93.0
Poultry killing, dressing, and packing, wholesale	7,769	5,677	5,156	5,257	5,875	6,521	7,357	7,912	8,514	9,085	9,858	11,272	10,750	45.7
Printing and publishing, book and job	150,649	149,949	151,215	151,429	148,387	149,068	148,892	149,103	150,803	152,413	151,269	152,375	152,888	97.1
Printing and publishing, music	810	842	943	836	815	793	780	762	783	796	814	828	822	90.4
Printing and publishing, newspaper and periodical	129,660	128,233	128,618	129,539	129,204	129,226	128,759	127,919	128,216	129,885	131,040	132,209	132,474	96.6
Printing materials, not including type or ink	1,004	1,011	998	1,006	1,026	982	967	982	1,021	1,025	1,079	1,038	916	84.9
Pulp goods	3,558	3,692	3,591	3,645	3,600	3,538	3,593	3,643	3,827	3,797	3,642	3,995	3,035	79.3
Pulp (wood and other fiber)	24,729	24,334	24,545	25,088	25,148	25,196	25,336	24,827	24,834	24,337	24,384	24,337	24,335	95.7
Pumps (hand and power) and pumping equipment	23,106	21,070	22,162	22,611	23,234	23,686	23,978	23,954	24,044	23,672	23,551	22,839	22,469	87.6
Rayon and allied products	39,106	35,600	35,827	36,043	36,576	34,970	36,280	38,754	40,592	42,188	43,584	44,808	44,055	78.0

CENSUS OF MANUFACTURES: 1929

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR ALL INDUSTRIES, 1929, 1925, 1919, 1914, AND 1909, AND BY INDUSTRY GROUPS AND INDUSTRIES, 1929—Continued

[See headnote on first page of this table]

GROUP AND INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
INDUSTRIES: 1929—continued														
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment	9,784	9,442	9,971	10,814	11,308	11,431	10,949	9,929	8,714	8,568	8,674	8,800	8,798	75.0
Refrigerators, mechanical	16,883	13,719	15,436	16,564	20,023	19,914	20,233	19,523	17,182	18,750	14,492	13,581	13,176	65.1
Regalia, badges, and emblems	1,787	1,623	1,657	1,647	1,684	1,746	1,779	1,771	1,709	1,877	1,821	1,862	1,712	84.5
Rice cleaning and polishing	1,589	1,723	1,738	1,527	1,314	1,271	1,121	1,163	1,259	1,714	2,301	2,083	1,854	48.7
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint	6,027	5,181	5,596	5,885	6,232	6,598	6,637	6,412	6,422	6,409	6,106	5,598	5,267	77.3
Rubber goods other than tires, inner tubes, and boots and shoes	40,226	30,096	40,385	41,260	41,739	41,713	41,337	41,300	40,981	40,352	39,804	38,074	36,023	87.7
Rubber tires and inner tubes	83,263	84,751	86,757	87,579	89,100	90,912	91,777	90,684	86,542	80,764	74,813	69,117	66,452	72.4
Saddlery and harness	3,330	3,628	3,660	3,589	3,479	3,273	3,122	3,080	3,052	3,204	3,293	3,339	3,305	82.8
Sales and vaults	3,033	3,074	3,069	3,052	3,006	2,905	2,900	3,002	2,967	3,040	3,050	3,064	3,092	96.0
Salt	5,458	5,361	5,401	5,390	5,259	5,159	5,258	5,588	5,661	5,669	5,776	5,603	5,394	89.0
Sand-lime brick	566	613	572	624	698	628	645	618	579	500	491	460	461	71.3
Sandpaper, emery paper, and other abrasive paper and cloth	1,228	1,114	1,113	1,192	1,220	1,200	1,304	1,204	1,213	1,243	1,339	1,294	1,200	83.2
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	5,897	5,930	5,905	5,771	5,719	5,802	5,856	5,906	5,902	5,981	5,960	6,005	6,033	94.8
Saws	4,137	4,229	4,193	4,189	4,097	4,101	4,132	4,062	4,114	4,152	4,140	4,133	4,153	93.4
Scales and balances	4,118	3,901	4,011	4,145	4,063	4,061	4,121	4,157	4,206	4,257	4,269	4,165	4,067	91.6
Screw-machine products and wood screws	19,881	19,689	20,346	21,098	21,139	21,293	21,539	21,489	20,925	19,691	18,725	16,723	15,915	73.9
Sewing machines and attachments	10,467	10,227	10,312	10,381	10,450	10,455	10,534	10,501	10,589	10,531	10,570	10,571	10,451	96.9
Ship and boat building, steel and wooden, including repair work	55,089	48,005	50,189	55,767	59,648	59,305	56,500	55,276	52,704	52,510	55,642	57,003	58,622	86.6
Shirts	59,830	58,175	59,346	59,794	60,067	59,554	58,845	58,627	59,283	60,481	61,396	61,483	60,926	94.7
Shortenings (not including lard) and vegetable cooking oils	2,712	2,687	2,816	2,706	2,647	2,639	2,716	2,585	2,670	2,827	2,799	2,817	2,633	91.4
Signs and advertising novelties	20,000	18,268	18,642	18,883	19,378	19,917	20,337	20,352	20,667	21,142	21,139	20,835	20,835	86.5
Silk and rayon manufactures	180,467	129,090	131,854	132,670	132,600	131,615	128,894	128,596	129,666	130,328	131,548	130,919	127,913	96.4
Silversmithing and silverware	5,007	4,876	4,923	5,010	4,978	4,995	4,960	4,899	4,936	5,043	5,184	5,214	5,062	93.5
Smelting and refining, copper	14,544	14,237	14,169	14,245	14,762	14,735	14,607	14,722	14,628	14,476	14,720	14,672	14,559	96.0
Smelting and refining, lead	4,819	4,803	4,570	4,624	4,831	4,800	4,884	5,026	4,859	4,853	4,970	4,810	4,704	90.9
Smelting and refining, metals other than gold, silver, or platinum, not from the ore	4,134	3,945	4,123	4,217	4,232	4,168	4,172	4,191	4,241	4,199	4,129	4,090	3,896	91.9
Smelting and refining, zinc	11,618	11,481	11,481	11,629	11,725	11,689	11,748	11,658	11,716	11,716	11,480	11,480	11,192	94.2
Soap	14,363	14,172	14,413	14,414	14,208	14,095	13,825	13,919	14,280	14,925	15,191	14,783	14,220	91.0
Soda-water apparatus	2,764	2,418	2,459	2,530	2,776	2,885	2,918	3,043	2,968	2,889	2,776	2,831	2,672	79.5
Sporting and athletic goods, not including firearms or ammunition	10,793	11,029	11,075	11,200	11,190	10,950	10,694	10,447	10,300	10,484	10,643	10,686	10,823	92.0
Springs, steel, except wire, not made in plants operated in connection with rolling mills	5,842	5,791	5,973	6,051	6,503	6,382	6,153	5,996	5,808	5,773	5,447	5,117	5,107	78.5
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	40,000	37,486	39,396	41,623	41,846	41,529	41,258	41,306	41,365	40,952	40,392	37,561	35,302	84.4
Stationery goods, not elsewhere classified	11,078	10,631	10,704	10,980	10,882	10,948	10,937	11,016	11,226	11,488	11,431	11,491	11,253	91.6
Statuary and art goods, factory product	2,112	2,030	2,015	2,080	2,059	2,002	2,049	2,068	2,113	2,179	2,224	2,348	2,173	85.3
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified	7,966	6,603	7,083	7,215	7,539	7,948	8,061	7,913	7,412	7,106	7,038	6,504	6,468	80.2
Steam fittings and steam and hot-water heating apparatus	39,621	39,728	40,865	40,403	39,167	38,429	38,400	38,406	38,857	40,851	41,442	40,913	38,400	92.7
Steel barrels, kegs, and drums	4,110	3,537	3,540	3,712	4,045	4,293	4,341	4,364	4,439	4,403	4,371	4,188	4,088	79.7
Stereotyping and electrotyping, not done in printing establishments	6,487	6,319	6,410	6,480	6,524	6,532	6,528	6,448	6,442	6,410	6,503	6,556	6,690	94.5
Stoves and ranges (other than electric) and warm-air furnaces	46,616	42,637	44,608	45,503	46,114	46,612	46,579	46,336	47,323	49,728	51,301	47,657	44,406	53.1
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills	54,947	51,952	51,867	52,323	53,674	54,738	55,055	56,600	57,929	57,764	57,371	56,076	54,026	89.5
Sugar, beet	7,499	8,591	8,620	2,673	2,758	2,370	3,114	3,548	5,100	6,129	21,379	22,164	14,003	11.8
Sugar, cane, not including products of refineries	2,819	1,653	692	608	652	695	867	980	1,018	1,226	4,986	7,204	7,238	84.0
Sugar refining, cane	13,912	13,458	13,887	14,523	14,536	13,563	14,448	14,675	14,981	13,603	14,030	13,039	12,187	81.4
Surgical and orthopedic appliances, including artificial limbs	7,010	7,462	7,643	7,755	7,795	7,850	7,806	7,859	8,159	8,251	8,404	8,045	7,890	88.8
Suspenders, garters, and other elastic woven goods, made from purchased webbing	4,341	3,941	4,170	4,381	4,301	4,283	4,107	4,347	4,430	4,631	4,789	4,654	4,082	82.6
Tanning materials, natural dyestuffs, mordants and assistants, and sizes	2,419	2,370	2,111	2,434	2,465	2,419	2,489	2,425	2,397	2,364	2,441	2,380	2,417	94.6
Textile machinery and parts	27,019	25,760	26,808	26,838	27,054	27,365	27,687	27,812	27,662	27,363	27,251	26,737	26,336	92.6
Theatrical scenery and stage equipment	547	537	568	545	517	562	518	488	515	552	588	586	583	83.0
Tin and other foils, not including gold foil	1,710	1,544	1,638	1,682	1,719	1,701	1,779	1,849	1,871	1,909	1,845	1,554	1,430	74.9
Tin cans and other tinware, not elsewhere classified	31,497	28,868	29,410	30,409	31,447	31,438	32,983	34,067	34,438	33,858	32,190	30,588	28,271	82.1
Tobacco: Chewing and smoking, and snuff	10,811	10,824	11,147	11,179	10,983	10,875	10,767	10,815	10,847	10,439	10,782	10,642	10,451	93.3
Tools, not including edge tools, machine tools, files, or saws	19,305	18,752	19,522	19,857	19,993	20,125	19,805	19,242	19,170	19,073	19,129	18,754	18,287	90.6
Toys (not including children's wheel goods or sleds), games, and playground equipment	16,660	12,839	13,748	14,913	15,364	15,869	16,198	16,683	17,807	18,881	20,287	20,144	17,183	63.3
Trimmings (not made in textile mills) and stamped art goods for embroidering	7,934	8,042	8,282	8,382	8,184	7,928	7,617	7,047	7,547	8,205	8,234	7,938	7,802	84.1
Trunks, suitcases, and bags	11,350	9,973	10,602	11,108	11,460	11,550	11,730	11,705	11,797	11,973	11,911	11,499	10,820	83.3
Turpentine and rosin	40,157	39,033	39,022	39,332	40,818	40,603	40,825	40,713	40,729	40,440	40,523	40,199	39,823	95.6
Type founding	467	446	441	450	470	476	499	483	486	472	475	462	449	90.2

PERSONNEL

TABLE 3.—WAGE EARNERS BY MONTHS, FOR ALL INDUSTRIES, 1929, 1925, 1919, 1914, AND 1909, AND BY INDUSTRY GROUPS, AND INDUSTRIES, 1929—Continued

[See headnote on first page of this table]

GROUP AND INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
INDUSTRIES: 1929—continued														
Typewriters and parts	16,945	16,012	16,412	16,620	16,776	16,844	16,940	17,280	17,325	17,453	17,504	17,375	16,801	91.5
Umbrellas, parasols, and canes	2,855	2,742	2,726	2,703	2,697	2,714	2,716	2,706	2,775	2,936	3,147	3,280	3,115	82.2
Upholstering materials, not elsewhere classified	1,410	1,362	1,430	1,408	1,420	1,389	1,357	1,352	1,375	1,398	1,440	1,495	1,493	90.4
Vinegar and cider	979	708	644	684	676	719	724	779	868	1,265	1,844	1,771	1,072	34.9
Wall paper	4,705	5,209	4,709	4,446	4,445	4,417	4,228	4,077	4,223	4,811	5,112	5,354	5,427	75.1
Wall plaster, wall board, insulating board, and floor composition	7,462	7,011	7,026	7,290	7,393	7,614	7,789	7,938	8,006	8,066	7,847	7,081	6,397	79.0
Washing machines, wringers, driers, and ironing machines, for household use	8,189	7,626	7,888	8,228	8,462	8,440	8,440	8,359	8,533	8,596	8,368	7,908	7,369	85.7
Waste	3,905	3,944	3,948	3,973	3,994	3,946	3,871	3,931	3,918	3,856	3,897	3,846	3,741	93.7
Watch and clock materials and parts, except watchcases	311	318	324	346	335	326	299	298	297	295	293	287	309	85.7
Watchcases	3,404	3,364	3,399	3,431	3,380	3,299	3,272	3,227	3,382	3,513	3,634	3,527	3,415	88.8
Watches and watch movements	10,738	11,127	11,209	10,987	10,740	10,532	10,417	10,377	10,519	10,648	10,871	10,828	10,601	92.6
Whips	57	57	54	56	58	61	64	62	53	51	48	54	61	75.0
Windmills and windmill towers	1,554	1,523	1,558	1,577	1,589	1,603	1,574	1,571	1,535	1,544	1,546	1,535	1,489	92.9
Window and door screens and weather strip	4,034	3,835	3,780	3,980	4,348	4,612	4,546	4,087	3,798	3,931	3,925	3,823	3,742	81.1
Window shades and fixtures	3,708	4,588	4,588	4,735	4,752	4,880	4,837	4,780	4,717	4,814	4,810	4,580	4,429	91.1
Wire, drawn from purchased bars or rods	22,467	21,326	21,587	21,731	22,117	22,641	23,011	23,483	23,933	24,439	24,764	24,384	19,194	77.5
Wirework, not elsewhere classified	22,388	21,051	22,067	23,023	22,768	22,167	22,192	22,589	22,640	23,697	22,883	21,301	20,472	86.4
Wood distillation and charcoal manufacture	4,648	4,539	4,544	4,613	4,524	4,496	4,651	4,588	4,575	4,627	4,788	4,908	4,929	91.2
Wood preserving	13,077	11,800	12,236	12,835	13,120	13,442	13,586	13,876	13,934	13,392	13,066	12,040	12,694	84.7
Wood turned and shaped and other wooden goods, not elsewhere classified	18,712	18,756	19,274	19,558	19,656	19,279	18,790	18,159	18,269	18,384	18,735	18,184	17,495	89.0
Woolen goods	58,474	60,482	60,485	60,387	61,439	61,215	61,764	59,883	57,978	57,082	57,518	52,169	51,290	83.0
Wool pulling	596	582	602	609	619	612	583	568	564	608	616	598	599	91.0
Wool scouring	1,302	1,344	1,403	1,254	1,152	1,170	1,233	1,307	1,303	1,322	1,337	1,381	1,416	81.4
Wool shoddy	1,762	1,954	1,885	1,884	1,800	1,780	1,770	1,798	1,716	1,705	1,683	1,600	1,482	75.8
Worsteds goods	88,485	89,356	90,960	89,911	87,950	89,423	87,895	86,266	87,718	89,672	91,129	87,191	84,346	92.6
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills	11,417	11,524	11,281	10,455	10,086	12,199	12,088	12,428	11,331	10,648	11,249	11,001	12,172	80.7

CENSUS OF MANUFACTURES: 1929

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY GEOGRAPHIC DIVISIONS AND STATES, 1929

[For statistics by States for individual industries, see Volume II. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

DIVISION AND STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum			
		January	February	March	April	May	June	July	August	September	October	November	December				
United States:																	
1929	8,838,743	8,492,857	8,677,823	8,835,116	8,902,946	8,897,938	8,912,024	8,955,949	9,093,622	9,188,768	9,085,854	8,680,712	8,341,086	90.8			
1925	8,384,261	8,124,887	8,230,830	8,342,641	8,323,608	8,259,878	8,229,843	8,255,101	8,404,848	8,611,870	8,673,870	8,621,886	8,531,873	93.7			
1919	9,060,059	8,784,860	8,589,745	8,585,615	8,572,763	8,622,710	8,767,554	9,020,427	9,247,834	9,406,847	9,379,238	9,457,990	9,566,119	89.6			
1914	6,896,190	6,936,874	7,002,408	7,103,092	7,077,018	7,008,057	6,959,527	6,878,061	6,879,534	6,945,730	6,865,971	6,597,015	6,600,897	91.5			
1909	6,472,616	6,067,633	6,156,197	6,281,087	6,295,203	6,314,849	6,375,039	6,344,246	6,514,503	6,750,335	6,854,660	6,864,423	6,848,222	88.6			
GEOGRAPHIC DIVISIONS:																	
New England	1,098,514	1,071,615	1,095,875	1,108,149	1,106,233	1,105,380	1,101,407	1,100,369	1,111,766	1,125,835	1,125,863	1,084,349	1,045,630	92.9			
Middle Atlantic	2,562,340	2,466,482	2,514,813	2,556,669	2,564,351	2,562,953	2,556,346	2,563,820	2,609,097	2,645,233	2,653,376	2,574,998	2,470,964	93.2			
East North Central	2,542,176	2,462,606	2,542,477	2,588,045	2,611,940	2,624,478	2,612,858	2,617,113	2,613,606	2,629,874	2,568,718	2,374,264	2,270,345	86.3			
West North Central	474,115	450,607	458,428	462,560	467,535	471,027	478,787	483,967	494,964	500,011	488,190	472,682	461,024	90.0			
South Atlantic	912,247	883,829	899,844	913,772	914,396	905,199	907,507	906,299	927,553	945,559	934,763	914,193	892,079	93.7			
East South Central	377,870	369,306	374,350	378,295	378,519	372,730	376,185	380,404	387,475	396,678	385,928	375,880	365,409	93.6			
West South Central	297,743	283,866	286,532	289,231	291,210	289,919	292,223	296,092	300,052	314,766	315,085	305,242	298,232	90.6			
Mountain	102,492	91,886	90,781	92,906	97,170	100,340	103,705	107,439	109,090	109,894	115,771	109,463	101,450	78.4			
Pacific	471,246	408,690	415,623	445,480	471,592	465,903	483,066	500,476	581,319	527,643	508,161	469,941	426,909	77.0			
NEW ENGLAND:																	
Maine	70,159	63,951	66,357	68,119	69,926	69,990	71,617	72,087	74,263	77,318	74,725	67,485	66,070	82.7			
New Hampshire	65,511	65,268	65,611	65,678	64,962	65,192	66,086	65,998	65,898	66,980	67,371	64,520	62,148	93.7			
Vermont	27,421	27,937	28,001	27,937	27,533	27,650	27,886	27,131	27,279	27,716	27,502	26,962	26,116	93.3			
Massachusetts	557,944	542,830	557,922	564,376	559,753	559,745	555,594	555,522	563,848	573,432	573,440	552,395	531,071	92.6			
Rhode Island	126,068	125,404	127,450	128,230	128,659	127,218	125,246	123,917	125,168	126,167	129,362	125,831	120,134	92.9			
Connecticut	251,861	246,805	250,284	254,409	255,400	256,579	254,978	255,714	255,310	254,192	253,403	247,156	239,092	93.5			
MIDDLE ATLANTIC:																	
New York	1,105,966	1,066,743	1,095,065	1,117,542	1,113,582	1,099,151	1,088,193	1,087,809	1,118,659	1,149,530	1,163,205	1,116,434	1,065,681	92.4			
New Jersey	442,328	432,605	427,966	434,371	438,966	442,640	443,866	446,608	456,082	462,403	462,814	444,851	424,766	91.3			
Pennsylvania	1,014,043	977,114	991,782	1,004,750	1,011,803	1,021,162	1,024,287	1,029,408	1,034,350	1,033,300	1,037,357	1,013,713	989,517	94.2			
EAST NORTH CENTRAL:																	
Ohio	741,143	723,067	740,203	753,905	765,789	771,684	766,768	762,402	755,491	758,748	740,542	690,832	658,256	86.3			
Indiana	314,093	296,749	305,424	316,351	318,875	322,256	324,373	322,986	325,728	334,943	326,907	299,224	283,010	84.6			
Illinois	691,555	684,929	669,576	680,093	681,903	685,323	697,124	699,081	712,511	729,779	724,572	698,293	665,477	89.7			
Michigan	530,035	532,170	558,594	572,647	579,419	578,002	557,805	551,891	548,816	537,917	496,408	429,897	416,796	71.9			
Wisconsin	264,745	255,781	262,681	265,049	265,954	267,213	266,788	280,753	271,060	268,637	270,229	250,018	246,777	87.9			
WEST NORTH CENTRAL:																	
Minnesota	103,414	99,884	101,291	102,020	101,698	102,695	104,063	105,254	107,533	108,046	104,659	103,926	99,901	92.4			
Iowa	81,678	77,138	78,239	78,006	79,223	80,345	81,776	83,284	86,240	90,624	84,149	81,047	79,965	85.1			
Missouri	202,879	190,950	196,682	200,382	202,248	201,765	204,213	206,579	211,869	212,596	210,323	201,391	195,615	89.3			
North Dakota	4,024	3,650	3,677	3,677	3,705	3,993	4,177	4,381	4,294	4,311	4,275	4,222	3,977	82.0			
South Dakota	6,634	6,703	6,548	6,389	6,275	6,294	6,547	6,651	6,611	6,482	6,531	6,589	6,900	92.3			
Nebraska	28,212	26,274	26,072	26,326	27,297	27,772	28,905	28,903	29,358	29,373	30,246	29,079	28,939	86.2			
Kansas	47,373	45,599	46,019	45,760	47,029	48,103	49,101	48,835	49,059	48,649	48,007	46,428	45,827	92.9			
SOUTH ATLANTIC:																	
Delaware	23,552	21,866	21,877	22,166	22,368	23,073	23,475	23,757	26,041	27,819	25,704	22,487	22,051	78.4			
Maryland	131,099	121,063	124,627	126,879	129,147	128,673	130,504	132,696	141,203	147,868	137,708	128,550	124,270	81.9			
District of Columbia	9,752	9,909	9,621	9,677	9,858	9,866	9,852	9,737	9,713	9,741	9,791	9,765	9,796	97.4			
Virginia	120,273	115,319	116,209	118,446	120,986	119,510	120,406	121,512	124,946	127,905	125,426	120,465	114,147	88.6			
West Virginia	85,920	83,313	84,539	85,721	86,202	86,143	86,861	86,893	86,774	86,694	86,323	84,023	81,786	94.1			
North Carolina	209,826	206,624	208,711	211,452	212,637	209,695	208,061	206,009	208,797	211,828	213,259	212,063	208,756	96.6			
South Carolina	108,777	108,624	109,245	111,668	107,449	107,978	108,460	107,532	108,001	109,347	109,643	109,694	107,143	96.0			
Georgia	158,774	157,822	159,728	162,685	161,510	156,882	157,622	157,138	158,753	159,692	160,622	158,132	156,593	95.6			
Florida	64,868	64,149	64,787	65,278	64,230	63,373	63,266	62,325	62,725	64,005	66,887	68,994	68,797	90.2			
EAST SOUTH CENTRAL:																	
Kentucky	77,825	75,414	77,444	78,475	78,059	78,513	78,980	79,324	80,837	81,732	78,728	74,571	71,825	87.9			
Tennessee	128,400	125,744	125,838	127,033	127,376	124,556	127,441	129,616	133,373	134,885	133,075	120,401	124,462	91.7			
Alabama	110,559	118,291	119,441	121,044	120,611	117,862	118,206	119,318	120,526	120,144	120,926	119,011	118,733	93.4			
Mississippi	82,086	81,857	81,027	81,743	82,473	81,799	81,568	82,146	82,739	83,512	83,198	81,997	80,583	94.2			
WEST SOUTH CENTRAL:																	
Arkansas	44,205	42,317	41,947	42,117	42,567	42,238	43,370	45,112	49,321	50,490	46,779	43,276	40,920	81.1			
Louisiana	87,945	84,858	84,202	86,028	86,055	85,271	84,966	85,084	88,341	88,902	83,300	81,606	80,527	90.2			
Oklahoma	31,995	30,109	29,886	30,199	30,379	30,794	31,964	32,467	33,560	33,854	33,547	31,538	32,043	88.3			
Texas	134,498	133,082	130,467	130,837	132,209	131,616	131,923	133,399	137,830	141,520	141,459	138,822	135,736	90.5			
MOUNTAIN:																	
Montana	14,869	14,253	14,222	14,351	14,805	14,908	15,012	14,950	15,457	14,744	15,983	15,569	14,174	88.7			
Idaho	15,648	12,792	12,235	12,702	14,386	16,120	17,145	17,275	17,543	17,260	18,378	17,493	14,451	66.6			
Wyoming	6,288	5,997	5,820	5,804	5,957	6,050	6,231	6,473	6,406	6,427	7,000	6,837	6,094	82.0			
Colorado	32,990	29,490	29,373	29,944	31,004	31,783	32,674	33,227	33,923	34,081	37,533	36,109	35,569	78.2			
New Mexico	4,476	4,277	4,341	4,266	4,416	4,596	4,691	4,601									

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TABLE 5.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, BY INDUSTRY GROUPS: 1929

[The average number of wage earners employed during the year in each establishment is classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours. The establishments (7,426 in number) which reported no wage earners are classified under the appropriate heads, according to the numbers of hours the plants were in operation per week.]

GROUP	TOTAL NUMBER OF—		HOURS NOT REPORTED		UNDER 40 HOURS		40 HOURS		OVER 40 BUT UNDER 44 HOURS		44 HOURS AND OVER BUT UNDER 45	
	Establishments	Wage earners (average for the year)	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners
All industries.....	210,959	8,838,743	26,196	88,567	3,333	30,946	8,488	246,739	1,919	83,614	33,350	811,216
Food and kindred products.....	56,320	753,247	8,322	15,283	1,578	7,620	624	6,557	646	5,229	1,566	36,716
Textiles and their products.....	27,404	1,707,798	1,452	9,510	243	7,484	2,606	55,108	357	21,132	9,879	276,213
Forest products.....	20,912	874,383	7,934	39,945	351	6,874	1,030	35,557	72	3,458	2,516	46,946
Paper and allied products.....	3,126	233,393			19	306	86	6,743	24	1,581	317	7,763
Printing, publishing, and allied industries.....	27,522	357,988	3,858	9,773	416	1,096	298	1,559	339	13,716	10,038	102,830
Chemicals and allied products.....	8,278	280,868	156	443	182	927	146	1,059	115	1,050	1,982	22,075
Products of petroleum and coal.....	1,497	147,216	7	30	38	350	8	964	20	124	50	2,776
Rubber products.....	525	149,148	13	34	6	58	18	1,287	6	481	63	19,902
Leather and its manufactures.....	4,277	318,415	254	628	40	1,221	71	5,133	27	1,908	800	29,200
Stone, clay, and glass products.....	8,514	328,417	605	1,748	82	1,565	622	11,820	45	1,358	1,446	24,595
Iron and steel and their products, not including machinery.....	6,640	880,882	391	1,405	57	7,332	181	19,804	32	6,010	902	41,000
Nonferrous metals and their products.....	7,522	314,741	815	2,202	52	420	385	7,567	60	1,952	2,316	39,228
Machinery, not including transportation equipment.....	12,955	1,091,269	870	3,458	88	1,867	222	8,124	49	10,830	1,823	58,146
Transportation equipment, air, land, and water.....	2,550	583,355	99	325	10	114	58	58,091	10	322	387	31,168
Railroad repair shops.....	2,207	398,156	3	14	1	1,303	37	11,225	2	501	84	28,081
Miscellaneous industries.....	14,620	417,467	1,417	3,769	170	1,403	2,007	16,141	116	9,924	4,172	48,547

GROUP	45 HOURS AND OVER BUT UNDER 46		48 HOURS		OVER 48 HOURS BUT UNDER 54		54 HOURS		OVER 54 BUT UNDER 60 HOURS		60 HOURS AND OVER	
	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners
All industries.....	10,313	485,539	41,217	2,352,296	29,243	2,200,125	14,084	554,592	14,694	1,320,932	23,122	655,177
Food and kindred products.....	975	23,173	12,076	242,073	3,284	99,870	6,399	103,804	4,140	60,904	15,810	151,946
Textiles and their products.....	2,307	103,868	3,802	373,183	3,702	324,832	889	120,444	1,516	336,970	471	74,054
Forest products.....	866	27,653	3,275	142,759	4,028	177,998	1,622	54,184	2,477	140,025	2,741	200,984
Paper and allied products.....	318	9,092	1,009	116,591	812	61,362	117	9,378	107	11,168	257	19,409
Printing, publishing, and allied industries.....	1,457	31,142	8,197	172,663	1,800	17,241	1,014	5,055	149	1,890	256	1,023
Chemicals and allied products.....	605	18,863	1,251	78,467	1,307	52,271	445	9,781	801	62,728	1,220	33,204
Products of petroleum and coal.....	13	414	349	68,040	78	1,063	59	1,850	584	64,091	201	6,628
Rubber products.....	55	32,789	114	53,257	163	25,477	15	2,981	59	7,077	13	1,467
Leather and its manufactures.....	389	18,081	1,004	104,507	1,245	114,674	236	32,022	103	9,532	39	1,509
Stone, clay, and glass products.....	370	17,374	1,149	65,493	1,416	75,818	1,060	35,138	793	53,307	926	40,291
Iron and steel and their products, not including machinery.....	478	88,032	888	221,684	2,315	227,004	317	43,581	831	189,326	248	84,804
Nonferrous metals and their products.....	476	12,820	1,185	57,929	1,614	114,215	179	6,625	375	70,552	65	4,222
Machinery, not including transportation equipment.....	877	77,132	2,244	285,346	4,311	443,714	1,016	68,245	1,125	116,442	390	18,495
Transportation equipment, air, land, and water.....	128	27,877	534	50,133	900	318,130	173	80,254	106	61,880	56	6,891
Railroad repair shops.....	40	11,632	966	215,130	76	12,639	144	4,056	778	108,595	106	4,833
Miscellaneous industries.....	969	34,718	2,184	105,041	2,492	142,914	399	21,148	481	26,845	224	7,017

CENSUS OF MANUFACTURES: 1929

TABLE 6.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, BY INDUSTRIES: 1929

[The average number of wage earners employed during the year in each establishment is classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours. The establishments (7,428 in number) which reported no wage earners are classified under the appropriate heads, according to the numbers of hours the plants were in operation per week. In cases where the item for a certain group can not be given separately without disclosing data for individual establishments, it has been combined with that for another group. In such cases an "x" is shown in the column in which the item has been omitted, and the item for the group with which it has been consolidated is printed in italics. In the totals for all industries the data for each establishment are included in the item for the group in which the establishment properly belongs, and therefore the totals differ from the sums of the items in the respective columns.]

INDUSTRY	TOTAL NUMBER OF—		HOURS NOT REPORTED		40 HOURS AND UNDER		OVER 40 BUT UNDER 45 HOURS		45 TO 48 HOURS, INCLUSIVE		OVER 48 BUT NOT OVER 54 HOURS		OVER 54 HOURS	
	Estab-lish-ments	Wage earners (average for the year)	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners
All industries, total.....	210,959	8,838,743	26,199	88,567	11,821	286,685	40,269	894,830	51,630	2,837,835	43,327	2,754,717	37,810	1,976,109
Agricultural implements.....	293	41,663	37	160	6	34	21	1,167	32	1,000	130	32,695	07	6,598
Aircraft and parts.....	132	14,710	2	(x)	2	14	15	975	58	9,484	50	3,910	5	327
Alcohol, ethyl, and distilled liquors.....	30	1,484	1		1	(x)			6	268	4	98	10	1,128
Aluminum manufactures.....	150	21,210	5	13	4	296	39	1,236	24	4,309	66	14,101	12	1,255
Ammunition and related products.....	21	7,223	1		1	(x)			5	1,742	7	1,320	3	3,167
Artificial and preserved flowers and plants.....	191	3,216	32	116	6	57	72	1,096	60	1,092	19	810	3	45
Artificial leather.....	17	2,590	1		1	(x)			6	1,572	6	661	4	357
Artists' materials.....	68	1,167	7	18	4		21	387	17	347	16	367	3	39
Asbestos products, other than steam packing and pipe and boiler covering.....	67	8,092	3	0	1	(x)	3	205	19	1,519	24	3,859	17	2,508
Asphalted-felt-base floor covering.....	14	2,345							3	424	4	670	7	1,251
Awnings, tents, sails, and canvas covers.....	1,002	7,162	161	474	10	22	237	1,501	276	1,026	260	2,899	58	340
Bags, other than paper, not made in textile mills.....	202	11,828	8	14	11	114	34	1,857	51	2,921	80	5,909	18	1,013
Bags, paper, exclusive of those made in paper mills.....	95	6,970					10	181	28	1,899	53	4,396	4	494
Baking powders, yeast, and other leavening compounds.....	48	3,006	5	7	3	23	7	242	28	2,468	4	266	1	(x)
Baskets and rattan and willow ware, not including furniture.....	273	9,353	30	161	6	61	22	439	40	897	97	3,221	78	4,574
Belted other than leather and rubber, not made in textile mills.....	9	255						(x)	2	14	4	241	1	(x)
Belted, leather.....	207	2,602	12	10	1	(x)	25	58	43	684	108	1,693	18	151
Beverages.....	5,164	28,281	680	1,079	396	1,196	283	3,179	1,650	10,375	1,002	6,676	1,144	5,776
Billiard and pool tables, bowling alleys, and accessories.....	40	1,390	3	0			9	44	10	76	16	1,261	2	(x)
Blacking, stains, and dressings.....	170	1,617	5	0	11	44	56	296	65	507	31	764	2	(x)
Bluing.....	20	105	1	(x)	3	42	7	24	5	16	4	23		
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	117	16,175	4	15	5	596	9	289	14	2,047	54	6,064	31	7,164
Bone black, carbon black, and lampblack.....	77	1,915					1	(x)	1	(x)	3	185	72	1,730
Bookbinding and blank-book making.....	1,108	24,754	122	375	8	58	345	5,703	566	10,000	64	1,952	3	606
Boot and shoe cut stock, not made in boot and shoe factories.....	210	9,499	13	24	5	61	18	263	105	6,846	64	2,104	5	201
Boot and shoe findings, not made in boot and shoe factories.....	382	10,376	8	27	12	161	46	660	163	3,778	147	5,508	6	242
Boots and shoes, other than rubber.....	1,341	205,640	47	148	46	4,797	252	17,282	549	94,484	419	84,595	28	4,334
Boots and shoes, rubber.....	22	25,659					4	3,643	9	11,676	8	10,340	1	(x)
Boxes, cigar, wooden.....	118	4,374	6	34	11	169	15	192	23	587	47	2,491	16	901
Boxes, paper, not elsewhere classified.....	1,249	55,054			48	995	163	3,903	481	10,166	484	26,025	73	5,565
Boxes, wooden, except cigar boxes.....	792	30,554	6	317	25	603	78	1,618	125	3,373	289	11,636	209	13,007
Bread and other bakery products.....	20,785	200,841	4,191	7,761	300	1,807	393	8,955	7,224	79,381	4,103	71,048	4,574	31,899
Brooms.....	407	4,542	70	240	44	473	95	709	45	534	111	2,030	42	555
Brushes, other than rubber.....	303	7,201	30	77	10	53	68	1,351	66	1,823	116	3,720	13	237
Butter.....	3,527	19,097	65	60	112	178	51	110	582	2,163	505	3,922	2,212	12,674
Buttons.....	242	9,034	26	122	3	24	42	448	49	2,837	77	3,833	45	1,770
Candles.....	20	781	1	(x)			3	44	3	66	12	671	1	(x)
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	348	13,612	14	69	63	2,723	20	387	112	3,986	62	3,114	77	3,393
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	2,997	98,866	444	1,082	233	2,420	154	3,817	617	19,494	613	33,438	936	38,015
Car and general construction and repairs, electric-railroad repair shops.....	446	29,475	1	(x)	2	103	31	5,300	69	6,369	170	14,089	167	3,664
Car and general construction and repairs, steam-railroad repair shops.....	1,851	368,681	2	(x)	36	12,459	55	23,282	987	220,393	44	2,653	777	100,914
Carbon paper and inked ribbons.....	57	1,251	2	(x)	2	8	22	132	23	729	8	382		
Cardboard, not made in paper mills.....	13	609					3	13	3	281	5	515	2	(x)
Card cutting and designing.....	70	2,338			2	(x)	18	648	32	932	18	768		
Carpets and rugs, rag.....	94	1,629			4	18	15	181	41	203	29	963	5	214
Carpets and rugs, wool, other than rag.....	67	32,623			2	(x)	5	1,656	31	14,875	23	11,747	6	4,346
Carriage, wagon, sleigh, and sled materials.....	45	681	5	17	5	76	2	(x)	3	87	19	256	11	295
Carriages and sleds, children's.....	79	7,102			1	(x)	9	257	6	170	55	5,616	8	1,053
Carriages, wagons, sleighs, and sleds.....	88	2,873			7	97	11	249	12	269	44	1,930	14	328
Cars, electric and steam railroad, not built in railroad repair shops.....	147	40,015					27	2,631	65	11,320	37	18,407	18	7,757
Cash registers and adding, calculating, and card-tabulating machines.....	46	16,840	2	(x)			7	672	17	2,402	18	13,866	2	(x)
Caskets, coffins, burial cases, and other morticians' goods.....	414	13,033	33	102	10	256	61	1,219	102	3,223	163	6,875	45	1,358
Cast-iron pipe.....	72	19,741			11	1,567	1	(x)	13	4,302	18	5,900	29	7,972
Cement.....	174	33,368			1	(x)	1	(x)	18	5,373	8	1,650	146	23,345
Cereal preparations.....	121	6,488	0	16	7	94	13	1,653	22	3,074	27	522	43	1,129
Cheese.....	2,758	3,401	160	102	27	21	42	69	159	232	103	513	2,207	2,464
Chemicals, not elsewhere classified.....	551	62,199			7	43	64	1,219	138	21,468	130	11,289	212	28,180
Chewing gum.....	37	2,255	1	(x)	2	20	7	206	12	1,173	14	866	1	(x)
China firing and decorating, not done in potteries.....	27	317	7	22	2	(x)	6	59	7	127	5	109		
Chocolate and cocoa products, not including confectionery.....	59	6,249					4	113	18	1,520	28	3,992	9	624
Cigars and cigarettes.....	1,636	105,308	226	576	103	2,882	445	10,983	375	25,474	312	55,201	85	10,192
Clay products (other than pottery) and nonclay refractories.....	1,749	93,336			47	2,351	85	3,316	335	17,703	674	42,041	608	27,925
Cleaning and polishing preparations.....	429	2,713	7	5	39	58	190	701	78	837	91	802	15	310
Clocks, clock movements, time-recording devices, and time stamps.....	56	10,401	2	(x)	3	31	8	2,739	17	1,876	23	4,236	3	1,519
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	3,691	149,868	502	3,543	289	11,182	2,035	61,774	545	24,752	299	17,625	21	992
Clothing, men's, buttonholes.....	32	292	13	46	2	(x)	11	185	3	39	3	22		
Clothing, women's, not elsewhere classified.....	8,082	187,500	507	4,016	1,963	33,115	3,933	85,007	1,209	41,432	459	23,479	11	451

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TABLE 6.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	TOTAL NUMBER OF—		HOURS NOT REPORTED		40 HOURS AND UNDER		OVER 40 BUT UNDER 45 HOURS		45 TO 48 HOURS, INCLUSIVE		OVER 48 BUT NOT OVER 54 HOURS		OVER 54 HOURS	
	Estab-lish-ments	Wage earners (average for the year)	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	511	38,201	19	151	41	978	217	17,518	105	6,263	119	12,142	10	1,149
Cloth sponging and refinishing.....	46	902	1	(x)			30	702	13	200	2	(x)		
Coffee and spice, roasting and grinding.....	928	9,053	34	26	72	272	157	1,289	244	2,737	302	4,091	119	638
Coke, not including gas-house coke.....	153	20,552			9	1,007			65	8,854	28	1,356	51	9,335
Collapsible tubes.....	17	1,821					2	550	1	(x)	14	1,492		
Collars, men's.....	15	2,952	1	(x)	1	(x)	6	152	4	1,875	3	925		
Combs and hairpins, not made from metal or rubber.....	24	653			1	(x)	7	89	8	237	8	330		
Compressed and liquefied gases.....	254	3,390					11	83	7	872	50	484	215	1,951
Concrete products.....	2,438	16,505	328	821	106	558	323	2,563	418	2,562	799	6,527	464	3,474
Condensed and evaporated milk.....	535	7,055	5	5	5	16	4	9	74	548	129	2,560	318	3,927
Confectionery.....	2,021	63,501	202	658	135	1,407	263	6,277	650	19,634	508	27,486	145	8,039
Cooperage.....	586	10,691	95	254	26	263	74	1,226	115	1,989	151	4,112	125	2,847
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	2,161	28,593	321	913	260	2,372	864	9,023	317	4,043	332	7,791	77	3,851
Cordage and twine.....	123	14,489			2	(x)	6	183	30	4,668	39	4,070	46	5,561
Cork products.....	35	3,842	1	(x)	2	407	4	56	7	160	17	1,596	4	1,023
Corn sirup, corn sugar, corn oil, and starch.....	35	6,730	13	64			3	182	6	3,860	5	197	8	2,427
Corsets and allied garments.....	213	13,664	12	21	13	602	86	3,870	76	5,847	26	3,324		
Cotton goods.....	1,281	424,916			26	5,290	23	2,045	214	90,407	199	57,635	819	260,530
Cotton small wares.....	202	15,281			3	83	19	503	70	5,553	77	7,302	33	1,835
Crucibles.....	11	321							4	108	6	163	1	(x)
Cutlery (not including silver and plated cutlery) and edge tools.....	239	14,991	11	45	11	263	25	449	64	4,761	102	7,140	26	2,333
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultry-men's and apiarists' supplies.....	172	5,450	18	83	5	109	23	375	28	1,179	67	2,199	31	1,505
Dental goods and equipment.....	87	4,559	5	9	2	(x)	34	215	30	2,412	12	1,515	4	410
Doors, shutters, and window sash and frames, metal.....	148	9,557	7	23	25	445	53	2,532	10	2,191	40	4,052	4	314
Druggists' preparations.....	499	10,688	13	46	32	269	172	2,401	120	4,903	77	2,880	15	180
Drug grinding.....	26	677					3	37	8	367	12	156	3	117
Dyeing and finishing textiles.....	732	79,327			23	1,075	93	3,432	262	32,064	244	25,644	110	17,112
Electrical machinery, apparatus, and supplies.....	1,802	323,722	124	554	33	705	302	17,218	561	194,485	675	104,267	107	11,493
Electroplating.....	534	5,928	92	268	9	98	109	912	148	1,784	155	2,561	21	315
Embroideries.....	813	6,022	64	243	59	367	264	2,107	149	1,676	267	2,185	10	44
Emery wheels and other abrasive and polishing appliances.....	67	3,873	2	(x)	3	17	6	66	15	435	34	3,020	7	335
Engines, turbines, tractors, and water wheels.....	190	61,148	5	33	3	22	23	7,005	36	7,002	96	32,394	36	14,032
Engravers' materials.....	19	313	1	(x)			4	19	5	140	9	154		
Engraving (other than steel, copperplate, or wood), chasing, etching, and die-sinking.....	189	2,240	47	105	5	9	61	275	60	1,316	13	497	3	38
Engraving, steel and copperplate, and plate printing.....	456	10,130	47	189	8	21	140	4,074	220	4,849	40	997	1	(x)
Engraving, wood.....	27	142	7	12			13	96	5	34	2	(x)		
Envelopes.....	171	10,367			3	15	21	523	99	6,203	47	3,926	1	(x)
Excelsior.....	66	1,241	2	(x)	2	21	3	68	3	104	17	327	30	721
Explosives.....	95	5,614			8	50	13	1,959	50	2,095	11	582	13	28
Fancy and miscellaneous articles, not elsewhere classified.....	814	18,722	117	445	33	432	283	5,354	221	6,120	150	5,479	10	892
Feathers, plumes, and manufactures thereof.....	30	257	8	22	1	(x)	18	199	12	109				
Feeds, prepared, for animals and fowls.....	750	10,223	35	33	41	191	25	353	124	1,874	189	2,563	330	5,269
Felt goods, wool, hair, or jute.....	54	5,540					1	(x)	14	1,692	24	2,659	15	1,189
Fertilizers.....	638	20,926	7	78			17	337	57	1,708	125	2,815	432	15,898
Filcs.....	33	3,974			1	(x)	4	110	9	2,127	16	1,683	3	54
Firearms.....	21	6,338	2	16			1	(x)	2	(x)	3	5,511	3	1,282
Fire extinguishers, chemical.....	28	740	3	9	1	(x)	4	113	10	158	8	1,160	2	(x)
Fireworks.....	50	1,811	3	37					17	230	27	1,207	3	337
Flags and banners.....	54	938	6	13	1	(x)	15	104	10	193	12	633	1	(x)
Flavoring extracts and flavoring sirups.....	642	5,041	82	111	29	71	194	1,534	189	2,100	120	1,014	28	211
Flax and hemp, dressed.....	6	47											6	47
Flour and other grain-mill products.....	4,022	27,028	1,124	718	255	601	52	376	430	11,525	432	2,337	1,729	11,471
Food preparations, not elsewhere classified.....	802	10,616	136	258	49	153	136	1,569	217	1,949	215	4,095	109	2,592
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	218	20,882	6	22	10	1,604	17	354	26	3,220	104	9,065	55	6,617
Foundry and machine-shop products, not elsewhere classified.....	8,605	454,441	612	2,376	241	8,556	1,342	36,076	1,996	116,118	3,404	213,505	1,010	77,810
Foundry supplies.....	50	853	2	(x)	2	27	7	74	8	208	24	326	16	218
Fuel: Briquettes and boulets.....	23	426					2	(x)	10	222	1	(x)	10	164
Fur goods.....	2,855	15,752			1,556	9,281	855	3,846	337	1,722	95	749	33	154
Furnishing goods, men's, not elsewhere classified.....	598	26,588	63	311	28	448	235	7,257	158	9,575	109	8,094	5	903
Furniture, including store and office fixtures.....	3,778	193,399	374	1,034	206	7,305	335	17,391	533	25,473	1,284	98,390	406	48,806
Furs, dressed.....	248	5,167			37	1,046	119	1,945	45	785	41	1,087	6	304
Galvanizing and other coating, not done in plants operated in connection with rolling mills.....	65	1,125	6	11	1	(x)	6	40	13	137	19	467	20	470
Gas and electric fixtures; lamps, lanterns, and reflectors.....	614	23,580	49	143	26	1,117	155	2,859	191	7,638	177	10,849	16	974
Gas machines, gas meters, and water and other liquid meters.....	72	6,101	2	14	1	(x)	6	1,542	24	1,617	38	2,928	1	(x)
Gas, manufactured, illuminating and heating.....	754	43,065			34	284	21	2,371	129	16,287	34	537	536	23,586
Glass.....	263	67,627	2	(x)	7	2,022	28	3,513	142	40,325	45	10,084	39	11,033
Glass products (except mirrors) made from purchased glass.....	431	6,029	50	157	39	277	141	1,143	95	2,532	95	1,750	11	165
Gloves and mittens, cloth or leather combined, made from purchased fabrics.....	125	9,279	5	39	14	246	13	418	21	1,032	61	7,260	11	234
Gloves and mittens, leather.....	257	9,203	15	53	10	222	53	1,090	37	1,171	92	4,571	50	2,096
Glue and gelatin.....	74	2,993	3	7	2	(x)	20	422	8	693	24	1,065	14	906
Gold leaf and foil.....	75	1,177	8	23	3	19	17	103	13	200	31	811	3	21
Gold, silver, and platinum, reducing and refining, not from the ore.....	69	931	6	8	2	(x)	34	497	9	133	16	293	2	(x)
Graphite, ground and refined.....	11	494					2	(x)	3	46	2	(x)	4	448
Grease and tallow, not including lubricating greases.....	297	5,475	16	46	4	24	18	130	56	803	96	2,163	107	2,303

CENSUS OF MANUFACTURES: 1929

TABLE 6.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	TOTAL NUMBER OF—		HOURS NOT REPORTED		40 HOURS AND UNDER		OVER 40 BUT UNDER 45 HOURS		45 TO 48 HOURS, INCLUSIVE		OVER 48 BUT NOT OVER 64 HOURS		OVER 64 HOURS		
	Estab-lish-ments	Wage earners (average for the year)	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	
Haircloth.....	13	450	1	(x)	1	(x)	1	57	4	115	6	278			
Hair work.....	59	359	12	32	3	14	20	144	19	180	4	39	1	(x)	
Handkerchiefs.....	105	6,014	4	20	3	33	35	701	32	2,953	30	2,304	1	(x)	
Hand stamps and stencils and brands.....	332	2,971	38	97	6	27	97	616	127	1,624	54	478	10	120	
Hardware not elsewhere classified.....	455	52,306	21	97	12	300	60	1,597	103	7,377	237	37,246	52	5,599	
Hat and cap materials, men's.....	112	2,594	18	44	5	179	37	451	25	901	22	756	5	233	
Hats and caps, except felt and straw, men's.....	576	5,526			105	1,923	209	2,115	167	1,336	32	438	3	14	
Hats, fur-felt.....	159	16,539			22	718	80	4,661	24	6,124	30	4,877	3	159	
Hats, wool-felt.....	50	3,350			1	(x)	21	1,033	15	816	12	1,481	1	(x)	
Hats, straw, men's.....	14	2,174			1	(x)			2	353	5	497	6	1,178	
Hones, whetstones, and similar products.....	6	174										3	174	1	(x)
Horse blankets, fly nets, and related products.....	14	582	1	(x)			2	(x)			3	174	1	(x)	
House-furnishing goods, not elsewhere classified.....	964	15,794			2	46	5	39	1	(x)	4	381	3	123	
Ice cream.....	3,150	22,309	368	412	59	707	319	3,744	435	7,326	132	3,122	19	835	
Ice, manufactured.....	4,110	32,184	512	2,097	270	260	76	226	484	3,656	304	5,139	1,588	12,716	
Ink, printing.....	147	2,448			11	33	16	105	313	3,618	83	581	3,175	25,850	
Ink, writing.....	29	416			5	11	12	454	2	1,119	38	364	1	(x)	
Instruments, professional and scientific.....	276	16,876	23	69	4	18	12	116	7	248	8	52		642	
Iron and steel: Blast furnaces.....	105	24,960			1	(x)	82	5,040	82	4,873	81	6,228	4	642	
Iron and steel, processed.....	46	511	2	4	1	(x)	2	(x)	27	10,087	2	(x)	75	14,373	
Iron and steel: Steel works and rolling mills.....	486	394,574			21	13,625	39	22,716	107	151,370	128	48,115	191	313	
Ivory, shell, and bone work, not including buttons, combs, or hairpins.....	21	391	2	(x)			5	80	3	36	11	266		158,748	
Jewelry.....	1,536	27,922	197	408	74	623	764	8,765	304	13,623	116	3,885	21	718	
Jewelry and instrument cases.....	113	2,260	11	16	5	15	17	185	50	1,582	22	471	2	(x)	
Jute goods.....	20	4,931							6	3,142	8	959	6	830	
Knit goods.....	1,888	208,488			33	930	215	8,188	713	55,568	593	87,834	334	55,068	
Labels and tags.....	153	4,474							77	2,332	37	7,700	2	(x)	
Lace goods.....	42	6,354							10	2,381	24	3,949	6	524	
Lapidary work.....	100	606	24	40	5	9	56	269	10	142	5	46		(x)	
Lasts and related products.....	58	1,700			3	68	5	28	28	673	21	743	1	(x)	
Leather goods, not elsewhere classified.....	392	6,035	58	117	8	17	113	1,490	130	2,556	71	1,736	6	119	
Leather: Tanned, curried, and finished.....	471	49,932	1	(x)	5	537	30	2,104	58	4,412	339	40,026	38	2,853	
Lime.....	237	8,554	3	44	1	(x)	3	56	43	953	59	2,533	128	4,968	
Linen goods.....	16	2,195							4	1,457	3	364	1	(x)	
Linoleum.....	7	5,544							8	(x)	2	1,475	4	4,069	
Liquors, vinous.....	24	186			2	(x)	4	29	1	8	3	115	3	17	
Litho, raphing.....	376	18,979	18	30	0	170	45	904	207	17,548	6	7	1	(x)	
Locomotives, not made in railroad repair shops.....	16	11,045					2	(x)	4	459	7	5,950	3	4,630	
Lubricating oils and greases, not made in petroleum refineries.....	177	2,577	7	30	2	(x)	44	272	35	1,245	59	635	30	395	
Lumber and timber products, not elsewhere classified.....	12,915	419,084	6,333	31,514	350	15,874	75	4,635	1,803	95,068	1,301	48,125	2,903	223,808	
Macaroni, spaghetti, vermicelli, and noodles.....	353	5,072	45	51	50	176	22	262	81	826	99	2,620	47	1,231	
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	722	26,082	32	108	4	27	45	391	154	3,628	403	14,825	84	7,803	
Machine tools.....	280	47,391	5	26	1	(x)	10	686	56	8,691	154	20,691	54	8,297	
Malts.....	28	590							2	(x)	16	(x)	9	249	
Marble, granite, slate, and other stone products.....	1,881	37,817	150	530	406	6,008	676	10,750	215	3,301	338	12,443	96	4,726	
Matches.....	21	3,700							1	(x)	3	352	1	(x)	
Mats and matting, grass and coir.....	7	467							4	(x)	1	(x)		(x)	
Mattresses and bed springs, not elsewhere classified.....	651	17,187	143	283	41	317	214	2,568	169	3,001	281	3,941	103	2,077	
Meat packing, wholesale.....	1,277	122,505	18	10	68	2,091	157	9,875	345	82,319	332	16,908	367	11,303	
Millinery.....	1,293	32,206			31	273	842	18,374	339	8,879	78	4,177	3	603	
Minerals and earths, ground or otherwise treated.....	88	1,679							9	107	21	186	16	395	
Mirror and picture frames.....	178	4,446	4	16	2	(x)	34	426	63	911	82	3,077	3	691	
Mirrors, framed and unframed.....	304	4,782	25	61	34	454	78	1,133	46	530	101	2,193	20	405	
Models and patterns, not including paper patterns.....	804	6,778	97	244	14	79	368	3,272	106	914	216	2,187	13	82	
Motion pictures, not including projection in-theaters.....	142	10,784	7	42	5	100	41	1,357	32	9,278	4	2	3	5	
Motor-vehicle bodies and motor-vehicle parts.....	1,154	221,332	39	97	17	13,569	139	5,727	282	12,580	580	145,050	149	43,902	
Motor vehicles, not including motorcycles.....	244	226,116			33	44,417	20	3,904	44	15,651	121	155,009	17	7,045	
Motorcycles, bicycles, and parts.....	21	4,392					1	(x)	4	1,091	12	2,624	4	677	
Mudlage, paste, and other adhesives, except glue and rubber cement.....	84	414	3	5	4	7	22	88	28	62	22	170	5	82	
Musical instrument parts and materials: Piano and organ.....	67	3,090	2	86	1	(x)	7	192	23	1,641	29	1,148	5	73	
Musical instruments and parts and materials, not elsewhere classified.....	106	3,176	11	24	4	84	21	145	37	1,595	31	1,328	2	(x)	
Musical instruments: Organs.....	62	2,389	5	16			7	253	13	370	27	1,411	10	334	
Musical instruments: Pianos.....	81	9,970	1	(x)	6	185	8	264	33	5,110	30	4,090	3	315	
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.....	55	2,027	1	(x)			7	443	16	650	19	639	12	286	
Needles, pins, hooks and eyes, and snap fasteners.....	43	6,242	1	(x)	1	(x)	3	104	10	1,226	21	2,105	7	2,807	
Nets and seines.....	19	303			1	(x)	2	60	6	235	7	522	3	86	
Nonferrous-metal alloys and products, not including aluminum products.....	1,225	79,183	81	209	52	1,545	251	3,611	309	10,736	420	32,541	112	30,541	
Oil, cake, and meal, cottonseed.....	553	15,825			1	(x)			4	123	7	269	541	15,433	
Oil, cake, and meal, linseed.....	29	2,715							25	2,009	1	(x)	3	106	
Oils, essential.....	22	264	3	7					5	72	4	28	8	158	
Oils, not elsewhere classified.....	75	1,294	2	3	1	(x)	13	54	25	718	16	166	18	293	
Oilcloth.....	9	1,412					1	(x)	3	632	5	780			
Oleomargarine, not made in meat-packing establishments.....	11	1,534			1	(x)	11	89	12	671	9	435	8	339	
Optical goods.....	47	9,701	13	20	3	6	18	326	43	7,465	37	1,650	3	234	
Paints and varnishes.....	1,063	29,211	20	54	2	(x)	198	3,367	256	6,939	443	14,330	130	6,021	
Paper.....	685	103,320			32	5,309	14	3,133	343	60,651	72	10,187	224	18,040	
Paper goods, not elsewhere classified.....	436	20,227			18	360	73	751	128	9,157	150	7,608	61	2,351	
Patent or proprietary medicines and compounds.....	1,522	16,434	30	71	129	429	663	4,404	376	6,153	253	4,447	71	870	
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	126	2,375	5	31	3	14	7	159	40	802	19	337	52	1,032	
Peanuts, walnuts, and other nuts, processed or shelled.....	169	7,933	6	22	6	91	16	246	37	1,995	39	1,621	65	3,958	
Pencils, lead (including mechanical).....	38	5,703			2	(x)	7	132	10	2,745	16	2,487	4	289	

PERSONNEL

TABLE 6.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	TOTAL NUMBER OF—		HOURS NOT REPORTED		40 HOURS AND UNDER		OVER 40 BUT UNDER 45 HOURS		45 TO 48 HOURS, INCLUSIVE		OVER 48 BUT NOT OVER 54 HOURS		OVER 54 HOURS	
	Estab-lish-ments	Wage earners (average for the year)	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners
Pens, fountain and stylographic; pen points, gold, steel, and brass.....	76	4,000	2	(x)	1		14	216	31	800	28	3,578		
Perfumes, cosmetics, and other toilet preparations.....	815	13,109	2	(x)	51	205	434	5,327	230	5,446	80	2,061	9	70
Petroleum refining.....	390	80,506			1		3	219	123	41,867	15	1,265	248	37,245
Photographs.....	59	14,416	2	342	1	(x)	12	303	14	10,202	21	2,387	9	1,182
Photo-engraving, not done in printing establish-ments.....	654	12,353	24	70	1	(x)	472	8,908	139	3,088	14	154	4	73
Photographic apparatus and materials.....	115	12,967	9	18	2	(x)	42	553	31	10,710	26	1,689	2	(x)
Pipes (tobacco).....	24	1,680	3	35			6	698	6	716	8	231	1	(x)
Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	4,849	90,134	500	1,442	300	4,787	1,098	17,984	680	16,637	1,377	27,980	834	21,304
Plated ware.....	96	10,728	3	11	2	(x)	7	1,324	25	1,207	54	6,876	5	1,220
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	255	27,960	7	31	11	675	28	558	52	3,698	120	19,461	31	3,537
Pocketbooks, purses, and cardcases.....	290	10,430	16	54	7	188	176	6,248	58	2,185	32	1,755	1	(x)
Pottery, including porcelain ware.....	313	35,409			8	506	34	2,029	64	7,953	104	21,184	43	3,737
Poultry killing, dressing, and packing, wholesale.....	485	7,769	5	4	10	38	10	130	76	809	81	1,463	308	6,235
Printing and publishing, book and job.....	12,712	150,049	1,580	3,167	236	1,227	5,525	67,203	4,485	70,822	793	7,895	93	345
Printing and publishing, music.....	124	810	10	25	3	38	77	169	31	578	3	53		
Printing and publishing, newspaper and periodical.....	11,524	129,660	1,089	5,783	441	1,111	3,539	24,911	3,726	86,491	1,532	9,589	297	1,776
Printing materials, not including type or ink.....	84	1,004	5	7	2	(x)	19	118	28	270	29	614	1	(x)
Pulp goods.....	45	3,558	4	80	1	(x)	3	54	7	402	21	1,458	0	1,554
Pulp (wood and other fiber).....	108	24,729	2	2	1	144	1	(x)	131	18,985	18	2,812	46	3,288
Pumps (hand and power) and pumping equipment.....	322	23,106	22	79	7	74	63	1,982	83	7,000	125	10,736	22	3,175
Rayon and allied products.....	29	39,106							11	28,499	5	3,268	13	7,339
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	188	9,784	9	28	9	87	53	1,280	33	639	66	6,301	18	1,440
Refrigerators, mechanical.....	34	16,883					5	25	11	5,247	16	11,011	2	(x)
Rogalia, badges, and emblems.....	77	1,757	5	2	1	(x)	24	402	29	343	17	1,010	1	(x)
Rice cleaning and polishing.....	60	1,689	2	(x)	2	57	1	(x)	7	163	4	82	44	1,287
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	102	6,027	7	15	3	63	18	806	21	1,441	22	1,660	31	2,542
Rubber goods other than tires, inner tubes, and boots and shoes.....	412	40,226	13	34	13	408	50	1,218	130	19,130	146	13,098	00	0,338
Rubber tires and inner tubes.....	91	83,263			11	937	15	10,800	30	55,240	24	5,026	11	2,200
Saddlery and harness.....	260	3,339	38	72	10	129	27	424	62	877	93	1,261	30	876
Safes and vaults.....	27	3,033	1	(x)	1	(x)	2	130	7	1,004	13	1,687	3	212
Salt.....	58	5,458					1	(x)	14	1,421	16	1,323	25	2,714
Sand-lime brick.....	40	566			2	(x)	3	71	2	(x)	14	243	19	252
Sandpaper, emery paper, and other abrasive paper and cloth.....	11	1,228	1	(x)			2	29	5	580	2	610	1	(x)
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establish-ments.....	681	5,397	61	33	44	130	80	636	181	1,844	183	2,243	126	1,011
Saws.....	81	4,137	9	22	5	1,183	7	43	20	609	37	2,083	3	137
Scales and balances.....	59	4,118	2	(x)			5	185	18	1,393	32	2,549	2	(x)
Screw-machine products and wood screws.....	273	19,881	10	24	2	(x)	10	104	34	2,504	146	11,161	71	0,088
Sewing machines and attachments.....	39	10,467	6	15	2	(x)	4	52	12	6,355	14	3,336	1	(x)
Ship and boat building, steel and wooden, includ-ing repair work.....	624	55,089	53	207	3	34	162	17,562	236	27,032	148	9,617	22	637
Shirts.....	863	59,830	46	420	33	612	293	13,977	256	22,146	222	22,038	13	637
Shortenings (not including lard) and vegetable cooking oils.....	40	2,712					4	192	5	222	13	1,345	18	953
Signs and advertising novelties.....	1,239	20,000	227	560	94	1,044	500	5,487	247	7,896	145	4,281	26	732
Silk and rayon manufactures.....	1,491	130,467			22	623	501	17,577	214	30,154	573	62,169	181	10,044
Silversmithing and silverware.....	83	5,007	4	7	1	(x)	25	828	28	739	22	3,028	3	414
Smelting and refining, copper.....	26	14,544							7	4,342	4	2,264	15	7,038
Smelting and refining, lead.....	19	4,810							10	2,201	1	(x)	8	2,618
Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	106	4,134	1	(x)	2	9	12	219	25	690	30	405	36	2,781
Smelting and refining, zinc.....	30	11,618							7	3,256	2	(x)	21	8,868
Soap.....	282	14,363	24	62	8	16	92	1,131	36	6,072	91	7,041	31	1,041
Soda-water apparatus.....	54	2,704	5	5	1	(x)	18	538	11	230	19	1,001		
Sporting and athletic goods, not including firearms or ammunition.....	242	10,793			7	50	38	837	74	3,194	108	5,185	15	1,527
Springs, steel, except wire, not made in plants oper-ated in connection with rolling mills.....	86	5,842	3	8	1	(x)	11	645	19	617	43	2,566	9	2,006
Stamped ware, enameled ware, and metal stamp-ing, enameling, japanning, and lacquering.....	582	40,000	38	104	5	576	48	2,682	130	7,650	288	18,999	75	9,923
Stationery goods, not elsewhere classified.....	203	11,078	9	26	7	99	41	827	77	5,095	60	4,741	9	320
Statuary and art goods, factory product.....	171	2,112	21	4	37	689	52	559	25	327	28	429	8	104
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	171	7,266	13	18	4	8	36	304	31	1,548	66	3,612	21	1,776
Steam fittings and steam and hot-water heating apparatus.....	240	39,621	5	26	10	1,920	33	1,745	75	19,832	97	13,894	20	2,204
Steel barrels, kegs, and drums.....	53	4,110	2	193	1	(x)	4	210	5	682	26	1,998	15	1,027
Stereotyping and electrotyping, not done in print-ing establishments.....	230	6,487	3	4	1	(x)	135	4,126	86	2,268	5	89		
Stoves and ranges (other than electric) and warm-air furnaces.....	609	46,616	47	220	38	2,900	145	5,458	156	13,182	176	18,320	47	6,476
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	1,482	54,947	106	285	32	199	325	6,248	273	8,467	585	22,164	161	17,594
Sugar, beet.....	82	7,466							1	(x)			81	7,466
Sugar, cane, not including products of refineries.....	70	2,319							4	2,886	4	2,606	13	8,420
Sugar refining, cane.....	21	13,612												
Surgical and orthopedic appliances, including arti-ficial limbs.....	363	7,910	61	152	10	142	105	1,367	97	2,857	79	3,248	11	144
Suspenders, garters, and other elastic woven goods, made from purchased webbing.....	91	4,341			8	163	35	725	32	3,138	8	266	8	49
Tanning materials, natural dyestuffs, mordants and assistants, and sizes.....	126	2,419			6	37	19	126	22	238	43	619	36	1,399
Textile machinery and parts.....	378	27,019	18	86	11	500	32	697	103	4,117	157	17,751	55	3,868
Theatrical scenery and stage equipment.....	55	547	6	9	6	43	27	301	13	169	3	25		

CENSUS OF MANUFACTURES: 1929

TABLE 6.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, BY INDUSTRIES: 1929—Continued

[See headnote on first page of this table]

INDUSTRY	TOTAL NUMBER OF—		HOURS NOT REPORTED		40 HOURS AND UNDER		OVER 40 BUT UNDER 45 HOURS		45 TO 48 HOURS, INCLUSIVE		OVER 48 BUT NOT OVER 54 HOURS		OVER 54 HOURS	
	Establishments	Wage earners (average for the year)	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners
Tin and other foils, not including gold foil.....	7	1,710							4	1,415	3	295		
Tin cans and other tinware, not elsewhere classified.....	232	31,497	12	25	5	37	23	498	58	9,916	115	18,663	19	2,358
Tobacco: Chewing and smoking, and snuff.....	152	10,811	9	30	25	57	25	167	25	2,012	44	7,709	24	836
Tools, not including edge tools, machine tools, files, or saws.....	534	19,305	77	245	18	351	55	751	117	3,745	227	12,309	40	1,904
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	476	16,660	2	(x)	12	183	128	1,823	88	3,026	216	9,810	30	1,818
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	639	7,934			33	236	315	3,459	253	3,409	36	830	2	(x)
Trunks, suitcases, and bags.....	467	11,359	46	113	7	243	96	1,492	182	5,595	116	3,448	20	468
Turpentine and rosin.....	1,183	40,187	228	4,303	386	12,085	53	1,808	309	12,837	96	3,467	111	5,657
Type founding.....	19	467	5	16			2	(x)	6	364	4	97	2	(x)
Typewriters and parts.....	26	10,945	1	(x)			1	(x)	5	686	19	16,360		
Umbrellas, parasols, and canes.....	141	2,855	13	26	11	66	46	622	38	473	29	1,493	4	175
Upholstering materials, not elsewhere classified.....	53	1,410	10	123	6	29	1	(x)	6	538	15	451	15	469
Vinegar and cider.....	172	979	20	30	3	3	8	48	29	111	58	400	54	387
Wall paper.....	56	4,705					1	(x)	5	63	39	4,046	11	606
Wall plaster, wall board, insulating board, and floor composition.....	236	7,462	14	46	10	80	39	539	47	566	61	2,037	65	4,194
Washing machines, wringers, driers, and ironing machines, for household use.....	65	8,189	1	(x)	1	(x)	6	937	10	1,946	39	4,593	8	719
Waste.....	136	3,905	5	12	7	62	11	81	36	960	41	1,385	36	1,405
Watch and clock materials and parts, except watch-cases.....	17	311	3	88	2	(x)	7	78	1	(x)	3	145	1	(x)
Watchcases.....	40	3,404					9	9	391	5	2,538			
Watches and watch movements.....	8	10,738	1	(x)			25	476	2	6,026	4	4,712		
Whips.....	8	57					2	(x)	3	42	2	(x)		
Windmills and windmill towers.....	15	1,554	1	(x)			5	30	7	1,317			4	187
Window and door screens and weather strip.....	280	4,034	49	119	13	53	78	547	52	860	75	2,034	13	421
Window shades and fixtures.....	482	4,708	110	180	13	45	136	965	136	1,076	79	1,523	14	919
Wire, drawn from purchased bars or rods.....	81	22,467					2	(x)	10	5,665	19	2,533	50	14,269
Wirework, not elsewhere classified.....	547	22,388	52	153	13	210	58	1,755	113	2,037	238	13,659	73	4,574
Wood distillation and charcoal manufacture.....	91	4,648			5	300	1	(x)	12	146	5	144	68	4,053
Wood preserving.....	199	13,077	2	69	1	(x)	10	186	66	3,869	38	2,165	82	6,758
Wood turned and shaped and other wooden goods, not elsewhere classified.....	894	18,712	135	570	28	252	77	1,055	99	1,880	386	9,984	169	4,971
Woolen goods.....	460	58,474			11	218	16	1,020	165	26,126	188	20,888	80	10,222
Wool pulling.....	18	506			1	(x)			6	227	8	254	3	105
Wool scouring.....	21	1,302							7	475	6	273	8	543
Wool shoddy.....	50	1,782							8	382	24	837	18	543
Worsted goods.....	264	88,485			1	(x)	9	1,333	104	48,452	122	32,923	28	5,777
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.....	50	11,417			2	(x)	7	657	10	484	16	4,085	15	6,191

CENSUS OF MANUFACTURES: 1929

TABLE 7.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND NUMBER OF WAGE EARNERS,

[The average number of wage earners employed during the year in each establishment is classified as a total according to the customary hours of labor in that establishment, the appropriate heads, according to the numbers of hours the plants were in operation per week. In cases where the item for a certain group can not be given separately without omitting and the item for the group with which it has been consolidated is printed in *Italics*. The figures for the geographic divisions have been adjusted in harmony from the sums of the geographic-division items and of the State items in the respective columns]

DIVISION AND STATE	TOTAL NUMBER OF—		HOURS NOT REPORTED		UNDER 40 HOURS		40 HOURS		OVER 40 HOURS BUT UNDER 44	
	Establishments	Wage earners (average for the year)	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners
1 UNITED STATES.....	210,959	8,838,743	20,196	88,567	3,333	39,946	8,488	246,739	1,919	83,014
2 GEOGRAPHIC DIVISIONS:										
3 New England.....	18,272	1,098,514	821	2,923	290	6,519	545	14,118	211	9,509
4 Middle Atlantic.....	64,730	2,562,340	6,230	18,217	935	10,599	5,491	96,838	927	54,624
5 East North Central.....	46,396	2,542,178	3,057	9,886	637	9,316	913	71,846	359	9,311
6 West North Central.....	17,792	474,115	2,029	5,402	272	1,620	244	13,696	117	1,491
7 South Atlantic.....	20,860	912,247	5,334	25,073	453	5,664	574	19,626	102	3,406
8 East South Central.....	9,860	377,870	3,141	13,225	261	2,635	191	7,684	31	526
9 West South Central.....	10,576	297,743	1,070	6,076	190	2,026	127	6,029	42	1,371
10 Mountain.....	4,319	102,492	1,431	1,003	64	133	69	2,614	30	363
11 Pacific.....	18,154	471,246	2,283	5,257	241	1,406	334	14,059	100	1,395
12 NEW ENGLAND:										
13 Maine.....	1,568	70,159	253	904	31	901	30	1,980	13	552
14 New Hampshire.....	1,075	65,511	165	579	13	165	13	104	8	315
15 Vermont.....	927	27,421	126	535	12	32	72	1,082	4	309
16 Massachusetts.....	9,872	557,494	8	16	161	4,661	345	8,263	147	6,775
17 Rhode Island.....	1,701	126,068	66	221	28	313	30	794	23	642
18 Connecticut.....	3,129	251,861	203	668	45	337	57	1,395	16	1,000
19 MIDDLE ATLANTIC:										
20 New York.....	39,395	1,105,966	4,383	12,770	512	3,763	4,698	69,585	681	44,400
21 New Jersey.....	8,388	442,328	652	1,929	152	1,119	343	11,666	77	2,063
22 Pennsylvania.....	16,947	1,014,046	1,195	3,518	271	5,717	450	16,257	169	8,065
23 EAST NORTH CENTRAL:										
24 Ohio.....	11,855	741,143	1,228	3,161	157	2,570	252	19,422	75	1,782
25 Indiana.....	5,091	314,698	454	1,378	115	1,850	94	9,170	20	235
26 Illinois.....	15,333	691,555	1,505	3,395	246	3,858	384	13,612	147	2,755
27 Michigan.....	6,686	530,035	490	1,240	93	470	108	25,733	54	3,533
28 Wisconsin.....	7,431	264,745	230	706	70	568	75	3,959	63	1,006
29 WEST NORTH CENTRAL:										
30 Minnesota.....	4,315	103,414	442	1,144	58	143	49	2,417	39	246
31 Iowa.....	3,317	81,678	236	720	69	370	25	2,841	24	131
32 Missouri.....	5,765	202,870	618	1,941	97	856	144	7,034	44	1,043
33 North Dakota.....	373	4,024	57	123	3	14	2	(x)		
34 South Dakota.....	615	6,535	156	323	12	57	1	(x)		(x)
35 Nebraska.....	1,491	28,212	177	409	12	79	14	1,042	1	50
36 Kansas.....	1,916	47,373	293	728	21	98	9	362	3	21
37 SOUTH ATLANTIC:										
38 Delaware.....	460	23,552	76	255	3	14	6	34	1	(x)
39 Maryland.....	3,231	131,099	534	1,755	52	692	96	1,276	23	1,392
40 District of Columbia.....	547	9,752	19	59	45	52	24	169	0	174
41 Virginia.....	3,287	120,273	953	3,550	68	397	61	2,425	13	395
42 West Virginia.....	1,488	85,326	271	933	28	237	18	888	7	498
43 North Carolina.....	3,797	209,826	1,207	4,807	46	724	48	2,569	10	308
44 South Carolina.....	1,659	108,777	1,525	3,196	31	265	33	719	9	71
45 Georgia.....	4,179	158,774	1,216	7,532	120	2,204	216	7,654	13	222
46 Florida.....	2,212	64,868	533	3,591	60	1,079	72	3,892	17	406
47 EAST SOUTH CENTRAL:										
48 Kentucky.....	2,246	77,825	593	1,779	52	378	35	1,954	7	7
49 Tennessee.....	2,855	128,400	803	2,759	45	561	46	2,736	11	439
50 Alabama.....	2,848	119,559	990	5,218	67	1,380	72	2,304	9	52
51 Mississippi.....	1,911	52,030	746	3,469	37	316	38	690	4	28
52 WEST SOUTH CENTRAL:										
53 Arkansas.....	1,731	44,205	554	2,430	47	527	17	429	2	(x)
54 Louisiana.....	1,939	87,345	370	1,266	44	785	36	1,616	17	1,140
55 Oklahoma.....	1,658	31,695	222	650	23	161	12	1,306	8	87
56 Texas.....	5,198	134,498	824	2,624	76	553	62	2,678	15	144
57 MOUNTAIN:										
58 Montana.....	539	14,869	54	106	4	4	8	25	4	7
59 Idaho.....	562	15,648	43	87	9	18	4	708	2	(x)
60 Wyoming.....	248	6,268	41	81	3	6			1	(x)
61 Colorado.....	1,548	32,890	166	408	24	47	47	1,689	13	342
62 New Mexico.....	250	4,476	43	125			3	9	2	(x)
63 Arizona.....	348	10,550	40	102	6	13	3	6	2	(x)
64 Utah.....	651	15,601	36	80	13	15	3	177	6	(x)
65 Nevada.....	123	2,200	8	14	5	30	1	(x)		14
66 PACIFIC:										
67 Washington.....	3,672	114,830	352	855	57	394	91	4,748	24	97
68 Oregon.....	2,463	65,505	103	256	32	91	61	2,729	11	45
69 California.....	12,019	290,911	1,828	4,146	162	981	182	6,582	65	1,253

PERSONNEL

BY PREVAILING HOURS OF LABOR PER WEEK, BY GEOGRAPHIC DIVISIONS AND STATES: 1929

even though a few employees may have worked a larger or smaller number of hours. The establishments (7,426 in number) which reported no wage earners are classified under disclosing data for individual establishments, it has been combined with that for another group. In such cases an "x" is shown in the column in which the item has been with those for the States; but in the totals for the United States the data for each establishment are included in the item for the proper group, and therefore these totals differ

44 HOURS AND OVER BUT UNDER 45		45 HOURS AND OVER BUT UNDER 46		48 HOURS		OVER 48 BUT UNDER 54 HOURS		54 HOURS		OVER 54 BUT UNDER 60 HOURS		60 HOURS AND OVER		
Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	
38,360	811,216	10,313	485,539	41,217	2,362,296	20,243	2,200,125	14,084	554,592	14,094	1,320,932	23,122	655,177	1
2,735	58,007	1,211	51,108	5,315	449,347	3,850	289,943	1,848	102,613	813	98,043	633	15,634	2
10,946	319,992	4,186	185,543	11,719	722,659	6,425	621,084	3,207	168,088	2,860	263,090	2,798	101,500	3
7,796	224,816	2,372	136,129	7,240	506,542	3,455	971,546	3,267	132,204	4,138	350,174	6,212	120,246	4
2,538	53,149	722	34,329	3,486	132,929	2,050	95,184	1,944	45,011	963	52,708	3,427	38,646	5
1,601	39,164	612	36,834	2,630	142,200	2,099	113,747	1,012	27,802	3,113	343,030	3,530	154,430	6
1,507	8,276	107	7,994	652	58,543	634	57,919	443	15,354	1,099	110,290	2,164	95,424	7
826	13,007	176	9,011	1,874	60,357	697	29,607	1,013	20,312	790	61,904	2,881	87,053	8
548	7,002	252	6,851	1,359	39,084	151	2,609	411	9,939	350	21,514	654	10,780	9
4,853	88,608	585	17,740	6,742	240,005	592	18,536	1,030	33,200	562	19,513	823	31,458	10
66	2,085	46	1,098	259	17,480	175	12,292	506	27,300	53	2,842	106	2,626	11
62	2,829	38	1,081	205	10,420	252	14,995	205	22,140	33	1,006	51	1,068	12
91	1,847	34	1,407	92	4,572	156	10,044	230	3,714	51	3,217	50	802	13
1,881	87,015	814	30,898	3,703	328,877	1,820	101,132	488	14,723	221	19,317	226	5,797	14
203	3,702	100	6,543	446	42,287	466	36,824	192	26,014	105	7,510	42	1,218	15
402	11,189	179	9,181	550	36,698	951	114,560	227	8,722	350	63,251	149	4,263	16
12,603	267,758	2,521	83,258	7,011	330,392	3,043	231,709	1,809	53,233	806	46,202	928	22,300	17
1,957	56,071	701	57,590	1,557	146,281	1,785	105,266	373	10,929	407	34,652	384	9,342	18
2,386	56,163	964	44,695	3,151	245,986	3,697	284,119	1,525	97,026	1,653	182,242	1,486	69,358	19
1,821	71,530	595	49,518	2,090	168,008	2,781	251,580	703	30,460	1,071	117,641	1,022	24,871	20
503	14,047	250	12,624	593	64,048	1,147	122,797	424	15,939	659	53,468	832	19,142	21
4,149	109,932	1,093	41,392	2,622	196,636	2,654	201,197	893	28,020	744	60,493	986	23,050	22
703	15,268	313	24,551	972	37,628	1,792	293,050	692	45,585	544	55,026	925	27,889	23
620	14,039	211	8,044	968	39,622	1,081	102,916	495	11,054	1,120	57,546	2,447	24,685	24
650	17,030	198	6,398	949	31,541	515	19,185	419	0,762	203	9,770	795	8,772	25
337	7,234	72	4,406	538	17,277	410	16,032	396	8,014	255	13,703	905	10,332	26
1,167	20,602	370	18,140	1,001	51,483	842	52,171	628	21,525	246	18,823	608	9,261	27
21	622	5	370	121	1,502	9	125	30	147	10	318	109	803	28
22	1,583	3	6	124	1,020	27	314	76	1,123	27	444	166	1,060	29
199	3,295	48	4,023	303	3,210	117	3,062	165	2,255	95	2,677	355	3,110	30
142	2,783	28	986	450	21,296	130	4,245	224	4,585	127	6,967	489	5,302	31
41	539	16	884	62	3,933	92	6,724	29	3,120	54	5,346	80	2,694	32
603	22,327	193	11,011	469	34,966	561	30,768	147	4,454	233	14,084	315	7,174	33
101	2,333	22	310	187	5,431	16	310	14	132	20	391	30	391	34
174	2,417	116	12,632	376	23,852	396	22,190	154	4,214	401	36,640	515	11,591	35
88	4,000	38	2,896	317	22,547	143	10,734	150	4,243	150	22,982	278	15,278	36
92	1,050	54	2,380	209	17,444	267	15,477	92	2,299	1,033	121,005	739	41,103	37
40	731	18	242	121	3,097	84	3,166	52	1,025	410	82,100	327	13,255	38
230	3,892	100	4,286	393	14,839	383	19,138	136	3,585	604	52,714	768	42,708	39
158	1,786	55	1,573	396	15,191	157	5,250	138	4,751	148	7,168	473	20,182	40
166	2,497	63	2,007	291	18,677	322	20,162	130	4,139	236	19,814	351	6,411	41
181	2,754	68	2,610	270	21,969	345	25,001	133	5,441	418	48,777	535	14,763	42
132	2,854	36	2,310	237	14,202	186	9,842	88	3,744	308	33,076	714	44,577	43
28	171	30	1,067	154	3,695	81	2,314	92	2,030	137	8,023	564	20,083	44
42	453	21	1,021	156	5,248	88	3,722	123	3,120	120	8,579	561	18,065	45
168	3,940	52	2,242	290	15,123	180	10,470	140	4,407	159	10,974	593	33,322	46
130	1,242	13	266	388	7,167	101	2,290	174	3,096	110	8,570	471	6,854	47
486	7,367	90	5,482	1,040	32,840	348	13,119	576	9,029	395	33,841	1,256	26,212	48
56	415	11	668	253	6,920	9	81	73	2,224	50	3,995	67	424	49
19	1,004	6	1,130	209	6,128	15	145	78	4,005	32	1,764	145	1,050	50
20	161	5	940	76	2,350	12	105	22	425	31	1,371	37	729	51
289	2,651	193	3,167	325	13,411	72	1,503	133	1,868	83	4,964	203	2,840	52
13	90	3	12	78	1,939	4	41	18	196	15	396	71	1,068	53
35	588	5	53	116	1,803	10	40	24	277	55	5,198	53	2,070	54
98	1,605	26	854	255	6,754	26	547	54	901	61	3,282	73	1,372	55
18	88	3	27	48	379	3	57	9	43	23	1,544	5	18	56
816	10,256	94	3,878	1,729	77,346	45	1,533	189	2,459	90	3,613	185	3,651	57
419	4,800	43	487	1,366	45,975	50	1,083	121	3,723	84	1,465	173	4,846	58
3,618	67,552	448	13,375	3,647	110,684	497	15,920	720	27,022	388	14,435	465	22,961	59

CENSUS OF MANUFACTURES: 1929

TABLE 8.—HOURS OF LABOR—NUMBERS OF ESTABLISHMENTS AND OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, BY SIZE GROUPS ACCORDING TO NUMBER OF WAGE EARNERS: 1929

[The average number of wage earners employed during the year in each establishment is classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

HOURS OF LABOR PER WEEK	Total	No wage earners	1 to 5 wage earners	6 to 20 wage earners	21 to 50 wage earners	51 to 100 wage earners	101 to 250 wage earners	251 to 500 wage earners	501 to 1,000 wage earners	1,001 to 2,500 wage earners	2,501 wage earners and over
All classes, total:											
Number of establishments.....	210,950	7,420	95,767	53,524	25,022	12,467	10,195	3,840	1,722	790	206
Number of wage earners (average for the year).....	8,838,743		279,734	595,708	814,465	891,671	1,580,040	1,331,145	1,176,991	1,144,735	1,015,254
Hours not reported:											
Number of establishments.....	26,196	30	26,165	1							
Number of wage earners.....	88,567		88,547	20							
Under 40 hours:											
Number of establishments.....	3,333	604	1,750	593	244	87	36	12	5	2	
Number of wage earners.....	39,946		3,607	6,478	7,783	6,078	5,229	4,454	3,868	2,449	
40 hours:											
Number of establishments.....	8,488	276	3,283	3,220	1,112	288	166	59	45	26	7
Number of wage earners.....	246,739		9,061	36,484	34,690	20,176	25,460	20,463	31,065	38,950	29,481
Over 40 but under 44 hours:											
Number of establishments.....	1,919	182	717	426	196	84	281	21	8	3	2
Number of wage earners.....	83,614		1,807	4,779	6,330	6,085	41,659	7,286	5,687	4,184	5,797
44 hours and over but under 45:											
Number of establishments.....	38,350	3,256	15,444	12,315	4,649	1,600	667	261	104	41	13
Number of wage earners.....	811,216		43,068	136,316	147,624	112,599	102,363	89,554	67,823	62,210	49,059
45 hours and over but under 48:											
Number of establishments.....	10,313	133	3,007	3,721	1,743	831	575	181	71	37	14
Number of wage earners.....	485,539		9,009	41,025	57,132	59,461	88,221	63,297	47,558	50,916	67,970
48 hours:											
Number of establishments.....	41,217	1,226	17,245	10,858	5,041	2,700	2,337	975	501	262	72
Number of wage earners.....	2,352,296		46,611	117,985	104,727	193,202	366,293	339,313	347,012	384,046	303,107
Over 48 but under 54 hours:											
Number of establishments.....	20,243	210	7,082	8,816	5,453	3,178	2,780	1,033	439	190	56
Number of wage earners.....	2,200,125		22,090	101,763	180,637	227,688	433,165	367,586	302,259	273,106	301,831
54 hours:											
Number of establishments.....	14,034	268	6,220	3,801	1,715	938	763	224	102	42	11
Number of wage earners.....	554,592		17,059	41,117	55,985	66,879	118,671	78,498	69,488	57,734	49,171
Over 54 but under 60 hours:											
Number of establishments.....	14,694	233	3,711	3,817	2,372	1,667	1,655	721	340	152	26
Number of wage earners.....	1,320,932		10,190	43,903	79,163	121,128	265,630	251,981	228,118	223,532	97,287
60 hours and over:											
Number of establishments.....	23,122	1,008	11,143	5,950	2,498	1,094	920	353	107	35	5
Number of wage earners.....	655,177		28,625	64,938	80,385	78,385	142,349	118,723	73,213	47,608	20,951