Chapter IV.—WAGE-EARNER EMPLOYMENT, BY MONTHS

This chapter presents statistics showing the monthly employment of wage earners, by industry groups and industries. (See Chap. I, sec. 13.)

The wage-earner figures for any industry, as calculated from the returns made by manufacturers, are necessarily somewhat in excess of the numbers that would be required to perform the work in that industry if all were continuously employed during the year. The reason is that the pay roll for any week is likely to contain the names of employees who have been temporarily laid off and of persons whose services had terminated before the close of the week covered by the pay roll. Moreover, if a manufacturer operated his plant during only a part of a given month, he would select an active week as a representative week and would report the total number of wage earners whose names appeared on the roll for that week; or, if he operated his plant every work day of the month on a 4-hour basis, his employment would be equivalent to one-half that on an 8-hour basis, yet he would report the actual number working on a part-time basis rather than the equivalent number on a full-time basis. For example: Suppose a manufacturer operated his plant, employing 100 wage earners, during 13 days of a month which contained 26 working days, or during 26 days on a 4-hour basis. This manufacturer's average employment of wage earners for the month on a full-time basis would be 50, but in all probability he would report 100, since that would be the number on the pay roll for a representative week.

In making comparisons between the figures for different census years, it should be remembered that, since the proportion of part-time employment was undoubtedly larger in practically all industries in 1931 than in earlier years, the decrease in the actual amount of work done (number of man-hours worked) was somewhat larger than the decrease in the number of wage earners (average for the year) as reported.

For the reason given in the preceding paragraph, the quotient obtained by dividing the amount of wages (the total amount paid to wage earners during the year, as given in Chaps. II, III, and V) by the average number of wage earners cannot be accepted as representing the average wage received by full-time wage earners in any year, and particularly in 1931.

WAGE EARNERS, BY MONTHS, FOR INDUSTRY GROUPS AND INDUSTRIES: 1931

[The month of maximum employment is indicated by **bold-faced** figures and that of minimum employment by *italics*]

	Average number employed during year	NUMBER REPORTED FOR—												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
All industries:														
1931	6,523,026	6,582,679	6,696,622	6,797,619	**6,802,416**	6,730,138	6,573,024	6,469,366	6,513,459	6,566,485	6,386,207	6,150,626	*6,007,653*	88.3
1929	8,338,743	8,492,357	8,677,823	8,835,116	8,902,946	8,897,938	8,912,024	8,955,949	9,093,929	9,188,788	9,085,854	8,680,712	*8,341,056*	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	8,611,876	**8,673,870**	8,621,886	8,531,873	93.7
1919 [1]	9,000,059	8,784,866	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	**9,565,119**	89.6
1914 [1]	6,896,190	6,936,874	7,002,498	7,103,092	7,077,018	7,008,057	6,959,527	6,878,061	6,879,534	6,945,736	6,865,971	6,597,015	*6,500,897*	91.5
1909 [1]	6,472,616	*6,067,683*	6,155,197	6,281,087	6,295,203	6,314,849	6,375,039	6,344,246	6,514,503	6,756,335	6,854,660	**6,864,423**	6,848,222	88.4
INDUSTRY GROUPS														
1. Food and kindred products	650,591	590,418	*590,172*	593,879	603,931	612,243	653,901	685,634	750,086	771,776	697,625	643,858	613,587	76.5
2. Textiles and their products	1,420,808	1,383,266	1,441,571	1,473,574	1,469,206	1,450,686	1,410,473	1,382,025	1,423,923	1,458,102	1,434,710	1,380,367	*1,341,786*	91.1
3. Forest products	516,793	518,674	529,306	538,446	543,842	**544,672**	534,513	515,060	512,124	509,603	506,247	485,470	*463,563*	85.1
4. Paper and allied products	194,581	195,088	197,214	197,580	197,677	196,312	194,438	193,555	193,469	193,267	194,836	192,603	*188,354*	95.3
5. Printing, publishing, and allied industries	316,769	**326,089**	325,226	324,687	323,572	321,876	315,368	311,034	*309,375*	310,310	311,434	310,882	311,374	94.9
6. Chemicals and allied products	231,463	237,994	238,686	243,906	**245,153**	228,840	220,085	*218,094*	220,692	232,256	235,342	230,317	226,175	89.0
7. Products of petroleum and coal	120,146	**127,638**	126,406	126,110	123,963	122,509	120,062	117,886	116,810	115,853	115,750	114,450	*114,300*	89.6
8. Rubber products	99,259	101,411	100,716	101,255	101,251	102,882	**103,557**	98,740	96,833	97,180	96,378	95,734	*95,180*	91.9
9. Leather and its manufactures	272,757	257,829	273,453	284,802	283,418	282,146	272,552	278,575	**292,673**	291,076	272,383	243,578	*240,595*	82.2
10. Stone, clay, and glass products	222,856	214,813	220,170	229,300	238,526	241,552	237,816	230,394	226,095	222,550	215,592	203,616	*193,873*	80.3
11. Iron and steel and their products, not including machinery	597,953	644,619	653,453	**665,778**	656,838	641,971	608,185	587,721	568,597	555,551	545,563	529,100	*518,053*	77.8
12. Nonferrous metals and their products	208,855	215,838	218,428	**220,329**	219,757	215,678	207,101	204,885	202,589	205,425	203,801	199,442	*193,291*	87.7
13. Machinery, not including transportation equipment	686,706	748,832	746,664	744,317	735,489	715,861	687,950	667,225	651,437	656,641	646,358	627,135	*612,558*	81.8
14. Transportation equipment, air, land, and water	373,759	393,843	403,944	420,886	**431,899**	428,618	396,825	376,384	344,290	344,964	309,657	*306,080*	327,748	70.9
15. Railroad repair shops	309,034	335,059	332,085	328,754	324,514	319,800	310,121	306,625	302,608	293,626	291,746	285,211	*278,256*	83.0
16. Miscellaneous industries	300,696	290,668	299,128	304,016	303,380	304,492	300,077	295,829	301,858	308,305	308,785	302,824	*288,980*	93.6

[1] The figures for 1919, 1914, and 1909 have been adjusted for comparison with those for subsequent years and therefore differ slightly from the corresponding figures as originally published. The adjustments are as follows: (1) For all 3 years, deduction of data for establishments reporting products valued at less than $5,000; (2) for 1919 and 1914, deduction of data for establishments classified in the "Automobile-repairing" industry.

Wage Earners, by Months, for Industry Groups and Industries: 1931—Continued

[The month of maximum employment is indicated by **bold-faced** figures and that of minimum employment by *italics*]

INDUSTRIES	Average number employed during year	NUMBER REPORTED FOR— January	February	March	April	May	June	July	August	September	October	November	December	Percent minimum is of maximum
Abrasive wheels, stones, paper, and cloth, and related products	4,614	4,836	4,886	4,911	4,895	4,889	4,806	4,565	4,466	4,357	4,254	4,315	*4,187*	85.3
Agricultural implements	17,529	23,585	**23,624**	22,888	20,199	17,121	14,072	13,574	12,789	*11,623*	14,866	16,792	19,207	49.2
Aircraft and parts	9,870	10,176	10,603	10,938	10,846	**11,388**	11,253	10,427	9,059	8,959	8,385	*8,156*	8,246	71.6
Alcohol, ethyl, and distilled liquors	997	1,048	1,033	1,079	1,002	962	*836*	888	947	967	1,114	1,075	1,013	75.0
Aluminum manufactures	13,803	14,002	14,399	14,742	**14,936**	14,593	14,082	13,837	13,588	12,974	*12,752*	12,971	12,755	85.4
Ammunition and related products	5,873	5,878	6,046	6,290	**6,301**	6,222	6,096	6,042	5,814	5,669	5,468	5,325	*5,324*	84.5
Artificial and preserved flowers and plants	2,348	2,141	2,379	2,662	2,427	2,177	*1,940*	2,015	2,621	2,740	2,495	2,368	2,212	70.8
Artificial leather	1,941	1,943	1,945	**2,098**	2,023	2,041	1,991	1,930	1,923	1,975	1,837	1,803	*1,781*	84.9
Artists' materials	838	837	836	837	840	849	878	854	838	853	833	829	*776*	88.3
Asbestos products other than steam packing and pipe and boiler covering	6,009	6,117	6,324	6,386	6,307	**6,469**	6,241	5,999	5,796	5,661	5,647	*5,563*	5,600	86.0
Asphalted-felt-base floor covering	1,946	2,011	1,951	1,929	1,960	1,925	2,079	2,077	1,998	2,002	1,906	*1,717*	1,800	82.6
Awnings, tents, sails, and canvas covers	5,351	4,038	4,203	4,843	6,349	7,759	**7,916**	6,763	5,255	4,747	4,518	3,998	*3,820*	48.3
Bags, other than paper, not made in textile mills	11,985	*11,465*	11,760	12,068	11,868	11,603	11,611	11,677	11,880	12,524	**13,023**	12,623	11,719	88.0
Bags, paper, exclusive of those made in paper mills	6,836	6,651	6,703	6,750	6,886	6,848	6,823	7,051	6,974	6,784	6,947	6,990	*6,625*	94.0
Baking powder, yeast, and other leavening compounds	2,881	2,935	2,962	**2,966**	2,924	2,917	2,894	2,883	2,840	2,917	2,840	2,765	*2,726*	91.9
Baskets and rattan and willow ware, not including furniture	8,428	*6,810*	7,142	7,933	8,540	8,933	**9,802**	9,681	9,507	9,636	8,934	7,357	6,855	69.5
Belting, leather	1,640	1,748	1,735	1,742	1,703	1,672	1,640	1,601	1,615	1,599	1,553	1,536	*1,530*	87.5
Belting other than leather and rubber, not made in textile mills	193	202	200	200	196	201	**202**	198	195	188	181	*176*	*176*	87.1
Beverages	23,905	20,396	20,537	21,236	23,424	25,531	27,938	**29,464**	28,732	25,741	22,897	20,699	*20,260*	68.8
Billiard and pool tables, bowling alleys, and accessories	592	598	587	563	596	606	625	600	605	609	608	556	*555*	88.8
Blacking, stains, and dressings	1,501	1,425	1,436	1,475	1,564	1,614	1,619	1,574	1,514	1,557	1,473	1,394	*1,362*	84.1
Blast-furnace products	13,572	15,812	15,978	15,741	15,500	15,386	13,950	13,069	12,235	11,801	11,689	11,312	*10,397*	65.1
Bluing	95	91	*89*	98	97	98	98	93	95	101	100	*89*	90	88.1
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills	10,518	11,564	**11,708**	11,564	11,586	11,184	10,791	10,231	9,868	9,637	9,481	9,306	*9,293*	79.4

Bone black, carbon black, and lampblack	1,039	1,147	1,042	1,033	1,093	1,037	1,058	1,020	1,022	1,004	*995*	1,011	1,008	86.7
Bookbinding and blank-book making	21,216	22,209	22,030	21,992	21,723	21,410	21,110	21,149	21,045	20,794	20,616	20,302	*20,210*	91.0
Boot and shoe cut stock, not made in boot and shoe factories	8,584	7,950	8,478	8,672	8,525	8,540	8,468	9,139	9,469	9,242	8,627	*7,758*	8,143	81.9
Boot and shoe findings, not made in boot and shoe factories	9,088	8,505	9,492	9,930	9,699	9,481	8,905	9,292	10,001	9,981	8,682	*7,437*	7,653	74.4
Boots and shoes, other than rubber	181,374	170,203	181,711	191,281	190,105	189,287	181,289	187,082	197,636	194,970	179,603	156,666	*156,654*	79.3
Boots and shoes, rubber	15,882	17,816	16,971	16,188	15,531	15,616	16,253	*15,832*	14,011	15,339	16,131	16,422	16,479	77.6
Boxes, cigar, wooden	3,777	3,711	3,717	3,711	*3,645*	3,749	3,774	3,826	3,830	3,836	3,948	3,886	3,696	92.3
Boxes, paper, not elsewhere classified	46,722	46,041	46,222	46,620	46,485	46,169	46,033	*45,580*	46,101	47,701	48,840	48,177	46,697	93.3
Boxes, wooden, except cigar boxes	22,864	23,519	23,859	24,078	24,082	23,979	23,242	22,104	21,811	22,480	22,304	21,487	*21,491*	89.0
Bread and other bakery products	183,161	181,750	182,030	182,129	182,628	184,083	185,074	185,734	184,654	184,754	183,356	181,663	*180,073*	97.0
Brooms	4,086	4,073	4,155	4,183	4,203	4,139	4,062	*3,927*	3,963	4,021	4,114	4,158	4,033	93.4
Brushes, other than rubber	5,891	5,850	5,999	6,085	6,052	6,049	5,913	5,797	5,844	5,943	5,904	5,781	*5,499*	90.7
Butter	15,667	*14,496*	14,564	14,894	15,550	16,493	17,078	17,027	16,743	16,095	15,358	14,951	14,756	84.9
Buttons	8,224	7,942	8,402	8,608	8,406	8,302	8,339	*7,656*	7,727	8,400	8,511	8,192	8,201	88.9
Candles	713	720	749	753	734	712	709	*645*	646	701	742	735	713	85.7
Canned and dried fruits and vegetables; preserves, jellies, fruit butters, pickles, and sauces	80,184	37,817	39,342	45,005	50,598	50,296	83,635	111,560	169,757	181,658	100,951	53,770	*37,815*	20.8
Canned and preserved fish, crabs, shrimps, oysters, and clams	8,591	7,048	7,967	7,774	7,833	6,767	*5,308*	5,729	11,523	13,750	12,085	9,746	7,558	38.6
Carbon paper and inked ribbons	1,198	1,215	1,229	1,232	1,224	1,204	1,193	1,192	1,177	*1,161*	1,170	1,186	1,190	94.2
Cardboard, not made in paper mills	520	523	541	543	525	521	506	*499*	509	538	522	516	501	91.9
Card cutting and designing	2,041	2,133	2,148	2,245	2,202	2,129	1,994	1,971	*1,874*	1,895	2,011	1,923	1,971	83.5
Carpets and rugs, rag	1,003	1,038	1,074	1,128	1,117	1,139	1,007	908	943	952	938	946	*846*	74.3
Carpets and rugs, wool, other than rag	22,903	21,489	23,010	23,881	24,282	24,904	24,212	23,316	23,140	22,388	22,670	21,442	*20,105*	80.7
Carriages and sleds, children's	4,159	*3,438*	3,822	4,051	4,191	4,291	4,028	4,209	4,258	4,288	4,724	4,701	3,901	72.8
Carriages, wagons, sleighs, and sleds	1,431	1,664	1,717	1,754	1,722	1,556	1,479	1,386	1,287	1,149	1,164	1,149	*1,140*	65.0
Cars, electric and steam railroad, not built in railroad repair shops	18,785	22,155	21,322	21,099	20,752	18,602	19,260	17,657	17,766	17,877	16,648	16,260	*16,022*	72.3
Cash registers and adding, calculating, and card-tabulating machines	12,176	13,381	13,072	12,867	12,712	12,379	12,237	12,254	12,040	11,481	*11,173*	11,243	11,272	83.5
Caskets, coffins, burial cases, and other morticians' goods	11,932	12,141	12,228	12,279	12,194	11,953	11,808	11,768	11,740	11,744	11,781	*11,738*	11,805	95.6
Cast-iron pipe and fittings	16,066	16,489	16,657	17,353	17,153	17,304	16,530	16,150	15,659	15,197	15,164	14,791	*14,341*	82.6
Cement	24,317	23,506	23,738	24,758	26,733	26,864	26,531	26,131	25,284	23,905	23,409	20,730	*20,218*	75.2
Cereal preparations	7,018	6,837	6,819	*6,740*	7,073	7,101	7,041	6,956	7,131	7,295	7,187	7,096	6,943	92.4
Cheese	2,964	*2,617*	2,647	2,805	3,078	3,214	3,266	3,252	3,139	3,046	2,948	2,846	2,706	80.1
Chemicals not elsewhere classified	48,522	50,907	50,408	50,494	49,943	49,246	48,712	48,269	47,495	47,531	47,443	46,322	*45,492*	89.4
Chewing gum	2,147	2,083	2,090	2,191	2,168	2,201	2,189	2,090	2,145	2,210	2,292	2,116	*1,998*	87.2
China firing and decorating, not done in potteries	220	235	228	230	220	221	218	215	*194*	219	223	221	218	82.6
Chocolate and cocoa products, not including confectionery	5,677	5,756	5,851	5,757	5,582	5,485	5,306	*4,989*	5,208	5,872	6,237	6,210	5,877	80.0
Cigars and cigarettes	88,328	*85,302*	88,002	89,107	88,068	89,209	88,954	88,516	90,003	89,592	88,926	88,640	85,622	94.8
Clay products (other than pottery) and nonclay refractories	51,128	47,135	47,648	52,425	56,167	57,857	57,413	55,628	53,291	50,938	49,225	45,234	*40,580*	70.1
Cleaning and polishing preparations	2,449	2,437	2,472	2,522	2,584	2,555	2,452	2,415	2,435	2,453	2,375	2,309	*2,323*	89.9
Clocks, watches, time-recording devices, and materials and parts, except watchcases	16,213	17,459	17,245	16,938	17,186	16,314	*13,548*	16,050	15,577	16,253	16,047	16,309	15,030	77.6

Wage Earners, by Months, for Industry Groups and Industries: 1931—Continued

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italics*]

	Average number employed during year	Number reported for— January	February	March	April	May	June	July	August	September	October	November	December	Percent minimum is of maximum
INDUSTRIES—continued														
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified	121,964	117,203	122,941	126,832	123,464	119,935	119,006	123,019	127,286	**130,883**	127,398	115,370	*110,235*	84.2
Clothing, men's, buttonholes	222	209	233	227	226	219	*207*	*207*	212	226	235	240	228	86.3
Clothing, women's, not elsewhere classified	173,890	166,948	180,558	189,242	189,284	179,657	162,506	*148,444*	166,627	185,148	185,801	170,277	162,192	78.4
Clothing, work (including sheep-lined and blanket-lined coats but not including shirts), men's	33,088	*30,223*	31,153	32,086	33,087	33,855	34,198	34,277	34,703	**34,778**	34,757	33,329	30,611	86.9
Cloth sponging and refinishing	576	565	610	636	552	531	532	599	638	641	556	540	*515*	80.3
Coffee and spices, roasting and grinding	8,719	8,873	8,837	8,891	8,778	8,884	8,699	8,624	*8,537*	8,672	8,655	8,610	8,566	96.0
Coke-oven products	14,383	16,368	16,281	**16,371**	15,827	15,139	14,284	13,625	13,101	12,805	13,092	*12,775*	12,924	78.0
Collapsible tubes	1,737	1,712	1,800	1,798	1,764	1,751	1,765	1,724	1,673	1,723	1,778	*1,665*	1,688	92.5
Collars, men's	2,048	1,957	*1,908*	1,961	2,037	2,069	2,080	2,081	2,106	2,132	2,149	2,107	1,986	88.8
Combs and hairpins, not made from metal or rubber	653	*612*	696	717	695	650	638	639	627	651	678	616	617	85.4
Compressed and liquefied gases	2,844	**3,029**	2,974	2,978	2,935	2,904	2,882	2,879	2,837	2,764	2,715	2,662	*2,570*	84.8
Concrete products	9,253	8,291	8,364	9,208	10,100	10,224	10,062	9,818	9,914	9,823	9,192	8,540	*7,495*	73.3
Condensed and evaporated milk	6,121	*5,975*	6,041	6,172	6,337	6,538	6,706	6,454	6,171	6,004	5,788	5,639	*5,628*	83.9
Confectionery	51,262	50,496	51,636	50,808	48,511	48,222	46,849	*42,598*	45,792	55,847	**59,377**	58,088	56,923	71.7
Cooperage	8,208	8,147	8,147	8,263	8,517	8,534	8,445	8,253	8,013	8,291	8,344	7,854	*7,686*	90.1
Cordage and twine	11,087	11,404	11,506	11,503	11,256	11,444	11,229	11,571	10,732	*10,395*	10,629	10,636	10,686	89.8
Cork products	3,018	2,985	3,074	3,065	3,057	3,082	3,127	3,123	3,169	2,969	2,944	2,835	*2,801*	88.4
Corn sirup, corn sugar, corn oil, and starch	6,652	6,667	6,732	6,761	6,666	6,604	6,540	6,567	6,620	6,696	6,750	6,685	*6,535*	96.7
Corsets and allied garments	13,977	13,753	14,198	14,618	14,781	14,547	14,212	13,656	13,788	13,888	13,907	13,347	*13,029*	88.1
Cotton goods	329,962	329,049	332,665	336,536	**339,747**	339,070	333,650	328,689	328,283	328,572	323,133	321,707	*318,439*	93.7
Cotton small wares	12,826	12,670	13,562	14,192	14,100	13,666	12,900	12,475	12,455	12,500	12,312	11,863	*11,222*	79.1
Cutlery (not including silver and plated cutlery) and edge tools	12,485	12,802	13,450	13,591	13,277	13,431	13,309	12,093	11,966	11,727	11,482	11,444	*11,249*	82.8
Dentists' supplies and equipment, except instruments	3,874	4,112	4,111	4,090	4,062	3,889	3,851	3,822	3,807	3,788	3,684	3,639	*3,633*	88.4
Doors, shutters, and window sash and frames, molding, and trim, metal	6,816	**7,263**	7,038	6,976	6,817	6,849	6,780	6,911	6,783	6,660	6,682	*6,498*	6,540	89.5
Druggists' preparations	9,476	9,576	9,628	9,685	9,625	9,569	9,449	9,319	*9,300*	9,434	9,413	9,364	9,347	96.0
Drug grinding	661	678	665	681	676	678	663	660	660	642	648	642	*637*	93.5
Dyeing and finishing textiles	67,603	70,257	72,128	**72,800**	71,487	69,225	66,213	64,994	65,900	66,823	64,550	63,569	*63,295*	86.9

Electrical machinery, apparatus, and supplies	180,106	195,153	191,895	191,079	188,334	183,058	179,894	176,586	174,008	174,619	173,269	168,354	*165,017*	84.6
Electroplating	4,107	3,924	4,097	4,304	4,571	4,689	4,377	4,058	3,901	3,929	3,824	3,808	*3,800*	81.0
Embroideries	5,561	5,496	5,738	5,858	5,928	5,728	5,108	*4,645*	5,178	5,739	5,882	5,852	5,575	78.4
Engines, turbines, tractors, water wheels, and windmills	34,130	41,387	41,273	39,118	38,179	36,183	33,345	30,120	29,326	*28,752*	30,890	29,854	31,136	69.5
Engravers' materials	275	282	279	280	282	280	274	270	*267*	273	276	271	*267*	94.7
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking	1,467	1,512	1,527	1,497	1,528	1,536	1,472	1,460	1,475	1,414	1,394	1,420	*1,375*	89.5
Engraving, steel, copperplate, and wood, and plate printing	6,995	7,449	7,175	7,068	7,114	7,118	6,872	*6,743*	6,823	6,830	6,901	6,846	6,998	90.5
Envelopes	8,924	9,139	9,147	9,124	9,162	9,066	8,922	8,830	8,794	8,753	8,755	8,706	*8,692*	94.9
Excelsior	927	979	988	992	975	968	945	889	900	899	878	862	*856*	86.3
Explosives	4,733	5,168	4,997	4,985	4,846	4,685	4,697	4,752	4,691	4,659	4,634	4,413	*4,270*	82.6
Feathers, plumes, and manufactures thereof	527	418	445	484	451	426	425	581	904	809	532	430	*414*	45.8
Feeds, prepared, for animals and fowls	8,449	8,824	8,682	8,713	8,717	8,509	8,409	8,339	8,253	8,296	8,234	8,263	*8,146*	92.3
Felt goods, wool, hair, or jute	4,430	4,423	4,530	4,584	4,556	4,503	4,473	4,347	4,332	4,442	4,415	4,342	*4,236*	92.8
Fertilizers	14,551	13,840	17,250	23,118	27,379	14,867	*9,821*	10,812	11,187	12,667	11,913	10,729	11,025	35.9
Files	3,016	3,198	3,189	3,164	3,122	3,084	3,019	2,935	2,940	2,928	2,904	2,863	*2,838*	88.7
Firearms	4,264	4,651	4,603	4,561	4,609	4,577	4,412	4,297	4,210	4,127	3,918	3,738	*3,461*	74.4
Fire extinguishers, chemical	571	713	640	646	620	569	551	539	*482*	571	534	506	486	67.6
Fireworks	1,350	1,398	1,484	1,506	1,615	1,656	1,612	902	894	1,090	1,402	1,364	1,273	54.0
Flags and banners	782	704	707	740	791	889	885	834	780	824	841	704	*686*	77.2
Flavoring extracts and flavoring sirups	5,204	*4,614*	4,753	4,929	5,277	5,573	5,653	5,741	5,545	5,357	5,144	4,932	4,936	80.4
Flour and other grain-mill products	22,840	22,892	22,793	22,562	22,466	*22,204*	22,215	23,530	23,334	23,394	23,147	22,976	22,562	94.4
Food preparations not elsewhere classified	8,939	8,693	9,109	9,247	9,242	9,084	8,991	8,705	8,965	9,091	9,010	8,688	*8,440*	91.3
Forgings, iron and steel, not made in plants operated in connection with steel works or rolling mills	9,971	11,593	11,592	11,903	11,676	11,377	10,553	9,158	8,560	8,535	8,165	*8,139*	8,402	68.4
Foundry and machine-shop products not elsewhere classified	284,909	313,072	313,374	313,646	312,253	306,765	292,041	281,349	266,709	266,063	255,646	250,149	*247,845*	79.0
Foundry supplies	428	450	467	481	453	499	443	427	403	400	371	*369*	376	73.9
Fuel briquettes	301	404	380	335	287	253	233	*221*	262	286	271	331	346	54.7
Fur goods	12,358	*9,615*	9,993	10,231	10,609	11,313	12,259	14,004	14,905	15,625	15,009	13,666	11,069	61.5
Furnishing goods, men's, not elsewhere classified	24,034	22,319	24,220	25,649	25,926	25,597	24,873	23,112	*21,044*	22,519	24,078	24,990	24,081	81.2
Furniture, including store and office fixtures	127,605	127,773	130,728	131,316	129,899	127,867	125,923	125,563	127,466	130,920	130,367	124,905	*118,536*	90.3
Furs, dressed	5,160	4,665	5,440	5,633	5,369	5,327	5,248	5,442	5,638	5,736	5,325	4,169	*3,934*	68.6
Galvanizing and other coating, not done in plants operated in connection with rolling mills	1,011	947	966	1,000	1,127	1,141	1,113	1,042	997	961	*919*	953	960	80.5
Gas, manufactured, illuminating and heating	34,523	35,356	35,181	35,110	35,124	35,008	34,659	34,369	34,222	34,160	33,979	33,579	*33,534*	94.8
Glass	49,917	47,922	50,620	51,529	52,631	52,720	52,296	49,635	49,079	50,476	48,733	46,862	*46,506*	88.2
Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics	7,101	7,310	7,731	7,529	7,099	7,019	7,115	*5,824*	6,812	7,266	7,344	7,221	7,444	68.9
Gloves and mittens, leather	7,884	*6,956*	7,376	7,758	7,733	7,770	7,912	7,533	8,139	8,404	8,663	8,556	7,811	80.3
Glue and gelatin	2,559	2,713	2,777	2,794	2,749	2,657	2,585	2,395	*2,223*	2,331	2,372	2,542	2,565	79.6
Gold leaf and foil	865	878	876	884	891	897	898	869	847	850	837	839	*817*	91.0
Gold, silver, and platinum, refining and alloying	803	840	816	853	814	846	827	808	811	763	767	751	*743*	87.1
Graphite, ground and refined	183	184	185	166	193	199	201	197	177	176	174	*163*	177	81.1

Wage Earners, by Months, for Industry Groups and Industries: 1931—Continued

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italics*]

	Average number employed during year	Number reported for— January	February	March	April	May	June	July	August	September	October	November	December	Percent minimum is of maximum
INDUSTRIES—continued														
Grease and tallow, not including lubricating greases	4,067	4,111	4,055	4,021	4,201	4,143	4,116	4,144	4,104	4,040	4,004	3,948	*3,913*	93.1
Haircloth	400	395	402	411	426	422	408	404	403	393	405	379	*356*	83.6
Hair work	267	265	271	269	273	274	266	261	262	271	275	264	*249*	90.5
Handkerchiefs	4,761	4,553	4,640	4,629	*4,435*	4,612	4,587	4,684	4,691	4,929	5,178	5,164	5,037	85.7
Hand stamps and stencils and brands	2,496	2,605	2,596	2,577	2,557	2,557	2,503	2,475	*2,338*	2,463	2,440	2,433	2,402	89.8
Hardware not elsewhere classified	36,118	36,397	37,266	38,251	38,512	38,321	36,794	35,683	34,784	34,333	*34,219*	34,372	34,486	88.9
Hat and cap materials, men's	1,935	1,855	1,912	1,985	1,906	1,907	*1,762*	1,864	2,049	2,326	2,062	1,799	1,791	75.8
Hats and caps, except felt and straw, men's	3,459	3,175	3,445	3,624	3,630	3,670	3,521	3,393	3,573	3,669	3,507	3,280	*3,024*	82.4
Hats, fur-felt	14,084	14,353	14,371	14,179	13,975	13,526	13,476	14,029	15,365	15,319	14,321	*13,023*	13,065	84.8
Hats, straw, men's	2,823	2,995	3,322	3,684	4,020	4,019	3,014	1,851	*963*	1,802	2,373	2,806	3,022	24.0
Hats, wool-felt	1,543	1,110	1,086	1,126	1,123	1,300	1,360	2,254	2,906	2,512	1,715	*999*	1,025	34.4
Horse blankets, fly nets, and related products	387	368	413	448	375	395	378	355	*354*	373	398	387	400	79.0
House-furnishing goods not elsewhere classified	14,195	13,185	13,988	14,870	15,111	14,963	13,701	*12,444*	13,202	14,927	15,401	14,913	13,638	80.8
Ice cream	17,819	15,082	15,027	15,533	17,073	19,280	21,624	22,813	21,852	19,559	16,506	14,937	*14,546*	63.8
Ice, manufactured	25,217	*17,741*	18,106	19,491	23,216	26,804	31,644	35,128	34,764	31,920	25,742	20,165	17,885	50.5
Ink, printing	2,247	2,292	2,265	2,256	2,265	2,278	2,269	2,251	2,253	2,216	*2,203*	2,214	2,206	96.1
Ink, writing	347	336	346	356	362	352	361	351	371	367	353	318	*290*	78.2
Instruments, professional and scientific, and gauges, except machinists' gauges	9,136	9,735	9,663	9,843	9,826	9,631	9,289	8,764	8,889	8,709	*8,337*	8,362	8,580	84.7
Jewelers' findings and materials	1,899	2,017	2,047	1,999	1,967	1,831	1,848	1,780	1,828	1,919	1,995	1,827	*1,729*	84.5
Jewelry	16,724	17,218	17,221	17,005	16,516	16,191	16,052	*15,303*	16,195	17,334	17,947	17,175	16,527	85.3
Jewelry and instrument cases	1,398	1,351	1,428	1,417	1,416	1,386	1,339	*1,269*	1,330	1,407	1,479	1,518	1,438	83.6
Jute goods	3,785	3,798	3,703	3,850	3,864	3,929	3,891	3,906	3,899	3,769	3,694	3,638	*3,476*	88.5
Knit goods	178,011	*166,652*	173,850	175,448	178,279	179,626	178,797	174,062	177,533	184,217	185,295	183,721	178,649	89.9
Lace goods	6,043	6,311	6,377	6,465	6,343	6,164	5,884	*5,715*	5,765	5,958	5,963	5,779	5,790	88.4
Lapidary work	205	239	196	202	201	247	210	190	*188*	196	202	196	192	76.1
Lasts and related products	1,497	1,468	1,564	1,564	1,542	1,528	1,579	1,622	1,563	1,454	*1,329*	1,340	1,412	81.9
Leather goods not elsewhere classified	5,221	*4,524*	4,909	5,209	5,526	5,497	5,524	5,316	5,384	5,594	5,491	5,056	4,618	80.9
Leather: Tanned, curried, and finished	42,047	41,977	42,558	42,665	42,560	42,866	42,641	43,292	43,642	42,748	41,118	39,472	*39,026*	89.4
Lighting equipment	14,790	14,756	15,647	15,826	15,719	15,276	14,555	14,171	14,261	14,961	14,360	14,308	*13,658*	86.2
Lime	6,706	6,089	6,358	6,770	7,354	7,324	7,024	7,094	6,927	6,722	6,651	6,336	*5,321*	79.2
Linen goods	1,567	*1,503*	1,509	1,560	1,552	1,540	1,562	1,539	1,543	1,533	1,653	1,662	1,642	90.4
Linoleum	2,895	2,859	2,885	2,969	2,950	2,965	2,974	*2,669*	2,818	2,868	2,923	2,920	2,940	89.7

Liquors, vinous	96	89	88	93	98	94	88	94	88	120	122	87	94	71.3
Lithographing	16,215	17,006	16,897	16,907	16,770	16,597	16,250	15,923	15,765	15,648	15,735	15,663	*15,361*	90.3
Locomotives (other than electric), not made in railroad repair shops	5,443	6,397	6,334	6,603	6,149	5,822	5,601	5,592	5,355	4,962	4,486	4,051	*3,875*	58.7
Lubricating oils and greases, not made in petroleum refineries	2,115	2,238	2,233	2,275	2,275	2,268	2,171	2,141	2,015	1,988	1,945	1,926	*1,902*	83.6
Lumber and timber products not elsewhere classified	196,647	200,853	205,105	209,215	212,385	214,203	208,641	194,939	192,799	189,717	187,639	177,875	*166,398*	77.7
Macaroni, spaghetti, vermicelli, and noodles	4,764	4,968	5,096	5,052	4,665	4,486	4,444	*4,389*	4,496	4,857	4,956	4,964	4,851	85.1
Machine-tool accessories and machinists' precision tools and instruments	17,533	17,602	17,297	17,139	17,516	17,486	17,035	*16,881*	16,989	18,534	18,566	18,280	17,075	90.9
Machine tools	21,262	25,830	25,205	25,150	23,768	23,057	22,005	20,792	19,785	19,084	18,244	16,386	*15,841*	61.3
Malt	540	561	*482*	493	525	538	533	499	485	561	613	606	587	78.6
Marble, granite, slate, and other stone products	27,700	27,401	27,659	28,594	29,510	29,598	28,905	28,742	28,417	28,194	26,687	24,917	*23,780*	80.3
Matches	3,369	3,258	3,320	3,336	3,209	3,229	3,227	*3,126*	3,377	3,730	3,608	3,558	3,447	83.8
Mats and matting, grass and coir	311	420	405	446	432	359	273	222	*194*	219	231	250	277	43.5
Mattresses and bed springs not elsewhere classified	13,622	13,126	13,448	13,801	14,073	14,270	14,162	13,858	13,728	13,877	13,777	13,035	*12,306*	86.2
Meat packing, wholesale	106,707	112,758	109,432	105,018	103,663	104,709	105,059	104,636	*103,561*	104,360	105,685	110,284	111,322	91.8
Meters (gas, water, etc.) and gas generators	4,954	5,436	5,407	5,290	5,216	5,068	4,931	4,814	4,821	4,777	4,540	*4,520*	4,624	83.1
Millinery	26,612	26,185	29,432	32,720	31,523	26,936	23,254	*20,908*	27,313	30,106	26,967	22,337	21,662	63.9
Minerals and earths, ground or otherwise treated	1,090	1,060	1,069	1,118	1,136	1,134	1,108	1,029	1,119	1,153	1,110	1,057	*993*	86.1
Mirror and picture frames	3,113	3,158	3,347	3,361	3,095	2,945	2,870	*2,747*	2,796	3,112	3,361	3,378	3,182	81.3
Mirrors and other glass products made of purchased glass	7,183	7,182	7,248	7,296	7,236	7,482	7,119	*6,939*	7,081	7,118	7,261	7,221	7,018	92.7
Miscellaneous articles not elsewhere classified	13,892	12,943	13,383	13,515	13,155	12,826	*12,814*	12,937	13,701	15,098	16,305	15,738	14,288	78.6
Models and patterns, not including paper patterns	4,332	4,676	4,635	4,579	4,521	4,450	4,256	4,232	4,202	4,271	4,186	4,057	*3,915*	83.7
Motorcycles, bicycles, and parts	3,294	*2,964*	3,250	3,438	3,518	3,358	3,272	3,323	3,242	3,235	3,349	3,336	3,241	84.3
Motor-vehicle bodies and motor-vehicle parts	150,649	162,860	169,576	178,112	181,756	181,929	163,204	150,280	125,634	131,772	*112,293*	119,742	130,629	61.7
Motor vehicles, not including motorcycles	134,866	136,925	140,523	146,490	152,471	152,233	141,407	138,004	135,830	130,833	117,136	*107,408*	119,131	70.4
Mucilage, paste, and other adhesives, except glue and rubber cement	282	271	282	280	274	290	290	289	290	288	286	275	*266*	91.7
Musical-instrument parts and materials: Piano and organ	1,213	1,298	1,279	1,274	1,243	1,226	1,125	1,068	1,191	1,292	1,288	1,218	*1,060*	81.7
Musical instruments and parts and materials, not elsewhere classified	2,593	2,606	2,718	2,737	2,692	2,565	2,537	*2,470*	2,478	2,569	2,616	2,583	2,544	90.2
Musical instruments: Organs	1,460	1,664	1,677	1,664	1,596	1,503	1,418	1,434	1,437	1,395	1,371	1,190	*1,170*	69.8
Musical instruments: Pianos	4,737	5,027	5,279	5,480	5,428	5,170	4,356	4,208	4,582	4,423	4,417	4,378	*4,009*	74.8
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills	1,570	1,603	1,626	1,607	1,606	1,622	1,584	1,515	1,558	1,570	1,519	1,518	*1,510*	92.9
Needles, pins, hooks and eyes, and snap fasteners	5,354	5,168	*5,145*	5,226	5,227	5,307	5,285	5,367	5,337	5,602	5,610	5,679	5,297	90.6
Nets (fish) and seines	572	638	611	604	598	574	537	530	515	*505*	598	574	580	79.2
Nonferrous-metal alloys; nonferrous-metal products, except aluminum, not elsewhere classified	48,913	51,447	51,341	51,781	51,794	51,022	49,678	48,915	47,405	46,710	46,121	45,566	*45,180*	87.2
Oil, cake, and meal, cottonseed	12,268	16,834	13,690	10,652	8,050	5,675	4,126	*3,884*	7,949	16,273	20,742	20,332	19,008	18.7
Oil, cake, and meal, linseed	1,837	1,811	1,791	1,990	1,890	,806	*1,664*	1,890	1,862	1,992	1,879	1,772	1,698	83.5

Wage Earners, by Months, for Industry Groups and Industries: 1931—Continued

[The month of maximum employment is indicated by **bold-faced** figures and that of minimum employment by *italics*]

	Average number employed during year	Number reported for— January	February	March	April	May	June	July	August	September	October	November	December	Percent minimum is of maximum
INDUSTRIES—continued														
Oils, essential	128	133	133	131	125	127	*120*	128	127	122	126	128	131	90.2
Oils not elsewhere classified	961	988	1,015	1,003	1,010	989	1,024	953	940	972	958	*821*	860	80.2
Oilcloth	1,229	1,192	1,301	1,321	1,318	1,219	*1,160*	1,215	1,209	1,259	1,185	1,165	1,199	87.8
Oleomargarine and other margarines, not made in meat-packing establishments	1,043	1,151	1,133	1,090	1,078	1,014	996	972	*966*	987	995	1,059	1,071	83.9
Optical goods	7,446	7,790	7,690	7,746	7,788	7,749	7,683	*6,842*	7,400	7,322	7,220	7,068	7,051	87.8
Paints and varnishes	22,521	22,240	22,546	23,089	23,607	24,187	23,911	22,845	21,706	21,876	21,669	21,359	*21,222*	87.7
Paper	87,683	88,717	**89,836**	89,620	89,613	88,588	87,791	87,682	88,043	86,547	86,596	85,436	*83,731*	93.2
Paper goods not elsewhere classified	17,902	17,743	17,882	18,309	18,333	18,421	18,384	18,085	17,894	17,704	17,563	17,376	*17,132*	93.0
Patent or proprietary medicines and compounds	13,475	13,768	14,112	14,122	13,856	13,412	12,982	*12,842*	12,903	13,506	13,595	13,443	13,154	90.9
Paving materials: Blocks (except brick and stone) and mixtures	1,081	*648*	742	938	1,116	1,291	1,371	1,315	1,265	1,285	1,133	991	874	47.3
Peanuts, walnuts, and other nuts, processed or shelled	7,606	9,242	8,784	8,472	7,156	6,729	5,288	5,103	*4,786*	6,219	7,762	10,820	10,915	43.8
Pencils, lead (including mechanical)	3,459	3,574	3,555	3,521	3,418	3,415	3,396	3,443	3,461	3,532	3,492	3,401	*3,302*	92.4
Pens, fountain and stylographic; pen points, gold, steel, and brass	3,945	3,819	3,916	3,952	4,008	3,973	3,944	*3,795*	3,990	3,986	4,043	4,031	3,887	93.9
Perfumes, cosmetics, and other toilet preparations	10,748	10,630	10,881	11,158	11,025	10,761	10,537	10,309	10,477	10,913	11,006	10,990	*10,294*	92.3
Petroleum refining	68,824	73,272	72,331	72,019	70,450	69,841	68,715	67,530	67,210	66,614	66,463	65,848	*65,594*	89.5
Photo-engraving, not done in printing establishments	10,095	10,581	10,611	10,606	**10,616**	10,406	10,080	9,895	9,774	9,748	9,713	9,563	*9,545*	89.9
Photographic apparatus and materials and projection apparatus	10,609	11,618	11,499	11,399	11,493	11,209	10,921	10,319	*9,365*	9,655	9,836	9,980	10,019	80.6
Pipes (tobacco)	1,677	1,671	1,698	1,642	1,614	1,604	1,592	*1,568*	1,647	1,723	1,830	1,844	1,688	85.0
Planing-mill products (including general millwork), not made in planing mills connected with sawmills	54,493	54,581	54,880	55,641	56,493	**56,623**	56,432	56,020	55,536	54,588	53,077	51,169	*48,878*	86.3
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	19,688	20,383	**20,758**	20,533	20,333	20,357	20,355	20,267	19,147	19,517	19,214	18,360	*17,034*	82.1
Pocketbooks, purses, and cardcases	8,747	7,959	8,725	8,975	9,040	8,472	7,737	*7,060*	8,650	10,321	**10,771**	9,404	7,847	65.5
Pottery, including porcelain ware	27,023	27,624	28,211	28,184	28,134	28,513	27,866	26,513	26,648	26,386	25,813	25,643	*24,745*	86.8

Poultry killing, dressing, and packing, wholesale	6,982	5,654	5,371	*5,303*	5,464	5,749	6,140	6,431	7,376	7,978	8,237	10,174	9,910	52.1
Printing and publishing, book and job	134,302	139,756	139,805	138,253	137,833	136,837	133,258	131,386	*130,611*	130,735	131,153	130,807	131,195	93.4
Printing and publishing, music	656	724	723	726	694	629	620	*605*	623	638	622	634	629	83.3
Printing and publishing, newspaper and periodical	119,503	120,301	119,923	121,063	120,770	120,876	119,367	117,705	*117,124*	118,324	119,104	119,509	119,965	96.7
Printing materials, not including type or ink	781	820	808	802	802	797	781	773	767	*755*	756	762	754	91.7
Pulp goods and molded composition products	5,654	5,488	5,456	5,547	5,547	*5,437*	5,611	5,622	5,827	5,989	6,009	5,791	5,527	90.5
Pulp (wood and other fiber)	20,219	20,349	20,778	20,769	20,944	20,825	20,491	20,367	20,027	19,678	19,738	19,539	*19,142*	91.3
Pumps (hand and power) and pumping equipment	15,156	16,305	16,007	16,095	16,228	16,255	15,758	15,356	14,850	14,310	13,813	13,500	*13,393*	82.2
Radio apparatus and phonographs	36,490	37,475	36,230	34,210	34,552	30,452	30,976	33,148	38,394	47,010	45,640	40,208	*29,579*	62.9
Railroad repair shops, electric	26,629	28,383	28,133	28,018	27,579	27,131	26,411	26,090	25,659	25,684	25,505	25,535	*25,415*	89.5
Railroad repair shops, steam	282,405	306,676	303,952	300,736	296,935	292,669	283,710	280,535	276,949	267,942	266,241	259,676	*252,841*	82.4
Rayon and allied products	38,735	*37,408*	37,413	38,152	38,622	39,014	39,712	39,907	39,998	39,475	39,036	38,180	37,899	93.5
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment	7,128	6,344	7,118	7,675	8,618	9,296	9,154	7,690	6,779	*5,030*	5,508	6,073	6,255	54.1
Refrigerators, mechanical	15,624	*11,554*	14,632	17,508	17,923	19,956	18,547	16,004	15,567	14,239	14,276	13,487	13,789	57.9
Regalia, robes, vestments, and badges	1,422	1,425	1,353	1,454	1,499	1,587	1,562	1,402	1,378	1,363	1,379	1,379	*1,285*	81.0
Rice cleaning and polishing	1,503	1,785	1,755	1,482	1,388	1,147	945	*833*	1,007	1,527	2,115	2,209	1,843	37.7
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint	4,123	*3,733*	3,881	3,977	4,206	4,314	4,223	4,246	4,305	4,506	4,275	4,019	3,786	82.8
Rubber goods other than tires, inner tubes, and boots and shoes	34,218	33,763	34,299	35,460	35,764	35,690	35,291	34,353	33,454	34,079	33,583	32,687	*32,194*	90.0
Rubber tires and inner tubes	49,159	49,832	49,446	49,607	49,956	51,576	52,013	50,555	49,368	47,762	46,664	46,625	*46,507*	89.4
Saddlery, harness, and whips	1,974	2,116	2,258	2,284	2,183	2,018	1,847	1,850	*1,797*	1,807	1,824	1,875	1,825	78.7
Safes and vaults	2,044	2,225	2,250	2,215	2,153	2,082	2,050	2,003	2,010	1,974	1,910	1,843	*1,815*	80.7
Salt	4,728	4,588	4,674	4,778	4,610	*4,585*	4,606	4,695	4,859	4,968	4,908	4,788	4,684	92.3
Sand-lime brick	322	285	342	341	380	372	360	334	344	308	312	266	*224*	58.9
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments	6,242	6,229	6,202	6,145	*6,130*	6,154	6,183	6,334	6,267	6,338	6,371	6,248	6,310	96.2
Saws	3,005	3,338	3,322	3,328	3,283	2,994	2,889	2,733	*2,719*	2,765	2,938	2,850	2,895	81.5
Scales and balances	2,814	2,989	2,958	2,992	2,949	2,906	2,821	2,810	2,769	2,778	2,711	2,614	*2,473*	82.7
Screw-machine products and wood screws	12,047	12,441	12,835	13,398	13,409	13,225	12,574	12,066	11,212	11,026	10,791	10,910	*10,679*	79.6
Sewing machines and attachments	8,090	8,958	8,815	8,537	8,236	8,114	7,856	7,779	7,767	7,801	7,805	7,745	*7,664*	85.6
Sheet-metal work, not specifically classified	19,365	20,118	19,789	20,056	20,136	20,169	19,704	19,545	19,465	19,516	19,013	18,025	*16,843*	83.5
Ship and boat building, steel and wooden, including repair work	45,262	47,264	46,797	48,401	50,494	49,439	47,231	45,506	41,859	41,889	41,472	*41,227*	41,563	81.6
Shirts	57,755	*55,431*	56,538	58,329	57,772	57,900	58,058	56,773	57,662	58,961	60,817	58,732	56,083	91.1
Shortenings (other than lard), vegetable cooking oils, and salad oils	3,692	3,788	3,738	3,694	3,689	3,589	3,608	*3,581*	3,652	3,660	3,794	3,769	3,741	94.4
Signs and advertising novelties	14,463	*14,124*	14,129	14,394	14,639	14,997	14,606	14,318	14,253	14,356	14,647	14,600	14,496	94.2
Silk and rayon goods	109,225	114,742	119,144	119,268	117,318	110,586	101,026	*99,372*	100,810	105,433	108,764	107,564	106,672	83.3
Silverware and plated ware	11,077	11,485	11,828	11,824	11,438	11,217	10,810	*10,300*	10,563	10,825	11,003	10,836	10,800	87.1
Smelting and refining, copper	8,642	9,564	9,506	9,602	9,186	9,106	8,653	8,296	7,903	8,133	8,055	7,914	*7,785*	81.1
Smelting and refining, lead	2,584	3,084	2,978	3,001	2,742	2,495	2,548	2,188	*2,111*	2,405	2,282	2,561	2,617	68.5
Smelting and refining, nonferrous metals other than gold, silver, or platinum, not from the ore	2,626	2,817	2,702	2,828	2,701	2,700	2,663	2,530	*2,483*	2,545	2,543	2,488	2,513	87.8
Smelting and refining, zinc	7,251	8,277	8,301	8,079	7,864	7,498	7,179	6,866	6,714	6,642	6,664	*6,460*	6,463	77.8

Wage Earners, by Months, for Industry Groups and Industries: 1931

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italics*]

	Average number employed during year	Number reported for— January	February	March	April	May	June	July	August	September	October	November	December	Percent minimum is of maximum
INDUSTRIES—continued														
Soap	14,163	14,250	14,234	14,374	14,332	14,170	13,792	*13,619*	13,941	14,327	14,471	14,327	14,121	94.1
Soda fountains and accessories	1,563	1,561	1,654	1,604	1,733	1,809	1,786	1,576	1,439	*1,331*	1,513	1,411	1,338	73.6
Sporting and athletic goods, not including firearms or ammunition	10,176	10,769	10,980	11,386	11,434	11,245	10,554	9,592	9,100	*8,868*	8,959	9,528	9,697	77.6
Springs, steel, except wire, not made in plants operated in connection with rolling mills	2,938	3,029	3,012	3,023	3,071	3,014	2,989	3,064	3,028	2,811	2,744	*2,726*	2,747	88.8
Stamped ware, enameled ware, and metal stampings; enameling, japanning, and lacquering	28,378	27,241	28,825	29,687	30,359	30,042	29,023	28,227	28,321	28,487	27,851	26,737	*25,736*	84.8
Stationery goods not elsewhere classified	8,614	8,615	8,774	8,818	8,622	8,541	8,561	8,553	8,777	8,863	8,651	8,481	*8,109*	91.5
Statuary and art goods (except concrete), factory production	1,325	1,454	1,430	1,406	1,373	1,347	1,340	1,338	1,317	1,415	1,254	1,116	*1,107*	76.1
Steam and hot-water heating apparatus and steam fittings	28,996	32,481	32,052	31,117	29,707	29,380	28,720	28,035	27,860	27,630	27,811	27,114	*26,039*	80.2
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified	4,705	4,655	4,879	5,042	4,948	5,107	4,967	4,721	4,593	4,407	4,405	4,395	*4,340*	85.0
Steel barrels, kegs, and drums	3,253	3,213	3,207	3,245	3,325	3,345	3,246	3,398	3,426	3,284	3,273	3,115	*2,955*	86.3
Steel-works and rolling-mill products	264,634	294,478	299,624	308,079	302,801	291,459	268,652	257,435	242,182	233,027	230,196	224,109	*223,585*	72.6
Stereotyping and electrotyping, not done in printing establishments	4,857	5,054	5,052	5,036	5,043	4,999	4,903	4,756	4,716	4,711	4,720	4,660	*4,629*	91.6
Stoves and ranges (other than electric) and warm-air furnaces	32,580	29,664	32,902	34,263	33,987	33,681	32,919	31,404	33,149	34,988	34,730	31,657	*27,626*	79.0
Structural and ornamental metal work, not made in plants operated in connection with rolling mills	37,510	41,935	40,193	40,338	39,794	39,256	38,513	38,273	37,540	36,293	34,106	32,512	*31,367*	74.8
Sugar, beet	6,241	2,985	*1,845*	1,992	2,174	2,444	2,806	3,277	4,638	5,700	18,867	16,306	11,858	9.8
Sugar, cane, not including products of refineries	2,032	895	754	*747*	775	851	785	789	833	976	3,103	6,732	7,140	10.5
Sugar refining, cane	11,855	11,189	11,475	12,179	12,412	11,334	12,263	12,806	12,342	12,274	11,857	11,100	*11,035*	86.2
Surgical and orthopedic appliances and related products	6,740	6,672	6,862	6,995	6,957	6,878	6,704	6,692	6,708	6,769	6,656	6,575	*6,418*	91.8
Suspenders, garters, and other elastic woven goods, made from purchased webbing	3,257	3,133	3,308	3,312	3,282	3,084	3,195	3,292	3,326	3,449	3,479	3,250	*2,976*	85.5
Tanning materials, natural dyestuffs, mordants and assistants, and sizes	1,962	2,058	1,908	1,943	1,938	*1,862*	1,886	1,933	1,919	1,954	1,878	2,163	2,101	86.1

Textile machinery and parts	18,808	18,842	19,025	19,285	19,278	19,164	18,989	18,886	18,815	18,723	18,513	18,137	*18,036*	93.5
Theatrical scenery and stage equipment	365	427	362	363	366	324	*299*	321	381	416	426	339	353	70.0
Tin and other foils, not including gold foil	1,484	1,636	1,588	1,499	1,616	1,492	1,431	1,521	1,373	1,504	1,417	1,385	*1,349*	82.5
Tin cans and other tinware not elsewhere classified	25,271	25,135	25,736	26,264	26,719	26,294	26,442	26,341	27,211	25,635	23,315	22,515	*21,646*	79.5
Tobacco: Chewing and smoking, and snuff	11,441	*10,476*	10,679	10,479	10,541	10,688	10,735	11,219	12,571	12,792	12,607	12,294	12,215	81.9
Tools, not including edge tools, machine tools, files, or saws	10,833	11,299	11,498	11,627	11,285	11,257	10,968	10,648	10,367	10,601	10,424	10,173	*9,852*	84.7
Toys (not including children's wheel goods or sleds), games, and playground equipment	13,231	*9,885*	10,953	11,533	11,679	12,092	12,318	12,693	14,129	15,819	17,182	16,904	13,589	57.5
Trimmings (not made in textile mills) and stamped art goods for embroidering	6,212	6,330	6,702	6,898	6,763	6,592	5,806	*5,334*	5,671	6,294	6,278	5,959	5,917	77.3
Trunks, suitcases, and bags	6,198	5,891	6,211	6,286	6,344	6,543	6,589	6,410	6,340	6,410	6,051	5,818	*5,488*	83.3
Turpentine and rosin	28,257	27,223	*27,217*	27,600	28,554	28,855	29,066	28,949	28,835	28,441	28,366	28,168	27,809	93.6
Type founding	407	395	396	397	397	391	381	*369*	385	443	444	445	446	82.7
Typewriters and parts	10,924	11,351	11,294	11,496	11,264	11,334	11,328	10,792	10,731	10,586	*10,250*	10,348	10,309	89.2
Umbrellas, parasols, and canes	1,852	1,899	1,819	1,753	1,706	1,722	1,706	*1,636*	1,684	2,004	2,123	2,108	2,060	77.1
Upholstering materials not elsewhere classified	899	934	960	1,019	999	972	900	879	850	880	770	776	849	75.6
Vinegar and cider	848	556	*542*	574	595	620	686	739	812	1,082	1,606	1,507	851	33.7
Wall paper	3,734	4,392	3,957	3,600	3,527	3,745	3,494	3,490	*3,253*	3,667	3,864	3,940	3,883	74.1
Wall plaster, wallboard, insulating board, and floor composition	5,866	5,492	5,860	5,978	6,157	6,339	6,326	6,217	6,041	5,699	5,647	5,432	*5,209*	82.2
Washing machines, wringers, driers, and ironing machines, for household use	6,201	5,912	6,556	7,017	6,882	6,563	6,115	6,080	6,077	6,261	6,156	5,518	*5,273*	75.1
Waste	3,153	3,225	3,193	3,260	3,298	3,217	3,198	3,167	3,208	3,075	3,061	2,996	*2,937*	89.1
Watchcases	1,669	*1,482*	1,637	1,751	1,710	1,673	1,629	1,691	1,751	1,779	1,801	1,632	1,495	82.3
Window and door screens and weather strip	2,564	2,466	2,519	2,640	2,901	3,006	2,937	2,588	2,332	2,333	2,369	2,372	*2,310*	76.8
Window shades and fixtures	3,119	2,974	3,007	3,102	3,252	3,377	3,278	3,091	3,044	3,179	3,169	3,034	*2,919*	86.4
Wire drawn from purchased rods	14,476	15,741	15,490	15,519	15,234	14,786	14,399	14,113	13,922	13,880	13,923	13,391	*13,320*	84.6
Wirework not elsewhere classified	17,226	17,833	18,427	18,959	18,301	17,872	17,141	16,658	16,814	16,347	16,117	*16,084*	16,159	84.8
Wood distillation and charcoal manufacture	2,654	3,197	3,241	3,051	2,821	2,716	2,418	2,412	*2,305*	2,360	2,459	2,371	2,496	71.1
Wood preserving	9,700	9,857	9,976	10,487	10,627	10,637	10,285	10,121	9,824	9,363	8,902	8,428	*7,890*	74.2
Wood turned and shaped and other wooden goods, not elsewhere classified	17,020	17,335	18,334	19,180	19,368	19,242	17,020	15,829	15,415	*14,462*	15,971	15,838	16,244	74.7
Woolen goods	42,878	39,315	45,015	45,003	40,775	43,924	45,141	46,292	48,957	46,563	40,694	37,011	*35,841*	73.2
Wool pulling	640	693	712	659	706	701	627	620	572	597	*553*	601	635	77.7
Wool scouring	1,377	*1,230*	1,345	1,359	1,399	1,349	1,304	1,357	1,455	1,434	1,421	1,414	1,454	84.5
Wool shoddy	1,069	972	1,050	1,054	1,071	1,093	1,098	1,215	1,279	1,088	1,029	977	*907*	70.9
Worsted goods	76,659	70,608	73,390	74,184	74,368	78,048	82,828	86,986	88,213	82,531	71,909	68,869	*66,972*	75.1
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills	8,045	9,105	8,076	8,159	8,451	8,693	7,493	8,199	8,450	8,297	7,929	*6,807*	6,877	74.8