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TREND OF EMPLOYMENT

AUGUST 1933



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THE Bureau of Labor Statistics of the United States Department of Labor presents in the following tables, data compiled from pay-roll reports supplied by cooperating establishments in 17 important industrial groups of the country and covering the pay period ending nearest the 15th of the month.

Information for 89 of the principal manufacturing industries of the country is shown, following which are presented tabulations showing the changes in employment and pay rolls in the 16 nonmanufacturing industries included in the Bureau's monthly survey, together with information available concerning employment in the executive civil service and on class I railroads.

Employment in Selected Manufacturing Industries in August 1933

Comparison of Employment and Pay-Roll Totals in August 1933 with July 1933 and August 1932

EMPLOYMENT in manufacturing industries increased 6.4 per cent and pay rolls increased 11.6 per cent between July and August 1933, according to reports received from representative establishments in 89 important manufacturing industries of the country. A comparison of the index of employment in August 1933 with the employment index of August 1932 shows a gain of 27.9 percent over the year interval, while a similar comparison of pay-roll indexes indicates an increase of 43 percent.

The index of employment in August 1933 was 71.6 as compared with 67.3 in July 1933, 62.8 in June 1933, and 56.0 in August 1932; the pay-roll index in August 1933 was 51.9 as compared with 46.5 in July 1933, 43.1 in June 1933, and 36.3 in August 1932. The 12-month average for 1926 equals 100.

These changes in employment and pay rolls in August 1933 are based on reports supplied by 18,008 establishments in 89 of the principal manufacturing industries of the United States. These establishments reported 3,187,674 employees on their weekly pay rolls during the pay period ending nearest August 15 whose combined weekly earnings were \$60,351,490. The employment reports received from these cooperating establishments cover approximately 50 percent of the total number of wage earners in all manufacturing industries of the country.

August is the fifth consecutive month in which increases in factory employment and pay rolls have been reported. The increases in employment during the preceding 4 months were widespread. The

number of industries reporting increased employment in August exceeded that of previous months, 81 of the 89 industries surveyed showing increased employment over the month interval. Increased pay rolls in August, as compared with July, were shown in 83 of the 89 industries.

Employment and pay rolls ordinarily show but little change between July and August, the average percentage of increase in employment between July and August during the past 10 years having been 0.2 percent and in pay rolls 1.5 percent. These increases therefore of 6.4 percent in employment and 11.6 percent in pay rolls in August of the present year are of unusual proportion and are due largely to the adoption of the N.R.A. codes by numerous cooperating establishments.

The increase in employment in August combined with the increases reported from March to July represent a return to employment of nearly 1,500,000 factory workers over the 5-month interval. The increase in pay-roll totals in August combined with the estimated increase in weekly pay rolls between March and July represents an increase of more than \$40,000,000 disbursed in weekly pay envelopes of factory employees in August over the total weekly pay rolls disbursed in March. The August employment index stands at 29.9 percent above the level of March 1933. The August pay-roll index shows gain of 55.4 percent over the index of March.

Employment in August 1933 reached the highest point recorded in over 2 years, the August index being but slightly lower than the index recorded in July 1931. The continued increases in pay rolls during the last 5 months have pushed the August pay-roll index up to the highest point reached since December 1931.

Each of the 14 groups of manufacturing industries reported gains in employment and earnings over the month interval, the nonferrous metals group reporting the greatest increase, 12.4 percent, due to consistently large gains in number of workers in each of the 8 industries comprising this group. The increase of 11.2 percent in the rubber products group was due to pronounced gains in employment in the rubber boot and shoe and the rubber-goods industries, combined with a smaller percentage gain in the automobile-tire industry. The machinery group reported a gain of 10.6 percent in employment over the month interval, the foundry and machine shop, machine tool, radio, textile machinery, and typewriter industries reporting the most pronounced gains in this group. The iron and steel group reported a gain of 10.5 percent in employment in August, as compared with July, and an increase of 20.9 percent in pay rolls, which was the most pronounced gain in pay rolls shown in any of the 14 groups of manufacturing industries. Each of the 13 separate industries comprising this group reported gains in employment with the exception of the plumbers' supplies industry in which a decline of 1 percent was reported. The most pronounced gains in the separate industries in this group were in the iron and steel forgings, iron and steel industry, stoves, cutlery, and tool industries. The lumber group reported a gain of 8.2 percent in employment, furniture and sawmills reporting the most pronounced gains. The chemical group reported an increase of 7.7 percent, the cottonseed oil-cake-meal industry in this group reporting an increase of 19.1 percent, and the rayon and chemicals industries also reporting gains of over 10 percent in employment. The stone-clay-glass group reported an increase of 7.3 percent in

employment, each of the 5 industries in this group reporting substantial gains. Employment in the food group increased 6.7 percent between July and August, the beet-sugar industry reporting the largest percentage gains shown in any of the 89 industries surveyed, a seasonal increase of 55.2 percent. The confectionery industry reported an increase of 20.9 percent in number of employees coupled with an increase of 33.1 percent in pay rolls. Two industries in the food group reported decreased employment, namely beverages and flour. In the beverage industry, the decrease was due partly to a seasonal decline in soft-drink-manufacturing establishments and partly to decreases in employment reported in a number of breweries which stated a more regular production schedule had been established. The paper and printing group reported a gain of 5.3 percent in employment and the transportation group reported a gain of 5.2 percent, the automobile industry in the last-named group reporting an increase of 4.3 percent in employment with much larger gains being shown in the shipbuilding, electric- and steam-car building, and locomotive industries. The railroad repair shop group reported a gain of 4.8 percent, steam railroad repair shops reporting a substantial increase and electric railroad repair shops reporting a slight decline in employment between July and August. The leather group reported a gain of 3.9 percent, the tobacco group reported an increase of 3.1 percent, and the textile group reported a gain of 2.8 percent in employment over the month interval. This gain in employment in the textile group was coupled with an increase of 15.1 percent in pay rolls, the adoption of the various industry codes prescribing a minimum wage accounting largely for this more pronounced gain in pay-roll totals than in employment.

Only 8 industries failed to show improved employment conditions over the year interval. The most pronounced gains in employment between August 1932 and August 1933 were reported in the beverage and rayon industries, in which increases of 117.9 and 102.9 percent, respectively, were shown. Other unusually large percentage gains in employment were reported in numerous industries, the more important of which were radios, 71.5 percent; cotton goods, 69.1 percent; woolen and worsted goods, 54.3 percent; iron and steel, 50.6 percent; glass, 46.7 percent; leather, 41.6 percent; steam fittings, 40.8 percent; chemicals, 39.7 percent; silk and rayon goods, 37.6 percent; machine tools, 36.7 percent; furniture, 34.6 percent; foundries, 31.8 percent; and sawmills, 31.6 percent. The automobile industry showed an increase of 19.8 percent in employment over the year interval coupled with a gain of 60.7 percent in pay-roll totals.

In table 1, which follows, are shown the number of identical establishments reporting in both July and August 1933 in the 89 manufacturing industries, together with the total number of employees on the pay rolls of these establishments during the pay period ending nearest August 15, the amount of their earnings for 1 week in August, the percents of change over the month and year intervals, and the indexes of employment and pay roll in August 1933.

The monthly percents of change for each of the 89 separate industries are computed by direct comparison of the total number of employees and of the amount of weekly pay roll reported in identical establishments for the 2 months considered. The percents of change over the month interval in the several groups and in the total of the

89 manufacturing industries are computed from the index numbers of these groups, which are obtained by weighting the index numbers of the several industries in the groups by the number of employees or wages paid in the industries. The percents of change over the year interval in the separate industries, in the groups and in the totals, are computed from the index numbers of employment and pay-roll totals.

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN AUGUST 1933 WITH JULY 1933 AND AUGUST 1932

Industry	Estab- lish- ments report- ing in both July and Au- gust 1933	Employment			Pay-roll totals			Index num- bers August 1933 (average 1926=100)	
		Num- ber on pay roll August 1933	Percent of change		Amount of pay roll (1 week) August 1933	Percent of change		Em- ploy- ment	Pay- roll totals
			July to Au- gust 1933	Au- gust 1932 to Au- gust 1933		July to Au- gust 1933	Au- gust 1932 to Au- gust 1933		
Food and kindred prod- ucts	3,064	278,858	+6.7	+16.6	\$5,683,537	+4.0	+12.8	94.0	74.7
Baking.....	996	67,093	+3.2	+2.7	1,443,612	+1.5	-1.6	82.9	66.5
Beverages.....	380	22,537	-2.3	+117.9	633,639	-4.4	+133.4	163.0	148.9
Butter.....	308	5,989	+2.9	+2.3	121,882	+4	-9.3	105.9	77.6
Confectionery.....	307	38,393	+20.9	+19.7	535,149	+33.1	+18.6	85.6	63.2
Flour.....	418	15,789	-3.0	+3.4	301,882	-12.1	-8.5	85.3	62.1
Ice cream.....	342	12,319	+3.1	+1.1	309,600	+2.7	-7.4	82.5	61.5
Slaughtering and meat packing.....	244	101,707	+10.5	+20.7	2,012,024	+8.5	+19.0	102.6	80.7
Sugar, beet.....	57	6,946	+55.2	+55.8	140,199	+47.5	+44.4	81.5	59.2
Sugar refining, cane.....	12	8,085	+4.9	+10.3	185,550	-5.1	-1.5	84.3	67.9
Textiles and their prod- ucts	3,175	778,398	+2.8	+42.5	11,603,551	+15.1	+65.3	88.8	66.3
Fabrics.....	1,917	638,674	+2.7	+50.5	9,440,829	+14.3	+81.7	86.2	76.5
Carpets and rugs.....	26	13,563	+6.3	+58.4	247,501	+13.1	+136.4	74.6	57.2
Cotton goods.....	678	318,253	+2.1	+69.1	4,208,558	+19.1	+128.6	103.5	87.8
Cotton small wares.....	110	12,036	+6.0	+53.9	189,906	+7.6	+85.6	105.4	82.2
Dyeing and finishing textiles.....	149	40,538	+5.2	+36.7	730,365	+1.8	+39.1	93.1	65.8
Hats, fur-felt.....	34	6,558	+17.2	+21.5	136,618	+24.4	+30.2	82.6	57.3
Knit goods.....	448	112,372	-1.8	+22.4	1,682,739	+16.0	+48.5	89.0	68.6
Silk and rayon goods.....	235	56,007	+8.5	+37.6	854,893	+24.8	+58.2	73.9	58.2
Woolen and worsted goods.....	237	79,347	+3.0	+54.3	1,390,249	+5.3	+71.8	108.6	86.6
Wearing apparel.....	1,258	139,724	+3.3	+21.7	2,162,722	+17.8	+27.2	71.3	46.3
Clothing, men's.....	400	70,861	+2.1	+24.9	1,141,008	+14.4	+45.4	77.8	51.9
Clothing, women's.....	500	26,801	+8	+12.0	420,162	+9.8	-2.3	59.8	34.1
Corsets and allied gar- ments.....	35	6,176	+1.9	+9.4	95,465	+14.4	+36.2	101.3	83.9
Men's furnishings.....	74	8,138	+2.4	+47.5	109,434	+28.0	+83.5	68.3	47.7
Millinery.....	135	10,606	+23.7	+16.2	185,204	+47.6	+14.8	72.5	49.5
Shirts and collars.....	114	17,142	-2.1	+36.7	211,449	+22.4	+70.8	69.3	54.3
Iron and steel and their products, not including machinery	1,367	407,279	+10.5	+41.1	8,328,003	+20.9	+115.2	71.7	49.7
Bolts, nuts, washers, and rivets.....	69	11,588	+7.6	+47.3	211,072	+8.2	+97.3	88.8	57.6
Cast-iron pipe.....	41	6,014	+2.1	+6.5	83,395	+5.1	+20.3	32.7	19.0
Cutlery (not including sil- ver and plated cutlery) and edge tools.....	118	9,064	+11.7	+9.7	166,336	+5.5	+19.0	69.1	47.0
Forgings, iron and steel.....	57	5,506	+13.5	+43.6	104,429	+20.1	+99.6	76.1	50.1
Hardware.....	107	31,299	+7.1	+29.1	532,685	+4.2	+65.1	59.9	34.5
Iron and steel.....	206	254,534	+12.2	+50.6	5,585,670	+28.2	+181.0	75.9	54.8
Plumbers' supplies.....	67	8,823	-1.0	+37.1	146,793	+4	+41.6	80.9	48.7
Steam and hot-water heating apparatus and steam fittings.....	100	17,726	+8.4	+40.8	335,172	+11.8	+62.8	46.6	30.6
Stoves.....	164	22,647	+14.9	+58.1	417,980	+15.0	+84.5	69.1	43.9
Structural and orna- mental metalwork.....	192	14,660	+8.3	+3.4	250,576	+23.9	+9.6	46.1	27.4
Tin cans and other tin- ware.....	60	10,475	+9.8	+20.3	198,832	+4.1	+21.7	90.8	55.0
Tools (not including edge tools, machine tools, files, and saws).....	120	7,851	+11.0	+42.5	141,241	+8.7	+88.0	77.5	50.0
Wirework.....	66	7,092	+7.5	+35.3	153,812	+15.6	+88.6	122.0	112.2

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN AUGUST 1933 WITH JULY 1933 AND AUGUST 1932—Continued

Industry	Estab- lish- ments report- ing in both July and Aug- ust 1933	Employment			Pay-roll totals			Index num- bers August 1933 (average 1926=100)	
		Number on pay roll August 1933	Percent of change		Amount of pay roll (1 week) August 1933	Percent of change			
			July to Aug- ust 1933	Aug- ust 1932 to Aug- ust 1933		July to Aug- ust 1933	Aug- ust 1932 to Aug- ust 1933	Em- ploy- ment	Pay- roll totals
Machinery, not including transportation equipment.	1,778	320,715	+10.6	+27.2	\$6,283,297	+10.4	+49.0	57.5	38.3
Agricultural implements.	76	7,646	+8.4	+44.2	127,972	+12.5	+56.8	31.3	24.3
Cash registers, adding machines, and calculating machines.	35	13,165	+6.0	+37.8	329,299	+6.0	+46.1	85.6	65.9
Electrical machinery, apparatus, and supplies.	285	103,111	+7.0	+6.7	2,143,962	+5.0	+26.9	57.1	42.4
Engines, turbines, tractors, and water wheels.	86	14,143	— .5	+14.7	270,210	— 6.3	+19.9	45.2	27.7
Foundry and machine-shop products.	1,046	122,791	+12.2	+31.8	2,300,969	+12.9	+58.9	56.4	34.8
Machine tools.	145	13,251	+17.5	+36.7	263,341	+16.4	+51.5	39.1	25.6
Radios and phonographs.	41	25,943	+15.0	+71.5	440,998	+32.5	+64.6	108.2	73.9
Textile machinery and parts.	47	10,381	+20.5	+78.3	215,323	+11.5	+127.3	87.9	65.7
Typewriter and supplies.	17	10,284	+20.6	+71.0	191,223	+36.3	+128.6	69.6	49.6
Nonferrous metals and their parts.	605	96,757	+12.4	+33.3	1,764,418	+11.5	+49.0	66.9	45.6
Aluminum manufactures.	26	6,321	+11.2	+33.9	110,169	+11.3	+76.2	62.0	41.4
Brass, bronze, and copper products.	210	38,293	+10.3	+44.2	741,719	+8.4	+79.5	71.1	49.9
Clocks and watches and time-recording devices.	25	8,319	+13.2	+10.6	133,266	+18.5	+25.4	46.0	33.1
Jewelry.	136	8,106	+17.1	+13.3	144,436	+18.4	+18.7	40.1	26.0
Lighting equipment.	49	3,146	+10.5	+25.1	55,415	+7.4	+29.2	75.8	53.5
Silverware and plated ware.	41	5,156	+12.7	— 1.0	94,929	+14.0	+5.3	56.9	35.8
Smelting and refining copper, lead, and zinc.	30	10,923	+16.6	+38.0	210,907	+12.2	+54.7	74.4	51.2
Stamped and enameled ware.	88	16,493	+11.6	+39.5	273,487	+15.4	+51.2	79.5	52.3
Transportation equipment.	409	273,483	+5.2	+17.0	6,376,993	+13.9	+48.4	59.1	47.5
Aircraft.	27	7,797	— 3.8	+41.7	214,825	+1.2	+23.4	241.8	226.0
Automobiles.	237	230,541	+4.3	+19.8	5,467,647	+14.1	+60.7	62.3	51.1
Cars, electric and steam railroad.	39	6,124	+19.1	+21.5	103,476	+33.8	+13.5	22.6	12.6
Locomotives.	11	2,210	+32.9	— .6	38,034	+13.0	— 19.8	15.8	9.3
Shipbuilding.	95	26,821	+10.1	— 3.5	552,011	+10.3	— 7.4	69.0	48.7
Railroad repair shops.	922	95,043	+4.8	+12.3	2,331,555	+15.1	+27.3	50.3	42.0
Electric railroad.	391	19,477	— .8	— 6.9	482,644	+ .8	— 10.1	62.1	49.1
Steam railroad.	531	75,566	+5.3	+14.6	1,848,911	+16.4	+32.3	49.4	41.4
Lumber and allied products.	1,580	150,689	+8.2	+30.8	2,149,409	+16.8	+47.7	47.6	28.5
Furniture.	451	50,799	+9.9	+34.6	762,587	+21.8	+52.8	56.0	33.3
Lumber:									
Millwork.	472	21,351	+2.5	+19.4	314,710	+4.8	+25.6	41.3	25.0
Sawmills.	432	76,939	+9.0	+31.6	1,053,444	+18.6	+55.5	45.4	26.9
Turpentine and rosin.	25	1,520	+7.0	+33.7	18,668	+6.3	+14.2	55.5	41.9
Stone, clay, and glass products.	1,279	107,380	+7.3	+25.1	1,836,532	+13.0	+29.4	52.9	33.0
Brick, tile, and terra cotta.	645	23,557	+7.0	+17.7	306,442	+12.1	+24.1	35.2	17.0
Cement.	111	15,787	+5.8	+28.4	287,508	+15.0	+26.1	48.8	29.5
Glass.	187	45,712	+8.0	+46.7	839,188	+10.9	+53.7	77.3	56.1
Marble, granite, slate, and other products.	221	5,540	+3.1	— 16.5	108,850	+2.3	— 26.1	43.6	26.3
Pottery.	115	16,784	+9.3	+34.4	294,544	+28.3	+71.2	69.9	45.7
Leather and its manufactures.	488	154,898	+3.9	+16.8	2,772,379	+7.9	+34.5	87.8	67.0
Boots and shoes.	334	122,921	+3.2	+11.7	2,141,567	+8.9	+29.2	87.0	65.0
Leather.	154	31,977	+6.7	+41.6	630,812	+5.1	+53.3	91.2	73.9

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN AUGUST 1933 WITH JULY 1933 AND AUGUST 1932—Continued

Industry	Estab- lish- ments report- ing in both July and Aug- ust 1933	Employment			Pay-roll totals			Index num- bers August 1933 (average 1926=100)	
		Num- ber on pay roll August 1933	Percent of change		Amount of pay roll (1 week) August 1933	Percent of change		Em- ploy- ment	Pay- roll totals
			July to Aug- ust 1933	Aug- ust 1932 to Aug- ust 1933		July to Aug- ust 1933	Aug- ust 1932 to Aug- ust 1933		
Paper and printing	1,919	222,641	+5.3	+9.7	\$5,230,453	+4.4	+4.9	84.8	65.8
Boxes, paper.....	312	24,653	+10.5	+29.3	432,885	+8.8	+35.4	86.1	71.5
Paper and pulp.....	400	91,433	+8.5	+23.0	1,787,425	+11.5	+39.4	88.8	65.1
Printing and publishing:									
Book and job.....	770	45,148	+4.9	-1.0	1,106,232	+1.8	-6.0	70.2	53.4
Newspapers and peri- odicals.....	437	61,407	+7	+1.5	1,903,911	+1.2	-7.0	96.5	77.2
Chemicals and allied prod- ucts	1,047	155,749	+7.7	+32.4	3,376,202	+5.7	+26.6	89.5	71.0
Chemicals.....	108	25,817	+10.3	+39.7	611,883	+8.9	+40.3	113.6	82.2
Cottonseed, oil, cake, and meal.....	107	3,881	+19.1	+35.6	40,435	+16.6	+28.1	37.3	36.0
Druggists' preparations.....	44	7,694	+2.6	+5.1	156,186	+7.4	+8.8	71.7	71.5
Explosives.....	27	2,475	+9.7	+31.9	56,000	+15.9	+55.5	91.3	67.8
Fertilizers.....	177	6,352	+9.5	+48.8	79,921	+9.5	+29.4	50.9	32.6
Paints and varnishes.....	351	16,764	+1.6	+21.2	347,630	-2.1	+23.6	80.0	60.2
Petroleum refining.....	123	47,712	+2.0	+5.1	1,269,511	+1.0	-2.1	66.0	55.0
Rayon and allied prod- ucts.....	22	32,183	+12.3	+102.9	553,943	+11.6	+109.8	188.3	156.3
Soap.....	88	12,871	+9.3	+18.1	260,693	+1.3	+5.5	110.9	86.0
Rubber products	144	98,286	+11.2	+36.5	2,003,945	+1.5	+55.9	87.5	62.5
Rubber boots and shoes.....	9	12,130	+16.8	+5.9	230,894	+19.2	+58.4	57.0	52.9
Rubber goods, other than boots, shoes, tires, and inner tubes.....	99	25,767	+18.7	+49.5	450,360	+9.8	+57.9	113.9	75.3
Rubber tires and inner tubes.....	36	60,389	+6.5	+37.9	1,322,691	-4.7	+54.6	85.8	60.3
Tobacco manufactures	231	47,488	+3.1	-1.0	611,216	+2.0	-2.3	69.6	51.3
Chewing and smoking to- bacco and snuff.....	32	9,397	+5.3	-2	135,714	+11.6	+5.8	88.5	76.0
Cigars and cigarettes.....	199	38,091	+2.7	-1.0	475,502	+4	-3.8	67.2	48.3
Total, 89 industries	18,008	3,187,674	+6.4	+27.9	60,351,490	+11.6	+43.0	71.6	51.9

Per Capita Earnings in Manufacturing Industries

PER capita weekly earnings in August 1933 for each of the 89 manufacturing industries surveyed by the Bureau of Labor Statistics and for all industries combined, together with the percents of change in August 1933 as compared with July 1933 and August 1932, are shown in table 2.

These earnings must not be confused with full-time weekly rates of wages. They are per capita weekly earnings, computed by dividing the total amount of pay roll for the week by the total number of employees (part-time as well as full-time workers).

TABLE 2.—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN AUGUST 1933 AND COMPARISON WITH JULY 1933 AND AUGUST 1932

Industry	Per capita weekly earnings in August 1933	Percent of change compared with—	
		July 1933	August 1932
Food and kindred products:			
Baking.....	\$21.52	-1.6	-4.3
Beverages.....	23.12	-2.2	+7.1
Butter.....	20.35	-2.4	-11.4
Confectionery.....	13.94	+10.1	-1.1
Flour.....	19.12	-9.3	-11.4
Ice cream.....	25.13	-.4	-8.1
Slaughtering and meat packing.....	19.78	-1.8	-1.5
Sugar, beet.....	20.18	-5.0	-7.3
Sugar refining, cane.....	22.95	-9.5	-10.4
Textiles and their products:			
Fabrics:			
Carpets and rugs.....	18.25	+6.4	+48.9
Cotton goods.....	13.22	+16.6	+34.8
Cotton small wares.....	15.78	+1.5	+20.7
Dyeing and finishing textiles.....	18.02	-3.2	+1.8
Hats, fur-felt.....	20.83	+6.1	+7.3
Knit goods.....	14.97	+18.1	+21.6
Silk and rayon goods.....	15.26	+15.0	+15.3
Woolen and worsted goods.....	17.52	+2.2	+11.1
Wearing apparel:			
Clothing, men's.....	16.10	+12.0	+15.8
Clothing, women's.....	15.68	+9.0	-12.7
Corsets and allied garments.....	15.46	+12.2	+24.7
Men's furnishings.....	13.45	+25.0	+24.5
Millinery.....	17.46	+19.3	-1.0
Shirts and collars.....	12.34	+25.0	+25.0
Iron and steel and their products, not including machinery:			
Bolts, nuts, washers, and rivets.....	18.21	+5	+33.8
Cast-iron pipe.....	13.87	+2.9	+12.4
Cutlery (not including silver and plated cutlery) and edge tools.....	18.35	-5.6	+8.3
Forgings, iron and steel.....	18.97	+5.9	+39.0
Hardware.....	17.02	-2.7	+28.5
Iron and steel.....	21.94	+14.3	+87.0
Plumbers' supplies.....	16.64	+1.5	+3.4
Steam and hot-water heating apparatus and steam fittings.....	18.91	+3.1	+16.1
Stoves.....	18.46	+2	+16.6
Structural and ornamental metalwork.....	17.09	+14.4	+5.8
Tin cans and other tinware.....	18.98	-5.2	+1.3
Tools (not including edge tools, machine tools, files, and saws).....	17.99	-2.1	+31.8
Wirework.....	21.60	+7.5	+39.5
Machinery, not including transportation equipment:			
Agricultural implements.....	16.74	+3.8	+8.2
Cash registers, adding machines and calculating machines.....	25.01	-(1)	+5.8
Electrical machinery, apparatus, and supplies.....	20.79	-1.8	+18.8
Engines, turbines, tractors, and water wheels.....	19.11	-5.8	+4.6
Foundry and machine-shop products.....	18.74	+6	+20.5
Machine tools.....	19.87	-9	+10.8
Radio and phonographs.....	17.00	+15.2	-3.9
Textile machinery and parts.....	20.74	-7.5	+27.4
Typewriters and supplies.....	18.59	+13.0	+34.1
Nonferrous metals and their parts:			
Aluminum manufactures.....	17.43	+1	+31.8
Brass, bronze, and copper products.....	19.37	-1.7	+24.2
Clocks and watches and time-recording devices.....	16.02	+4.6	+13.4
Jewelry.....	17.82	+1.1	+4.5
Lighting equipment.....	17.61	-2.9	+3.0
Silverware and plated ware.....	18.41	+1.2	+6.4
Smelting and refining—copper, lead, and zinc.....	19.32	-3.7	+12.2
Stamped and enameled ware.....	16.58	+3.4	+8.3
Transportation equipment:			
Aircraft.....	27.55	+5.1	-12.9
Automobiles.....	23.72	+9.4	+34.0
Cars, electric and steam railroad.....	16.90	+12.3	-6.8
Locomotives.....	17.21	-15.0	-19.4
Shipbuilding.....	20.62	+2	-4.1
Railroad repair shops:			
Electric railroad.....	24.78	+1.6	-3.6
Steam railroad.....	24.47	+10.6	+15.0
Lumber and allied products:			
Furniture.....	15.01	+10.8	+13.0
Lumber:			
Millwork.....	14.72	+2.2	+5.0
Sawmills.....	13.68	+8.7	+17.0
Turpentine and rosin.....	12.28	-.6	-14.6

¹ Less than one tenth of 1 percent.

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TABLE 2.—PER CAPITA WEEKLY EARNINGS IN **MANUFACTURING INDUSTRIES** IN AUGUST 1933 AND COMPARISON WITH JULY 1933 AND AUGUST 1932—Continued

Industry	Per capita weekly earnings in August 1933	Percent of change compared with—	
		July 1933	August 1932
Stone, clay, and glass products:			
Brick, tile, and terra cotta.....	\$13.01	+4.8	+5.6
Cement.....	18.21	+8.7	-1.5
Glass.....	18.36	+2.6	+4.4
Marble, granite, slate, and other products.....	19.65	-8	-11.5
Pottery.....	17.55	+17.5	+27.8
Leather and its manufactures:			
Boots and shoes.....	17.42	+5.5	+15.6
Leather.....	19.73	-1.5	+8.3
Paper and printing:			
Boxes, paper.....	17.56	-1.6	+4.6
Paper and pulp.....	19.55	+2.7	+12.9
Printing and publishing:			
Book and job.....	24.50	-3.0	-4.9
Newspapers and periodicals.....	31.00	+5	-8.6
Chemicals and allied products:			
Chemicals.....	23.70	-1.2	+3
Cottonseed, oil, cake, and meal.....	10.42	-2.1	-5.9
Druggists' preparations.....	20.30	+4.7	+3.6
Explosives.....	22.63	+5.6	+17.7
Fertilizers.....	12.58	-1	-12.6
Paints and varnishes.....	20.74	-3.6	+1.9
Petroleum refining.....	26.61	-9	-6.7
Rayon and allied products.....	17.21	-6	+3.1
Soap.....	20.25	-7.3	-11.1
Rubber products:			
Rubber boots and shoes.....	19.03	+2.0	+49.1
Rubber goods, other than boots, shoes, tires, and inner tubes.....	17.48	-7.5	+5.4
Rubber tires and inner tubes.....	21.90	-10.5	+12.0
Tobacco manufactures:			
Chewing and smoking tobacco and snuff.....	14.44	+5.9	+5.9
Cigars and cigarettes.....	12.48	-2.3	-2.7
Total, 89 industries.....	18.93	² +4.9	² +11.9

² Weighted.

General Index Numbers of Employment and Pay-Roll Totals in Manufacturing Industries

GENERAL index numbers of employment and pay-roll totals in manufacturing industries by months, from January 1926 to August 1933, together with average indexes for each of the years from 1926 to 1932, and for the 8-month period, January to August 1933, inclusive, are shown in the following table. In computing these general indexes the index numbers of each of the separate industries are weighted according to their relative importance in the total. Following this table are two charts prepared from these general indexes showing the course of employment and pay rolls from January 1926 to August 1933, inclusive.

TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING INDUSTRIES, JANUARY 1926 TO AUGUST 1933

[12-month average, 1926=100]

Month	Employment								Pay rolls							
	1926	1927	1928	1929	1930	1931	1932	1933	1926	1927	1928	1929	1930	1931	1932	1933
January.....	100.4	97.3	91.6	95.2	90.7	74.6	64.8	56.6	98.0	94.9	89.6	94.5	88.1	63.7	48.6	35.8
February.....	101.5	99.0	93.0	97.4	90.9	75.3	65.6	57.5	102.2	100.6	93.9	101.8	91.3	68.1	49.6	36.4
March.....	102.0	99.5	93.7	98.6	90.5	75.9	64.5	55.1	103.4	102.0	95.2	103.9	91.6	69.6	48.2	33.4
April.....	101.0	98.6	93.3	99.1	89.9	75.7	62.2	56.0	101.5	100.8	93.8	104.6	90.7	68.5	44.7	34.9
May.....	99.8	97.6	93.0	99.2	88.6	75.2	59.7	58.7	99.8	99.8	94.1	104.8	88.6	67.7	42.5	38.9
June.....	99.3	97.0	93.1	98.8	86.5	73.4	57.5	62.8	99.7	97.4	94.2	102.8	85.2	63.8	39.3	43.1
July.....	97.7	95.0	92.2	98.2	82.7	71.7	55.2	67.3	95.2	93.0	91.2	98.2	77.0	60.3	36.2	46.5
August.....	98.7	95.1	93.6	98.6	81.0	71.2	56.0	71.6	98.7	95.0	94.2	102.1	75.0	59.7	36.3	51.9
September.....	100.3	95.8	95.0	99.3	80.9	70.9	58.5	-----	99.3	94.1	95.4	102.6	75.4	56.7	38.1	-----
October.....	100.7	95.3	95.9	99.4	79.9	68.9	59.9	-----	102.9	95.2	99.0	102.4	74.0	55.3	39.9	-----
November.....	99.5	93.5	95.4	95.0	77.9	67.1	59.4	-----	99.6	91.6	96.1	95.4	69.6	52.5	38.6	-----
December.....	98.9	92.6	95.5	92.3	76.6	66.7	58.3	-----	99.8	93.2	97.7	92.4	68.8	52.2	37.7	-----
Average.....	100.0	96.4	93.8	97.5	84.7	72.2	60.1	60.7	100.0	96.5	94.5	100.5	81.3	61.5	41.6	40.1

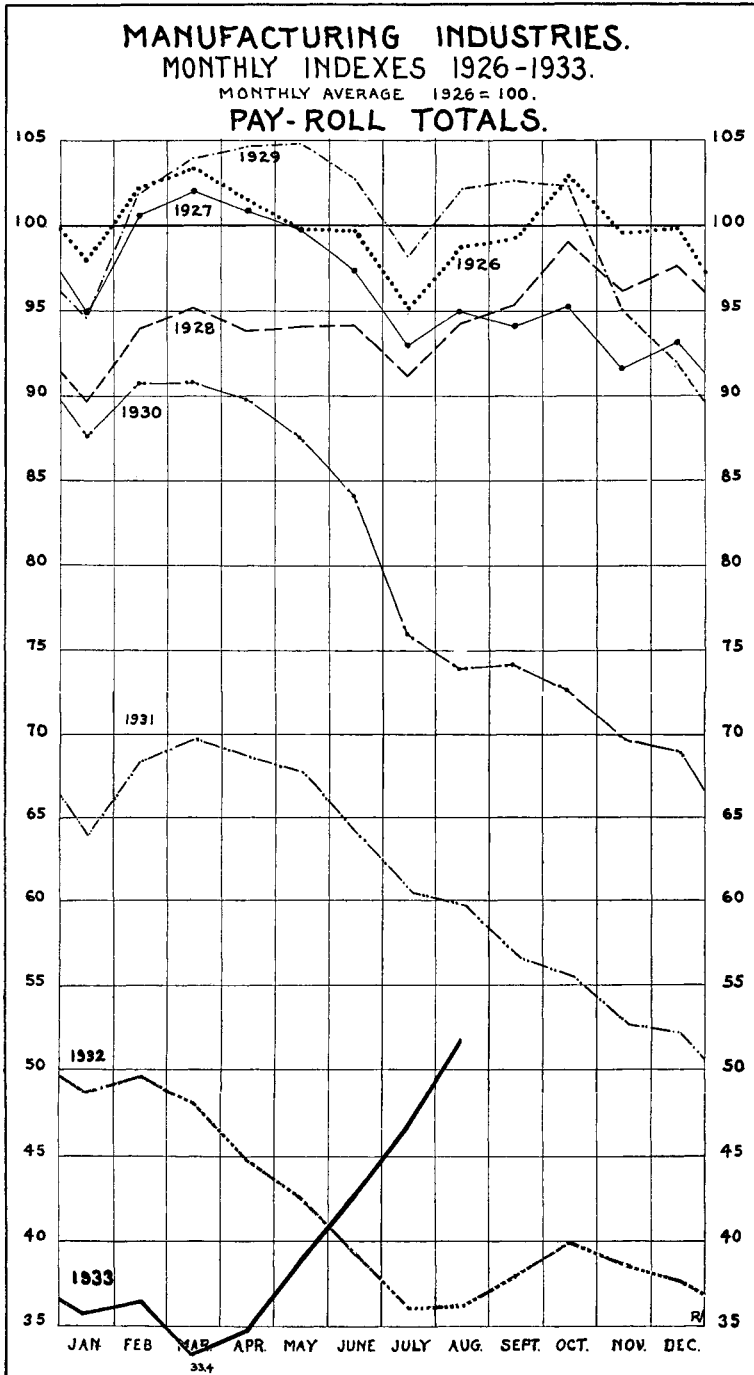
1 Average for 8 months.

Time Worked in Manufacturing Industries in August 1933

Reports as to working time in August were received from 13,404 establishments in 89 manufacturing industries. Three percent of these establishments were idle, 64 percent operated on a full-time basis, and 33 percent worked on a part-time schedule.

An average of 92 per cent of full-time operation in August was shown by reports received from all the operating establishments included in table 4. The establishments working part time in August averaged 76 percent of full-time operation.

A number of establishments supplying data concerning plant-operating time have reported full-time operations but have qualified the hours reported with the statement that, while the plant was operating full time, the work in the establishment was being shared and the employees were not working the full-time hours operated by the plant.



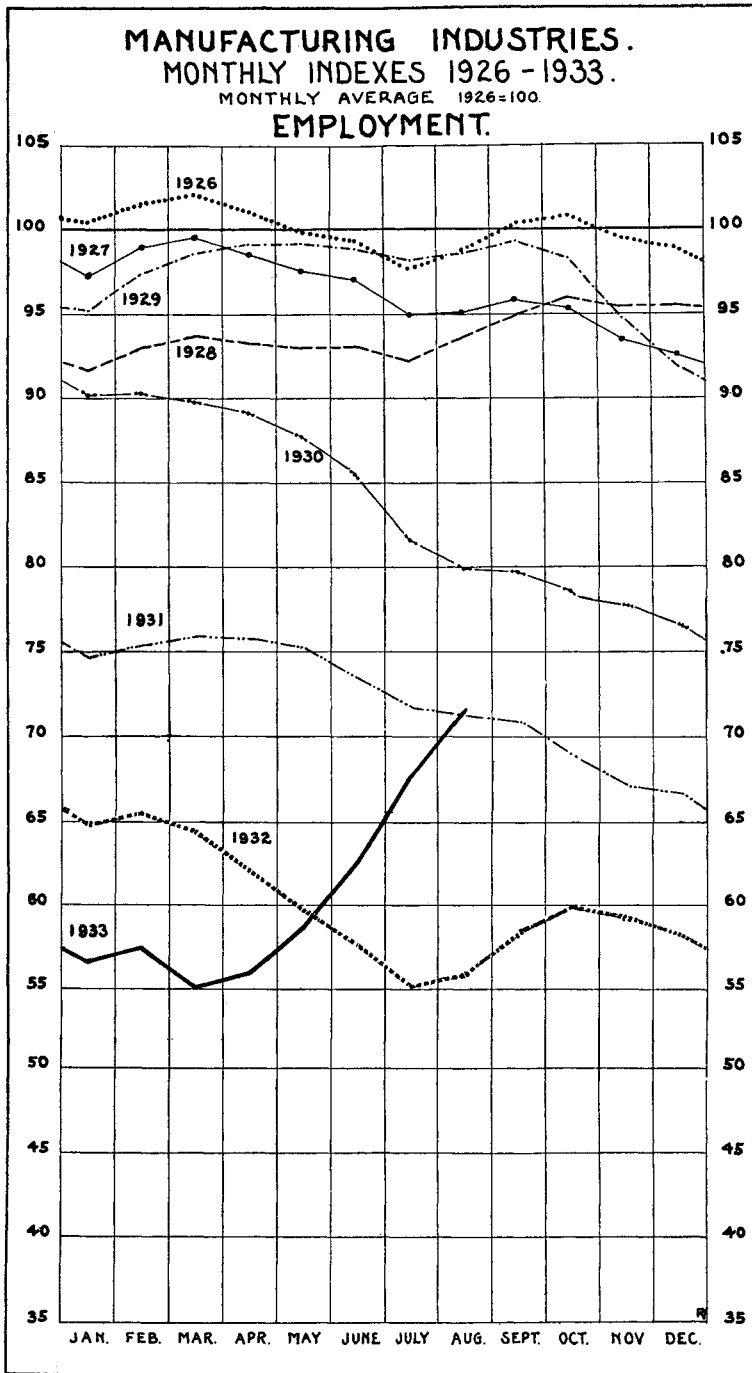


TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN AUGUST 1933

Industry	Establishments reporting		Percent of establishments operating—		Average percent of full time reported by—	
	Total number	Percent idle	Full time	Part time	All operating establishments	Establishments operating part time
Food and kindred products	2,356	1	73	27	94	77
Baking.....	830	(1)	82	17	97	80
Beverages.....	254	—	70	30	94	78
Butter.....	239	1	69	31	94	79
Confectionery.....	201	1	58	40	88	72
Flour.....	376	1	62	38	88	69
Ice cream.....	243	1	70	30	95	84
Slaughtering and meat packing.....	153	—	81	19	97	85
Sugar, beet.....	51	—	86	14	98	84
Sugar refining, cane.....	9	—	67	33	94	83
Textiles and their products	2,495	5	84	11	97	77
Fabrics:						
Carpets and rugs.....	13	15	69	15	94	66
Cotton goods.....	629	1	93	6	99	78
Cotton small wares.....	84	1	57	42	90	77
Dyeing and finishing textiles.....	133	2	89	9	98	73
Hats, fur-felt.....	18	—	39	61	79	66
Knit goods.....	403	2	90	7	98	76
Silk and rayon goods.....	211	1	94	5	99	78
Woolen and worsted goods.....	198	1	93	7	98	77
Wearing apparel:						
Clothing, men's.....	265	3	82	15	97	80
Clothing, women's.....	300	27	60	13	95	71
Corsets and allied garments.....	22	9	41	50	90	83
Men's furnishings.....	49	4	59	37	92	79
Millinery.....	92	1	77	22	96	84
Shirts and collars.....	78	9	85	6	98	74
Iron and steel and their products, not including machinery	963	3	42	55	85	73
Bolts, nuts, washers, and rivets.....	59	—	41	59	83	71
Cast-iron pipe.....	33	24	12	64	68	62
Cutlery (not including silver and plated cutlery) and edge tools.....	95	1	32	67	83	75
Forgings, iron and steel.....	31	—	16	84	81	77
Hardware.....	72	—	56	44	88	73
Iron and steel.....	134	7	61	32	89	69
Plumbers' supplies.....	48	—	40	60	84	73
Steam and hot-water heating apparatus and steam fittings.....	58	—	48	52	81	63
Stoves.....	111	3	44	53	87	76
Structural and ornamental metal work.....	123	3	40	57	86	76
Tin cans and other tinware.....	54	2	59	39	92	81
Tools (not including edge tools, machine tools, files, and saws).....	100	1	25	74	80	73
Wirework.....	45	2	40	58	87	78
Machinery, not including transportation equipment	1,341	1	49	50	85	71
Agricultural implements.....	46	2	39	59	83	72
Cash registers, adding machines, and calculating machines.....	28	—	46	54	85	72
Electrical machinery, apparatus, and supplies.....	210	(1)	59	40	90	75
Engines, turbines, tractors, and water wheels.....	60	2	32	67	80	70
Foundry and machine-shop products.....	826	1	48	51	84	69
Machine tools.....	110	1	56	43	86	68
Radios and phonographs.....	25	—	20	80	78	73
Textile machinery and parts.....	29	3	38	59	89	82
Typewriters and supplies.....	7	—	71	29	97	91
Nonferrous metals and their products	435	1	40	59	86	76
Aluminum manufactures.....	17	—	29	71	89	85
Brass, bronze, and copper products.....	156	—	44	56	86	75
Clocks and watches and time-recording devices.....	18	—	17	83	82	78
Jewelry.....	102	1	32	67	85	77
Lighting equipment.....	41	7	27	66	83	77
Silverware and plated ware.....	33	—	45	55	80	63
Smelting and refining—copper, lead, and zinc.....	16	—	69	31	93	79
Stamped and enameled ware.....	52	—	52	48	91	80

¹ Less than one half of 1 percent.

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES
BY ESTABLISHMENTS REPORTING IN AUGUST 1933—Continued

Industry	Establishments reporting		Percent of establishments operating—		Average percent of full time reported by—	
	Total number	Percent idle	Full time	Part time	All operating establishments	Establishments operating part time
Transportation equipment	261	5	57	38	91	77
Aircraft.....	22	5	64	32	94	81
Automobiles.....	118	7	58	35	93	80
Cars, electric and steam railroad.....	31	6	13	81	79	76
Locomotives.....	7	—	43	57	75	56
Shipbuilding.....	83	2	71	27	93	76
Railroad repair shops	656	(1)	44	55	89	80
Electric railroad.....	306	—	61	39	91	77
Steam railroad.....	350	1	30	69	87	81
Lumber and allied products	1,188	2	61	38	91	76
Furniture.....	365	2	68	30	92	75
Lumber:						
Millwork.....	333	1	56	43	89	75
Sawmills.....	472	1	60	39	91	77
Turpentine and rosin.....	18	—	22	78	89	85
Stone, clay, and glass products	682	11	52	37	91	77
Brick, tile, and terra cotta.....	211	23	36	42	89	79
Cement.....	58	5	83	12	96	68
Glass.....	141	4	80	16	96	78
Marble, granite, slate, and other products.....	176	9	30	61	85	77
Pottery.....	96	4	68	28	92	74
Leather and its manufactures	374	4	71	25	95	81
Boots and shoes.....	247	6	65	29	94	82
Leather.....	127	—	82	18	96	78
Paper and printing	1,608	1	73	27	94	78
Boxes, paper.....	265	1	69	30	92	75
Paper and pulp.....	319	2	64	34	92	78
Printing and publishing:						
Book and job.....	644	(1)	74	26	94	76
Newspapers and periodicals.....	380	(1)	81	19	98	87
Chemicals and allied products	773	2	62	36	93	80
Chemicals.....	71	1	83	15	97	83
Cottonseed, oil, cake, and meal.....	50	8	54	38	89	73
Druggists' preparations.....	25	—	48	52	89	80
Explosives.....	12	—	17	83	84	81
Fertilizers.....	152	1	68	31	93	78
Paints and varnishes.....	296	1	56	42	92	80
Petroleum refining.....	81	4	72	25	97	88
Rayon and allied products.....	12	—	83	17	96	73
Soap.....	74	—	57	43	92	81
Rubber products	109	—	44	56	87	77
Rubber boots and shoes.....	6	—	83	17	99	91
Rubber goods, other than boots, shoes, tires, and inner tubes.....	76	—	38	62	85	76
Rubber tires and inner tubes.....	27	—	52	48	90	79
Tobacco manufactures	163	4	47	50	86	72
Chewing and smoking tobacco and snuff.....	29	—	59	41	90	76
Cigars and cigarettes.....	134	4	44	51	85	71
Total, 89 industries	13,404	3	64	33	92	76

¹ Less than one half of 1 per cent.

Employment in Nonmanufacturing Industries in August 1933

EMPLOYMENT increased in August as compared with July 1933 in 14 of the 15 nonmanufacturing industries appearing in the following table. The only exception was the telephone and telegraph group in which slight declines in both employment and pay rolls were reported. Data for the building-construction industry are not presented here but are shown in more detail under the section "Building construction."

Seasonal activity in the canning and preserving industry was reflected in the gain of 47.1 percent in employment and 47.9 percent in pay rolls in August. The metalliferous-mining industry reported an increase of 11.5 percent in employment, combined with an increase of 15.4 percent in pay rolls. The anthracite mining and bituminous-coal mining industries reported gains in employment of 8.8 percent and 8.6 percent, respectively. These increases in employment were accompanied by increases of 22 percent in pay rolls in anthracite mining and 28.8 percent in bituminous-coal mining. Both industries reported increases in average hours worked per week in August, as well as increased hourly earnings. The retail-trade group which has shown decreased employment and pay roll in previous August reports, increased 4.7 percent in employment and 7.9 percent in pay rolls, numerous establishments reporting better business, special sales, and the effect of the N.R.A. code. The quarrying and nonmetalliferous-mining industry reported increases of 4.2 percent in employment and 5.1 percent in pay rolls, and the wholesale-trade group reported increases of 3.7 percent in employment and 2.8 percent in pay rolls. The laundry and the crude-petroleum-producing industries reported gains in employment of 2.1 percent each. The hotel industry reported a gain of 2 percent in number of employees between July and August, and the power and light, electric railroad, dyeing and cleaning, and banks-brokerage-insurance-real estate groups reported increases in employment of less than 1 percent. The increases in employment in the two last-named groups were coupled with slight declines in pay-roll totals.

In the following table are presented employment and pay-roll data for the nonmanufacturing industries surveyed, exclusive of building construction:

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **NONMANUFACTURING** ESTABLISHMENTS IN AUGUST 1933 WITH JULY 1933 AND AUGUST 1932

Industrial groups	Establishments reporting in both July and August 1933	Employment			Pay-roll totals			Index numbers August 1933 (average 1929=100)	
		Number on pay roll, August 1933	Percent of change		Amount of pay roll (1 week) August 1933	Percent of change		Employment	Pay-roll totals
			July to August 1933	August 1932 to August 1933		July to August 1933	August 1932 to August 1933		
Coal mining:									
Anthracite.....	158	65,204	+8.8	-3.0	\$1,852,596	+22.0	+12.6	47.7	46.6
Bituminous.....	1,503	209,730	+8.6	+15.5	3,433,892	+28.8	+64.0	68.6	43.3
Metalliferous mining.....	281	24,735	+11.5	+28.7	474,588	+15.4	+32.7	36.8	21.9
Quarrying and nonmetallic mining.....	1,142	34,553	+4.2	+1.0	520,098	+5.1	+7.7	57.6	29.9
Crude-petroleum producing.....	245	23,097	+2.1	+5.9	625,408	+8	-9	60.8	42.5
Public utilities:									
Telephone and telegraph.....	8,128	243,500	-6	-12.8	6,407,935	-9	-16.4	68.1	66.1
Power and light.....	3,105	177,733	+8	-4.2	5,022,532	+1.2	-7.6	78.1	70.9
Electric-railroad and motor-bus operation and maintenance.....	545	123,916	+2	-6.2	3,281,197	+1.5	-8.8	69.5	58.2
Trade:									
Wholesale.....	2,963	80,385	+3.7	+4.3	2,081,009	+2.8	-3.8	79.7	60.8
Retail.....	17,291	359,503	+4.7	+7.6	7,003,428	+7.9	+3.3	78.1	62.7
Hotels (cash payments only).....	2,558	131,650	+2.0	-6	1,615,759	+1.3	-9.4	77.1	54.0
Canning and preserving.....	920	95,471	+47.1	+13.8	976,222	+47.9	+4.1	112.7	68.3
Laundries.....	919	54,320	+2.1	-1.3	798,644	+2.7	-9.9	77.9	57.6
Dyeing and cleaning.....	337	11,048	+2	+4.5	180,676	-(?)	-6.2	83.1	52.8
Banks, brokerage, insurance, and real estate.....	4,508	168,943	+7	-2	5,474,118	-6	-4.3	98.5	84.7

¹ The additional value of board, room, and tips cannot be computed.

² Weighted.

³ Less than one tenth of 1 percent.

Per capita weekly earnings in August 1933 for 15 nonmanufacturing industries included in the Bureau's monthly trend-of-employment survey, together with the percents of change in August 1933 as compared with July 1933 and August 1932, are given in the table following. These per capita weekly earnings must not be confused with full-time weekly rates of wages; they are per capita weekly earnings computed by dividing the total amount of pay roll for the week by the total number of employees (part-time as well as full-time workers).

TABLE 2.—PER CAPITA WEEKLY EARNINGS IN 15 **NONMANUFACTURING** INDUSTRIES IN AUGUST 1933 AND COMPARISON WITH JULY 1933 AND AUGUST 1932

Industrial group	Per capita weekly earnings in August 1933	Percent of change August 1933 compared with—	
		July 1933	August 1932
Coal mining:			
Anthracite.....	\$28.41	+12.1	+16.2
Bituminous.....	16.37	+13.5	+42.1
Metalliferous mining.....	19.19	+3.5	+3.1
Quarrying and nonmetallic mining.....	15.05	+0	-3
Crude petroleum producing.....	27.08	-1.3	-6.4
Public utilities:			
Telephone and telegraph.....	26.32	-3	-4.1
Power and light.....	28.26	+4	-3.5
Electric-railroad and motor-bus operation and maintenance.....	26.48	+1.3	-2.8
Trade:			
Wholesale.....	25.89	-9	-7.7
Retail.....	19.48	+3.0	-3.9
Hotels (cash payments only) ¹	12.27	-6	-8.9
Canning and preserving.....	10.23	+6	-8.6
Laundries.....	14.70	+5	-8.8
Dyeing and cleaning.....	16.35	-2	-10.3
Banks, brokerage, insurance, and real estate.....	32.40	² -1.1	² -4.1

¹ The additional value of board, room, and tips cannot be computed.

² Weighted.

Indexes of Employment and Pay-Roll Totals for Nonmanufacturing Industries

INDEX numbers of employment and pay-roll totals for 15 nonmanufacturing industries are presented in the following table. These index numbers show the variation in employment and pay rolls by months, from January 1930 to August 1933, in all nonmanufacturing industries with the exception of the laundry, dyeing and cleaning, and the banks, brokerage, insurance, and real-estate industries for which information over the entire period is not available. The Bureau has secured data concerning employment and pay rolls for the index base year 1929 from establishments in these industries and has computed index numbers for those months for which data are available from the Bureau's files. These indexes are shown in this tabulation.

TABLE 3.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR **NONMANUFACTURING** INDUSTRIES, JANUARY TO DECEMBER 1930, 1931, AND 1932, AND JANUARY TO AUGUST 1933

[12-month average, 1929=100]

Month	Anthracite mining								Bituminous-coal mining							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	102.1	90.6	76.2	52.5	105.8	89.3	61.5	43.2	102.5	93.9	80.8	69.8	101.4	73.3	47.0	36.1
February.....	106.9	89.5	71.2	58.7	121.5	101.9	57.3	56.8	102.4	91.5	77.4	69.3	102.1	68.3	47.0	37.2
March.....	82.6	82.0	73.7	54.6	78.5	71.3	61.2	48.8	98.6	88.8	75.2	67.6	86.4	65.2	46.8	30.7
April.....	84.1	85.2	70.1	51.6	75.0	75.2	72.0	37.4	94.4	85.9	65.5	63.7	81.7	58.6	33.9	26.6
May.....	93.8	80.3	66.9	43.2	98.8	76.1	58.0	30.0	90.4	82.4	62.6	61.2	77.5	54.4	30.7	26.9
June.....	90.8	76.1	53.0	39.5	94.3	66.7	37.4	34.3	88.4	78.4	60.5	61.3	75.6	52.4	27.3	29.2
July.....	91.6	65.1	44.5	43.8	84.0	53.7	34.5	38.2	80.0	76.4	58.6	63.2	68.9	50.4	24.4	33.6
August.....	80.2	67.3	49.2	47.7	78.8	56.4	41.4	46.6	89.2	77.0	59.4	68.6	71.1	50.6	26.4	43.3
September.....	93.8	80.0	55.8	---	91.6	64.9	47.0	---	90.5	80.4	62.4	---	74.9	53.6	30.2	---
October.....	99.0	86.8	63.9	---	117.2	91.1	66.7	---	91.8	81.3	67.0	---	79.4	56.2	37.8	---
November.....	97.2	83.5	62.7	---	98.0	79.5	51.0	---	92.5	81.1	69.4	---	79.1	54.6	38.0	---
December.....	99.1	79.8	62.3	---	100.0	78.4	56.2	---	92.5	81.2	70.0	---	77.7	52.3	37.7	---
Average.....	93.4	80.5	62.5	49.0	95.3	75.4	53.7	41.9	93.4	83.2	67.4	65.6	81.3	57.5	35.6	33.0
	Metalliferous mining								Quarrying and nonmetallic mining							
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	95.7	68.3	49.3	32.4	92.7	55.0	29.7	18.1	79.6	64.4	48.9	35.1	71.9	50.4	30.2	18.1
February.....	92.3	65.3	46.9	31.5	92.5	54.6	27.8	17.8	79.8	66.6	47.4	34.8	73.5	54.4	29.6	17.4
March.....	90.9	63.5	45.0	30.0	90.8	52.8	26.5	17.4	83.0	70.0	46.0	35.1	80.0	58.2	28.7	17.8
April.....	89.3	63.9	43.3	29.4	88.3	51.4	25.0	16.4	87.4	76.1	48.6	39.3	85.4	62.6	30.0	20.2
May.....	87.5	62.4	38.3	30.0	85.6	49.3	23.8	17.0	90.8	75.0	50.6	43.4	90.2	62.6	32.3	23.8
June.....	84.6	60.0	32.2	31.5	81.6	46.1	20.1	18.3	90.3	72.3	49.5	47.3	90.9	60.1	30.0	27.5
July.....	80.5	56.2	29.5	33.0	71.9	41.3	16.9	19.0	89.9	71.0	49.5	49.5	85.5	57.3	29.1	28.4
August.....	79.0	55.8	28.6	36.8	71.0	40.2	16.5	21.9	89.3	68.9	51.1	51.6	85.8	55.1	29.7	29.9
September.....	78.1	55.5	29.3	---	69.9	40.0	17.0	---	87.7	66.6	52.4	---	82.5	51.2	30.5	---
October.....	77.2	53.8	30.5	---	68.6	37.4	18.0	---	84.7	64.5	52.4	---	79.3	48.7	30.1	---
November.....	72.8	52.8	31.9	---	63.4	35.1	18.7	---	78.3	59.3	49.4	---	66.8	43.3	27.1	---
December.....	70.1	51.2	33.3	---	59.9	34.3	18.7	---	70.2	53.9	42.3	---	59.9	36.9	22.1	---
Average.....	83.2	59.1	36.5	31.8	78.0	44.8	21.6	18.2	84.3	67.4	49.0	42.0	79.3	53.4	29.1	22.9
	Crude-petroleum producing								Telephone and telegraph							
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	92.7	74.8	54.9	57.2	94.0	71.5	46.5	39.9	101.6	90.5	83.0	74.6	105.1	96.3	89.1	71.7
February.....	90.8	73.2	54.4	57.0	88.6	70.0	46.9	41.7	100.2	89.2	82.0	73.9	101.9	94.8	89.6	71.9
March.....	89.3	72.2	51.4	56.5	91.3	73.2	43.2	42.5	99.4	88.6	81.7	73.2	105.8	97.9	88.2	71.6
April.....	86.8	69.8	54.9	56.8	86.6	66.3	44.5	40.1	98.9	88.1	81.2	72.3	103.4	95.0	83.4	67.8
May.....	89.8	67.8	54.5	56.9	85.4	64.7	47.1	41.6	99.7	87.4	80.6	70.1	103.2	94.1	82.8	68.5
June.....	90.2	65.0	54.2	58.0	87.1	62.7	44.8	40.6	98.8	86.9	79.9	69.2	103.4	95.0	82.1	66.6
July.....	89.9	65.3	55.4	59.5	88.5	59.2	44.6	42.2	100.0	86.6	79.1	68.5	106.6	93.3	79.6	66.7
August.....	87.7	62.4	57.4	60.8	86.0	56.3	42.9	42.5	98.8	85.9	78.1	68.1	102.5	92.3	79.1	66.1
September.....	85.0	61.2	56.2	---	84.0	55.2	41.9	---	96.8	85.0	77.4	---	102.2	92.1	75.9	---
October.....	85.2	60.4	56.8	---	82.6	54.4	42.5	---	94.5	84.1	76.2	---	100.9	91.6	75.7	---
November.....	83.6	57.6	56.5	---	80.0	52.0	42.4	---	93.0	83.5	75.5	---	97.9	89.7	74.3	---
December.....	77.4	53.2	57.2	---	77.2	64.9	41.7	---	91.6	83.1	74.8	---	101.3	92.7	73.5	---
Average.....	87.4	65.7	55.3	57.8	85.9	61.7	44.1	41.4	97.9	86.6	79.1	71.2	102.9	93.7	81.1	68.9
	Power and light								Electric-railroad and motor-bus operation and maintenance ²							
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	99.6	99.2	89.3	77.7	99.7	98.6	88.4	73.0	97.1	86.9	79.5	70.6	97.8	85.6	75.4	60.9
February.....	98.8	97.8	87.2	77.4	100.4	99.7	86.0	71.6	95.1	86.6	78.9	70.4	95.7	87.1	74.8	60.6
March.....	99.7	96.7	85.5	76.9	102.1	102.4	85.4	71.9	94.5	84.4	77.6	69.8	95.4	88.1	73.6	59.4
April.....	100.7	97.1	84.8	76.9	102.6	97.6	82.4	69.4	95.2	86.8	78.0	69.5	97.1	86.6	71.8	58.1
May.....	103.4	97.6	84.0	76.9	104.5	98.7	84.2	69.9	95.2	85.9	76.9	69.1	96.0	85.1	72.2	58.2
June.....	104.6	97.2	83.2	77.3	107.8	98.3	80.5	69.9	94.8	85.3	76.5	69.3	97.0	84.8	70.2	58.0
July.....	105.9	96.7	82.3	77.5	106.7	97.4	78.7	70.0	95.3	85.6	75.6	69.4	95.6	83.3	66.4	57.4
August.....	106.4	95.9	81.5	78.1	106.6	96.2	76.7	70.9	92.8	84.8	74.1	69.5	92.1	81.9	63.8	58.2
September.....	105.2	94.7	81.0	---	106.1	94.3	74.7	---	91.9	84.0	73.5	---	90.5	81.2	62.5	---
October.....	104.8	92.7	79.9	---	105.6	93.2	74.4	---	91.0	82.7	72.3	---	88.9	79.0	61.5	---
November.....	103.4	91.3	79.1	---	103.7	93.3	73.2	---	89.3	81.5	71.8	---	87.7	79.7	61.7	---
December.....	103.2	90.3	78.4	---	106.3	91.2	73.2	---	88.8	79.9	71.4	---	88.6	77.8	61.9	---
Average.....	103.0	95.6	83.0	77.3	104.3	96.7	79.8	70.8	93.4	84.7	75.5	69.7	93.5	83.4	68.0	58.9

¹ Average for 8 months.² Not including electric-railroad car building and repairing; see transportation equipment and railroad repair-shop groups, manufacturing industries, table 1.

TABLE 3.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR **NONMANUFACTURING** INDUSTRIES, JANUARY TO DECEMBER 1930, 1931, AND 1932, AND JANUARY TO AUGUST 1933—Continued

[12-month average, 1929=100]

Month	Wholesale trade								Retail trade							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	100.0	89.5	81.8	75.3	100.0	87.5	74.1	61.7	98.9	90.0	84.3	76.9	99.7	89.4	78.0	62.7
February.....	98.5	88.2	80.9	74.1	98.3	88.4	72.5	58.6	94.4	87.1	80.5	73.4	96.0	86.7	73.7	58.4
March.....	97.7	87.4	79.8	73.1	99.7	89.1	71.3	57.1	93.9	87.8	81.4	71.4	95.5	87.5	73.4	55.1
April.....	97.3	87.4	78.9	73.3	97.9	85.2	68.9	56.0	97.3	90.1	81.6	78.6	97.5	88.3	72.7	60.4
May.....	96.8	87.1	77.9	74.0	97.4	84.7	69.7	57.4	96.7	89.9	80.9	77.0	97.3	88.0	71.1	59.5
June.....	96.5	87.1	77.0	75.7	98.6	84.1	66.2	57.3	93.9	89.1	79.4	78.3	96.8	87.6	68.2	60.5
July.....	96.0	86.8	76.6	76.9	96.0	83.3	64.7	59.1	89.0	83.9	74.6	74.6	91.7	83.3	63.3	58.1
August.....	95.0	86.5	76.4	79.7	93.6	82.1	63.2	60.8	85.6	81.8	72.6	78.1	87.6	80.3	60.7	62.7
September.....	94.8	86.1	77.1	-----	93.6	81.4	63.1	-----	92.0	86.6	77.8	-----	92.4	83.5	64.6	-----
October.....	94.2	85.2	77.8	-----	92.9	79.9	63.9	-----	95.5	89.8	81.3	-----	95.1	84.6	67.1	-----
November.....	92.6	84.1	77.6	-----	91.0	79.7	63.3	-----	98.4	90.9	81.7	-----	96.8	85.4	66.9	-----
December.....	92.0	83.7	77.0	-----	91.3	77.8	62.6	-----	115.1	106.2	95.2	-----	107.7	94.1	73.6	-----
Average.....	96.0	86.6	78.2	75.3	95.9	83.6	67.0	58.5	95.9	89.4	80.9	76.0	96.2	86.6	69.4	59.7
Month	Hotels								Canning and preserving							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	100.4	95.0	83.2	73.8	100.3	91.0	73.9	55.7	46.1	48.9	35.0	34.1	50.3	46.1	31.8	24.8
February.....	102.4	96.8	84.3	73.8	103.8	93.7	73.9	55.9	49.7	48.3	37.1	35.1	51.5	48.6	32.7	25.9
March.....	102.4	96.8	84.0	72.4	104.4	93.4	72.4	53.5	45.7	53.0	36.3	33.2	50.8	50.3	31.9	24.2
April.....	100.1	95.9	82.7	71.9	100.3	89.9	69.6	51.7	74.8	59.6	47.0	49.2	72.6	67.1	37.9	33.5
May.....	98.0	92.5	80.1	71.9	98.4	87.7	67.0	51.8	65.7	56.0	40.5	45.5	66.9	56.0	36.0	31.8
June.....	98.0	91.6	78.0	73.6	98.1	85.4	63.8	52.3	83.0	70.6	55.5	55.6	81.5	58.6	40.5	36.7
July.....	101.3	93.3	78.4	75.6	99.8	85.2	61.8	53.3	126.3	102.2	73.0	76.6	112.7	74.2	47.5	46.2
August.....	101.5	92.8	77.6	77.1	98.6	83.8	59.6	54.0	185.7	142.9	99.0	112.7	172.0	104.7	65.6	68.3
September.....	100.1	90.6	77.0	-----	97.1	81.9	59.1	-----	246.6	180.1	125.3	-----	214.8	129.4	75.1	-----
October.....	97.5	87.4	75.4	-----	95.5	79.7	58.6	-----	164.7	108.1	81.1	-----	140.0	77.6	51.8	-----
November.....	95.2	84.9	74.3	-----	93.6	77.1	57.5	-----	96.7	60.8	50.5	-----	82.9	48.1	34.4	-----
December.....	93.5	83.1	73.2	-----	91.5	75.4	56.6	-----	61.6	40.7	33.7	-----	57.4	36.9	25.6	-----
Average.....	99.2	91.7	79.0	73.8	98.5	85.4	64.5	53.5	103.9	80.9	59.5	55.3	96.1	65.6	42.6	36.4
Month	Laundries ¹						Dyeing and cleaning ¹						Banks, brokerage, insurance, and real estate ²			
	Employment			Pay rolls			Employment			Pay rolls			Employment		Pay rolls	
	1931	1932	1933	1931	1932	1933	1931	1932	1933	1931	1932	1933	1932	1933	1932	1933
	1931	1932	1933	1931	1932	1933	1931	1932	1933	1931	1932	1933	1932	1933	1932	1933
January.....	90.5	84.7	75.4	86.6	76.4	57.9	88.9	82.1	73.0	77.7	65.8	46.6	98.6	97.6	94.0	85.5
February.....	90.0	82.9	74.4	85.6	73.3	55.5	87.4	80.5	70.9	75.1	62.2	42.4	98.6	97.0	93.5	84.7
March.....	89.5	82.0	73.0	85.6	71.6	52.9	88.0	80.6	71.2	75.6	61.7	41.0	99.1	96.8	93.3	84.1
April.....	90.5	81.4	73.5	86.8	71.4	54.0	95.7	83.3	81.1	86.3	65.9	54.6	98.8	96.3	92.4	83.3
May.....	91.9	81.0	76.0	87.4	70.6	54.5	96.7	84.5	82.0	86.6	67.3	53.9	98.2	96.4	93.2	83.6
June.....	91.8	80.3	76.3	87.4	68.6	56.7	99.0	85.1	85.6	88.1	65.8	56.7	98.1	97.4	90.4	84.7
July.....	90.2	78.9	77.9	84.6	63.9	57.6	98.6	82.4	82.9	86.2	60.0	52.8	98.5	97.8	90.1	85.2
August.....	89.3	78.6	-----	84.1	62.9	-----	93.5	79.5	83.1	80.0	66.3	52.8	98.7	98.5	88.5	84.7
September.....	89.3	78.6	-----	84.1	62.9	-----	95.3	83.3	-----	82.6	61.0	-----	98.6	-----	87.3	-----
October.....	88.1	77.5	-----	81.8	61.2	-----	94.2	82.3	-----	81.4	58.8	-----	98.7	-----	86.5	-----
November.....	86.2	76.2	-----	78.9	59.1	-----	90.1	78.0	-----	74.7	52.3	-----	98.2	-----	86.0	-----
December.....	85.3	75.9	-----	77.4	58.7	-----	84.9	75.2	-----	67.9	48.4	-----	98.0	-----	85.7	-----
Average.....	89.4	80.1	75.0	84.4	67.0	55.7	92.7	81.4	78.7	80.3	60.5	50.1	98.5	97.2	90.1	84.5

¹ Average for 8 months.

² Monthly data for previous years not available.

Average Man-Hours Worked and Average Hourly Earnings

IN THE following tables the Bureau presents a tabulation of man-hours worked per week and average hourly earnings based on reports supplied by identical establishments in July and August 1933 in 15 industrial groups and 76 separate manufacturing industries. Man-hour data for the building-construction group and for the insurance, real estate, banking, and brokerage group are not available, and data for several of the 89 manufacturing industries surveyed monthly are omitted from these tables due to lack of adequate information.

The total number of establishments supplying man-hour data in these 15 industrial groups represents approximately 50 percent of the establishments supplying monthly employment data.

The tabulations are based on reports supplying actual man-hours worked and do not include nominal man-hour totals, obtained by multiplying the total number of employees in the establishment by the plant operating time.

Table 1 shows the average hours worked per employee per week and average hourly earnings in 15 industrial groups and for all groups combined. The average hours per week and average hourly earnings for the combined total of the 15 industrial groups are weighted averages, wherein the average man-hours and average hourly earnings in each industrial group are multiplied by the total number of employees in the group in the current month and the sum of these products divided by the total number of employees in the combined 15 industrial groups.

In presenting information for the separate manufacturing industries shown in table 2, data are published for only those industries in which the available man-hour information covers 20 percent or more of the total number of employees in the industry at the present time. The average man-hours and hourly earnings for the combined 89 manufacturing industries have been weighted in the same manner as the averages for all industrial groups combined, table 1.

TABLE 1.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN 15 INDUSTRIAL GROUPS, JULY AND AUGUST 1933

Industrial group	Average hours per week		Average hourly earnings	
	July 1933	August 1933	July 1933	August 1933
	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Manufacturing.....	42.3	38.6	42.7	48.5
Coal mining:				
Anthracite.....	31.5	34.1	81.4	83.8
Bituminous.....	31.5	35.0	45.5	48.4
Metalliferous mining.....	39.5	39.3	46.8	48.9
Quarrying and nonmetallic mining.....	41.4	38.5	37.2	40.5
Crude petroleum producing.....	45.8	44.4	55.6	56.1
Public utilities:				
Telephone and telegraph.....	37.9	38.1	70.5	69.9
Power and light.....	41.9	42.7	66.7	65.8
Electric-railroad and motor-bus operation and maintenance.....	45.6	46.0	56.7	56.8
Trade:				
Wholesale.....	47.1	44.3	53.9	56.7
Retail.....	44.2	40.0	42.7	48.5
Hotels.....	50.7	50.2	23.0	23.1
Canning and preserving.....	34.4	33.2	32.1	32.2
Laundries.....	42.0	40.3	34.7	36.4
Dyeing and cleaning.....	47.0	40.5	35.9	41.4
Total.....	42.8	39.6	44.6	49.4

Per capita weekly earnings, computed by multiplying the average man-hours worked per week by the average hourly earnings shown in the following table, are not identical with the per capita weekly earnings appearing elsewhere in this trend-of-employment compilation, which are obtained by dividing the total weekly earnings in all establishments reporting by the total number of employees in those establishments. As already noted, the basic information upon which the average weekly man-hours and average hourly earnings are computed covers approximately 50 percent of the establishments reporting monthly employment data.

TABLE 2.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN SELECTED **MANUFACTURING** INDUSTRIES, JULY AND AUGUST 1933

Industry	Average hours per week		Average hourly earnings	
	July 1933	August 1933	July 1933	August 1933
	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Food and kindred products:				
Baking.....	46.8	43.0	44.7	47.8
Beverages.....	45.7	43.8	62.7	65.0
Confectionery.....	34.4	35.7	35.1	37.3
Flour.....	47.0	39.8	43.0	47.9
Ice cream.....	50.3	46.6	49.2	54.0
Slaughtering and meat packing.....	49.0	40.3	41.5	49.0
Sugar, beet.....	41.0	47.4	53.6	44.0
Sugar refining, cane.....	47.8	44.3	49.8	49.4
Textiles and their products:				
Fabrics:				
Carpets and rugs.....	44.8	36.5	37.7	47.7
Cotton goods.....	49.0	36.5	23.2	36.1
Cotton small wares.....	46.1	37.4	33.7	42.1
Dyeing and finishing textiles.....	49.5	36.3	37.1	49.7
Knit goods.....	45.8	37.4	29.9	42.6
Silk and rayon goods.....	42.1	36.7	31.5	41.5
Woolen and worsted goods.....	48.5	41.2	35.8	43.3
Iron and steel and their products, not including machinery:				
Bolts, nuts, washers, and rivets.....	42.2	36.2	42.1	47.0
Cast-iron pipe.....	35.6	33.4	38.3	41.8
Cutlery (not including silver and plated cutlery) and edge tools.....	42.7	38.1	47.1	49.9
Forgings, iron and steel.....	42.0	39.0	45.3	48.9
Hardware.....	41.7	37.7	44.0	46.5
Iron and steel.....	40.2	39.6	48.1	55.3
Plumbers' supplies.....	38.4	36.6	42.3	46.0
Steam and hot-water heating apparatus and steam fittings.....	38.1	36.7	47.6	51.2
Stoves.....	41.4	38.9	44.6	46.6
Structural and ornamental metalwork.....	33.7	35.6	42.8	47.4
Tools (not including edge tools, machine tools, files, and saws).....	41.1	36.6	44.4	48.9
Wirework.....	47.5	44.0	42.7	50.5
Machinery, not including transportation equipment:				
Agricultural implements.....	35.2	34.7	46.3	48.3
Cash registers, adding machines, and calculating machines.....	39.9	38.3	63.7	66.6
Electrical machinery, apparatus, and supplies.....	38.1	35.4	53.7	57.0
Engines, turbines, tractors, and water wheels.....	37.3	33.9	54.8	56.7
Foundry and machine-shop products.....	38.1	33.9	48.8	55.6
Machine tools.....	37.0	34.3	53.8	57.7
Radios and phonographs.....	36.2	35.6	37.0	46.3
Textile machinery and parts.....	44.7	37.2	52.3	58.9
Typewriters and supplies.....	39.6	37.7	42.9	50.2
Nonferrous metals and their products:				
Aluminum manufactures.....	42.2	38.8	40.2	42.9
Brass, bronze, and copper products.....	42.9	38.0	45.6	50.8
Clocks and watches and time-recording devices.....	40.8	39.5	37.9	40.7
Jewelry.....	39.2	38.9	42.2	42.0
Silverware and plated ware.....	41.7	37.0	42.9	50.0
Smelting and refining—copper, lead, and zinc.....	41.3	38.6	47.7	50.4
Stamped and enameled ware.....	41.2	40.6	39.0	41.2
Transportation equipment:				
Aircraft.....	45.5	40.6	62.2	64.5
Automobiles.....	38.0	37.8	57.0	63.1
Cars, electric and steam railroad.....	30.9	34.0	53.8	54.0
Locomotives.....	42.3	27.7	49.9	56.3
Shipbuilding.....	33.6	30.3	56.4	61.7

TABLE 2.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN SELECTED **MANUFACTURING** INDUSTRIES, JULY AND AUGUST 1933—Continued

Industry	Average hours per week		Average hourly earnings	
	July 1933	August 1933	July 1933	August 1933
Railroad repair shop:	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Electric railroad.....	43.1	44.0	56.2	56.0
Steam railroad.....	34.6	39.6	63.3	62.8
Lumber and allied products:				
Furniture.....	42.5	39.3	31.6	37.9
Lumber:				
Millwork.....	43.7	39.6	33.7	37.7
Sawmills.....	43.7	43.1	29.9	33.4
Stone, clay, and glass products:				
Brick, tile, and terra cotta.....	37.0	35.2	32.9	36.5
Cement.....	38.9	35.8	42.9	50.9
Glass.....	39.3	36.7	45.2	48.5
Marble, granite, slate, and other products.....	36.3	33.2	53.3	59.2
Pottery.....	35.4	40.8	38.5	41.6
Leather and its manufactures:				
Leather.....	45.7	41.7	41.3	45.2
Paper and printing:				
Boxes, paper.....	45.6	41.0	39.3	43.4
Paper and pulp.....	46.1	44.4	41.2	44.2
Printing and publishing:				
Book and job.....	37.7	36.2	68.8	69.9
Newspapers and periodicals.....	40.6	39.3	75.9	76.8
Chemicals and allied products:				
Chemicals.....	43.6	41.1	55.0	57.0
Cottonseed, oil, cake, and meal.....	60.7	38.9	18.8	28.6
Druggists' preparations.....	40.0	37.6	45.4	50.0
Explosives.....	38.8	38.9	55.1	58.1
Fertilizers.....	44.3	42.4	28.2	29.4
Paints and varnishes.....	44.1	39.1	47.7	52.4
Petroleum refining.....	39.9	39.8	62.2	62.7
Rayon and allied products.....	41.6	39.6	40.8	45.2
Soap.....	45.2	39.6	44.0	45.9
Rubber products:				
Rubber goods, other than boots, shoes, tires, and inner tubes.....	43.3	36.1	43.7	47.5
Rubber tires and inner tubes.....	38.4	32.2	62.3	65.4
Tobacco manufactures:				
Chewing and smoking tobacco and snuff.....	39.1	38.2	33.4	36.2
Cigars and cigarettes.....	42.3	37.4	30.5	35.3

Employment in Building Construction in August 1933

EMPLOYMENT in the building-construction industry increased 8.9 percent in August as compared with July and pay rolls increased 9.3 percent over the month interval.

The percents of change of employment and pay-roll totals in August as compared with July are based on returns made by 10,765 firms employing in August 86,771 workers in the various trades in the building-construction industry and whose combined weekly earnings during the pay period ending nearest August 15 were \$1,846,650. These reports cover building operations in various localities in 34 States and the District of Columbia.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN THE BUILDING CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, JULY AND AUG. 15, 1933

Locality	Number of firms reporting	Number on pay-roll		Percent of change	Amount of pay roll		Percent of change
		July 15	Aug. 15		July 15	Aug. 15	
Alabama: Birmingham.....	78	349	402	+15.2	\$4,629	\$5,935	+28.2
California:							
Los Angeles ¹	21	852	1,002	+17.6	18,333	19,401	+5.8
San Francisco-Oakland ¹	33	956	1,062	+11.1	21,602	24,660	+14.2
Other reporting localities ¹	20	597	606	+1.5	12,689	12,451	-1.9
Colorado: Denver.....	198	600	567	-5.5	11,886	11,173	-6.0
Connecticut:							
Bridgeport.....	132	542	574	+5.9	11,038	11,656	+5.6
Hartford.....	207	965	1,062	+10.1	21,886	22,197	+1.4
New Haven.....	179	956	1,066	+11.5	23,183	24,183	+4.3
Delaware: Wilmington.....	118	943	1,010	+7.1	17,312	18,707	+8.1
District of Columbia.....	526	8,420	8,949	+6.3	238,507	257,433	+7.9
Florida:							
Jacksonville.....	51	435	400	-8.0	6,918	6,575	-5.0
Miami.....	84	800	819	+2.4	11,712	12,536	+7.0
Georgia: Atlanta.....	146	1,213	1,182	-2.6	16,927	17,850	+5.5
Illinois:							
Chicago ¹	126	1,306	1,122	-14.1	34,571	31,824	-7.9
Other reporting localities ¹	74	538	673	+25.1	12,763	13,496	+5.7
Indiana:							
Evansville.....	54	283	270	-4.6	4,310	4,011	-6.9
Fort Wayne.....	86	278	300	+7.9	3,862	4,787	+24.0
Indianapolis.....	164	1,031	1,100	+6.7	19,434	21,960	+13.0
South Bend.....	32	119	183	+53.8	1,816	3,122	+71.9
Iowa: Des Moines.....	101	466	573	+23.0	8,013	9,744	+21.6
Kansas: Wichita.....	64	232	337	+45.3	4,141	5,837	+41.0
Kentucky: Louisville.....	126	1,066	1,151	+8.0	16,620	19,593	+17.9
Louisiana: New Orleans.....	114	976	1,096	+12.3	15,653	17,082	+9.1
Maine: Portland.....	105	371	390	+5.1	6,674	8,032	+20.3
Maryland: Baltimore ¹	110	726	785	+8.1	12,198	12,793	+4.9
Massachusetts: All reporting localities ¹	717	4,384	4,630	+5.6	106,647	112,012	+5.0
Michigan:							
Detroit.....	486	3,742	4,212	+12.6	71,260	83,685	+17.4
Flint.....	52	188	218	+16.0	3,124	3,821	+22.3
Grand Rapids.....	96	394	403	+2.3	5,353	5,614	+4.9
Minnesota:							
Duluth.....	50	316	365	+15.5	4,198	5,708	+36.0
Minneapolis.....	203	1,493	1,646	+10.2	26,828	32,728	+22.0
St. Paul.....	161	875	1,185	+35.4	18,127	23,462	+29.4
Missouri:							
Kansas City ²	282	1,565	1,695	+8.3	32,475	34,625	+6.6
St. Louis.....	551	2,753	3,290	+19.5	70,251	87,034	+23.9
Nebraska: Omaha.....	150	723	927	+28.2	13,401	17,791	+32.8
New York:							
New York City ¹	294	4,387	5,254	+19.8	143,387	159,870	+11.5
Other reporting localities ¹	204	5,217	5,639	+8.1	127,514	132,327	+3.8
North Carolina: Charlotte.....	43	246	315	+28.0	2,674	4,096	+53.2
Ohio:							
Akron.....	82	315	326	+3.5	4,685	5,406	+15.4
Cincinnati ³	463	2,257	2,394	+6.1	47,680	53,366	+11.9
Cleveland.....	590	2,415	2,677	+10.8	58,618	65,005	+10.9
Dayton.....	119	549	598	+8.9	10,386	10,651	+2.6
Youngstown.....	76	226	305	+35.0	3,444	4,992	+44.9
Oklahoma:							
Oklahoma City.....	84	481	442	-8.1	6,916	7,144	+3.3
Tulsa.....	56	234	201	-14.1	3,629	2,949	-18.7
Oregon: Portland.....	187	779	1,022	+31.2	14,826	18,083	+22.0
Pennsylvania: ⁴							
Erie area ¹	29	204	195	-4.4	2,301	2,123	-7.7
Philadelphia area ¹	502	5,146	5,430	+5.5	89,426	88,272	-1.3
Pittsburgh area ¹	262	1,838	1,981	+7.8	36,749	43,018	+17.1
Reading-Lebanon area ¹	51	289	245	-15.2	4,737	3,802	-19.7
Scranton area ¹	39	238	255	+7.1	5,344	5,304	-.7
Other reporting areas ¹	325	2,446	2,618	+7.0	40,067	41,048	+2.4
Rhode Island: Providence.....	241	1,490	1,479	-.7	31,585	31,240	-1.1
Tennessee:							
Chattanooga.....	38	295	337	+14.2	4,042	4,975	+23.1
Knoxville.....	47	329	424	+28.9	4,827	6,194	+28.3
Memphis.....	80	462	467	+1.1	6,190	6,531	+5.5
Nashville.....	76	890	1,210	+36.0	10,824	15,755	+45.6
Texas:							
Dallas.....	172	1,134	1,084	-4.4	16,541	15,708	-5.0
El Paso.....	25	164	156	-4.9	1,548	1,502	-3.0
Houston.....	160	1,006	1,025	+1.9	15,007	14,816	-1.3
San Antonio.....	124	895	762	-14.9	11,825	11,042	-6.6

¹ Data supplied by cooperating State bureaus.

² Includes both Kansas City, Mo., and Kansas City, Kans.

³ Includes Covington and Newport, Ky.

⁴ Each separate area includes from 2 to 8 counties.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN THE BUILDING CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, JULY AND AUG. 15, 1933—Continued

Locality	Number of firms reporting	Number on pay-roll		Percent of change	Amount of pay roll		Percent of change
		July 15	Aug. 15		July 15	Aug. 15	
Utah: Salt Lake City.....	80	289	352	+21.8	\$4,469	\$6,136	+37.3
Virginia:							
Norfolk-Portsmouth.....	86	1,007	1,011	+ .4	15,477	19,148	+23.7
Richmond.....	144	918	992	+8.1	16,687	18,470	+10*7
Washington:							
Seattle.....	151	684	823	+20.3	13,238	17,229	+30.1
Spokane.....	52	258	213	-17.4	5,059	3,950	-21.9
Tacoma.....	81	160	192	+20.0	2,323	3,404	+46.5
West Virginia: Wheeling.....	46	180	170	-5.6	3,209	3,245	+1.1
Wisconsin: All reporting localities ¹	59	833	925	+11.0	15,393	16,331	+6.1
Total, all localities.....	10,765	79,714	86,771	+8.9	1,688,998	1,846,650	+9.3

¹ Data supplied by cooperating State bureaus.

Trend of Employment in August 1933, by States

IN THE following table are shown the fluctuations in employment and pay-roll totals in August 1933 as compared with July 1933, in certain industrial groups by States. These tabulations have been prepared from data secured directly from reporting establishments and from information supplied by cooperating State agencies. The combined total of all groups does not include building-construction data, information concerning which is published elsewhere in a separate tabulation by city and State totals. In addition to the combined total of all groups, the trend of employment and pay rolls in the manufacturing, public utility, hotel, wholesale trade, retail trade, bituminous-coal mining, crude-petroleum producing, quarrying and nonmetallic mining, metalliferous mining, laundry, and dyeing and cleaning groups is presented. In this State compilation, the totals of the telephone and telegraph, power and light, and electric-railroad operation groups have been combined and are presented as one group—public utilities. Due to the extreme seasonal fluctuations in the canning and preserving industry, and the fact that during certain months the activity in this industry in a number of States is negligible, data for this industry are not presented separately. The number of employees and the amount of weekly pay roll in July and August 1933 as reported by identical establishments in this industry are included, however, in the combined total of "all groups."

The percents of change shown in the accompanying table, unless otherwise noted, are unweighted percents of change; that is, the industries included in the groups, and the groups comprising the total of all groups, have not been weighted according to their relative importance in the combined totals.

As the anthracite-mining industry is confined entirely to the State of Pennsylvania, the changes reported in this industry in table 1, nonmanufacturing industries, are the fluctuations in this industry by State totals.

When the identity of any reporting company would be disclosed by the publication of a State total for any industrial group, figures for the group do not appear in the separate industrial-group tabulation, but are included in the State totals for "all groups." Data are not presented for any industrial group when the representation in the State covers less than three establishments.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN JULY AND AUGUST 1933, BY STATES**

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

State	Total all groups					Manufacturing				
	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change
Alabama.....	509	64,086	+4.4	\$888,109	+22.1	209	45,594	+3.6	\$617,693	+22.7
Arizona.....	404	7,743	+3.5	155,561	+7.7	54	2,071	+8.5	39,626	+15.2
Arkansas.....	¹ 1,250	16,288	+1.0	217,678	+1.0	173	11,262	+1.1	131,750	+1.0
California.....	² 1,959	263,162	+12.7	5,863,517	+8.9	1,071	153,076	+21.9	5,065,359	+15.3
Colorado.....	809	30,838	+9.2	604,626	+7.0	119	11,593	+12.2	225,056	+9.2
Connecticut.....	1,080	161,750	+10.0	3,134,378	+8.9	629	142,476	+11.7	2,621,312	+10.8
Delaware.....	133	11,575	+4.1	222,219	-3.1	49	7,948	+5.7	154,283	-4.1
Dist. of Columbia.....	610	29,228	+3.4	667,040	+2.9	52	3,163	+4.0	92,259	+2.8
Florida.....	536	18,851	-3.8	303,203	-7.5	118	10,404	+2.2	124,987	-12.6
Georgia.....	665	90,953	+2.1	1,224,508	+16.2	307	77,033	+9	946,215	+20.8
Idaho.....	213	7,916	+5.5	147,500	+10.9	37	3,888	+9.2	74,698	+13.4
Illinois.....	³ 1,723	333,907	+8.5	6,962,112	+9.0	1,100	219,243	+11.5	4,217,709	+12.5
Indiana.....	1,251	129,569	+4.1	2,486,464	+7.9	672	98,179	+3.5	1,903,934	+7.3
Iowa.....	1,172	45,723	+5.0	853,622	+4.3	435	26,844	+6.5	492,893	+5.7
Kansas.....	⁴ 1,358	66,233	+3.9	1,443,789	+3.2	449	26,587	+5.1	509,901	+3.8
Kentucky.....	837	67,664	+4.1	1,132,752	+13.9	203	26,645	+2.6	463,851	+8.1
Louisiana.....	503	33,004	+4.9	501,672	+8.9	212	21,696	+5.0	302,854	+10.4
Maine.....	534	51,162	+9.7	878,028	+10.6	183	43,304	+9.6	745,176	+11.3
Maryland.....	⁵ 834	37,099	+6.8	1,702,607	+10.3	445	62,483	+6.5	1,182,199	+12.1
Massachusetts.....	⁶ 8,084	375,092	+3.9	7,779,132	+4.5	1,132	198,417	+6.1	3,721,739	+8.0
Michigan.....	1,541	291,538	+6.1	6,694,959	+13.4	475	232,932	+5.8	5,681,327	+6.0
Minnesota.....	1,044	68,746	+7.6	1,387,990	+7.5	282	32,054	+3.3	639,222	+6.3
Mississippi.....	366	10,165	+3.6	131,145	+12.5	71	6,955	+5.4	81,157	+22.5
Missouri.....	1,193	117,580	+4.4	2,370,279	+6.0	519	68,269	+5.7	1,309,368	+7.5
Montana.....	351	10,191	+10.2	246,284	+12.2	48	2,737	+6.3	60,495	+18.6
Nebraska.....	654	20,373	+5.9	421,725	+5.2	119	9,348	+7.5	197,417	+7.5
Nevada.....	140	1,602	+8.6	37,870	+7.0	24	311	+4.4	7,943	+6.5
New Hampshire.....	504	41,914	+7.7	741,114	+17.8	186	37,056	+7.5	640,723	+20.7
New Jersey.....	1,541	196,651	+4.2	4,279,925	+4.1	⁷ 679	181,485	+4.3	3,766,361	+5.6
New Mexico.....	201	4,710	+6.7	81,534	+12.0	26	328	+15.5	6,395	+7.6
New York.....	7,902	534,788	+3.5	12,698,544	+2.8	⁸ 1,731	345,223	+5.7	7,761,631	+6.4
North Carolina.....	886	138,429	+2.3	1,824,149	+14.8	630	133,246	+2.2	1,737,507	+15.2
North Dakota.....	363	4,156	+3.1	85,432	+3.8	60	1,173	+7.3	25,185	+5.3
Ohio.....	4,945	437,384	+6.4	9,012,067	+9.9	1,903	329,283	+3.0	6,733,909	+10.7
Oklahoma.....	733	28,130	+4.8	554,510	+4.9	132	10,515	+1.2	192,766	+1.9
Oregon.....	682	32,989	+1.0	631,026	+8.4	154	19,392	+8.6	350,854	+18.2
Pennsylvania.....	4,986	637,424	+7.0	12,840,514	+15.0	1,747	377,259	+8.1	6,859,673	+17.9
Rhode Island.....	889	64,268	+3.3	1,228,216	+5.4	257	52,392	+3.4	944,972	+6.2
South Carolina.....	320	59,132	-1.0	741,951	+21.0	174	55,732	-1.4	690,512	+22.4
South Dakota.....	259	5,897	+2.7	135,688	-5	48	2,102	+3.6	38,178	-2.3
Tennessee.....	738	69,801	+2.3	1,044,714	+10.1	263	52,563	+1.8	757,219	+11.5
Texas.....	735	58,688	+4	1,258,497	+8	383	32,227	+1.2	620,881	+2.4
Utah.....	347	13,716	-8	250,713	+4.8	77	3,954	+5.5	76,338	+6.5
Vermont.....	379	10,870	+4.0	203,462	+1.5	118	6,226	+3.7	117,235	+2.2
Virginia.....	1,263	85,348	+4.9	1,419,505	+13.3	399	59,738	+5.6	943,743	+15.8
Washington.....	1,109	53,249	+7.7	1,103,530	+12.3	251	27,369	+10.9	561,741	+20.5
West Virginia.....	879	108,075	+9.3	2,109,030	+27.2	179	42,920	+9.6	854,659	+21.2
Wisconsin.....	⁹ 1,053	145,853	+4.6	2,664,320	+8.9	777	120,061	+6.1	2,086,495	+14.1
Wyoming.....	191	5,557	+5.5	129,545	+8.3	27	1,329	+1.6	36,130	+2.8

¹ Includes automobile dealers and garages, and sand, gravel, and building construction.

² Includes banks, insurance, and office employment.

³ Includes building and contracting.

⁴ Includes transportation, financial institutions, restaurants, theaters, and building construction.

⁵ Weighted percent of change.

⁶ Includes construction, municipal, agricultural, and office employment, amusement, and recreation professional and transportation services.

⁷ Includes laundries.

⁸ Includes laundering and cleaning.

⁹ Includes construction, but does not include hotels and restaurants.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS
IN JULY AND AUGUST 1933, BY STATES—Continued

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

State	Wholesale trade					Retail trade				
	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change
Alabama.....	16	566	+2	\$13,677	-7.5	63	2,035	+7.8	\$34,329	+22.4
Arizona.....	22	202	+6.9	5,115	+4.7	184	1,594	+5.8	27,983	+8.6
Arkansas.....	16	422	+1.0	10,383	+1.0	190	1,460	+1.0	22,367	+1.0
California.....	101	4,995	+5.2	155,817	+3.4	180	24,729	+9.4	515,935	+15.8
Colorado.....	26	934	+3.1	25,435	+8	276	4,142	+6.5	80,784	+7.2
Connecticut.....	59	1,367	+6.7	35,714	+2.9	113	4,106	-6.7	83,803	-4
Delaware.....	7	90	(¹⁰)	1,870	-4.2	9	174	-11.7	2,689	+10.3
Dist. of Columbia.....	28	384	+3.8	11,025	+2.4	404	10,925	+2.4	216,040	+6.2
Florida.....	50	736	+2.8	17,590	+1.4	78	1,071	-4.0	19,480	-1.0
Georgia.....	33	467	+2.9	13,125	-1	27	2,003	+8.8	33,843	+19.5
Idaho.....	8	118	+5.4	3,174	+3.1	68	809	+6.9	12,740	+9.9
Illinois.....	46	2,179	+6.9	50,750	+6.7	140	21,776	+8.0	447,145	+5.9
Indiana.....	59	1,165	+2.4	28,511	+4.4	162	5,099	+4.3	98,840	+14.6
Iowa.....	35	1,147	+3.0	27,544	+4.1	123	2,988	+7.3	49,926	+13.1
Kansas.....	80	2,035	+9.6	46,508	+5.6	456	6,159	+4.9	109,790	+5.9
Kentucky.....	23	430	+2.1	9,280	+2.5	28	1,643	+1.4	27,749	+13.9
Louisiana.....	30	684	+1.8	15,324	+6.5	46	3,127	+13.6	46,198	+24.2
Maine.....	16	450	+2.7	10,313	+4.1	72	1,093	+5.4	19,794	+5.1
Maryland.....	33	736	+1.4	16,427	+3.1	38	5,415	+1.1	92,334	+11.5
Massachusetts.....	711	14,813	+4.3	383,787	+2.4	4,202	60,518	+3.1	1,190,013	+9.8
Michigan.....	61	1,580	+1.5	41,984	+5.4	154	10,021	+5.1	189,590	+11.1
Minnesota.....	57	4,257	+4.1	110,102	+2.1	250	7,247	+8.1	127,058	+13.8
Mississippi.....	5	122	+3.4	2,377	+6.7	52	436	+6.1	4,527	+8.0
Missouri.....	60	4,783	+3.6	118,600	+6.3	126	8,803	+7.0	168,437	+12.9
Montana.....	14	244	+6.6	6,772	+7.4	85	918	+7.0	18,595	+5.7
Nebraska.....	28	780	+6.8	20,221	+6.9	128	1,594	+7.7	27,739	+7.6
Nevada.....	7	103	+5.1	3,106	+1	40	257	+10.3	6,084	+11.5
New Hampshire.....	17	190	-5	4,784	-1.5	75	904	+14.3	13,222	+7.1
New Jersey.....	25	593	+2.1	16,719	+1.1	422	6,568	+1.6	143,798	+4.7
New Mexico.....	8	91	+5.8	2,934	-6.0	53	288	+11.2	6,202	+11.6
New York.....	429	11,495	+1.9	342,241	-1	3,897	62,180	+2.2	1,290,953	+3.3
North Carolina.....	15	208	+6.1	4,184	+9.0	158	575	+8.7	12,779	+22.2
North Dakota.....	17	280	+7.3	7,520	+6.3	32	252	-7.7	4,011	-5.3
Ohio.....	234	5,255	+3.4	128,080	+2.4	1,557	32,681	-6	621,233	+10.7
Oklahoma.....	60	950	+6.0	22,384	+5.0	86	1,329	+8.7	23,111	+13.6
Oregon.....	53	1,364	+6.9	34,492	+4.4	176	2,269	+10.2	42,911	+8.6
Pennsylvania.....	124	3,648	+2.0	97,570	+2.2	338	25,981	+3.9	504,528	+8.7
Rhode Island.....	43	1,118	+2.4	25,673	-4	478	4,615	+2.7	99,224	+8.2
South Carolina.....	14	196	-1.0	4,339	+2.0	14	467	+20.7	4,208	+17.5
South Dakota.....	10	125	-2.3	3,215	-2	9	87	(¹⁰)	1,547	+3.1
Tennessee.....	31	691	+2.7	14,701	+2.6	55	3,339	+9.0	53,215	+17.1
Texas.....	149	3,119	+5.2	76,760	+5.5	78	6,185	+7	104,638	+8.5
Utah.....	15	490	+3.4	11,517	-3.7	81	689	+6.7	13,896	+4.6
Vermont.....	4	105	+1.0	2,535	+2	38	433	+2.1	6,524	+12.4
Virginia.....	45	1,052	+1.3	26,138	+4.3	474	4,575	+3.6	83,928	+3.7
Washington.....	84	2,156	+4.6	54,925	+4.0	377	6,127	+6.5	112,965	+6.5
West Virginia.....	26	569	-5	15,435	+3.5	49	864	+3.0	13,978	+3.1
Wisconsin.....	46	1,923	+8.1	45,980	+11.3	51	10,070	+15.4	134,245	+10.1
Wyoming.....	9	63	+8.6	1,738	+1.8	44	254	+13.9	5,740	+8.6

¹⁰ No change.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN JULY AND AUGUST 1933, BY STATES—Continued**

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

State	Quarrying and nonmetallic mining					Metalliferous mining				
	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change
Alabama	18	734	-0.1	\$7,016	-4.8	9	1,478	+29.5	\$23,853	+49.1
Arizona	3	54	-6.9	716	+1.8	20	1,874	-7	39,256	+7.5
Arkansas	6	295	+1.4	3,444	+19.4					
California	32	991	+4.0	19,126	+9.1	32	2,578	+2.3	60,203	+7.0
Colorado	4	39	+39.3	588	+37.4	14	640	+11.7	13,912	+9.6
Connecticut	25	260	+6.1	4,474	+15.9					
Delaware										
Dist. of Columbia										
Florida	15	709	-7.0	9,331	+3.9					
Georgia	30	1,272	+13.6	13,113	+36.7					
Idaho						7	1,981	+1.6	38,510	+11.1
Illinois	23	896	+24.8	13,672	+12.6					
Indiana	64	1,545	-1.4	22,420	-2.2					
Iowa	26	421	+4.7	5,623	+6.3					
Kansas	22	1,225	+9.6	24,067	-1	9	567	+50.1	11,477	+46.9
Kentucky	39	1,152	+6.0	10,750	+17.9					
Louisiana	13	669	-5.5	8,950	+5.9					
Maine	10	176	-42.3	3,327	-43.8					
Maryland	17	308	+1.0	3,692	-7.2					
Massachusetts	24	543	+15.5	11,315	+10.1					
Michigan	49	1,518	+4.5	25,306	+11.5	41	3,707	+18.2	49,715	+41.6
Minnesota	27	322	-6.1	5,600	+14.9	30	1,135	+51.7	19,348	+58.4
Mississippi	7	92	-32.4	783	-52.3					
Missouri	47	1,148	+1.7	16,157	+2.3	13	1,610	+1.1	18,228	+3.2
Montana	8	158	+4.6	2,477	+15.7	18	2,169	+1.7	61,140	+4.0
Nebraska	10	189	+10.5	2,414	+36.6					
Nevada						12	265	+46.4	5,247	+24.1
New Hampshire	11	87	+40.3	2,040	+59.3					
New Jersey	35	602	-1.3	10,656	-(11)					
New Mexico						5	963	+3.7	18,255	+18.1
New York	70	2,095	+3.2	39,681	-2.4					
North Carolina	17	426	+32.7	4,816	+47.3					
North Dakota										
Ohio	136	3,883	+8.0	57,502	+18.0					
Oklahoma	17	172	-5.0	1,391	-10.7	32	1,662	+42.1	27,683	+38.3
Oregon	5	51	-23.9	770	-29.1	6	67	+36.7	1,114	+19.8
Pennsylvania	148	5,671	+3.2	86,960	+8					
Rhode Island										
South Carolina	4	105	+16.7	966	+5.9					
South Dakota	6	42	-6.7	764	-9.0					
Tennessee	29	1,467	-2.5	17,547	-2.0	4	265	+26.8	4,913	+52.7
Texas	21	569	-31.6	8,125	-43.1					
Utah	5	116	+54.7	1,790	+18.0	12	1,999	+1.8	34,475	+8.9
Vermont	38	2,171	+4.6	40,001	-3.4					
Virginia	26	1,401	+7	15,043	+15.5					
Washington	17	224	+4.7	3,294	-7.9					
West Virginia	21	737	+16.8	11,633	+20.5					
Wisconsin	14	203	+23.0	2,832	+10.2	(12)	336	+22.6	5,684	+20.6
Wyoming										

¹¹ Less than one tenth of 1 percent.

¹² Not available.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN JULY AND AUGUST 1933, BY STATES—Continued**

Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

State	Bituminous-coal mining					Crude-petroleum producing				
	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change
Alabama.....	55	9,925	+7.2	\$134,467	+33.1					
Arizona.....										
Arkansas.....	2	201	-9.8	4,162	-9.8	9	408	+11.5	\$8,568	+5.6
California.....						36	5,251	+2.1	153,616	+2.6
Colorado.....	55	3,689	+22.4	50,046	+30.6					
Connecticut.....										
Delaware.....										
Dist. of Columbia.....										
Florida.....										
Georgia.....										
Idaho.....										
Illinois.....	31	6,145	+4.9	111,448	+15.3	9	176	+1.7	3,161	+4.6
Indiana.....	52	5,692	+4.2	104,347	+23.1	4	30	+20.0	420	-1.4
Iowa.....	22	721	-8.7	13,090	+10.7					
Kansas.....	18	1,056	+19.9	13,790	+20.0	29	1,188	+5.5	26,897	+10.0
Kentucky.....	159	27,686	+7.0	420,023	+29.5	5	245	+6.1	3,013	-1.3
Louisiana.....						8	146	+9.8	3,328	+10.2
Maine.....										
Maryland.....	16	1,924	-4.2	12,512	+61.4					
Massachusetts.....										
Michigan.....	3	21	-8.7	572	+13.7					
Minnesota.....										
Mississippi.....										
Missouri.....	24	1,718	+12.5	19,878	+26.8					
Montana.....	11	793	+63.5	21,342	+64.6	4	28	-28.2	804	-23.1
Nebraska.....										
Nevada.....										
New Hampshire.....										
New Jersey.....										
New Mexico.....	14	1,771	+5.0	25,728	+19.6	4	42	(10)	2,993	-2.3
New York.....						4	129	-2.3	2,693	+3.7
North Carolina.....										
North Dakota.....	9	382	+16.1	6,729	+33.9					
Ohio.....	84	12,597	+12.4	229,008	+51.1	5	54	+28.6	569	+13.8
Oklahoma.....	18	691	+65.7	11,815	+116.1	59	4,629	+4.2	110,698	+2.6
Oregon.....										
Pennsylvania.....	437	63,031	+8.6	932,335	+17.5	18	359	+12.9	7,633	+6.6
Rhode Island.....										
South Carolina.....										
South Dakota.....										
Tennessee.....	23	3,041	+6.4	39,073	+15.8					
Texas.....	5	342	+1.5	6,185	-2.8	39	10,042	-1	293,935	-1.9
Utah.....	18	1,388	+7.2	29,197	+24.4					
Vermont.....										
Virginia.....	35	8,285	+6	136,747	+23.2					
Washington.....	10	363	-16.0	8,825	+11.0					
West Virginia.....	362	55,472	+10.6	1,021,525	+40.6	7	324	+8.4	7,687	+8.2
Wisconsin.....										
Wyoming.....	32	3,057	+6.1	67,402	+14.2	4	35	-23.9	873	-27.9

¹⁰ No change.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN JULY AND AUGUST 1933, BY STATES—Continued**

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

State	Public utilities					Hotels				
	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change
Alabama.....	88	1,628	-1.2	\$32,556	-1.2	25	1,101	- .5	\$8,589	-2.0
Arizona.....	67	1,228	+1.1	30,686	+2.6	13	244	+4.3	3,358	- .5
Arkansas.....	52	1,674	- .9	36,467	-8.3	12	604	-9.9	4,151	+1.0
California.....	45	40,048	-1.6	1,106,442	+ .5	197	9,480	+2.9	156,897	+1.1
Colorado.....	196	5,271	+1.7	131,477	+1.0	54	1,412	+4.8	18,093	+5.4
Connecticut.....	135	9,291	- .2	283,183	-1.0	25	833	-1.8	10,477	+1.0
Delaware.....	28	1,073	+1.6	29,807	- .8	4	240	- .4	3,139	+1.2
Dist. of Columbia.....	19	5,562	+2.6	158,905	+2.2	47	3,625	+4.6	49,577	+3.7
Florida.....	185	3,990	+1.7	100,421	-2.6	48	852	+1.4	7,916	+5.1
Georgia.....	186	6,249	- .6	168,424	-3.0	29	1,131	+1.4	8,478	+ .3
Idaho.....	52	518	+3.6	10,024	+4.2	21	321	+2.2	3,632	+ .6
Illinois.....	76	65,899	+ .2	1,827,728	+2.5	13	11,119	+ .8	163,006	- .4
Indiana.....	133	8,786	+1.6	207,549	+3.3	81	2,837	+ .9	27,647	+1.5
Iowa.....	414	9,008	-2.9	200,888	- .7	65	2,089	-2.0	18,770	-1.3
Kansas.....	169	7,090	+1.9	161,687	+1.9	30	615	-1.0	6,684	+2.9
Kentucky.....	292	5,930	- .8	136,318	+ .5	37	1,716	- .8	17,047	+3.2
Louisiana.....	150	4,069	- .9	89,638	- .7	21	1,702	+1.3	17,062	+ .7
Maine.....	164	1,879	- .4	49,632	-2.5	30	1,446	+6.0	16,666	+10.7
Maryland.....	94	12,277	- .1	323,326	- .4	22	1,064	+ .9	12,633	-1.4
Massachusetts.....	14	44,836	+ .6	1,244,684	+ .4	94	3,783	-1.4	50,601	-1.5
Michigan.....	413	20,142	+ .3	560,252	+ .7	92	4,346	+1.0	45,811	+3.1
Minnesota.....	226	12,102	+3.1	305,129	+1.6	75	2,993	+ .2	33,435	+1.5
Mississippi.....	190	1,589	-2.3	32,046	-1.4	16	481	+3.7	3,374	+3.0
Missouri.....	179	18,939	+ .5	485,953	+2.6	86	4,236	- .4	48,090	-2.4
Montana.....	101	1,816	+2.1	52,316	+2.6	24	417	+5.8	5,542	+1.2
Nebraska.....	299	5,533	+ .2	136,187	+ .5	41	1,398	- .9	13,311	- .2
Nevada.....	37	364	-3.4	10,072	-1.0	15	237	+6.3	3,995	+10.6
New Hampshire.....	139	2,021	- .2	55,686	-4.5	20	941	+42.1	10,483	+35.8
New Jersey.....	265	21,087	- .2	594,632	- .1	84	5,949	+2.2	66,788	+10.5
New Mexico.....	54	640	+14.9	12,105	+6.7	15	288	+3.2	3,120	+6.7
New York.....	861	92,235	- .2	2,803,696	-2.5	271	29,375	+1.1	422,931	- .5
North Carolina.....	92	1,632	- .4	34,969	- .8	33	1,050	+7.6	8,772	+5.6
North Dakota.....	171	1,176	- .1	28,096	+ .4	25	399	-4.1	3,903	-4.2
Ohio.....	432	30,824	+ .3	798,651	+1.7	146	7,417	+ .5	83,062	-2.5
Oklahoma.....	245	5,730	- .6	126,524	+1.2	50	1,065	+ .8	10,882	+ .4
Oregon.....	183	5,381	-1.7	135,425	+3.8	59	1,115	+ .4	13,335	(11)
Pennsylvania.....	767	51,459	- .2	1,363,515	+1.1	176	9,099	+ .8	105,577	+ .1
Rhode Island.....	41	3,326	+ .6	92,667	- .7	18	456	+25.6	4,778	+16.4
South Carolina.....	70	1,500	-6.6	31,869	+4.9	15	343	+2.1	2,501	+1.5
South Dakota.....	129	938	+1.0	22,966	-1.7	18	301	+1.7	3,491	+4.0
Tennessee.....	244	4,177	+(11)	93,662	+2.1	37	2,039	-(11)	16,825	-1.9
Texas.....	115	6,429	+1.6	167,236	+ .3	37	2,691	- .6	32,104	+3.6
Utah.....	68	1,796	+1.7	38,431	+6.4	12	444	+ .5	5,521	+1.2
Vermont.....	121	911	-3.2	22,454	+ .9	23	635	+4.3	6,279	+3.6
Virginia.....	179	5,626	+1.2	134,828	+1.8	34	1,769	-3.0	18,332	-3.4
Washington.....	191	8,721	- .8	235,345	+3.5	85	2,487	+4.1	27,321	+4.4
West Virginia.....	120	5,578	+1.0	141,720	+1.4	38	1,008	+ .4	10,605	+ .5
Wisconsin.....	15	10,314	+ .2	286,431	+2.6	12	1,360	- .7	(12)	-----
Wyoming.....	48	433	+3.6	10,327	+2.9	7	73	+5.8	953	-6.7

¹¹ Less than one tenth of 1 percent.

¹² Not available.

¹³ Includes restaurants.

¹⁴ Includes steam railroads.

¹⁵ Includes railways and express.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS
IN JULY AND AUGUST 1933, BY STATES—Continued

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

State	Laundries					Dyeing and cleaning				
	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change
Alabama.....	4	417	-7	\$3,482	+10.3	3	124	+22.8	\$1,235	+16.3
Arizona.....	9	240	-4.0	2,786	-7.1					
Arkansas.....	13	454	-9	4,876	-(11)					
California.....	16	5,216	+1.2	90,030	-2.1					
Colorado.....	10	738	-3	10,279	+3.3	9	176	+6.0	3,079	+9.2
Connecticut.....	24	1,130	+3.0	18,096	+2.1	10	230	+4.1	4,484	+9
Delaware.....	4	318	+6.7	4,992	+8.6					
Dist. of Columbia.....	16	1,742	+2	25,896	+(11)	5	129	-3.7	2,275	+8
Florida.....	7	330	-9	2,995	-5	10	116	-4.9	1,807	+8.9
Georgia.....	11	662	+6.4	6,075	+12.8	5	119	+1.7	1,347	+12.3
Idaho.....										
Illinois.....	16	1,391	+1.7	19,351	+2.8					
Indiana.....	17	1,453	+4.8	19,228	+11.1	11	192	+6.1	3,009	+11.2
Iowa.....	3	150	+2.0	2,125	-1.3	7	288	+4.0	4,306	+2.3
Kansas.....	16	933	-7.1	10,622	-3.1					
Kentucky.....	17	844	+6.8	10,081	+2.2	5	240	+1.7	3,291	+2.4
Louisiana.....						4	72	-11.1	707	-15.5
Maine.....	14	401	+6.1	5,840	+11.7					
Maryland.....	24	1,849	+1.1	27,543	+6.2	10	452	-2	5,943	+3.0
Massachusetts.....	114	3,763	+(11)	59,635	+2.6	77	1,715	-11.7	19,355	-7.6
Michigan.....	21	1,317	+1.8	16,862	+5.7	14	348	+3.3	5,384	-1.2
Minnesota.....	13	749	+1.8	11,314	-2	8	317	+7.5	5,295	+10.9
Mississippi.....	4	154	(10)	1,407	+9.9					
Missouri.....	34	2,453	-1.5	31,846	-1.6	11	393	+4.8	6,572	+6.3
Montana.....	14	328	+3.8	5,343	-3					
Nebraska.....	8	650	+6.2	8,857	+9.8	4	93	(10)	1,444	-2.9
Nevada.....	3	37	-5.1	683	+6					
New Hampshire.....	16	321	+6.3	4,825	+7.5					
New Jersey.....	24	3,094	+10.9	57,194	+7.3	8	227	-5.8	5,294	-11.6
New Mexico.....	5	205	(10)	2,993	-2.3					
New York.....	71	7,129	+2.4	115,743	+1.6	16	563	+2.2	10,408	-7
North Carolina.....	10	686	+3	6,899	+6.4					
North Dakota.....	10	198	(10)	2,879	-1.7					
Ohio.....	74	3,934	-3	55,543	+1	41	1,561	-1.6	25,718	+4.8
Oklahoma.....	8	617	-1.9	7,946	+5.5	3	78	+4.0	938	+20.3
Oregon.....	4	317	+5.7	4,877	+8.7	4	66	+17.9	1,240	+12.1
Pennsylvania.....	40	2,871	+(11)	41,375	+3.8	17	862	+1.1	12,054	-9.6
Rhode Island.....	17	1,033	+2.0	17,215	+1.4	5	366	+18.8	6,065	+13.7
South Carolina.....	9	397	+8.2	3,393	+2.1					
South Dakota.....	5	106	-1.9	1,392	+1.7					
Tennessee.....	11	828	+1.5	6,612	+1.7	3	39	-2.5	503	+4.6
Texas.....	18	857	+5.0	8,657	+5.1	13	443	+5.5	7,120	+8.8
Utah.....	7	502	-2	6,895	+1.0	8	140	+1.4	2,341	+1.7
Vermont.....	3	50	+2.0	658	+16.0					
Virginia.....	9	542	-3.0	5,440	+1	17	274	+2.6	3,892	+6.3
Washington.....	12	569	+4	10,187	+1.3	8	82	+12.3	1,394	+16.0
West Virginia.....	20	700	+5.7	8,463	+7.0	8	198	+5.9	2,577	+7.9
Wisconsin.....	16	976	-7	12,066	-3.3					
Wyoming.....	4	81	-5.8	1,318	-3.6					

¹⁰ No change.

¹¹ Less than one tenth of 1 percent.

¹² Includes dyeing and cleaning.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN JULY AND AUGUST 1933, BY STATES—Continued**

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

State	Banks, brokerage, insurance, and real estate				
	Number of establishments	Number on pay roll, August 1933	Percent of change	Amount of pay roll (1 week), August 1933	Percent of change
Alabama.....	16	349	+2.3	\$9,477	+3.9
Arizona.....	30	212	+2.9	5,637	+3.1
Arkansas.....	19	241	+5.2	5,685	+1.1
California.....	1,135	22,976	+1.9	752,429	+1.2
Colorado.....	28	1,080	+7	34,717	-2
Connecticut.....	59	2,046	+2	72,606	-2
Delaware.....	15	572	+7	19,564	-6
District of Columbia.....	36	1,021	+2	38,862	-2.1
Florida.....	18	570	+1.2	17,840	+8
Georgia.....	25	1,001	(¹⁰)	29,388	-1.6
Idaho.....	15	135	+4.7	3,252	-7
Illinois.....	92	7,775	+1.3	278,964	-8
Indiana.....	40	1,225	+1.3	39,970	-7
Iowa.....	17	991	+6	31,505	-1.1
Kansas.....	28	796	+4.2	24,155	+7.3
Kentucky.....	20	716	+2.7	25,869	+3.2
Louisiana.....	9	370	-1.3	13,343	-1.9
Maine.....	16	259	+4.4	7,582	+17.2
Maryland.....	24	860	-5	31,423	-1.3
Massachusetts.....	220	6,781	+4	202,151	+6
Michigan.....	97	3,920	+1.1	123,979	-3
Minnesota.....	52	3,002	+6.2	84,346	+5.3
Mississippi.....	15	175	+6.7	3,658	+8
Missouri.....	83	4,727	+3	140,787	-7
Montana.....	20	231	+2.7	7,043	+3.3
Nebraska.....	14	295	-2.0	10,036	-4.0
Nevada.....	38	365	+2.2	8,914	+2.6
New Hampshire.....	110	12,463	+1.1	352,915	-4
New Jersey.....	16	86	-1.1	2,541	-2.9
New Mexico.....	727	51,466	+1.7	1,774,970	-3
New York.....	29	544	+4.0	13,659	+3.5
North Carolina.....	37	272	+1.9	6,750	+8
North Dakota.....	272	8,027	-9	256,355	-1.4
Ohio.....	21	600	+8	18,196	-1.2
Oklahoma.....	17	766	+5.4	22,675	-10.5
Oregon.....	781	23,276	+6	720,202	+2
Pennsylvania.....	28	921	(¹⁰)	37,012	-2.3
Rhode Island.....	10	102	(¹⁰)	2,962	+2.4
South Carolina.....	32	250	+2.9	5,920	+2.7
South Dakota.....	30	1,113	+2.8	37,994	+1.0
Tennessee.....	21	1,153	+1.7	32,755	+6.7
Texas.....	14	462	+2.9	15,981	+1.9
Utah.....	29	251	+13.6	6,742	+3.1
Vermont.....	32	1,331	+1.3	42,673	+3.0
Virginia.....	32	1,318	+1.1	42,089	-5
Washington.....	49	705	+2.2	20,848	+2.3
West Virginia.....	17	909	-7	31,045	+4
Wisconsin.....	12	115	(¹⁰)	3,415	-1.0
Wyoming.....					

¹⁰ No change.

Employment and Pay Rolls in August 1933 in Cities of Over 500,000 Population

IN THE following table are presented the fluctuations in employment and pay-roll totals in August 1933 as compared with July 1933 in 13 cities of the United States having a population of 500,000 or over. These changes are computed from reports received from identical establishments in each of the months considered.

In addition to including reports received from establishments in the several industrial groups regularly covered in the Bureau's survey, excluding building construction, reports have also been secured from other establishments in these cities for inclusion in these totals. Information concerning employment in building construction is not available for all cities at this time and therefore has not been included.

FLUCTUATIONS IN EMPLOYMENT AND PAY ROLLS IN AUGUST 1933 AS COMPARED WITH JULY 1933

Cities	Number of establishments reporting in both months	Number on pay roll		Per- cent of change	Amount of pay roll (1 week)		Per- cent of change
		July 1933	August 1933		July 1933	August 1933	
New York City	5, 073	300, 729	310, 889	+3. 4	\$8, 021, 265	\$8, 165, 158	+1. 8
Chicago, Ill.	617	147, 610	160, 044	+8. 4	3, 453, 874	3, 730, 057	+8. 0
Philadelphia, Pa.	830	133, 346	140, 064	+5. 0	2, 825, 143	3, 057, 260	+8. 2
Detroit, Mich.	514	179, 023	185, 708	+3. 7	4, 015, 559	4, 483, 336	+11. 6
Los Angeles, Calif.	689	57, 443	61, 343	+6. 8	1, 330, 195	1, 434, 887	+7. 9
Cleveland, Ohio	1, 122	91, 228	95, 846	+5. 1	1, 877, 307	2, 047, 882	+9. 1
St. Louis, Mo.	499	67, 513	70, 274	+4. 1	1, 424, 074	1, 496, 629	+5. 1
Baltimore, Md.	563	47, 816	51, 019	+6. 7	923, 867	1, 000, 324	+8. 3
Boston, Mass.	3, 066	89, 023	89, 636	+ . 7	2, 113, 243	2, 119, 553	+ . 3
Pittsburgh, Pa.	416	50, 592	53, 190	+5. 1	1, 053, 676	1, 144, 536	+8. 6
San Francisco, Calif.	1, 167	49, 376	51, 905	+5. 1	1, 143, 451	1, 196, 006	+4. 6
Buffalo, N. Y.	412	41, 496	44, 126	+6. 3	910, 827	967, 277	+6. 2
Milwaukee, Wis.	446	39, 321	41, 370	+5. 2	735, 009	810, 701	+10. 3

Employment in the Executive Civil Service of the United States August 1933

THERE were 19,027 fewer employees on the pay rolls of the United States Government in August 1933 than in August 1932. This is a decrease of 3.3 percent.

Comparing August 1933 with July 1933 there was an increase of 1,287 employees or 0.2 percent.

The data herein do not include the legislative, judicial, or Army and Navy services. The information as shown in table 1 was compiled by the various departments and offices of the United States Government and sent to the United States Civil Service Commission where it was assembled. The figures were tabulated by the Bureau of Labor Statistics and are published here by courtesy of the Civil Service Commission, and in compliance with the direction of Congress.

Information is not yet available as to the amount of pay rolls. However, arrangements are being made to collect this additional information and figures will be presented in the near future.

Table 1 shows the number of Federal employees inside the District of Columbia; the number of such employees outside the District of Columbia; and the total number for the entire service.

Approximately 12 percent of the total number of workers on the pay rolls of the United States are employed in the District of Columbia.

TABLE 1.—EMPLOYEES IN THE EXECUTIVE CIVIL SERVICE OF THE UNITED STATES
AUGUST 1932, JULY AND AUGUST 1933

Item	District of Columbia			Outside the District			Entire service		
	Perma- nent	Tempo- rary ¹	Total	Perma- nent	Tempo- rary ¹	Total	Perma- nent	Tempo- rary ¹	Total
Number of employees:									
August 1932.....	64,795	2,464	67,259	471,185	36,922	508,107	535,980	39,386	575,366
July 1933.....	62,309	3,753	66,062	460,160	28,830	488,990	522,469	32,583	555,052
August 1933.....	62,681	5,034	67,715	456,417	32,207	488,624	519,098	37,241	556,339
Gain or loss:									
August 1932-August 1933.....	-2,114	+2,570	+456	-14,768	-4,715	-19,483	-16,882	-2,145	-19,027
July 1933-August 1933.....	+372	+1,281	+1,653	-3,743	+3,377	-366	-3,371	+4,658	+1,287
Percent of change:									
August 1932-August 1933.....	-3.3	+104.3	+7	-3.1	-12.8	-3.8	-3.1	-5.4	-3.3
July 1933-August 1933.....	+6	+34.1	+2.5	-0.8	+11.7	-0.1	-0.6	+14.3	+0.2
Labor turnover, August 1933:									
Additions.....	² 1,539	³ 1,882	⁴ 3,421	4,885	14,520	19,405	⁴ 6,424	⁴ 16,402	⁴ 22,826
Separations.....	³ 1,005	763	⁴ 1,768	8,628	11,143	19,771	⁴ 9,633	⁴ 11,906	⁴ 21,539
Turnover rate per 100.....	1.61	17.37	2.64	1.07	36.51	3.97	1.23	34.10	3.88

¹ Not including field service in the Post Office Department.

² Not including 81 employees transferred from Federal Board for Vocational Education; 2,804 employees, transferred from Public Buildings and Public Parks, National Capital to Department of Interior; and 98 employees transferred from the Shipping Board to Department of Commerce.

³ Not including 162 employees in the Federal Emergency Administration of Public Works, transferred from a permanent to a temporary status.

⁴ See notes to details.

Comparing August 1933 with July 1933, there was an increase of six tenths of 1 percent in the number of permanent employees in the District of Columbia. Temporary employees in the Federal city increased 34.1 percent. There was an increase of 2.5 percent in the total number of Government workers in Washington.

Comparing August 1933 with August 1932 there was a decrease of 3.3 percent in the number of permanent employees in the District. However, due to the creation of a large number of new Government agencies, temporary employees in the District increased 104.3 percent comparing August 1933 with August 1932. Due to this large increase in temporary workers, the total Federal employment in Washington was seven tenths of 1 percent greater during August 1933 than during the same month of the previous year.

August is the first month to include figures for the National Recovery Administration. This agency had 1,077 employees on its pay roll on August 31, 1933.

Outside of the District of Columbia, the number of permanent employees decreased 3.1 percent. The number of temporary employees decreased 12.8 percent, comparing August 1933 with August 1932.

Comparing August 1933 with July 1933, there was a decrease of 0.6 percent in the number of permanent employees, an increase of 14.3 percent in the number of temporary employees, and an increase of 0.2 percent in the total Federal employment.

Table 2 shows employment and pay rolls in the Emergency Conservation Work.

TABLE 2.—EMPLOYMENT AND PAY ROLLS IN THE EMERGENCY CONSERVATION WORK JULY AND AUGUST 1933

	Number		Pay rolls	
	July	August	July	August
Enrolled personnel.....	293,525	276,172	9,166,782	8,624,859
Reserve officers, line.....	1,293	1,286	(1)	(1)
Reserve officers, medical.....	842	869	(1)	(1)
Supervisory and technical.....	11,603	14,444	1,314,528	1,714,705
Total.....	306,763	292,771	¹ 10,481,310	² 10,339,564

¹ Data not available.² Not including pay rolls of Reserve officers—line or medical.

Information concerning the employment and amount of pay rolls in the Emergency Conservation Work are collected by the Bureau of Labor Statistics from the War Department and Forest Service of the Department of Agriculture.

On August 31, 1933, there were 276,172 enrolled men in the Forest Service. This is a decrease of approximately 17,000 as compared with July. The volume of employment of all units of the Emergency Conservation Work decreased approximately 14,000 comparing August with July.

The pay of the enlisted personnel is \$30 per month, except that 5 percent of the personnel of each company are paid \$45 a month and an additional 8 percent are paid \$36 per month. The pay rolls for this branch of the service are figured on this basis. Amounts paid to reserve officers, line and medical, are not available at the present time.

Employment on Class I Steam Railroads in the United States

REPORTS of the Interstate Commerce Commission for class I railroads show that the number of employees (exclusive of executives and officials) increased from 976,610 on July 15, 1933, to 1,002,768 on August 15, 1933, or 2.7 percent. Data are not yet available concerning total compensation of employees for August 1933. The latest pay-roll information available shows an increase from \$110,360,300 in June, to \$115,936,195 in July, or 5.1 percent.

The monthly trend of employment from January 1923 to August 1933 on class I railroads—that is, all roads having operating revenues of \$1,000,000 or over—is shown by index numbers published in the following table. These index numbers are constructed from monthly reports of the Interstate Commerce Commission, using the 12-month average for 1926 as 100.

TABLE 1.—INDEXES OF EMPLOYMENT ON CLASS I STEAM RAILROADS IN THE UNITED STATES, JANUARY 1923 TO AUGUST 1933
[12-month average, 1926=100]

Month	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933
January.....	98.3	96.6	95.6	95.8	95.5	89.3	88.2	86.3	73.3	61.2	53.0
February.....	98.6	97.0	95.4	96.0	95.3	89.0	88.9	85.4	72.7	60.3	52.7
March.....	100.5	97.4	95.2	96.7	95.8	89.9	90.1	85.5	72.9	60.5	51.5
April.....	102.0	98.9	96.6	98.9	97.4	91.7	92.2	87.0	73.5	60.0	51.8
May.....	105.0	99.2	97.8	100.2	99.4	94.5	94.9	88.6	73.9	59.7	52.5
June.....	107.1	98.0	98.6	101.6	100.9	95.9	96.1	86.5	72.8	57.8	53.6
July.....	108.2	98.1	99.4	102.9	101.0	95.6	96.6	84.7	72.4	56.4	55.4
August.....	109.4	99.0	99.7	102.7	99.5	95.7	97.4	83.7	71.2	55.0	56.9
September.....	107.8	99.7	99.9	102.8	99.1	95.3	96.8	82.2	69.3	55.8	-----
October.....	107.3	100.8	100.7	103.4	98.9	95.3	96.9	80.4	67.7	57.0	-----
November.....	105.2	99.0	99.1	101.2	95.7	92.9	93.0	77.0	64.5	55.9	-----
December.....	99.4	96.0	97.1	98.2	91.9	89.7	88.8	74.9	62.6	54.8	-----
Average.....	104.1	98.3	97.9	100.0	97.5	92.9	93.3	83.5	70.6	57.9	¹ 53.4

¹ Average for 8 months.

Wage-Rate Changes in American Industries

Manufacturing Industries

THE following table presents information concerning wage-rate adjustments occurring between July 15 and August 15, 1933, as shown by reports received from manufacturing establishments supplying employment data to this Bureau.

Increases in wage rates averaging 24.3 percent and affecting 1,145,-576 employees were reported by 3,776 manufacturing establishments in August. These increases reflect the adoption of the various industry codes or the acceptance of the blanket code in certain industries, and, in other industries, represent a partial restoration of previous reductions in wage rates, due to the general business improvement.

Of the 18,008 manufacturing establishments included in the August survey, 14,230 establishments, or 79 percent of the total, reported no change in wage rates over the month interval. The 2,041,953 employees not affected by changes in wage rates constituted 64.1 percent of the total number of employees covered by the August trend of employment survey of manufacturing industries.

Only two manufacturing establishments reported wage-rate decreases.

TABLE 1.—WAGE-RATE CHANGES IN **MANUFACTURING** INDUSTRIES DURING MONTH ENDING AUGUST 15, 1933

Industry	Estab- lish- ments report- ing	Total number of em- ployees	Number of establish- ments reporting—			Number of employees having—		
			No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases
All manufacturing industries.....	18, 008	3, 187, 674	14, 230	3, 776	2	2, 041, 953	1, 145, 576	145
Percent of total.....	100. 0	100. 0	79. 0	21. 0	(1)	64. 1	35. 9	(1)
Food and kindred products:								
Baking.....	996	67, 093	837	159	-----	62, 100	4, 993	-----
Beverages.....	380	22, 537	356	24	-----	21, 456	1, 081	-----
Butter.....	308	5, 989	294	14	-----	5, 617	372	-----
Confectionery.....	307	38, 393	257	50	-----	32, 693	5, 700	-----
Flour.....	418	15, 789	377	41	-----	14, 052	1, 737	-----
Ice cream.....	342	12, 319	260	82	-----	11, 557	762	-----
Slaughtering and meat packing.....	244	101, 707	175	69	-----	76, 956	24, 751	-----
Sugar, beet.....	57	6, 946	56	1	-----	5, 793	1, 153	-----
Sugar refining, cane.....	12	8, 085	12	-----	-----	8, 085	-----	-----
Textiles and their products:								
Fabrics:								
Carpets and rugs.....	26	13, 563	14	12	-----	3, 761	9, 802	-----
Cotton goods.....	678	318, 253	250	428	-----	75, 779	242, 474	-----
Cotton small wares.....	110	12, 036	66	43	1	6, 282	5, 689	65
Dyeing and finishing textiles.....	149	40, 538	54	95	-----	3, 669	36, 869	-----
Hats, fur-felt.....	34	6, 558	27	7	-----	5, 688	870	-----
Knit goods.....	448	112, 372	241	207	-----	55, 395	56, 977	-----
Silk and rayon goods.....	235	56, 007	158	77	-----	35, 038	20, 969	-----
Woolen and worsted goods.....	237	79, 347	140	97	-----	49, 944	29, 403	-----
Wearing apparel:								
Clothing, men's.....	400	70, 861	286	114	-----	50, 554	20, 307	-----
Clothing, women's.....	500	26, 801	434	66	-----	20, 959	5, 842	-----
Corsets and allied gar- ments.....	35	6, 176	29	6	-----	4, 811	1, 365	-----
Men's furnishings.....	74	8, 138	62	12	-----	7, 041	1, 097	-----
Millinery.....	135	10, 606	112	23	-----	8, 855	1, 751	-----
Shirts and collars.....	114	17, 142	91	23	-----	13, 367	3, 775	-----

¹ Less than one tenth of 1 percent.

TABLE 1.—WAGE-RATE CHANGES IN **MANUFACTURING** INDUSTRIES DURING MONTH
ENDING AUGUST 15, 1933—Continued

Industry	Estab- lish- ments report- ing	Total number of em- ployees	Number of establish- ments reporting—			Number of employees having—		
			No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases
Iron and steel and their prod- ucts, not including machin- ery:								
Bolts, nuts, washers, and rivets.....	69	11,588	41	28		4,734	6,854	
Cast-iron pipe.....	41	6,014	38	3		5,068	946	
Cutlery (not including silver and plated cutlery) and edge tools.....	118	9,064	102	16		8,114	950	
Forgings, iron and steel.....	57	5,506	46	11		3,331	2,175	
Hardware.....	107	31,299	80	27		19,604	11,695	
Iron and steel.....	206	254,534	96	110		117,988	136,546	
Plumbers' supplies.....	67	8,823	49	18		4,489	4,334	
Steam and hot-water heat- ing apparatus and steam fittings.....	100	17,726	73	27		11,261	6,465	
Stoves.....	164	22,647	134	30		16,836	5,811	
Structural and ornamental metalwork.....	192	14,660	165	27		11,951	2,709	
Tin cans and other tinware.....	60	10,475	51	9		7,793	2,682	
Tools (not including edge tools, machine tools, files, and saws).....	120	7,851	97	23		6,040	1,811	
Wirework.....	66	7,092	50	16		3,579	3,513	
Machinery, not including transportation equipment:								
Agricultural implements.....	76	7,646	64	12		6,069	1,577	
Cash registers, adding ma- chines, and calculating machines.....	35	13,165	30	5		11,543	1,622	
Electrical machinery, ap- paratus, and supplies.....	285	103,111	199	86		68,850	34,261	
Engines, turbines, tractors, and water wheels.....	86	14,143	69	17		11,943	2,200	
Foundry and machine-shop products.....	1,046	122,791	833	213		88,800	33,991	
Machine tools.....	145	13,251	102	43		9,189	4,062	
Radios and phonographs.....	41	25,943	30	11		19,062	6,881	
Textile machinery and parts.....	47	10,381	34	13		8,564	1,817	
Typewriters and supplies.....	17	10,284	13	4		7,414	2,870	
Nonferrous metals and their parts:								
Aluminum manufactures.....	26	6,321	20	6		4,782	1,539	
Brass, bronze, and copper products.....	210	38,293	160	50		26,738	11,555	
Clocks and watches and time-recording devices.....	25	8,319	22	3		5,946	2,373	
Jewelry.....	136	8,106	130	6		7,896	210	
Lighting equipment.....	49	3,146	42	7		2,018	1,128	
Silverware and plated ware.....	41	5,156	32	9		2,458	2,698	
Smelting and refining— copper, lead, and zinc.....	30	10,923	21	9		8,166	2,757	
Stamped and enameled ware.....	88	16,493	66	22		12,760	3,733	
Transportation equipment:								
Aircraft.....	27	7,797	26	1		7,682	115	
Automobiles.....	237	230,541	164	73		102,208	128,333	
Cars, electric and steam railroad.....	39	6,124	36	3		6,041	83	
Locomotives.....	11	2,210	8	3		1,258	952	
Shipbuilding.....	95	26,821	80	15		23,811	3,010	
Railroad repair shops:								
Electric railroad.....	391	19,477	388	3		19,221	256	
Steam railroad.....	531	75,566	531			75,566		
Lumber and allied products:								
Furniture.....	451	50,799	336	115		33,175	17,624	
Lumber:								
Millwork.....	472	21,381	392	80		16,881	4,500	
Sawmills.....	632	76,989	515	117		56,127	20,862	
Turpentine and rosin.....	25	1,520	23	2		1,491	29	

TABLE 1.—WAGE-RATE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING AUGUST 15, 1933—Continued

Industry	Establishments reporting	Total number of employees	Number of establishments reporting—			Number of employees having—		
			No wage-rate changes	Wage-rate increases	Wage-rate decreases	No wage-rate changes	Wage-rate increases	Wage-rate decreases
Stone, clay, and glass products:								
Brick, tile, and terra cotta.....	645	23, 557	533	112	—	18, 272	5, 285	—
Cement.....	111	15, 787	60	51	—	5, 081	10, 706	—
Glass.....	187	45, 712	155	32	—	28, 177	17, 535	—
Marble, granite, slate, and other products.....	221	5, 540	209	12	—	4, 465	1, 075	—
Pottery.....	115	16, 784	89	26	—	14, 362	2, 422	—
Leather and its manufactures:								
Boots and shoes.....	334	122, 921	269	65	—	88, 218	34, 703	—
Leather.....	154	31, 977	113	41	—	21, 345	10, 632	—
Paper and printing:								
Boxes, paper.....	312	24, 653	212	100	—	15, 739	8, 914	—
Paper and pulp.....	400	91, 433	313	87	—	64, 910	26, 523	—
Printing:								
Book and job.....	770	45, 148	695	75	—	41, 113	4, 035	—
Newspapers and periodicals.....	437	61, 407	421	16	—	60, 767	640	—
Chemicals and allied products:								
Chemicals.....	108	25, 817	91	17	—	20, 720	5, 097	—
Cottonseed, oil, cake, and meal.....	107	3, 881	81	26	—	2, 160	1, 721	—
Druggists' preparations.....	44	7, 694	41	3	—	6, 727	967	—
Explosives.....	27	2, 475	11	16	—	477	1, 998	—
Fertilizers.....	177	6, 352	160	17	—	5, 724	628	—
Paints and varnishes.....	351	16, 764	288	63	—	12, 298	4, 466	—
Petroleum refining.....	123	47, 712	121	2	—	47, 391	321	—
Rayon and allied products.....	22	32, 183	11	11	—	13, 763	18, 420	—
Soap.....	88	12, 871	81	7	—	11, 543	1, 328	—
Rubber products:								
Rubber boots and shoes.....	9	12, 130	6	3	—	10, 114	2, 016	—
Rubber goods, other than boots, shoes, tires, and inner tubes.....	99	25, 767	84	15	—	22, 107	3, 660	—
Rubber tires and inner tubes.....	36	60, 389	23	13	—	48, 655	11, 734	—
Tobacco manufactures:								
Chewing and smoking tobacco and snuff.....	32	9, 397	19	13	—	6, 162	3, 235	—
Cigars and cigarettes.....	199	38, 091	168	30	1	25, 764	12, 247	80

Nonmanufacturing Industries

DATA concerning wage-rate changes occurring between July 15 and August 15, 1933, in 15 groups of nonmanufacturing industries are presented in the following table.

No changes in wage rates were reported in the anthracite-mining industry. Increases were reported in each of the remaining 14 industries and decreases were reported in 4 industries over the month interval. The average percents of increase reported were as follows: Canning and preserving, 25.7 percent; quarrying and nonmetallic mining, 23.5 percent; dyeing and cleaning, 23.1 percent; laundries, 20.7 percent; bituminous-coal mining, 19.9 percent; retail trade, 17 percent; crude-petroleum producing, 16.1 percent; wholesale trade, 14.5 percent; hotels, 12.9 percent; metalliferous mining, 12.1 percent; power and light, 12 percent; banks, brokerage, insurance, real estate, 11.3 percent; telephone and telegraph, 10.6 percent; and electric-railroad and motor-bus operation and maintenance, 7.6 percent. The average percents of decrease reported were as follows: Power and light, 24 percent; banks, brokerage, insurance, real estate, 12.6 percent;

electric-railroad and motor-bus operation and maintenance, 12.3 percent; and hotels, 12.1 percent.

TABLE 2.—WAGE-RATE CHANGES IN **NONMANUFACTURING** INDUSTRIES DURING MONTH ENDING AUG. 15, 1933

Industrial group	Establishments reporting	Total number of employees	Number of establishments reporting—			Number of employees having—		
			No wage-rate changes	Wage-rate increases	Wage-rate decreases	No wage-rate changes	Wage-rate increases	Wage-rate decreases
Anthracite mining.....	158	65,204	158	-----	-----	65,204	-----	-----
Percent of total.....	100.0	100.0	100.0	-----	-----	100.0	-----	-----
Bituminous-coal mining.....	1,503	209,730	1,096	407	-----	132,999	76,731	-----
Percent of total.....	100.0	100.0	72.9	27.1	-----	63.4	36.6	-----
Metalliferous mining.....	281	24,735	243	38	-----	19,978	4,757	-----
Percent of total.....	100.0	100.0	86.5	13.5	-----	80.8	19.2	-----
Quarrying and nonmetallic mining.....	1,142	34,553	1,033	109	-----	29,638	4,915	-----
Percent of total.....	100.0	100.0	90.5	9.5	-----	85.8	14.2	-----
Crude-petroleum producing.....	245	23,097	242	3	-----	22,601	496	-----
Percent of total.....	100.0	100.0	98.8	1.2	-----	97.9	2.1	-----
Telephone and telegraph.....	8,128	243,500	8,126	2	-----	241,924	1,576	-----
Percent of total.....	100.0	100.0	100.0	(1)	-----	99.4	.6	-----
Power and light.....	3,105	177,733	3,089	13	3	177,010	319	404
Percent of total.....	100.0	100.0	99.5	.4	.1	99.6	.2	.2
Electric-railroad and motor-bus operation and maintenance.....	545	123,916	539	4	2	121,034	2,669	213
Percent of total.....	100.0	100.0	98.9	.7	.4	97.7	2.2	.2
Wholesale trade.....	2,963	80,385	2,852	111	-----	78,568	1,817	-----
Percent of total.....	100.0	100.0	96.3	3.7	-----	97.7	2.3	-----
Retail trade.....	17,291	359,503	16,575	716	-----	345,209	14,294	-----
Percent of total.....	100.0	100.0	95.9	4.1	-----	96.0	4.0	-----
Hotels.....	2,558	131,650	2,538	16	4	131,152	464	34
Percent of total.....	100.0	100.0	99.2	.6	.2	99.6	.4	(1)
Canning and preserving.....	920	95,471	847	73	-----	81,729	13,742	-----
Percent of total.....	100.0	100.0	92.1	7.9	-----	85.6	14.4	-----
Laundries.....	919	54,320	856	63	-----	50,213	4,107	-----
Percent of total.....	100.0	100.0	93.1	6.9	-----	92.4	7.6	-----
Dyeing and cleaning.....	337	11,048	303	34	-----	10,032	1,016	-----
Percent of total.....	100.0	100.0	89.9	10.1	-----	90.8	9.2	-----
Banks, brokerage, insurance, and real estate.....	4,508	168,943	4,344	156	8	166,175	2,688	80
Percent of total.....	100.0	100.0	96.4	3.5	.2	98.4	1.6	(1)

¹ Less than one tenth of 1 percent.

