

UNITED STATES DEPARTMENT OF LABOR

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BUREAU OF LABOR STATISTICS

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TREND OF EMPLOYMENT

SEPTEMBER 1933



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# TREND OF EMPLOYMENT

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September 1933

**T**HE Bureau of Labor Statistics of the United States Department of Labor presents herewith 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 September 1933

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

**E**MPLOYMENT in manufacturing industries increased 3.2 percent in September 1933 as compared with August 1933 and pay rolls increased 2.7 percent over the month interval, according to reports received from representative establishments in 89 important manufacturing industries of the country. Comparing the changes in employment and pay rolls over the year interval, it is seen that the level of employment in September 1933 is 26.3 percent above the level of September 1932, and pay rolls in September 1933 showed a gain of 39.9 percent over the year interval.

The index of employment in September 1933 was 73.9, as compared with 71.6 in August 1933, 67.3 in July 1933, and 58.5 in September 1932; the pay-roll index in September 1933 was 53.3, as compared with 51.9 in August 1933, 46.5 in July 1933, and 38.1 in September 1932. The 12-month average for 1926 equals 100.

These changes in employment and pay rolls in September 1933 are based on reports supplied by 18,330 establishments in 89 of the principal manufacturing industries of the United States. These establishments reported 3,362,727 employees on their pay rolls during the pay period ending nearest September 15 whose combined weekly earnings were \$62,766,612. The employment reports received from these cooperating establishments cover approximately 50 percent of the total wage earners in all manufacturing industries of the country.

These continued gains in September mark the sixth successive month in which increased employment and pay rolls have been reported in manufacturing industries. While the percentage gains

in employment and pay rolls in September were not as pronounced as the gains shown in the 4 months immediately preceding, the increases continued on a broad scale, 73 of the 89 manufacturing industries reporting gains in employment over the month interval and 61 industries reporting increases in pay rolls.

The average percentages of increase between August and September over the preceding 10-year period were 1.2 percent in employment and 0.5 percent in pay rolls. The increases, therefore, in September of the current year are somewhat larger than the average increases over the preceding 10-year period and may be attributed to a combination of seasonal gains plus an increase in number of workers added to the reporting companies' pay rolls by the adoption of N.R.A. codes.

This increase of 3.2 percent in employment in manufacturing industries in September 1933 represents an estimated gain of over 200,000 workers between August and September, and the increase of 2.7 percent in factory pay rolls indicates that the total weekly pay rolls of factory employees in September were approximately \$3,000,000 greater than the total weekly pay rolls disbursed in August in all manufacturing industries combined.

The September factory employment index (73.9) shows a gain of 34.1 percent over the employment index of March 1933 (55.1), which was the low point of employment recorded in manufacturing industries. The pay-roll index in September (53.3) stands 59.6 percent above the level of the March pay-roll index of 33.4. These percentage changes indicate an increase in employment in manufacturing industries of approximately 1,700,000 workers over this 6-month interval and an increase of nearly \$44,000,000 in weekly wages in September over the total amount paid in 1 week in March 1933.

The most pronounced gain in employment over the month interval was a seasonal increase in the cottonseed oil-cake-meal industry of 45.6 percent. The fertilizer industry also reflected the usual seasonal activity due to the fall shipping season with an increase of 28.2 percent in number of employees. Sixteen of the remaining 71 industries which reported increased employment showed gains ranging from 10.2 percent to 24.1 percent, among which were the confectionery, agricultural implement, shipbuilding, furniture, stove, machine tool, women's clothing, and radio industries. Among the 16 industries in which decreased employment was reported in September, as compared with August, the cotton-goods industry reported a decline of 2 percent; silk and rayon goods, 1.9 percent; woolen and worsted goods, 5.4 percent; and the dyeing and finishing textiles industry, 16.8 percent. In the last-named industry, labor disturbances in certain localities accentuated the decline.

Ten of the 14 groups of manufacturing industries reported increased employment, 1 group (stone-clay-glass) reported no change, and 3 groups (textiles, tobacco, and leather) reported fewer workers in September than in the preceding month. The gains in the lumber, machinery, nonferrous metals, and chemicals groups were slightly more than 7 percent each. In the lumber group, furniture and sawmills reported pronounced gains in number of workers over the month interval; each of the industries comprising the machinery group reported increases in employment, the largest percentage gains appearing in the radio, engine, machine tool, agricultural implement,

and typewriter industries. Each of the 8 industries comprising the nonferrous metal group reported increased employment, silverware, smelting and refining, and jewelry reporting the largest gains. In the chemical group, seasonal increases in the cottonseed oil-cake-meal and fertilizer industries were outstanding, while the explosive, druggists' preparations, and petroleum-refining industries also reported gains in employment ranging from 13.6 percent to 6 percent. The food group reported a gain of 6.5 percent in employment between August and September, each of the nine separate industries composing the group reporting increases in workers with the exception of the beverage industry in which a seasonal decrease of 1 percent was shown. The beet-sugar, flour, and confectionery industries reported the most pronounced gains in this group. The paper and transportation groups reported gains in employment of 4.6 percent each, general expansions appearing in the paper box, paper and pulp, book and job printing, and newspaper industries in the first-named group. In the last-named group, the shipbuilding, locomotive, and automobile industries reported increases ranging from 11.5 to 4.2 percent, while the aircraft and the electric and steam-railroad car-building industries reported declines in employment over the month interval.

The iron and steel group reported a gain of 4.3 percent in employment between August and September. Of the 13 industries comprising the iron and steel group, only 1 industry (hardware) failed to show a gain in number of workers between August and September. The stove industry reported the most pronounced gain in employment in this group (13.2 percent) and the structural metalwork, forgings, and cutlery industries reported gains of slightly more than 9 percent each. The rubber products group reported an increase of 2.2 percent in employment and the railroad car repair shop group reported a gain of 1.6 percent. In the three groups in which decreases in employment were shown, the losses in the textile and tobacco groups were less than 1 percent, and the decrease in the leather group amounted to 2.4 percent, due to declining employment shown in the boot and shoe industry.

Sporadic strikes continued to retard the general advances in employment in manufacturing industries, a number of firms in various localities reporting partial or complete shut-downs due to labor disturbances. A number of these labor disturbances were reported in women's clothing and knit-goods factories in New York, dyeing and finishing plants in New Jersey, boot and shoe factories in Massachusetts, silk mills in Pennsylvania and New Jersey, and women's clothing factories in Missouri.

A comparison of the indexes of employment and pay roll in manufacturing industries in September 1933 with September 1932 shows that all but 5 of the 89 industries surveyed reported increased employment and all but 10 industries reported increased pay-roll totals over the year interval. The five industries reporting decreased employment were: dyeing and finishing textiles, millinery, electric-railroad repair shops, marble-granite-slate, and cigars and cigarettes. The 10 industries reporting decreased pay-roll totals were: butter; ice cream; sugar refining, cane; dyeing and finishing textiles; millinery; electric-railroad car shops; cement; marble-granite-slate; book and job printing; and newspapers and periodicals.

In table 1, which follows, are shown the number of identical establishments reporting in both August and September 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 September 15, the amount of their earnings for 1 week in September, the percents of change over the month and year intervals, and the indexes of employment and pay roll in September 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 weighing 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 SEPTEMBER 1933 WITH AUGUST 1933 AND SEPTEMBER 1932

Industry	Estab-lish-ments reporting in both August and Sep-tem-ber 1933	Employment			Pay-roll totals			Index num-bers Sep-tember 1933 (average: 1926=100)	
		Num-ber on pay-roll Sep-tember 1933	Percent of change		Amount of pay roll (1 week, Sep-tember 1933	Percent of change		Em-ploy-ment	Pay-roll totals
			August to Sep-tember 1933	Sep-tember 1932 to Sep-tember 1933		August to Sep-tember 1933	Sep-tember 1932 to Sep-tember 1933		
<b>Food and kindred prod-ucts</b>	<b>3,110</b>	<b>305,740</b>	<b>+6.5</b>	<b>+19.7</b>	<b>\$6,282,271</b>	<b>+7.2</b>	<b>+16.6</b>	<b>100.1</b>	<b>80.1</b>
Baking	995	71,092	+6.0	+9.3	1,564,455	+8.7	+5.2	87.9	72.3
Beverages	394	26,429	-1.0	+109.6	720,872	-4.9	+128.4	161.4	141.6
Butter	306	5,937	+1.3	+5.4	120,089	+2.5	-4.7	107.3	79.5
Confectionery	305	41,143	+10.7	+6.6	620,387	+19.7	+9.6	94.8	75.7
Flour	420	17,575	+10.2	+11.1	347,667	+14.0	+2.8	94.0	70.8
Ice cream	371	13,936	+1.7	+9.7	339,281	-6	-7	83.9	61.1
Slaughtering and meat packing	244	113,025	+8.6	+27.9	2,221,237	+8.4	+23.6	111.4	87.5
Sugar, beet	63	8,083	+12.6	+46.6	163,202	+13.0	+35.4	91.8	66.9
Sugar refining, cane	12	8,520	+2.7	+11.9	185,081	-4.1	-5.0	86.6	65.1
<b>Textiles and their products</b>	<b>3,259</b>	<b>787,644</b>	<b>-3</b>	<b>+24.5</b>	<b>12,020,085</b>	<b>+3.9</b>	<b>+39.2</b>	<b>88.5</b>	<b>68.9</b>
<b>Fabrics</b>	<b>1,949</b>	<b>638,923</b>	<b>-2.0</b>	<b>+30.1</b>	<b>9,395,089</b>	<b>-2.5</b>	<b>+45.1</b>	<b>94.3</b>	<b>74.6</b>
Carpets and rugs	28	18,730	+5.1	+66.1	353,825	+7.1	+141.9	78.4	61.2
Cotton goods	683	312,087	-2.0	+41.0	4,092,436	-2.6	+70.2	101.4	85.6
Cotton small wares	114	11,734	-3.4	+39.5	182,795	-4.6	+47.6	101.8	78.4
Dyeing and finishing									
textiles	153	34,760	-16.8	-5	601,361	-19.9	-12.2	77.4	52.7
Hats, fur-felt	34	6,862	+2.6	+14.0	154,106	+11.2	+11.8	84.8	63.7
Knit goods	454	120,387	+6.9	+17.6	1,834,656	+9.8	+29.3	95.1	75.4
Silk and rayon goods	240	57,648	-1.9	+18.5	829,953	-6.5	+31.7	72.5	54.4
Woolen and worsted goods	243	76,715	-5.4	+35.1	1,345,957	-5.2	+45.6	102.8	82.1
<b>Wearing apparel</b>	<b>1,310</b>	<b>148,721</b>	<b>+4.6</b>	<b>+9.9</b>	<b>2,624,996</b>	<b>+24.2</b>	<b>+25.8</b>	<b>74.6</b>	<b>57.5</b>
Clothing, men's	405	74,200	+1.2	+15.2	1,269,323	+8.8	+31.5	78.7	56.4
Clothing, women's	527	32,332	+18.1	+5.7	723,971	+73.0	+29.5	70.6	58.9
Corsets and allied garments	34	6,111	+4.4	+9.9	94,459	+4.9	+24.6	105.7	88.1
Men's furnishings	80	7,542	-8.2	+4.2	97,740	-11.7	+11.7	62.7	42.1
Millinery	147	10,970	-4	-4.6	224,096	+16.0	-3.2	72.2	57.5
Shirts and collars	117	17,566	+5	+21.3	215,407	+5	+37.3	69.6	54.6

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

Industry	Estab- lish- ments report- ing in both August and Sep- tem- ber 1933	Employment			Pay-roll totals			Index num- bers Sep- tember 1933 (average 1926 = 100)	
		Number on pay roll Sep- tember 1933	Percent of change		Amount of pay roll (1 week) Sep-tem- ber 1933	Percent of change		Em- ploy- ment	Pay- roll totals
			August to Sep- tember 1933	Sep- tem- ber 1932 to Sep- tem- ber 1933		August to Sep- tember 1933	Sep- tem- ber 1932 to Sep- tem- ber 1933		
<b>Iron and steel and their products, not including machinery</b>	<b>1,396</b>	<b>426,195</b>	<b>+4.3</b>	<b>+44.4</b>	<b>\$7,922,878</b>	<b>-5.2</b>	<b>+94.6</b>	<b>74.8</b>	<b>47.1</b>
Bolts, nuts, washers, and rivets	72	12,012	+2.1	+48.7	218,161	+1.9	+99.0	90.7	58.7
Cast-iron pipe	41	6,175	+4.1	+21.4	79,120	-3.8	+15.2	34.1	18.2
Cutlery (not including silver and plated cutlery) and edge tools	129	10,440	+9.2	+18.6	189,591	+8.6	+30.7	75.4	51.1
Forgings, iron and steel	64	7,716	+9.3	+66.7	130,963	-2.7	+122.4	83.2	48.7
Hardware	107	30,857	-1.4	+22.4	512,621	-3.8	+46.3	59.0	33.2
Iron and steel	207	261,961	+2.9	+52.2	5,027,862	-10.0	+141.7	78.1	49.3
Plumbers' supplies	71	9,569	+8.3	+74.5	161,429	+9.6	+93.8	87.6	53.3
Steam and hot-water heating apparatus and steam fittings	98	18,263	+3.7	+36.1	329,616	-0.9	+48.5	48.3	30.3
Stoves	157	24,927	+13.2	+51.5	468,182	+14.4	+58.9	78.3	50.2
Structural and ornamental metalwork	192	16,676	+9.7	+18.5	293,159	+13.7	+30.1	50.6	31.1
Tin cans and other tinware	61	11,135	+2.9	+15.0	208,030	+1.4	+6.5	93.4	55.8
Tools (not including edge tools, machine tools, files, and saws)	127	8,709	+3.4	+35.9	157,678	+2.9	+59.0	80.2	51.5
Wirework	70	7,755	+5.6	+38.9	146,466	-8.9	+61.7	128.8	102.2
<b>Machinery, not including transportation equipment</b>	<b>1,818</b>	<b>349,753</b>	<b>+7.3</b>	<b>+36.2</b>	<b>\$6,816,636</b>	<b>+6.8</b>	<b>+56.1</b>	<b>61.7</b>	<b>46.9</b>
Agricultural implements	77	8,632	+11.0	+65.2	146,192	+12.2	+86.3	34.7	27.2
Cash registers, adding machines, and calculating machines	36	13,519	+2.6	+39.6	341,618	+3.6	+50.4	87.8	68.3
Electrical machinery, apparatus, and supplies	288	109,846	+6.2	+20.0	2,263,947	+5.5	+35.9	60.7	44.7
Engines, turbines, tractors, and water wheels	89	20,401	+22.2	+40.5	400,456	+23.5	+50.9	55.2	34.1
Foundry and machine-shop products	1,076	128,310	+5.0	+36.4	2,367,371	+3.6	+62.6	59.2	36.1
Machine tools	146	14,936	+13.8	+47.4	310,501	+17.7	+70.1	44.5	30.1
Radio and phonographs	41	31,968	+23.5	+96.2	545,086	+23.5	+62.6	133.6	91.2
Textile machinery and parts	49	10,904	+3.4	+73.6	229,561	+5.2	+109.4	90.8	69.1
Typewriters and supplies	16	11,237	+9.4	+36.4	211,904	+10.9	+89.0	76.1	55.0
<b>Nonferrous metals and their products</b>	<b>635</b>	<b>107,087</b>	<b>+7.3</b>	<b>+37.0</b>	<b>\$1,952,487</b>	<b>+7.5</b>	<b>+45.8</b>	<b>71.8</b>	<b>49.0</b>
Aluminum manufactures	25	6,628	+5.1	+37.1	110,608	+0.6	+61.6	65.1	41.7
Brass, bronze, and copper products	214	38,972	+2.7	+45.1	749,306	+2.1	+73.7	73.0	50.9
Clocks and watches and time-recording devices	27	9,118	+8.5	+24.4	157,203	+16.7	+43.5	49.9	38.6
Jewelry	132	9,085	+12.8	+11.1	172,222	+20.1	+11.8	45.2	31.2
Lighting equipment	52	3,535	+8.3	+29.9	62,964	+8.6	+29.9	82.1	58.6
Silverware and plated ware	53	8,315	+24.1	+16.7	157,452	+28.5	+21.4	70.6	46.0
Smelting and refining—copper, lead, and zinc	46	14,413	+13.5	+53.7	268,325	+5.2	+50.7	84.4	53.8
Stamped and enameled ware	87	17,021	+3.6	+33.4	274,407	+0.7	+31.8	82.3	52.7
<b>Transportation equipment</b>	<b>414</b>	<b>285,397</b>	<b>+4.6</b>	<b>+37.3</b>	<b>\$6,145,949</b>	<b>-3.2</b>	<b>+94.9</b>	<b>61.8</b>	<b>46.0</b>
Aircraft	28	7,654	-1.3	+47.8	197,951	-8.2	+24.1	238.7	207.5
Automobiles	239	239,907	+4.2	+43.3	5,181,559	-4.6	+125.5	64.9	48.7
Cars, electric and steam railroad	41	5,929	-3.1	+13.5	96,700	-4.8	+8.1	21.9	12.0
Locomotives	11	2,359	+6.7	+15.9	41,992	+10.4	+8.5	16.8	10.2
Shipbuilding	96	29,548	+11.5	+11.4	627,747	+14.7	+8.1	76.9	55.8

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

Industry	Estab-lish-ments reporting in both August and Sep-tem-ber 1933	Employment			Pay-roll totals			Index num-bers Sep-tem-ber 1933 (average: 1926=100)	
		Num-ber on pay roll Sep-tem-ber 1933	Percent of change		Amount of pay roll (1 week) Sep-tem-ber 1933	Percent of change		Em-ploy-ment	Pay-roll totals
			August to Sep-tem-ber 1933	Sep-tem-ber 1932 to Sep-tem-ber 1933		August to Sep-tem-ber 1933	Sep-tem-ber 1932 to Sep-tem-ber 1933		
<b>Railroad repair shops</b> .....	923	98,327	+1.6	+9.9	\$2,317,477	-1.4	+23.6	51.1	41.4
Electric railroad.....	378	18,843	+6	-6.0	462,901	-7	-9.1	62.5	48.8
Steam railroad.....	545	79,484	+1.8	+11.8	1,854,576	-1.4	+27.9	50.2	40.8
<b>Lumber and allied prod-ucts</b> .....	1,570	166,386	+7.4	+35.5	2,527,314	+14.7	+57.2	51.1	32.7
Furniture.....	465	60,073	+12.4	+39.1	951,570	+20.2	+55.6	63.0	40.0
Lumber:									
Millwork.....	463	21,770	+5	+20.3	323,192	+1.3	+26.5	41.5	25.3
Sawmills.....	617	82,883	+6.1	+36.9	1,230,314	+14.9	+70.7	43.2	30.9
Turpentine and rosin.....	25	1,660	+9.2	+43.9	22,238	+19.1	+42.2	60.6	49.9
<b>Stone, clay, and glass prod-ucts</b> .....	1,312	108,788	(1)	+21.6	1,831,395	-1.5	+25.0	52.9	32.5
Brick, tile, and terra cotta.....	657	22,878	-2.3	+16.2	290,291	-5.0	+18.2	34.4	16.2
Cement.....	129	15,545	-9.7	+5.0	256,836	-19.0	-2.4	44.0	23.9
Glass.....	184	46,235	+3.3	+47.0	857,944	+4.2	+60.4	79.8	58.4
Marble, granite, slate, and other products.....	221	5,698	+2.3	-15.7	106,842	-5	-26.4	44.6	26.2
Pottery.....	121	18,432	+3.0	+31.9	319,482	+1.8	+56.4	72.0	46.6
<b>Leather and its manufac-tures</b> .....	500	153,834	-2.4	+11.3	2,861,027	-9	+26.0	85.7	66.4
Boots and shoes.....	344	122,175	-3.1	+6.0	2,183,616	-9	+21.5	84.3	64.4
Leather.....	156	31,659	+4	+30.7	617,411	-4	+42.9	91.6	73.6
<b>Paper and printing</b> .....	1,955	242,293	+4.6	+12.6	5,668,852	+5.3	+6.5	88.7	69.3
Boxes, paper.....	322	27,737	+5.6	+30.2	493,977	+6.8	+29.3	90.9	76.3
Paper and pulp.....	416	100,844	+5.7	+26.7	1,898,912	+1.9	+34.4	93.9	66.4
Printing and publishing:									
Book and job.....	771	47,692	+3.1	+1.0	1,200,267	+6.1	-3.4	72.4	56.6
Newspapers and peri-odicals.....	446	66,020	+4.5	+4.7	2,075,696	+6.8	-2.6	100.8	82.5
<b>Chemicals and allied prod-ucts</b> .....	1,049	176,625	+7.2	+30.7	3,757,755	+4.5	+24.7	95.9	74.2
Chemicals.....	104	26,374	+4.4	+44.1	601,179	-5	+39.8	118.6	81.8
Cottonseed oil, cake, and meal.....	103	5,721	+45.6	+17.5	58,692	+38.5	+23.6	54.4	49.8
Druggists' preparations.....	45	8,362	+7.2	+10.3	166,991	+5.5	+10.7	76.9	75.4
Explosives.....	29	4,309	+13.6	+45.0	87,266	+5.8	+60.0	103.8	71.7
Fertilizers.....	167	7,347	+28.2	+53.4	92,109	+30.5	+43.6	65.2	42.5
Paints and varnishes.....	352	17,111	+6	+20.2	348,599	-1.6	+14.7	80.4	59.2
Petroleum refining.....	127	52,591	+6.1	+10.4	1,393,358	+4.6	+5.5	70.0	57.6
Rayon and allied prod-ucts.....	24	37,580	+4.5	+50.3	653,132	+7.7	+51.9	196.7	168.3
Soap.....	98	17,230	+4.6	+22.8	566,429	+6.8	+10.3	116.0	91.9
<b>Rubber products</b> .....	150	100,852	+2.2	+43.5	1,978,336	-1.4	+63.8	89.4	61.6
Rubber boots and shoes.....	9	14,335	+18.1	+36.2	258,091	+12.2	+59.0	67.4	59.3
Rubber goods, other than boots, shoes, tires, and inner tubes.....	100	26,628	+4.1	+50.5	457,024	+2.1	+44.1	118.6	76.8
Rubber tires and inner tubes.....	41	59,889	-2.1	+41.7	1,263,221	-5.6	+76.7	84.0	56.9
<b>Tobacco manufactures</b> .....	239	53,806	-7	-4.0	744,150	+8.4	+2.6	69.1	55.6
Chewing and smoking to-bacco and snuff.....	32	10,042	+1.2	+2.3	143,376	+1.3	+3.8	89.5	77.0
Cigars and cigarettes.....	207	43,764	-1.1	-5.0	600,774	+9.8	+2.3	66.5	53.0
<b>Total, 89 industries</b> .....	18,330	3,362,727	+3.2	+26.3	62,766,612	+2.7	+39.9	73.9	53.3

<sup>1</sup> No change.

## Per Capita Earnings in Manufacturing Industries

PER capita weekly earnings in September 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 September 1933 as compared with August 1933 and September 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 SEPTEMBER 1933 AND COMPARISON WITH AUGUST 1933 AND SEPTEMBER 1932

Industry	Per capita weekly earnings in September 1933	Percent of change compared with—	
		August 1933	September 1932
<b>Food and kindred products:</b>			
Baking.....	\$22.01	+2.6	-3.8
Beverages.....	27.28	-3.9	+9.0
Butter.....	20.23	+1.2	-9.6
Confectionery.....	15.08	+8.1	+2.7
Flour.....	19.78	+3.5	-7.3
Ice cream.....	24.35	-2.3	-9.0
Slaughtering and meat packing.....	19.65	-.2	-3.4
Sugar, beet.....	20.19	+4	-7.6
Sugar refining, cane.....	21.72	-6.6	-14.7
<b>Textiles and their products:</b>			
Fabrics:			
Carpets and rugs.....	18.89	+1.9	+45.0
Cotton goods.....	13.11	-.7	+20.1
Cotton small wares.....	15.58	-1.3	+5.7
Dyeing and finishing textiles.....	17.30	-3.7	-11.5
Hats, fur-felt.....	22.46	+8.3	-1.9
Knit goods.....	15.24	+2.7	+10.0
Silk and rayon goods.....	14.40	-4.7	+11.4
Woolen and worsted goods.....	17.54	+2	+7.5
Wearing apparel:			
Clothing, men's.....	17.11	+7.6	+14.0
Clothing, women's.....	22.39	+46.4	+22.3
Corsets and allied garments.....	15.46	+5	+13.5
Men's furnishings.....	12.96	-3.9	+7.5
Millinery.....	20.43	+16.5	+1.5
Shirts and collars.....	12.26	-.1	+29.7
<b>Iron and steel and their products, not including machinery:</b>			
Bolts, nuts, washers, and rivets.....	18.16	-.3	+33.6
Cast-iron pipe.....	12.81	-7.6	-5.0
Cutlery (not including silver and plated cutlery) and edge tools.....	18.16	-.6	+9.8
Forgings, iron and steel.....	16.97	-11.0	+33.2
Hardware.....	16.61	-2.4	+19.6
Iron and steel.....	19.19	-12.5	+58.7
Plumbers' supplies.....	16.87	+1.3	+11.7
Steam and hot-water heating apparatus and steam fittings.....	18.05	-4.5	+9.4
Stoves.....	18.78	+1.1	+5.0
Structural and ornamental metal work.....	17.58	+3.7	+10.0
Tin cans and other tinware.....	18.68	-1.5	-7.6
Tools (not including edge tools, machine tools, files, and saws).....	18.11	-.4	+16.9
Wirework.....	18.89	-13.7	+16.3
<b>Machinery, not including transportation equipment:</b>			
Agricultural implements.....	16.94	+1.1	+12.7
Cash registers, adding machines, and calculating machines.....	25.27	+1.0	+7.8
Electrical machinery, apparatus, and supplies.....	20.61	-.7	+13.6
Engines, turbines, tractors, and water wheels.....	19.63	+1.1	+7.4
Foundries and machine-shop products.....	18.45	-1.3	+19.2
Machine tools.....	20.79	+3.4	+15.7
Radios and phonographs.....	17.05	(1)	-16.9
Textile machinery and parts.....	21.05	+1.7	+20.4
Typewriters and supplies.....	18.86	+1.4	+38.7
<b>Nonferrous metals and their products:</b>			
Aluminum manufactures.....	16.69	-4.3	+17.8
Brass, bronze, and copper products.....	19.23	-.5	+19.5
Clocks and watches and time-recording devices.....	17.24	+7.5	+15.2
Jewelry.....	18.96	+6.5	+8
Lighting equipment.....	17.81	+1.2	(1)

<sup>1</sup> No change.



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

Industry	Per capita weekly earnings in September 1933	Percent of change compared with—	
		August 1933	September 1932
Nonferrous metals and their products—Continued.			
Silverware and plated ware.....	\$18.94	+3.6	+4.2
Smelting and refining—copper, lead, and zinc.....	18.62	-7.3	-1.7
Stamped and enameled ware.....	16.12	-2.8	-1.3
Transportation equipment:			
Aircraft.....	25.86	-7.0	-16.1
Automobiles.....	21.60	-8.4	+57.4
Cars, electric and steam railroad.....	16.31	-1.8	-4.4
Locomotives.....	17.80	+3.4	-6.2
Shipbuilding.....	21.24	+2.8	-3.2
Railroad repair shops:			
Electric railroad.....	24.57	-1.2	-3.6
Steam railroad.....	23.33	-3.2	+14.1
Lumber and allied products:			
Furniture.....	15.84	+7.0	+11.7
Lumber:			
Millwork.....	14.85	+7.	+4.7
Sawmills.....	14.84	+8.2	+23.7
Turpentine and rosin.....	13.40	+9.1	-1.2
Stone, clay, and glass products:			
Brick, tile, and terra cotta.....	12.69	-2.7	+1.9
Cement.....	16.52	-10.4	-7.3
Glass.....	18.56	+9.	+8.9
Marble, granite, slate, and other products.....	18.75	-2.7	-12.7
Pottery.....	17.33	-1.3	+18.5
Leather and its manufactures:			
Boots and shoes.....	17.87	+2.2	+14.5
Leather.....	19.50	-8.	+4.8
Paper and printing:			
Boxes, paper.....	17.81	+1.1	-.8
Paper and pulp.....	18.83	-3.5	+5.9
Printing and publishing:			
Book and job.....	25.17	+2.9	-4.0
Newspapers and periodicals.....	31.44	+2.1	-7.6
Chemicals and allied products:			
Chemicals.....	22.79	-4.6	-2.8
Cottonseed oil, cake, and meal.....	10.26	-4.8	+5.4
Druggists' preparations.....	19.97	-1.6	+1.5
Explosives.....	20.25	-6.9	+10.1
Fertilizers.....	12.54	+1.9	-6.0
Paints and varnishes.....	20.37	-2.3	-4.6
Petroleum refining.....	26.49	-1.5	-4.6
Rayon and allied products.....	17.38	+3.0	+7.
Soap.....	20.69	+2.2	-10.4
Rubber products:			
Rubber boots and shoes.....	18.00	-5.1	+16.5
Rubber goods, other than boots, shoes, tires, and inner tubes.....	17.16	-1.9	-4.2
Rubber tires and inner tubes.....	21.09	-3.6	+24.6
Tobacco manufactures:			
Chewing and smoking tobacco and snuff.....	14.28	+1.	+1.4
Cigars and cigarettes.....	13.73	+11.0	+7.8
Total, 89 industries.....	18.67	<sup>2</sup> -.6	<sup>2</sup> +10.8

<sup>2</sup> 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 September 1933, together with average indexes for each of the years from 1926 to 1932, and for the 9-month period, January to September 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 September 1933, inclusive.

TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING INDUSTRIES, JANUARY 1926 TO SEPTEMBER 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	73.9	99.3	94.1	95.4	102.6	75.4	56.7	38.1	53.3
October.....	100.7	95.3	95.9	98.4	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	62.2	100.0	96.5	94.5	100.5	81.3	61.5	41.6	41.6

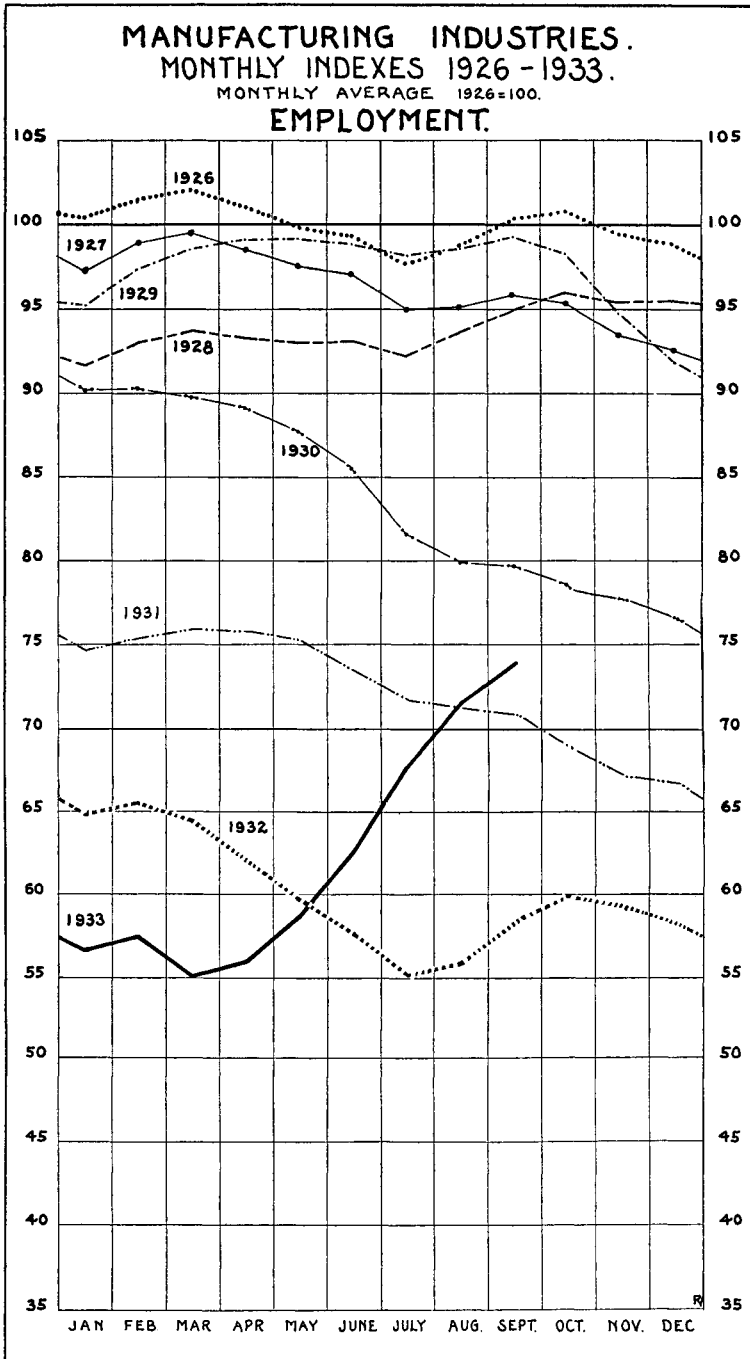
<sup>1</sup> Average for 9 months.

## Time Worked in Manufacturing Industries in September 1933

REPORTS as to working time in September were received from 14,109 establishments in 89 manufacturing industries. Two percent of these establishments were idle, 70 percent operated on a full-time basis, and 28 percent worked on a part-time schedule.

An average of 90 percent of full-time operation in September was shown by reports received from all the operating establishments included in table 4. The establishments working part time in September 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.



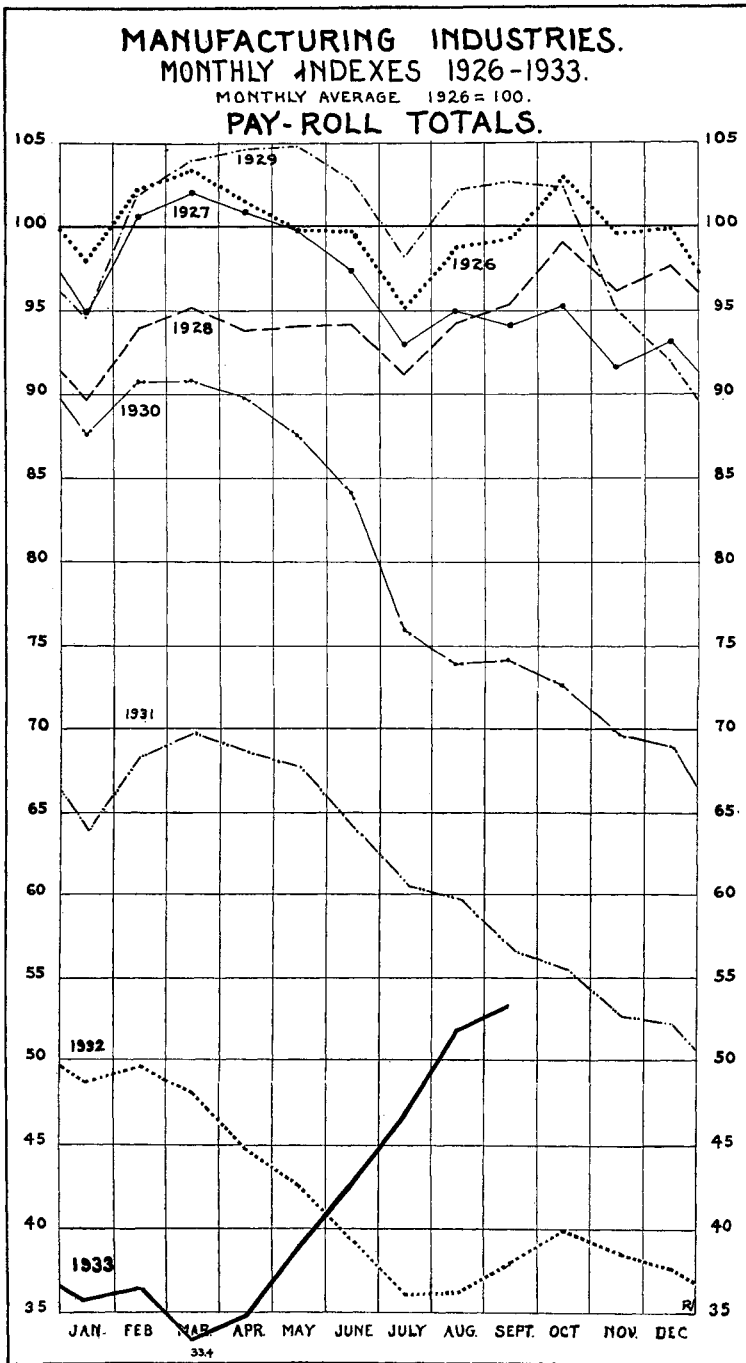


TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN SEPTEMBER 1933

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
<b>Food and kindred products</b> .....	<b>2,454</b>	<b>1</b>	<b>73</b>	<b>26</b>	<b>94</b>	<b>78</b>
Baking.....	843	( <sup>1</sup> )	81	18	97	82
Beverages.....	283		57	43	91	79
Butter.....	240	2	63	35	93	79
Confectionery.....	233	3	72	25	93	74
Flour.....	357	1	73	26	92	70
Ice cream.....	267		70	30	94	79
Slaughtering and meat packing.....	173		77	23	96	84
Sugar, beet.....	48		92	8	99	88
Sugar refining, cane.....	10		60	40	92	79
<b>Textiles and their products</b> .....	<b>2,563</b>	<b>3</b>	<b>84</b>	<b>13</b>	<b>97</b>	<b>73</b>
Fabrics:						
Carpets and rugs.....	16	6	88	6	99	81
Cotton goods.....	585	2	85	13	96	69
Cotton small wares.....	103	2	63	35	91	74
Dyeing and finishing textiles.....	132	2	80	17	94	68
Hats, fur-felt.....	20		35	65	83	74
Knit goods.....	413	1	91	8	98	75
Silk and rayon goods.....	217	7	85	9	97	73
Woolen and worsted goods.....	205	2	92	6	98	72
Wearing apparel:						
Clothing, men's.....	273	2	86	11	97	78
Clothing, women's.....	333	5	87	8	99	73
Corsets and allied garments.....	24		46	54	91	84
Men's furnishings.....	63	8	40	52	88	79
Millinery.....	92	5	80	14	94	63
Shirts and collars.....	87	1	91	8	98	70
<b>Iron and steel and their products, not including machinery</b> .....	<b>1,041</b>	<b>3</b>	<b>49</b>	<b>48</b>	<b>87</b>	<b>74</b>
Bolts, nuts, washers, and rivets.....	58		34	66	81	72
Cast-iron pipe.....	34	24	12	65	81	77
Cutlery (not including silver and plated cutlery) and edge tools.....	108	2	41	57	85	75
Forgings, iron and steel.....	40		38	63	83	73
Hardware.....	76		66	34	91	75
Iron and steel.....	138	9	66	25	91	69
Plumbers' supplies.....	54		41	59	86	76
Steam and hot-water heating apparatus and steam fittings.....	69	1	49	49	82	64
Stoves.....	108	1	61	38	91	76
Structural and ornamental metal-work.....	143	3	55	41	89	75
Tin cans and other tinware.....	55	2	64	35	93	81
Tools (not including edge tools, machine tools, files, and saws).....	108	2	26	72	81	75
Wirework.....	50		42	58	87	77
<b>Machinery, not including transportation equipment</b> .....	<b>1,396</b>	<b>1</b>	<b>61</b>	<b>38</b>	<b>90</b>	<b>73</b>
Agricultural implements.....	43	2	86	12	97	72
Cash registers, adding machines, and calculating machines.....	29		45	55	89	79
Electrical machinery, apparatus, and supplies.....	214	( <sup>1</sup> )	65	35	93	79
Engines, turbines, tractors, and water wheels.....	70	1	36	63	80	74
Foundry and machine-shop products.....	859	1	62	37	89	71
Machine tools.....	110	1	80	39	88	70
Radios and phonographs.....	26		69	31	91	70
Textile machinery and parts.....	36		50	50	90	79
Typewriters and supplies.....	9		44	56	94	90
<b>Nonferrous metals and their products</b> .....	<b>501</b>	<b>1</b>	<b>45</b>	<b>54</b>	<b>87</b>	<b>76</b>
Aluminum manufactures.....	19		21	79	84	79
Brass, bronze, and copper products.....	166	1	52	48	88	76
Clocks and watches and time-recording devices.....	19		11	89	81	79
Jewelry.....	109	1	28	71	86	81
Lighting equipment.....	43		35	65	82	72
Silverware and plated ware.....	46	2	26	72	77	68
Smelting and refining—copper, lead, and zinc.....	36	3	83	14	96	73
Stamped and enameled ware.....	63		73	27	93	74
<b>Transportation equipment</b> .....	<b>317</b>	<b>2</b>	<b>75</b>	<b>23</b>	<b>95</b>	<b>77</b>
Aircraft.....	24		58	42	92	81
Automobiles.....	165	1	92	8	100	77
Cars, electric and steam railroad.....	33	9	12	79	76	72
Locomotives.....	7		43	57	82	68
Shipbuilding.....	88	1	75	24	96	82

<sup>1</sup> Less than one half of 1 percent.

**TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN SEPTEMBER 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
<b>Railroad repair shops.....</b>	<b>723</b>	<b>(1)</b>	<b>45</b>	<b>55</b>	<b>89</b>	<b>80</b>
Electric railroad.....	301		69	31	94	82
Steam railroad.....	422	(1)	28	72	86	80
<b>Lumber and allied products.....</b>	<b>1,244</b>	<b>2</b>	<b>77</b>	<b>21</b>	<b>95</b>	<b>78</b>
Furniture.....	384	2	88	10	98	85
Lumber:						
Millwork.....	348	1	69	30	93	79
Sawmills.....	493	2	77	21	94	73
Turpentine and rosin.....	19	5	16	79	87	84
<b>Stone, clay, and glass products.....</b>	<b>729</b>	<b>13</b>	<b>60</b>	<b>28</b>	<b>92</b>	<b>75</b>
Brick, tile, and terra cotta.....	226	19	61	20	92	68
Cement.....	75	21	67	12	94	59
Glass.....	150	5	81	13	97	77
Marble, granite, slate, and other products.....	179	12	28	60	85	78
Pottery.....	99	4	77	19	96	74
<b>Leather and its manufactures.....</b>	<b>406</b>	<b>3</b>	<b>90</b>	<b>7</b>	<b>98</b>	<b>77</b>
Boots and shoes.....	278	4	92	4	99	72
Leather.....	128	1	85	14	97	81
<b>Paper and printing.....</b>	<b>1,661</b>	<b>(1)</b>	<b>79</b>	<b>20</b>	<b>96</b>	<b>79</b>
Boxes, paper.....	278		77	23	95	76
Paper and pulp.....	346	2	72	27	94	79
Printing and publishing:						
Book and job.....	656	(1)	82	18	96	75
Newspapers and periodicals.....	381	(1)	84	16	98	88
<b>Chemicals and allied products.....</b>	<b>772</b>	<b>1</b>	<b>68</b>	<b>31</b>	<b>94</b>	<b>81</b>
Chemicals.....	55	2	84	15	98	88
Cottonseed oil, cake, and meal.....	53	4	68	28	90	67
Druggists' preparations.....	30		57	43	91	80
Explosives.....	14		29	71	86	81
Fertilizers.....	149	2	96	2	100	84
Paints and varnishes.....	304	1	52	47	91	81
Petroleum refining.....	69	1	84	14	99	91
Rayon and allied products.....	14		100		100	
Soap.....	84		56	44	91	79
<b>Rubber products.....</b>	<b>115</b>	<b>1</b>	<b>45</b>	<b>54</b>	<b>88</b>	<b>77</b>
Rubber boots and shoes.....	5		80	20	98	90
Rubber goods, other than boots, shoes, tires, and inner tubes.....	78	1	27	72	84	78
Rubber tires and inner tubes.....	32		84	16	96	72
<b>Tobacco manufactures.....</b>	<b>187</b>	<b>8</b>	<b>59</b>	<b>33</b>	<b>90</b>	<b>72</b>
Chewing and smoking tobacco and snuff.....	30	3	57	40	93	83
Cigars and cigarettes.....	157	9	59	32	89	70
<b>Total, 89 industries.....</b>	<b>14,109</b>	<b>2</b>	<b>70</b>	<b>28</b>	<b>90</b>	<b>76</b>

<sup>1</sup> Less than one half of 1 percent.

### Employment in Nonmanufacturing Industries in September 1933

**E**MPLOYMENT increased in September as compared with August 1933 in each of the 15 nonmanufacturing industries appearing in the following table. Pay-roll totals increased in all but three of these industries. Data for the building-construction industry are not presented here but are shown in more detail under the section "Building construction."

The increases in employment in these nonmanufacturing industries represent gains ranging from more than 200,000 employees in retail trade to only a slight gain in number of workers in the electric-railroad operation industry. The increase in retail trade reflects a seasonal gain in employment coupled with the effect of the the N.R.A. code.

While increases shown in several of these industries were seasonal, the gains in practically all instances were more pronounced than usual, reflecting increased business activity combined with accessions in number of employees under the various codes.

The increases in employment in September ranged from a pronounced seasonal increase of 55.8 percent in the canning and preserving industry, which reaches its peak of employment in September, to a gain of 0.2 percent in the electric-railroad and motor-bus operation industry. The anthracite-mining industry reported a gain of 19 percent in number of workers coupled with an increase of 30.2 percent in pay rolls reflecting seasonal demands. Retail trade establishments reported an increase of slightly more than 10 percent in employment coupled with a corresponding increase in pay-roll totals. The increases in employment in the remaining 12 industries in the order of their percentage gains were as follows: crude-petroleum producing, 8.9 percent; dyeing and cleaning, 6.7 percent; metalliferous mining, 5.8 percent; bituminous-coal mining, 4.7 percent; wholesale trade, 3 percent; power and light, 2.8 percent; hotels, 2.1 percent; laundries, 1.8 percent; banks-brokerage-insurance-real estate, 0.7 percent; and telephone and telegraph, 0.4 percent.

With the exception of the three industries comprising the public-utility group, each of the nonmanufacturing industries reported more employees on their pay rolls in September 1933 than in September 1932.

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 SEPTEMBER 1933 WITH AUGUST 1933 AND SEPTEMBER 1932

Industrial group	Establishments reporting in both August and September 1933	Employment			Pay-roll totals			Index numbers, September 1933 (average 1929=100)	
		Number on pay roll, September 1933	Percent of change		Amount of pay roll (1 week) September 1933	Percent of change		Employment	Pay-roll totals
			August to September 1933	September 1932 to September 1933		August to September 1933	September 1932 to September 1933		
Coal mining:									
Anthracite.....	158	77,598	+19.0	+1.8	\$2,412,795	+30.2	+29.1	56.8	60.7
Bituminous.....	1,495	218,200	+4.7	+15.1	3,443,759	+1.9	+46.0	71.8	44.1
Metalliferous mining.....	271	25,678	+5.8	+32.8	517,134	+8.8	+40.6	38.9	23.9
Quarrying and nonmetallic mining.....	1,152	35,442	+1.9	+4	516,932	-2.0	-3.9	52.6	29.3
Crude-petroleum producing.....	244	26,304	+8.9	+17.8	692,052	+4.3	+6.0	66.2	44.4
Public utilities:									
Telephone and telegraph.....	8,240	245,724	+4	-11.8	6,290,218	-2.3	-14.9	68.3	64.6
Power and light.....	3,098	201,108	+2.8	-9	5,667,250	+1.3	-3.9	80.3	71.8
Electric-railroad and motor-bus operation and maintenance.....	557	124,331	+2	-5.2	3,293,441	-8	-7.5	69.7	57.8
Trade:									
Wholesale.....	2,947	82,505	+3.0	+6.5	2,119,915	+2.4	-1.3	82.1	62.3
Retail.....	17,549	405,422	+10.1	+10.5	7,931,714	+10.4	+7.1	86.0	69.2
Hotels (cash payments only) <sup>1</sup> .....	2,638	140,362	+2.1	+2.2	1,743,194	+3.1	-5.9	78.7	55.6
Canning and preserving.....	1,021	152,969	+55.8	+40.1	1,835,076	+85.9	+69.1	175.6	127.0
Laundries.....	935	56,815	+1.8	+9	859,513	+5.2	-3.7	79.3	60.6
Dyeing and cleaning.....	344	11,942	+6.7	+6.4	211,131	+14.3	-1.1	88.6	60.3
Banks, brokerage, insurance, and real estate.....	4,538	178,827	+1.7	+2.6	5,800,487	+1	-3.0	99.0	84.5

<sup>1</sup> The additional value of board, room, and tips cannot be computed.

<sup>2</sup> Weighted.

Per capita weekly earnings in September 1933 for 15 nonmanufacturing industries included in the Bureau's monthly trend-of-employment survey, together with the percents of change in September 1933 as compared with August 1933 and September 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 SEPTEMBER 1933 AND COMPARISON WITH AUGUST 1933 AND SEPTEMBER 1932

Industrial group	Per capita weekly earnings in September 1933	Percent of change September 1933 compared with—	
		August 1933	September 1932
Coal mining:			
Anthracite.....	\$31.09	+9.4	+27.0
Bituminous.....	15.78	-2.7	+26.9
Metalliferous mining.....	20.14	+2.9	+5.9
Quarrying and nonmetallic mining.....	14.59	-3.8	-4.3
Crude-petroleum producing.....	26.31	-4.2	-10.1
Public utilities:			
Telephone and telegraph.....	25.60	-2.6	-3.6
Power and light.....	28.18	-1.5	-3.0
Electric-railroad and motor-bus operation and maintenance.....	26.49	-1.0	-2.5
Trade:			
Wholesale.....	25.69	-.6	-7.2
Retail.....	19.56	+3	-3.0
Hotels (cash payments only) <sup>1</sup> .....	12.42	+1.0	-8.1
Canning and preserving.....	12.00	+19.4	+20.7
Laundries.....	15.13	+3.3	-4.5
Dyeing and cleaning.....	17.68	+7.2	-7.0
Banks, brokerage, insurance, and real estate.....	32.44	<sup>2</sup> - .6	<sup>2</sup> -3.5

<sup>1</sup> The additional value of board, room, and tips cannot be computed.

<sup>2</sup> 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 September 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 SEPTEMBER 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	66.6	43.2	98.8	76.1	58.0	30.0	98.4	82.4	62.0	61.2	77.5	54.4	30.7	26.9
June	90.8	75.1	63.0	43.8	94.0	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	88.0	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	56.8	91.6	64.9	47.0	60.7	90.5	80.4	62.4	71.8	74.9	53.6	30.2	44.1
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	49.8	95.3	75.4	53.7	44.0	93.4	83.2	67.4	66.3	81.3	57.5	35.6	34.2
Month	Metalliferous mining								Quarrying and nonmetallic mining							
	Employment				Pay rolls				Employment				Pay rolls			
	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	62.3	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	38.9	69.9	40.0	17.0	23.9	87.7	66.6	52.4	52.6	82.5	51.2	30.5	29.3
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	32.6	78.0	44.8	21.6	18.9	84.3	67.4	49.0	43.2	79.3	53.4	29.1	23.6
Month	Crude-petroleum producing								Telephone and telegraph							
	Employment				Pay rolls				Employment				Pay rolls			
	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	94.1	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	99.8	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	66.2	84.0	55.2	41.9	44.4	96.8	85.0	77.4	68.3	102.2	92.1	75.9	64.6
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	58.2	57.2	---	77.2	54.9	41.7	---	91.6	83.1	74.8	---	101.3	92.7	73.5	---
Average	87.4	65.7	55.3	58.8	85.9	61.7	44.1	41.7	97.9	86.6	79.1	70.9	102.9	93.7	81.1	68.4
Month	Power and light								Electric-railroad and motor-bus operation and maintenance <sup>1</sup>							
	Employment				Pay rolls				Employment				Pay rolls			
	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	94.4	86.4	77.6	69.8	94.4	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	86.0	71.1	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	69.4	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	92.9	84.8	74.1	69.5	92.1	81.9	63.8	58.2
September	105.2	94.7	81.0	80.3	106.1	94.3	74.7	71.8	91.8	84.0	73.5	69.7	90.5	81.2	62.5	57.8
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	104.4	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	---	85.6	77.8	61.9	---
Average	103.0	95.6	83.0	77.7	104.3	96.7	79.8	70.9	93.4	84.7	75.5	69.7	93.5	83.4	68.0	58.7

<sup>1</sup> Average for 9 months.

<sup>2</sup> 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 SEPTEMBER 1933—Continued**

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
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	82.1	93.6	81.4	63.1	62.3	82.0	86.6	77.8	86.0	92.4	83.5	64.6	69.2
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	76.0	95.9	83.6	67.0	58.9	95.9	89.4	80.9	77.1	96.2	86.6	69.4	60.7
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
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	45.7	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	49.7	53.0	36.3	33.2	50.8	50.3	31.9	24.2
April.....	101.1	95.9	82.7	71.9	100.3	89.9	69.6	51.7	74.8	59.6	47.0	49.2	72.6	57.1	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	102.9	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	78.7	97.1	81.9	59.1	55.6	246.6	180.1	125.3	175.6	214.8	129.4	75.1	127.0
October.....	97.5	87.4	75.4	-----	95.5	79.7	58.6	-----	164.7	108.1	81.1	-----	140.0	77.6	61.8	-----
November.....	95.2	84.9	74.3	-----	93.6	77.1	57.5	-----	96.7	60.8	60.5	-----	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	74.3	98.5	85.4	64.5	53.8	103.9	80.9	59.5	68.6	96.1	65.6	42.6	46.5
Month	Laundries						Dyeing and cleaning						Banks, brokerage, insurance, and real estate <sup>2</sup>			
	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
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	98.3	97.5	93.5	85.2
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	98.3	96.8	93.0	84.3
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	98.9	96.5	92.9	83.7
April.....	90.5	82.0	73.4	86.8	71.4	54.0	95.7	83.3	81.1	86.3	65.9	54.6	98.6	96.2	92.1	82.9
May.....	90.3	81.4	73.5	86.5	70.6	54.5	96.7	84.5	82.0	86.6	67.3	53.9	98.0	96.2	92.7	83.2
June.....	91.0	81.0	76.0	87.1	68.6	56.7	99.0	85.1	85.6	89.1	65.8	56.7	97.9	97.3	90.0	84.4
July.....	91.8	80.3	76.3	87.4	66.3	56.1	98.6	82.4	85.9	86.2	60.0	52.8	98.4	97.7	89.8	84.8
August.....	90.2	78.9	77.9	84.6	63.9	57.6	93.5	79.5	83.1	80.0	56.3	52.8	98.5	98.3	88.2	84.4
September.....	89.3	78.6	79.3	81.4	62.9	60.6	95.3	83.3	88.6	82.6	61.0	60.3	98.4	99.0	87.1	84.5
October.....	88.1	77.5	-----	81.8	61.2	-----	94.2	82.3	-----	81.4	58.8	-----	98.6	-----	86.3	-----
November.....	86.2	76.2	-----	78.9	59.1	-----	90.1	78.0	-----	74.7	52.3	-----	98.0	-----	85.7	-----
December.....	85.3	75.9	-----	77.4	58.7	-----	84.9	75.2	-----	67.9	48.4	-----	98.0	-----	85.5	-----
Average.....	89.4	80.1	75.5	84.4	67.0	56.2	92.7	81.4	79.8	80.3	60.5	51.2	98.3	97.3	89.7	84.2

<sup>1</sup> Average for 9 months.

<sup>2</sup> Revised.

## Average Man-Hours Worked and Average Hourly Earnings

**I**N 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 August and September 1933 in 15 industrial groups and 78 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, AUGUST AND SEPTEMBER 1933**

Industrial group	Average hours per week		Average hourly earnings	
	August 1933	September 1933	August 1933	September 1933
	Hours	Hours	Cents	Cents
Manufacturing.....	38.6	36.1	48.3	51.4
Coal mining:				
Anthracite.....	34.2	38.1	83.6	82.1
Bituminous.....	35.0	31.9	48.2	50.1
Metalliferous mining.....	39.5	39.1	49.0	50.8
Quarrying and nonmetallic mining.....	38.7	34.4	40.4	43.3
Crude-petroleum producing.....	41.8	37.8	63.9	68.6
Public utilities:				
Telephone and telegraph.....	38.0	37.1	69.9	69.6
Power and light.....	45.2	42.8	63.1	65.8
Electric-railroad and motor-bus operation and maintenance.....	46.5	45.7	56.8	57.2
Trade:				
Wholesale.....	44.1	42.1	57.0	59.3
Retail.....	40.4	39.6	48.7	49.7
Hotels.....	50.5	50.2	23.0	23.6
Canning and preserving.....	33.1	39.8	32.2	34.4
Laundries.....	40.3	38.8	36.1	38.5
Dyeing and cleaning.....	40.8	41.5	41.7	43.8
Total.....	39.7	38.0	49.3	51.5

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, AUGUST AND SEPTEMBER 1933

Industry	Average hours per week		Average hourly earnings	
	August 1933	September 1933	August 1933	September 1933
<b>Food and kindred products:</b>	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Baking.....	43.0	41.5	47.7	50.3
Beverages.....	44.0	41.3	65.7	67.4
Confectionery.....	35.6	37.5	36.7	38.7
Flour.....	39.9	38.2	47.6	52.2
Ice cream.....	47.0	44.1	53.8	54.4
Slaughtering and meat packing.....	40.7	40.0	48.3	49.8
Sugar, beet.....	48.2	48.0	43.0	43.9
Sugar refining, cane.....	45.1	38.7	49.5	52.3
<b>Textiles and their products:</b>				
Fabrics:				
Carpets and rugs.....	36.3	37.1	47.4	48.2
Cotton goods.....	36.5	35.8	35.8	36.4
Cotton small wares.....	37.5	37.0	42.0	42.3
Dyeing and finishing textiles.....	36.8	35.1	49.0	49.5
Knit goods.....	37.4	36.3	42.2	44.8
Silk and rayon goods.....	36.8	33.9	41.0	42.7
Woolen and worsted goods.....	41.0	37.1	43.3	48.7
<b>Iron and steel and their products, not including machinery:</b>				
Bolts, nuts, washers, and rivets.....	36.3	35.0	46.7	48.1
Cast-iron pipe.....	33.4	28.4	41.8	46.0
Cutlery (not including silver and plated cutlery) and edge tools.....	38.0	37.4	50.0	50.4
Forgings, iron and steel.....	37.1	33.2	51.6	55.4
Hardware.....	37.7	34.3	46.4	50.5
Iron and steel.....	39.6	33.7	55.3	56.8
Plumbers' supplies.....	36.2	34.0	46.6	49.5
Steam and hot-water heating apparatus and steam fittings.....	36.6	33.1	51.6	54.2
Stoves.....	38.7	36.3	47.4	51.2
Structural and ornamental metalwork.....	35.4	33.8	47.7	51.7
Tin cans and other tinware.....	42.9	40.4	44.2	46.4
Tools (not including edge tools, machine tools, files, and saws).....	37.2	35.4	48.6	50.9
Wirework.....	45.0	36.8	49.6	52.3
<b>Machinery, not including transportation equipment:</b>				
Agricultural implements.....	35.1	34.4	47.8	49.5
Cash registers, adding machines, and calculating machines.....	38.3	38.6	66.6	67.0
Electrical machinery, apparatus, and supplies.....	35.2	33.4	56.8	58.7
Engines, turbines, tractors, and water wheels.....	34.7	34.6	56.4	58.7
Foundry and machine-shop products.....	33.6	33.5	55.4	54.6
Machine tools.....	34.3	35.1	57.9	59.0
Radios and phonographs.....	35.6	33.8	46.1	48.9
Textile machinery and parts.....	37.1	36.6	58.5	61.9
Typewriters and supplies.....	34.8	37.1	50.1	51.2
<b>Nonferrous metals and their products:</b>				
Aluminum manufactures.....	38.7	35.5	43.1	46.1
Brass, bronze, and copper products.....	37.9	36.8	50.7	52.0
Clocks and watches and time-recording devices.....	39.5	38.7	40.7	44.8
Jewelry.....	38.7	35.4	42.4	49.1
Lighting equipment.....	36.3	35.9	49.4	50.6
Silverware and platedware.....	37.7	37.7	48.4	49.9
Smelting and refining—copper, lead, and zinc.....	41.6	36.8	48.8	50.1
Stamped and enameled ware.....	41.0	35.5	40.9	45.5

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

Industry	Average hours per week		Average hourly earnings	
	August 1933	September 1933	August 1933	September 1933
<b>Transportation equipment:</b>	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Aircraft.....	43.3	39.0	63.1	66.5
Automobiles.....	37.6	33.3	62.7	65.3
Cars, electric and steam-railroad.....	34.0	32.3	53.3	57.4
Locomotives.....	29.5	29.7	58.7	60.4
Shipbuilding.....	30.5	30.6	61.3	64.2
<b>Railroad repair shops:</b>				
Electric railroad.....	44.5	43.5	55.6	56.2
Steam railroad.....	39.5	37.9	62.5	63.1
<b>Lumber and allied products: Furniture.....</b>	<b>38.7</b>	<b>37.7</b>	<b>38.2</b>	<b>42.1</b>
<b>Lumber:</b>				
Millwork.....	39.7	34.7	37.6	43.0
Sawmills.....	43.0	37.1	33.6	41.6
<b>Stone, clay, and glass products:</b>				
Brick, tile, and terra cotta.....	35.6	32.7	37.2	40.2
Cement.....	36.0	31.5	50.2	52.6
Glass.....	37.0	33.9	48.5	53.6
Marble, granite, slate, and other products.....	33.5	33.7	57.1	57.0
Pottery.....	40.5	38.1	42.5	44.7
<b>Leather and its manufactures: Leather.....</b>	<b>41.8</b>	<b>37.9</b>	<b>44.7</b>	<b>48.6</b>
<b>Paper and printing:</b>				
Boxes, paper.....	41.3	37.8	43.4	46.5
Paper and pulp.....	44.3	39.9	44.3	47.2
Printing and publishing:				
Book and job.....	36.3	35.4	69.9	72.3
Newspapers and periodicals.....	39.2	38.0	76.8	81.2
<b>Chemicals and allied products:</b>				
Chemicals.....	40.9	38.1	57.8	59.6
Cottonseed oil, cake, and meal.....	39.7	41.5	28.8	26.3
Druggists' preparations.....	37.7	38.3	49.8	47.7
Explosives.....	38.8	35.5	58.2	59.9
Fertilizers.....	42.3	40.1	29.3	31.4
Paints and varnishes.....	39.4	37.8	52.1	53.9
Petroleum refining.....	39.9	35.5	63.1	70.6
Rayon and allied products.....	39.5	38.0	45.2	47.1
Soap.....	40.3	39.2	47.1	49.7
<b>Rubber products:</b>				
Rubber goods, other than boots, shoes, tires, and inner tubes.....	35.8	34.5	47.4	49.5
Rubber tires and inner tubes.....	32.4	29.9	65.0	68.1
<b>Tobacco manufactures:</b>				
Chewing and smoking tobacco and snuff.....	38.1	37.6	36.2	37.5
Cigars and cigarettes.....	37.7	38.5	35.1	35.4

### Employment in Building Construction in September 1933

**E**MPLOYMENT in the building-construction industry increased 4.5 percent in September as compared with August and pay rolls increased 5.3 percent over the month interval.

The percents of change of employment and pay-roll totals in September as compared with August are based on returns made by 11,013 firms employing in September 90,730 workers in the various trades in the building-construction industry and whose combined weekly earnings during the pay period ending nearest September 15 were \$1,950,356. 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, AUGUST AND SEPTEMBER 1933**

Locality	Number of firms reporting	Number on pay roll		Percent of change	Amount of pay roll		Percent of change
		Aug. 15	Sept. 15		Aug. 15	Sept. 15	
Alabama: Birmingham.....	77	373	467	+25.2	\$5,539	\$6,795	+22.7
California:							
Los Angeles <sup>1</sup> .....	21	440	419	-4.8	8,423	8,066	-4.2
San Francisco-Oakland <sup>1</sup> .....	35	975	997	+2.3	22,721	23,022	+1.3
Other reporting localities <sup>1</sup> .....	22	881	856	-2.8	16,160	15,211	-5.9
Colorado: Denver.....	202	580	592	+2.1	11,473	11,464	-.1
Connecticut:							
Bridgeport.....	133	584	584	(?)	11,882	11,987	+ .9
Hartford.....	220	1,094	1,158	+5.9	22,871	24,107	+5.4
New Haven.....	182	1,091	1,130	+3.6	24,632	26,799	+8.8
Delaware: Wilmington.....	120	1,020	989	-3.0	18,871	19,452	+3.1
District of Columbia.....	520	9,071	8,659	-4.5	258,776	246,125	-4.9
Florida:							
Jacksonville.....	57	420	544	+29.5	6,897	9,155	+32.7
Miami.....	86	872	1,101	+26.3	13,360	17,346	+29.8
Georgia: Atlanta.....	150	1,197	1,124	-6.1	18,248	16,690	-8.5
Illinois:							
Chicago <sup>1</sup> .....	125	1,167	1,609	+37.9	30,996	50,600	+63.2
Other reporting localities <sup>1</sup> .....	72	664	945	+42.3	13,846	15,317	+10.6
Indiana:							
Evansville.....	54	272	311	+14.3	4,033	4,367	+8.2
Fort Wayne.....	84	296	351	+18.6	4,697	5,947	+26.6
Indianapolis.....	163	1,084	1,161	+7.1	21,555	22,556	+4.6
South Bend.....	37	196	206	+5.1	3,504	3,493	-.3
Iowa: Des Moines.....	104	577	574	-.5	9,816	9,869	+ .5
Kansas: Wichita.....	71	373	342	-8.3	6,189	6,082	-1.7
Kentucky: Louisville.....	129	1,145	1,207	+5.4	19,846	22,658	+14.2
Louisiana: New Orleans.....	131	1,137	1,313	+15.5	17,773	20,356	+14.5
Maine: Portland.....	98	388	405	+4.4	8,003	9,085	+13.5
Maryland: Baltimore <sup>1</sup> .....	112	830	985	+18.7	14,082	18,019	+28.0
Massachusetts: All reporting localities <sup>1</sup> .....	710	4,630	4,643	+ .3	112,012	116,335	+3.9
Michigan:							
Detroit.....	503	4,194	4,766	+13.6	83,495	93,258	+11.7
Flint.....	51	208	231	+11.1	3,621	4,246	+17.3
Grand Rapids.....	110	407	447	+9.8	5,579	7,060	+26.5
Minnesota:							
Duluth.....	51	370	398	+7.6	5,749	5,840	+1.6
Minneapolis.....	214	1,454	1,662	+14.3	29,271	34,436	+17.6
St. Paul.....	172	1,276	1,168	-8.5	26,331	25,895	-1.7
Missouri:							
Kansas City <sup>2</sup> .....	288	1,716	1,691	-1.5	35,116	35,550	+1.2
St. Louis.....	574	3,279	3,218	-1.9	86,770	80,139	-7.6
Nebraska: Omaha.....	148	883	749	-15.2	17,013	14,560	-14.4
New York:							
New York City <sup>1</sup> .....	298	5,327	5,251	-1.4	161,870	151,986	-6.1
Other reporting localities <sup>1</sup> .....	206	5,651	5,799	+2.6	132,659	133,948	+1.0
North Carolina: Charlotte.....	57	345	372	+7.8	4,599	5,386	+17.1
Ohio:							
Akron.....	84	314	366	+16.6	5,130	6,206	+21.0
Cincinnati <sup>1</sup> .....	472	2,364	2,394	+1.3	53,081	55,021	+3.7
Cleveland.....	603	2,702	2,857	+5.7	66,117	71,942	+8.8
Dayton.....	121	580	597	+2.9	10,455	10,776	+3.1
Youngstown.....	76	307	290	-5.5	5,082	4,708	-7.4
Oklahoma:							
Oklahoma City.....	89	462	515	+11.5	7,479	7,821	+4.6
Tulsa.....	53	179	210	+17.3	2,372	3,056	+28.8
Oregon: Portland.....	181	1,005	1,121	+11.5	17,782	22,564	+26.9
Pennsylvania: <sup>3</sup>							
Erie area <sup>1</sup> .....	29	206	355	+72.3	2,322	4,390	+89.1
Philadelphia area <sup>1</sup> .....	496	5,041	5,692	+12.9	86,833	102,427	+18.0
Pittsburgh area <sup>1</sup> .....	1,931	1,954	1,954	+1.2	42,585	51,896	+21.9
Reading-Lebanon area <sup>1</sup> .....	46	238	252	+5.9	3,774	4,136	+9.6
Scranton area <sup>1</sup> .....	34	231	231	(?)	4,741	5,120	+8.0
Other reporting areas <sup>1</sup> .....	338	2,764	3,022	+9.3	42,793	51,949	+21.4
Rhode Island: Providence.....	258	1,561	1,682	+7.8	33,547	35,679	+6.1
Tennessee:							
Chattanooga.....	40	356	356	(?)	5,029	5,570	+10.8
Knoxville.....	51	483	466	-3.5	6,634	6,725	+1.4
Memphis.....	88	471	583	+23.8	6,578	9,449	+43.6
Nashville.....	85	1,255	1,238	-1.4	16,505	16,926	+2.6
Texas:							
Dallas.....	186	1,164	983	-15.5	17,035	15,378	-9.7
El Paso.....	29	156	194	+24.4	1,529	2,129	+39.2
Houston.....	169	1,057	1,147	+8.5	15,481	18,069	+16.7
San Antonio.....	122	755	729	-3.4	10,956	9,713	-11.3

<sup>1</sup> Data supplied by cooperating State bureau.<sup>2</sup> No change.<sup>3</sup> Includes both Kansas City, Mo., and Kansas City, Kans.<sup>1</sup> Includes Covington and Newport, Ky.<sup>2</sup> Each separate area includes from 2 to 8 counties.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN THE **BUILDING-CONSTRUCTION** INDUSTRY IN IDENTICAL FIRMS, AUGUST AND SEPTEMBER 1933—Contd.

Locality	Number of firms reporting	Number on pay roll		Percent of change	Amount of pay roll		Percent of change
		Aug. 15	Sept. 15		Aug. 15	Sept. 15	
Utah: Salt Lake City.....	85	385	408	+6.0	6,894	8,317	+20.6
Virginia:							
Norfolk-Portsmouth.....	92	1,041	1,082	+3.9	19,608	18,877	-3.7
Richmond.....	146	991	1,191	+20.2	18,524	23,381	+26.2
Washington:							
Seattle.....	152	873	861	-1.4	18,068	17,081	-5.5
Spokane.....	54	217	206	-5.1	4,009	4,314	+7.6
Tacoma.....	86	212	200	-5.7	3,662	3,403	-7.1
West Virginia: Wheeling.....	45	162	266	+64.2	2,985	5,338	+78.8
Wisconsin: All reporting localities..	58	925	858	-7.2	16,331	14,888	-8.8
Total, all localities.....	11,013	86,855	90,730	+4.5	1,852,199	1,950,356	+5.3

<sup>1</sup> Data supplied by cooperating State bureau.

### Trend of Employment in September 1933, by States

IN THE following table are shown the fluctuations in employment and pay-roll totals in September 1933 as compared with August 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 August and September 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 AUGUST AND SEPTEMBER 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, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change	Number of establishments	Number on pay roll, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change
Alabama.....	505	64,724	-0.8	\$846,967	-6.1	209	46,105	-2.5	\$587,664	-8.3
Arizona.....	406	8,559	+7.1	188,247	+6.9	53	2,325	+5.1	42,999	+3.9
Arkansas.....	<sup>1</sup> 481	18,406	+10.0	269,666	+14.8	174	13,232	+11.6	174,656	+13.0
California.....	<sup>2</sup> 1,915	295,404	+8.0	6,572,355	+8.0	1,101	179,488	+12.4	3,669,690	+14.9
Colorado.....	813	33,545	+7.8	672,271	+9.4	114	11,923	+2.9	242,345	+7.2
Connecticut.....	1,105	172,273	+4.8	3,356,964	+5.4	649	151,622	+5.0	2,825,046	+6.0
Delaware.....	143	13,137	+12.8	236,122	+5.6	50	8,049	+1.2	156,445	+1.3
Dist. of Columbia.....	617	31,861	+5.4	707,608	+3.0	47	3,128	+5.2	94,727	+6.3
Florida.....	552	22,983	+0.3	386,790	+18.3	124	13,200	+6.6	191,575	+29.7
Georgia.....	650	91,337	-1.3	1,224,148	-2.0	301	77,042	-2.2	948,309	-2.6
Idaho.....	221	8,722	+6.1	166,802	+8.6	40	4,261	+6.4	81,183	+5.5
Illinois.....	<sup>3</sup> 1,752	347,558	+2.8	7,081,200	+1.6	1,108	224,537	+2.7	4,245,164	+1.9
Indiana.....	1,278	146,059	+10.6	2,674,536	+6.1	577	107,406	+7.1	2,012,396	+4.0
Iowa.....	1,179	49,241	+6.6	901,922	+4.2	433	27,584	+3.7	511,481	+4.4
Kansas.....	<sup>4</sup> 1,333	66,545	+4.1	1,638,636	+12.9	445	28,320	+6.9	571,936	+7.7
Kentucky.....	818	69,519	+6.0	1,150,565	+6.0	196	28,796	+6.9	504,574	+8.9
Louisiana.....	481	35,441	+6.3	572,312	+7.4	209	21,493	+4.4	316,666	+8.8
Maine.....	576	54,350	+4.9	933,081	+4.0	184	44,129	+1.8	769,916	+2.7
Maryland.....	<sup>5</sup> 828	91,987	+4.1	1,864,205	+7.8	449	66,146	+5.5	1,295,289	+5.9
Massachusetts.....	<sup>6</sup> 8,045	386,678	+3.2	8,068,900	+3.7	1,134	203,787	+2.6	3,863,123	+3.7
Michigan.....	1,603	311,449	+3.8	6,693,563	-1.8	560	269,661	+3.1	5,755,554	-7.1
Minnesota.....	1,023	71,140	+5.7	1,413,152	+3.2	277	35,080	+12.1	689,062	+5.8
Mississippi.....	362	11,002	+6.6	147,586	+11.9	71	7,661	+8.6	96,562	+17.7
Missouri.....	1,207	120,465	+1.7	2,425,317	+1.6	521	69,283	(?)	1,339,699	+1.8
Montana.....	354	10,227	+1.6	246,738	-1	52	3,000	+5.7	63,780	+1.0
Nebraska.....	699	24,236	+7.8	488,273	+4.0	125	12,395	+10.3	249,143	+6.1
Nevada.....	137	1,665	+3.6	39,758	+1	24	327	+6.9	7,747	-3
New Hampshire.....	508	42,993	+1.5	744,524	-7	187	37,573	+6.9	637,816	-1.1
New Jersey.....	1,546	209,232	+2.7	4,461,138	+1.1	<sup>8</sup> 673	186,906	+1.1	3,825,616	+4.4
New Mexico.....	184	4,175	-18.4	75,764	-4.4	21	232	+1.3	5,447	+1.2
New York.....	8,160	576,676	+5.3	13,844,115	+6.1	<sup>9</sup> 1,786	365,716	+5.9	8,365,579	+7.8
North Carolina.....	899	140,406	+5	1,854,464	+1.9	551	135,811	+4	1,780,671	+2.0
North Dakota.....	334	4,134	+3.4	85,283	-4.4	56	1,120	+3	24,565	+7
Ohio.....	5,053	456,169	+3.3	8,965,065	-1.4	1,918	338,354	+2.0	6,590,547	-2.8
Oklahoma.....	725	29,707	+5.4	569,243	+3.3	131	11,132	+4.6	202,635	+4.2
Oregon.....	701	40,748	+26.6	751,816	+21.8	157	20,332	+8.1	382,599	+11.8
Pennsylvania.....	4,978	675,689	+6.2	13,613,738	+6.4	1,735	394,732	+6.6	6,916,381	+1.9
Rhode Island.....	911	62,981	-4.7	1,207,518	-4.5	262	50,651	-4.0	913,598	-6.4
South Carolina.....	316	59,701	-3	759,356	+5	176	56,398	-8	706,971	+2
South Dakota.....	261	6,135	+3.6	137,908	+1.4	48	2,132	+1.2	39,102	+2.4
Tennessee.....	728	70,708	+1.9	1,069,803	+3.4	260	53,163	+1.5	772,656	+3.2
Texas.....	798	66,092	+5.8	1,447,801	+5.0	384	38,510	+5.0	788,963	+5.8
Utah.....	344	14,969	+8.2	281,995	+10.1	84	4,708	+10.0	91,848	+8.3
Vermont.....	382	11,049	+5	208,532	+2.1	118	6,294	+1	117,759	+6
Virginia.....	1,284	95,035	+5.3	1,578,486	+6.4	407	68,059	+6.2	1,097,777	+9.0
Washington.....	1,118	64,760	+14.4	1,265,235	+8.7	254	32,259	+8.2	629,685	+4.9
West Virginia.....	867	113,868	+6.7	2,062,016	-1	177	45,154	+6.9	853,978	+1.0
Wisconsin.....	<sup>10</sup> 1,052	155,047	+3.0	2,698,148	+9	778	124,199	+4.7	2,098,629	+3.0
Wyoming.....	191	5,869	+4.0	139,274	+6.3	29	1,346	+2.0	35,460	-2.0

<sup>1</sup> Includes automobile dealers and garages, and sand, gravel, and building construction.

<sup>2</sup> Includes banks, insurance, and office employment.

<sup>3</sup> Includes building and contracting.

<sup>4</sup> Includes transportation, financial institutions, restaurants, theaters, and building construction.

<sup>5</sup> Weighted percent of change.

<sup>6</sup> Includes construction, municipal, agricultural, and office employment, amusement and recreation, professional, and transportation services.

<sup>7</sup> Less than one tenth of 1 percent.

<sup>8</sup> Includes laundries.

<sup>9</sup> Includes laundering and cleaning.

<sup>10</sup> Includes construction but does not include hotels and restaurants.



**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS IN AUGUST AND SEPTEMBER 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, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change	Number of establishments	Number on pay roll, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change
Alabama.....	14	283	+7.6	\$5,718	+5.4	60	1,955	+9.3	\$33,493	+8.8
Arizona.....	19	170	—6	4,378	—1.6	184	1,719	+8.1	29,732	+6.4
Arkansas.....	16	576	+28.3	14,135	+25.4	130	1,486	+1.3	23,380	+2.6
California.....	102	5,577	+2.2	151,948	+2.1	124	27,888	+7.1	676,696	+5.6
Colorado.....	28	967	+1.4	26,351	+1.8	277	4,597	+9.3	87,679	+6.9
Connecticut.....	57	1,402	+3.1	36,108	+1.8	119	5,155	+8.2	102,280	+6.5
Delaware.....	8	117	+1.7	2,331	—2.5	9	178	+2.3	2,803	+4.2
Dist. of Columbia.....	28	387	—8	11,159	—1.7	405	12,118	+10.7	239,173	+9.8
Florida.....	49	788	+5.6	17,631	+1.8	77	1,227	+13.1	21,760	+11.5
Georgia.....	31	457	+6.0	12,768	+5.3	29	2,200	+8.5	36,533	+7.0
Idaho.....	8	122	+3.4	3,216	+1.3	68	880	+8.8	13,463	+5.7
Illinois.....	47	2,314	+6.8	54,551	+8.9	142	23,795	+2.4	478,967	+4
Indiana.....	57	1,163	+1.7	28,244	+1.9	180	6,794	+12.4	118,783	+14.4
Iowa.....	37	1,183	+2.3	28,259	+1.8	120	3,331	+3.6	57,877	+7.9
Kansas.....	79	2,014	+2.1	49,005	+6.7	458	6,484	+7.2	117,727	+9.2
Kentucky.....	19	416	+3.2	8,834	+9	28	1,490	+10.5	25,122	+7.8
Louisiana.....	29	737	+3	16,507	+3.0	23	3,394	+8.5	52,726	+14.4
Maine.....	19	471	—2	11,010	—1.8	67	1,005	+5.1	19,164	+3.1
Maryland.....	32	739	+1.3	16,714	+3.2	39	6,638	+11.6	118,635	+14.2
Massachusetts.....	706	15,228	+3.0	394,548	+3.2	4,188	64,843	+7.3	1,276,704	+7.1
Michigan.....	61	1,597	+6	42,883	+1.3	156	11,772	+17.1	215,888	+13.7
Minnesota.....	56	4,366	+2.5	112,808	+2.7	246	7,574	+11.7	136,363	+14.7
Mississippi.....	4	65	( <sup>n</sup> )	1,309	+2.5	47	466	+9.6	5,050	+17.3
Missouri.....	59	4,811	+3.5	121,008	+4.2	101	9,674	+11.7	184,817	+12.8
Montana.....	15	257	+2.0	7,147	+1.6	82	895	+8.7	18,351	+5.1
Nebraska.....	34	962	+1.7	24,719	+2.1	157	1,824	+8.4	32,904	+10.1
Nevada.....	7	106	+6.0	3,148	+4.0	39	256	+4	5,975	—8
New Hampshire.....	16	184	+1.1	4,691	+1.1	72	945	+8.2	14,178	+13.7
New Jersey.....	25	636	+7.3	17,848	+6.8	408	7,908	+20.0	172,732	+19.9
New Mexico.....	6	84	+9.1	2,977	+12.6	49	267	—3.6	6,232	+2.6
New York.....	426	11,164	+2.1	332,291	+2.4	4,101	74,793	+16.2	1,577,199	+17.8
North Carolina.....	15	170	+3.0	3,450	+3.5	158	621	+8.0	13,723	+7.4
North Dakota.....	14	225	+5.6	6,005	+5	10	211	+18.5	3,210	+24.3
Ohio.....	232	5,181	+2.1	126,750	+2.1	1,573	35,620	+8.8	683,384	+9.6
Oklahoma.....	48	943	+10.8	19,126	+1.1	88	1,491	+10.4	25,910	+11.6
Oregon.....	53	1,304	+2.5	32,750	+1.1	195	2,398	+4.5	49,215	+11.2
Pennsylvania.....	124	3,751	+2.3	98,330	+4	337	28,028	+10.8	547,696	+11.7
Rhode Island.....	43	1,140	+1.7	27,050	+5.9	489	4,865	+3.6	104,982	+4.1
South Carolina.....	13	181	+5.2	4,341	+4.1	14	497	+6.4	5,275	+25.4
South Dakota.....	10	131	+4.8	3,254	+1.2	7	84	+5.0	1,433	—5
Tennessee.....	33	843	+8.1	17,312	+7.3	53	3,597	+8.5	56,701	+7.6
Texas.....	141	3,116	+4.2	75,824	+4.9	70	6,104	+6.0	107,418	+8.2
Utah.....	13	481	+4.1	11,362	+5.3	76	573	+2.3	12,918	+3.4
Vermont.....	4	98	—6.7	2,450	—3.4	38	468	+5.2	7,202	+7.6
Virginia.....	44	1,176	+14.1	27,038	+6.3	474	5,091	+5.8	96,070	+10.0
Washington.....	90	2,301	+3.8	58,191	+3.6	368	6,909	+13.2	129,687	+14.6
West Virginia.....	28	638	+3.9	16,705	+2.3	52	906	+6.1	15,516	+12.1
Wisconsin.....	46	2,017	+4.7	43,636	—1.1	51	10,289	+2.2	149,512	+11.4
Wyoming.....	8	64	+3.2	1,763	+3.5	38	230	+1.3	5,230	+3.6

<sup>n</sup> No change.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL ESTABLISHMENTS** IN AUGUST AND SEPTEMBER 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, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change	Number of establishments	Number on pay roll, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change
Alabama.....	17	596	-7.2	\$5,547	-11.2	9	1,623	+9.8	\$25,937	+8.7
Arizona.....	3	64	+18.5	805	+12.4	18	1,943	+10.6	42,633	+18.2
Arkansas.....	9	375	+3.9	4,794	+14.3	—	—	—	—	—
California.....	38	1,147	+9.3	20,860	+5.1	54	2,778	+5.5	64,851	+6.5
Colorado.....	4	35	-10.3	585	-5	17	1,073	+12.9	24,950	+8.2
Connecticut.....	26	406	+24.5	6,173	+5.0	—	—	—	—	—
Delaware.....	3	62	+40.9	827	+73.7	—	—	—	—	—
Dist. of Columbia.....	—	—	—	—	—	—	—	—	—	—
Florida.....	16	841	+17.5	9,661	+3.4	—	—	—	—	—
Georgia.....	24	1,113	-4.6	10,109	-12.8	—	—	—	—	—
Idaho.....	—	—	—	—	—	7	2,013	+1.6	46,635	+21.1
Illinois.....	26	938	-7.2	15,894	-3.7	—	—	—	—	—
Indiana.....	63	1,604	+5.0	25,688	+12.2	—	—	—	—	—
Iowa.....	29	553	+22.9	7,258	+13.4	—	—	—	—	—
Kansas.....	24	1,370	+12.6	22,974	-4.6	11	992	+14.9	17,370	+10.6
Kentucky.....	35	955	-12.5	9,896	-5.5	—	—	—	—	—
Louisiana.....	13	720	+7.0	9,536	+6.5	—	—	—	—	—
Maine.....	10	249	+41.5	5,220	+56.9	—	—	—	—	—
Maryland.....	15	281	-8.8	3,652	-1.1	—	—	—	—	—
Massachusetts.....	24	517	-4.8	10,853	-4.1	—	—	—	—	—
Michigan.....	48	1,588	+4.9	26,544	+5.1	34	3,028	+1	43,516	+6.1
Minnesota.....	18	265	+6.4	4,052	-11.1	25	1,316	+36.0	26,620	+59.8
Mississippi.....	7	130	+41.3	1,720	+119.7	—	—	—	—	—
Missouri.....	48	1,139	-7.4	15,825	-6.6	15	1,734	+2.2	21,558	+9.9
Montana.....	9	142	-10.1	2,185	-11.8	17	2,302	+6.1	64,884	+6.1
Nebraska.....	11	244	+22.6	3,009	+20.6	—	—	—	—	—
Nevada.....	5	—	—	—	—	11	342	+4.3	8,080	+7
New Hampshire.....	11	103	+18.4	2,153	+5.5	—	—	—	—	—
New Jersey.....	39	681	+7.4	11,658	+4.4	3	9	-18.2	225	+4.7
New Mexico.....	—	—	—	—	—	5	941	-2.3	17,292	-5.3
New York.....	78	2,158	-2.2	38,642	-10.9	—	—	—	—	—
North Carolina.....	12	211	-2.7	1,953	-9.2	—	—	—	—	—
North Dakota.....	—	—	—	—	—	—	—	—	—	—
Ohio.....	132	3,786	+1.8	55,471	+8	—	—	—	—	—
Oklahoma.....	18	204	+7.9	1,593	+8.9	32	1,687	+1.5	24,895	-10.1
Oregon.....	3	31	+10.7	453	+3.0	6	58	-13.4	1,005	-9.8
Pennsylvania.....	168	6,114	-2	81,332	-13.1	—	—	—	—	—
Rhode Island.....	—	—	—	—	—	—	—	—	—	—
South Carolina.....	4	104	-1.0	1,165	+20.6	—	—	—	—	—
South Dakota.....	8	64	+30.6	876	+6.1	—	—	—	—	—
Tennessee.....	24	1,210	-4.8	14,131	-10.9	4	300	+13.2	5,623	+14.5
Texas.....	22	690	+19.6	12,189	+8.8	—	—	—	—	—
Utah.....	3	70	-12.5	1,001	+16.7	12	2,026	+1.4	37,113	+7.7
Vermont.....	38	2,211	+4.5	42,051	+9.1	—	—	—	—	—
Virginia.....	28	1,448	-3.5	14,539	-6.4	—	—	—	—	—
Washington.....	16	191	-9.9	2,991	-3.5	—	—	—	—	—
West Virginia.....	25	929	+10.2	12,722	-1.5	—	—	—	—	—
Wisconsin.....	14	171	-15.8	2,418	-14.6	(15)	359	+6.8	6,819	+20.0
Wyoming.....	—	—	—	—	—	—	—	—	—	—

<sup>15</sup> Not available.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS IN AUGUST AND SEPTEMBER 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, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change	Number of establishments	Number on pay roll, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change
Alabama.....	56	10,229	+2.7	\$127,681	-5.2					
Arizona.....										
Arkansas.....	5	86	-29.5	2,752	-23.5	9	444	+7.2	\$9,642	+10.1
California.....						39	7,059	+8.8	203,443	+6.0
Colorado.....	50	4,564	+25.4	77,266	+57.0					
Connecticut.....										
Delaware.....										
Dist. of Columbia.....										
Florida.....										
Georgia.....										
Idaho.....										
Illinois.....	36	7,550	+17.9	126,316	+10.1	7	138	-7	2,430	-2.9
Indiana.....	53	5,836	+2.7	102,548	+7	3	18	+12.5	168	+41.2
Iowa.....	20	1,253	+11.2	15,290	-29.2					
Kansas.....	21	1,146	-3.4	16,631	+6.0	26	1,233	+6.3	26,333	+1
Kentucky.....	156	26,908	+5.0	393,829	+5.4	5	228	-1.3	2,687	-6.7
Louisiana.....						9	200	+35.1	4,027	+18.9
Maine.....										
Maryland.....	16	1,324	+8.4	17,109	-11.1					
Massachusetts.....										
Michigan.....										
Minnesota.....										
Mississippi.....										
Missouri.....	21	1,655	+3.0	21,360	+15.9					
Montana.....	10	713	+11.9	19,296	-2.5	3	26	+4.0	577	-17.5
Nebraska.....										
Nevada.....										
New Hampshire.....										
New Jersey.....										
New Mexico.....	14	1,338	-42.6	22,109	-14.1	4	52	+20.9	1,495	+16.5
New York.....						4	154	+19.4	3,229	+19.9
North Carolina.....										
North Dakota.....	9	468	+7.8	9,485	+34.4					
Ohio.....	85	13,246	+4.5	198,096	-13.8	5	66	+22.2	661	+16.2
Oklahoma.....	19	739	+2.4	13,375	+9.3	61	5,014	+9.6	117,450	+7.3
Oregon.....										
Pennsylvania.....	454	66,921	+3.7	1,006,652	+5.5	17	378	+13.5	8,120	+5.7
Rhode Island.....										
South Carolina.....										
South Dakota.....										
Tennessee.....	20	2,892	-7	39,169	+5.7					
Texas.....	5	348	+1.8	7,218	+16.7	3	8,386	+8.3	268,377	+4.2
Utah.....	19	1,672	+18.8	41,287	+39.0					
Vermont.....										
Virginia.....	36	7,976	-4.7	122,825	-10.6					
Washington.....	10	355	-2.2	7,259	-17.7					
West Virginia.....	346	57,108	+6.5	966,848	-1.8	6	299	-7.4	6,901	-10.0
Wisconsin.....										
Wyoming.....	33	3,241	+5.0	75,670	+10.9	5	151	+38.5	3,633	+51.1

## COMPARISON OF EMPLOYMENT AND PAY ROLL IN IDENTICAL ESTABLISHMENTS IN AUGUST AND SEPTEMBER 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, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change	Number of establishments	Number on pay roll, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change
Alabama.....	88	1,644	+1.0	\$31,894	-2.0	24	1,059	+2.7	\$8,459	+6.8
Arizona.....	67	1,304	+6.2	30,737	+2	18	391	+8.3	5,218	+4.9
Arkansas.....	68	1,706	+3.3	41,016	+6.0	12	658	+10.7	4,488	+8.1
California.....	43	41,922	-5	1,115,251	-3.4	183	9,188	+2.3	138,992	+5.8
Colorado.....	196	5,254	-3	130,330	-9	59	1,309	-2.5	16,927	-1.3
Connecticut.....	135	9,343	+6	284,634	+5	31	1,174	+3.5	14,715	+1.6
Delaware.....	28	1,058	-1.4	29,030	-2.6	5	243	-1.6	3,209	+5
Dist. of Columbia.....	22	8,337	+1.2	220,087	-4.5	49	3,867	+3.6	53,021	+4.2
Florida.....	185	4,705	+17.9	112,010	+11.5	55	953	-3	8,981	+2.2
Georgia.....	186	6,342	+1.5	164,965	-2.1	27	1,088	-1.5	8,303	+6
Idaho.....	56	689	+3	13,257	-3.1	21	359	+9.8	3,945	+7.0
Illinois.....	80	67,942	+9	1,822,630	-2.2	12 61	11,909	+2.3	175,669	+3.7
Indiana.....	132	9,078	+3.4	212,367	+2.4	85	3,151	+4.1	31,363	+5.4
Iowa.....	421	9,210	+2.2	198,740	-1.1	67	2,485	+5.8	20,825	+7.0
Kansas.....	143	7,277	+2.3	166,037	+2.4	32	658	+1.2	6,759	+4.6
Kentucky.....	293	6,274	+2.7	138,201	-9	36	1,780	+4.2	17,492	+2.8
Louisiana.....	151	5,443	+1.5	131,453	+5	22	1,812	+2.1	18,740	+3.9
Maine.....	168	2,370	+3.7	61,720	+8	35	1,725	-1	20,650	+1.3
Maryland.....	94	12,011	+1.0	345,841	+7.0	24	1,132	+5.9	13,404	+6.6
Massachusetts.....	131	45,521	+1.5	1,277,277	+2.6	92	5,137	+1.5	69,001	+4.0
Michigan.....	412	20,278	+7	572,421	+2.2	104	4,850	+1.5	52,255	+3.8
Minnesota.....	228	12,523	+3.5	304,453	-2	76	3,095	+3.5	35,614	+6.2
Mississippi.....	190	1,644	+3.5	31,470	-1.8	16	446	-10.6	3,186	-7.7
Missouri.....	204	19,132	+5	477,063	-2.1	92	4,360	-2	49,702	+1.0
Montana.....	101	1,793	-1.3	51,222	-2.1	25	405	-3.6	5,450	-1.4
Nebraska.....	290	5,617	+1.5	133,004	-2.3	42	1,343	+7.2	12,906	+7.9
Nevada.....	37	365	+3	9,932	-1.4	13	194	+7.2	3,227	+2.1
New Hampshire.....	140	2,080	+4	55,230	-2.5	25	1,353	+20.3	14,714	+13.7
New Jersey.....	265	21,195	+5	591,279	-6	86	5,484	-6.0	58,945	-6.9
New Mexico.....	49	602	+4.5	10,787	-3	15	358	+6.5	3,653	+3.5
New York.....	874	96,252	+2	2,914,929	-3	271	30,983	+3.7	451,454	+4.5
North Carolina.....	87	1,534	+3.4	31,228	-1.7	35	1,121	+1.2	9,346	+7
North Dakota.....	171	1,219	+3.7	28,335	+9	25	404	+1.3	4,015	+2.9
Ohio.....	489	31,318	+7	791,381	-1.4	160	8,466	+9	98,599	+3.2
Oklahoma.....	244	5,836	+2.9	124,996	-4	50	1,153	+5.6	11,283	+5.7
Oregon.....	183	5,507	+2.3	134,698	-5	61	1,223	+5.7	14,735	+6.8
Pennsylvania.....	695	45,650	+9	1,208,430	-1.4	178	9,335	+4	111,041	+3.0
Rhode Island.....	42	3,258	-2.4	90,540	-2.7	21	572	+3.4	6,407	-3.0
South Carolina.....	70	1,650	+10.0	31,881	+ (?)	12	214	+2.9	1,405	+4.8
South Dakota.....	129	990	+5.5	23,699	+3.2	18	301	+7	3,572	+2.7
Tennessee.....	244	4,251	+1.8	95,334	+1.8	36	2,128	+1.0	17,776	+1.4
Texas.....	134	6,175	+1.1	158,028	+4	44	3,111	+5.7	36,408	+6.1
Utah.....	68	1,870	+4.1	37,374	-2.3	12	476	+7.2	5,683	+2.9
Vermont.....	122	1,051	+6.9	25,185	+3.0	24	564	-15.4	5,472	-18.1
Virginia.....	179	5,713	+1.5	135,343	+4	33	1,848	+4.7	19,374	+5.7
Washington.....	198	9,471	+8	244,979	-3.9	81	2,476	+2.7	27,377	+3.6
West Virginia.....	120	6,098	+9.3	146,498	+3.4	36	1,037	(1)	10,775	+6
Wisconsin.....	14 41	10,637	+2.4	288,752	+9	12 43	1,340	-7	(15)	-----
Wyoming.....	48	449	+3.7	9,943	-3.7	9	90	+2.3	1,164	+2.5

<sup>1</sup> Less than one tenth of 1 percent.

<sup>11</sup> No change.

<sup>12</sup> Includes restaurants.

<sup>13</sup> Includes steam railroads.

<sup>14</sup> Includes railways and express.

<sup>15</sup> Not available.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS IN AUGUST AND SEPTEMBER 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, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change	Number of establishments	Number on pay roll, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change
Alabama.....	4	427	-4.0	\$3,839	+9.0	3	133	+7.3	\$1,304	+5.6
Arizona.....	10	372	+2.2	5,090	+8.0	-----	-----	-----	-----	-----
Arkansas.....	<sup>13</sup> 17	388	-2.3	3,551	-4.3	-----	-----	-----	-----	-----
California.....	<sup>16</sup> 67	5,424	+1.1	95,497	+2.4	-----	-----	-----	-----	-----
Colorado.....	10	744	+8	10,618	+3.3	11	196	+5.9	3,441	+7.5
Connecticut.....	24	984	+2.1	15,859	+4.5	7	198	+4.2	4,324	+10.1
Delaware.....	4	313	-1.6	5,176	+3.7	-----	-----	-----	-----	-----
Dist. of Columbia.....	20	2,554	+2.4	38,676	+5.8	5	135	+4.7	2,358	+3.6
Florida.....	10	489	+6.8	4,825	+10.8	7	52	-5.5	859	+4.1
Georgia.....	11	654	-1.2	6,343	+4.4	3	91	+8.3	1,053	+8.4
Idaho.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Illinois.....	<sup>16</sup> 27	1,954	-4.2	27,006	-4.5	-----	-----	-----	-----	-----
Indiana.....	17	1,388	-8	19,271	+3.7	12	212	+5.5	3,551	+14.3
Iowa.....	5	228	-1.3	3,256	+4.1	7	286	+2.1	4,667	+7.3
Kansas.....	<sup>16</sup> 40	879	+3.5	10,913	+11.4	-----	-----	-----	-----	-----
Kentucky.....	15	773	+1.8	9,974	+10.3	4	156	+3.3	2,427	+8.0
Louisiana.....	3	115	-9	952	+15.0	3	57	-6.6	680	+14.7
Maine.....	17	428	-2	6,251	+1.2	-----	-----	-----	-----	-----
Maryland.....	24	1,834	+2.2	29,224	+6.2	10	395	-2.0	5,397	+4.3
Massachusetts.....	<sup>113</sup> 113	3,719	-1.2	59,828	+1	77	1,928	+12.4	55,916	+22.4
Michigan.....	22	1,371	+2.1	18,898	+10.5	16	594	+3.7	11,052	-16.8
Minnesota.....	13	708	+6.3	11,044	+9.1	9	418	+8.9	7,174	+13.3
Mississippi.....	5	260	+6.6	2,740	+12.6	-----	-----	-----	-----	-----
Missouri.....	30	2,374	+2.3	32,366	+7.9	14	498	+7.1	8,879	+15.6
Montana.....	14	329	-1.2	5,423	-( <sup>7</sup> )	3	22	+4.8	494	+9.1
Nebraska.....	7	534	-4.8	7,620	-2	3	100	+19.0	1,668	+26.7
Nevada.....	3	38	+2.7	667	-2.3	-----	-----	-----	-----	-----
New Hampshire.....	12	249	-7.8	3,884	-5.5	-----	-----	-----	-----	-----
New Jersey.....	26	3,228	+1.7	61,885	+5.1	7	222	+2.8	5,553	+8.9
New Mexico.....	4	209	+8.3	3,078	+7.2	-----	-----	-----	-----	-----
New York.....	70	7,367	+3.2	124,155	+7.6	13	451	-2.2	8,732	+( <sup>7</sup> )
North Carolina.....	9	525	+1.4	5,386	+8.6	3	66	+4.8	813	+26.2
North Dakota.....	10	194	+2.1	2,799	+1.0	-----	-----	-----	-----	-----
Ohio.....	77	4,197	+4	61,599	+5.5	44	1,683	+1.8	29,920	+8.8
Oklahoma.....	9	715	+6.1	9,145	+7.3	3	78	( <sup>11</sup> )	970	+3.4
Oregon.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pennsylvania.....	40	2,887	+1	44,452	+5.0	13	845	+13.4	14,694	+44.3
Rhode Island.....	9	1,166	+2.3	19,810	+5.3	5	367	+3	6,395	+5.4
South Carolina.....	18	433	-13.6	4,185	+25.4	-----	-----	-----	-----	-----
South Dakota.....	7	128	( <sup>11</sup> )	1,743	+2.8	-----	-----	-----	-----	-----
Tennessee.....	12	888	+3.1	8,006	+15.5	3	50	+28.2	651	+29.4
Texas.....	23	1,351	+5.2	15,681	+11.9	14	420	+4.2	6,922	+1.8
Utah.....	7	489	-2.6	6,863	-5	7	126	+2.4	2,149	+11.2
Vermont.....	3	40	+5.3	462	+11.6	-----	-----	-----	-----	-----
Virginia.....	11	837	+11.6	10,041	+22.1	17	262	+7.2	3,525	+2.8
Washington.....	11	489	+6	8,816	+3.2	10	105	+10.5	1,836	+14.1
West Virginia.....	20	710	+1.4	9,026	+6.7	9	219	+7.9	2,926	+7.8
Wisconsin.....	<sup>16</sup> 28	991	+1.7	13,214	+10.8	-----	-----	-----	-----	-----
Wyoming.....	6	98	-1.0	1,605	+3.5	-----	-----	-----	-----	-----

<sup>7</sup> Less than one tenth of 1 percent.

<sup>11</sup> No change.

<sup>16</sup> Includes dyeing and cleaning.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS IN AUGUST AND SEPTEMBER 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, September 1933	Percent of change	Amount of pay roll (1 week), September 1933	Percent of change
Alabama.....	18	474	+0.2	\$13,548	+0.9
Arizona.....	31	214	(11)	5,628	-9
Arkansas.....	18	236	+1.3	5,642	+3.1
California.....	1,146	23,652	-1	768,550	-5
Colorado.....	28	1,077	-3	35,104	+1.1
Connecticut.....	56	1,856	-2	66,287	-3
Delaware.....	17	573	-7	19,771	+1
Dist. of Columbia.....	41	1,335	+6	48,407	+6
Florida.....	18	564	-1.1	17,339	-2.8
Georgia.....	25	1,019	+1.8	29,455	+2
Idaho.....	16	140	-2.8	3,404	-1.0
Illinois.....	94	10,790	+2	361,704	-1.4
Indiana.....	38	1,201	-1.0	39,069	-1.3
Iowa.....	17	989	-2	31,304	-6
Kansas.....	31	749	+5.8	23,189	+4.4
Kentucky.....	21	837	-7	30,127	+1.4
Louisiana.....	9	370	(11)	13,586	+1.8
Maine.....	15	245	-2.0	6,380	-13.5
Maryland.....	24	856	-5	31,634	+7
Massachusetts.....	223	7,969	-7	246,704	+7
Michigan.....	96	3,979	+1.7	120,763	-2.5
Minnesota.....	53	3,330	+10.3	88,334	+4.1
Mississippi.....	16	181	(11)	3,928	+5.1
Missouri.....	86	4,737	-5	143,395	+1.2
Montana.....	21	244	+8	6,900	-6.4
Nebraska.....	17	504	+2.6	17,267	+3
Nevada.....					
New Hampshire.....	38	471	+4	11,313	-2.1
New Jersey.....	108	12,439	-2	352,847	-(7)
New Mexico.....	16	86	(11)	2,546	+2
New York.....	720	53,514	-6	1,852,914	-3
North Carolina.....	28	322	+1.3	7,644	+3.9
North Dakota.....	36	262	+8	6,391	-1.4
Ohio.....	275	8,026	-2.7	260,750	-4
Oklahoma.....	20	597	+2.1	17,503	-1.7
Oregon.....	14	757	-3	25,999	+15.9
Pennsylvania.....	805	25,189	+9	790,304	-5
Rhode Island.....	28	925	+4	38,124	+3.0
South Carolina.....	11	110	+2.8	3,201	+3.6
South Dakota.....	32	244	-2.4	5,834	-1.5
Tennessee.....	31	1,125	+6	38,348	+5
Texas.....	22	1,297	-2	37,352	+4
Utah.....	14	463	+2	10,388	+2.6
Vermont.....	30	233	-9.7	6,726	-1.4
Virginia.....	32	1,353	+1.7	43,612	+2.2
Washington.....	33	1,425	+4.9	44,024	+2.1
West Virginia.....	46	690	+2.4	19,547	+1.4
Wisconsin.....	17	921	+1.3	31,108	+2
Wyoming.....	11	99	(11)	3,015	+3.0

<sup>7</sup> Less than one tenth of 1 percent.

<sup>11</sup> No change.

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

IN THE following table are presented the fluctuations in employment and pay-roll totals in September 1933 as compared with August 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 SEPTEMBER 1933 AS COMPARED WITH AUGUST 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
		August 1933	September 1933		August 1933	September 1933	
New York City.....	5,191	318,344	338,437	+6.3	\$8,397,766	\$9,013,332	+7.3
Chicago, Ill.....	1,830	234,978	240,708	+2.4	5,538,992	5,594,171	+1.0
Philadelphia, Pa.....	827	131,236	139,180	+6.1	2,898,703	3,047,543	+5.1
Detroit, Mich.....	514	180,929	189,250	+4.6	4,350,336	4,330,963	-0.4
Los Angeles, Calif.....	810	67,901	72,499	+6.8	1,606,169	1,708,222	+6.4
Cleveland, Ohio.....	1,129	96,567	100,606	+4.2	2,060,997	2,086,643	+1.2
St. Louis, Mo.....	515	73,224	73,569	+0.5	1,559,851	1,573,526	+0.9
Baltimore, Md.....	568	51,346	54,268	+5.7	1,012,566	1,095,225	+8.2
Boston, Mass.....	3,077	92,705	98,401	+6.1	2,193,802	2,330,519	+6.2
Pittsburgh, Pa.....	418	55,442	57,987	+4.6	1,180,539	1,219,266	+3.3
San Francisco, Calif.....	1,164	52,972	54,997	+3.8	1,232,920	1,279,929	+3.8
Buffalo, N. Y.....	435	44,478	46,072	+3.6	974,993	1,001,516	+2.7
Milwaukee, Wis.....	456	45,513	46,911	+3.1	925,791	922,549	-0.4

### Employment in the Executive Civil Service of the United States, September 1933

The United States Government pay rolls for September 1933 showed 8,934 fewer employees than Government pay rolls for September 1932. This is a decrease of 1.6 percent.

Comparing September 1933 with August 1933, there was an increase of 10,017 employees or 1.8 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 in compliance with the direction of Congress.

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

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

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

Item	District of Columbia			Outside the District			Entire service		
	Perma- nent	Tempo- rary <sup>1</sup>	Total	Perma- nent	Tempo- rary <sup>1</sup>	Total	Perma- nent	Tempo- rary <sup>1</sup>	Total
Number of employees:									
September 1932-----	64,616	2,454	67,070	470,502	37,718	508,220	535,118	40,172	575,290
August 1933-----	62,681	5,034	67,715	456,417	32,207	488,624	519,098	37,241	556,339
September 1933-----	63,258	6,482	69,740	453,750	42,866	496,616	517,008	49,348	566,356
Gain or loss:									
September 1932-Septem- ber 1933-----	-1,358	+4,028	+2,670	-16,752	+5,148	-11,604	-18,110	+9,176	-8,934
August 1933-September 1933-----	+577	+1,448	+2,025	-2,667	+10,659	+7,992	-2,090	+12,107	+10,017
Percent of change:									
September 1932-Septem- ber 1933-----	-2.1	+164.1	+4.0	-3.6	+13.6	-2.3	-3.4	+22.8	-1.6
August 1933-September 1933-----	+0.9	+28.8	+3.0	-0.6	+33.1	+1.6	-0.4	+32.5	+1.8
Labor turnover, September 1933:									
Additions-----	<sup>2</sup> 1,201	2,905	<sup>2</sup> 4,106	3,787	23,172	26,959	4,988	26,077	31,065
Separations-----	972	<sup>2</sup> 1,109	<sup>2</sup> 2,081	6,454	12,513	18,967	7,426	13,622	21,048
Turnover rate per 100-----	1.54	19.26	3.03	0.83	33.34	3.85	0.96	31.46	3.75

<sup>1</sup> Not including field service of Post Office Department.<sup>2</sup> Not including 348 employees, transferred from a temporary status in the National Industrial Recovery Administration to a permanent status in the same agency.

Comparing September 1933 with September 1932, there was a decrease of 2.1 percent in the number of permanent Federal employees in the District of Columbia. However, comparing these 2 months, the number of temporary employees increased 164.1 percent. This large increase in temporary employees caused a net increase of 4 percent in the total number of Federal employees in the city of Washington.

Comparing September 1933 with August 1933, there was an increase of nine tenths of 1 percent in the number of permanent employees. This increase was largely caused by a number of employees in the N.R.A. being transferred from a temporary to a permanent status.

Outside the District of Columbia the number of permanent employees decreased 3.6 percent and the number of temporary employees increased 13.6 percent, comparing September 1933 pay rolls with those for September 1932.

Comparing September 1933 with August 1933, there was a decrease of 0.4 percent in the number of permanent employees, an increase of 32.5 percent in the number of temporary employees, and an increase of 1.8 percent in the number of 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, AUGUST AND SEPTEMBER 1933**

Group	Number		Pay rolls	
	August	September	August	September
Enrolled personnel-----	276,172	208,402	\$8,624,859	\$6,508,392
Reserve officers, line-----	1,286	2,902	( <sup>1</sup> )	( <sup>1</sup> )
Reserve officers, medical-----	869	986	( <sup>1</sup> )	( <sup>1</sup> )
Supervisory and technical-----	14,444	14,744	1,714,705	1,754,485
Total-----	292,771	227,034	<sup>2</sup> 10,339,564	<sup>2</sup> 8,262,877

<sup>1</sup> Data not available.<sup>2</sup> Not including pay rolls of Reserve officers, line or medical.



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

There were 227,034 persons in the Emergency Conservation Work on September 30, 1933. This is a decrease of 65,000 as compared with August.

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 roll for this branch of the service are figured on this basis. The amounts paid to Reserve officers, line and medical, are not available at the present time. Data for this branch of the service will be shown beginning with the October figures.

### Employment on Class I Steam Railroads in the United States

**R**EPORTS of the Interstate Commerce Commission for class I railroads show that the number of employees (exclusive of executives and officials) increased from 1,002,177 on August 15, 1933, to 1,018,017 on September 15, 1933, or 1.8 percent. Data are not yet available concerning total compensation of employees for September 1933. The latest pay-roll information available shows an increase from \$115,936,195 in July to \$121,857,255 in August, or 5.1 percent.

The monthly trend of employment from January 1923 to September 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 SEPTEMBER 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 <sup>1</sup>	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	56.8
September.....	107.8	99.7	99.9	102.8	99.1	95.3	96.8	82.2	69.3	55.8	57.7
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	<sup>2</sup> 53.9

<sup>1</sup> Revised.

<sup>2</sup> Average for 9 months.

## Wage-Rate Changes in American Industries

### Manufacturing Industries

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

Increases in wage rates averaging 21 percent and affecting 358,224 employees were reported by 1,937 of the 18,330 manufacturing establishments surveyed in September. Ninety-five establishments in the boot-and-shoe industry reported increases in wage rates affecting 55,538 workers, 205 establishments in the sawmill industry reported increases affecting 37,829 employees, 84 men's clothing establishments reported increases affecting 16,165 workers, and 77 paper and pulp mills reported increases affecting 20,860 workers. One hundred and three foundry and machine shops reported wage-rate increases affecting 17,864 workers, 41 automobile plants reported increases in wage rates to 15,776 workers, and 24 firms in the electrical-machinery group reported changes in wage rates affecting 13,496 employees. Increases in rates each affecting slightly more than 9,000 workers were reported in the iron and steel, glass, furniture, and cigar and cigarette industries.

These changes in wage rates, as pointed out in connection with the changes reported last month affecting over 1,100,000 workers, do not necessarily represent an increase in average weekly earnings of employees, but they do represent a change in the hourly rates of pay whereby the worker receives as much pay for the shorter work week as he had received previously for longer hours at a lower rate. In a number of instances the increases in wage rates represent a restoration of wage cuts previously reported.

Of the 18,330 manufacturing establishments included in the September survey, 16,388 establishments, or 89.4 percent of the total, reported no change in wage rates over the month interval. The 3,004,326 employees not affected by changes in wage rates constituted 89.3 percent of the total number of employees covered by the September trend-of-employment survey of manufacturing industries.

Only five manufacturing establishments reported wage-rate decreases.

TABLE 1.—WAGE-RATE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING SEPTEMBER 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, 330	3, 362, 727	16, 388	1, 937	5	3, 004, 326	358, 224	177
Percent of total.....	100. 0	100. 0	89. 4	10. 6	( <sup>1</sup> )	89. 3	10. 7	( <sup>1</sup> )
Food and kindred products:								
Baking.....	995	71, 092	948	47	-----	68, 432	2, 660	-----
Beverages.....	394	26, 429	375	18	1	23, 729	2, 681	19
Butter.....	306	5, 937	281	25	-----	5, 420	517	-----
Confectionery.....	305	41, 143	266	39	-----	36, 867	4, 276	-----
Flour.....	420	17, 575	385	35	-----	15, 787	1, 788	-----
Ice cream.....	371	13, 936	357	14	-----	13, 667	269	-----
Slaughtering and meat packing.....	244	113, 025	229	15	-----	109, 430	3, 595	-----
Sugar, beet.....	63	8, 083	29	34	-----	4, 988	3, 095	-----
Sugar refining, cane.....	12	8, 520	11	1	-----	7, 611	909	-----
Textiles and their products:								
Fabrics:								
Carpets and rugs.....	28	18, 730	23	5	-----	16, 730	2, 000	-----
Cotton goods.....	683	312, 087	672	11	-----	309, 671	2, 416	-----
Cotton small wares.....	114	11, 734	108	6	-----	11, 112	622	-----
Dyeing and finishing textiles.....	153	34, 760	153	-----	-----	34, 760	-----	-----
Hats, fur-felt.....	34	6, 862	34	-----	-----	6, 862	-----	-----
Knit goods.....	454	120, 387	436	18	-----	114, 494	5, 893	-----
Silk and rayon goods.....	240	57, 648	235	5	-----	56, 198	1, 450	-----
Woolen and worsted goods.....	243	76, 715	210	33	-----	67, 865	8, 850	-----
Wearing apparel:								
Clothing, men's.....	405	74, 200	321	84	-----	58, 035	16, 165	-----
Clothing, women's.....	527	32, 332	425	102	-----	26, 743	5, 589	-----
Corsets and allied gar- ments.....	34	6, 111	26	8	-----	5, 222	889	-----
Men's furnishings.....	80	7, 542	74	6	-----	7, 257	285	-----
Millinery.....	147	10, 970	138	9	-----	9, 029	1, 941	-----
Shirts and collars.....	117	17, 566	110	7	-----	16, 775	791	-----
Iron and steel and their prod- ucts, not including ma- chinery:								
Bolts, nuts, washers, and rivets.....	72	12, 012	67	5	-----	10, 709	1, 303	-----
Cast-iron pipe.....	41	6, 175	34	7	-----	5, 566	609	-----
Cutlery (not including sil- ver and plated cutlery) and edge tools.....	129	10, 440	114	15	-----	9, 428	1, 012	-----
Forgings, iron and steel.....	64	7, 716	50	14	-----	6, 529	1, 187	-----
Hardware.....	107	30, 857	94	13	-----	28, 805	2, 052	-----
Iron and steel.....	207	261, 961	193	14	-----	252, 403	9, 558	-----
Plumbers' supplies.....	71	9, 569	61	10	-----	8, 258	1, 311	-----
Steam and hot-water heat- ing apparatus and steam fittings.....	98	18, 263	83	15	-----	15, 505	2, 758	-----
Stoves.....	157	24, 927	134	23	-----	20, 915	4, 012	-----
Structural and ornamental metalwork.....	192	16, 676	164	28	-----	14, 610	2, 066	-----
Tin cans and other tin- ware.....	61	11, 135	57	4	-----	10, 601	534	-----
Tools (not including edge tools, machine tools, files, and saws).....	127	8, 709	120	7	-----	7, 684	1, 025	-----
Wirework.....	70	7, 755	67	3	-----	7, 600	155	-----
Machinery, not including trans- portation equipment:								
Agricultural implements.....	77	8, 632	64	13	-----	7, 277	1, 355	-----
Cash registers, adding ma- chines, and calculating machines.....	36	13, 519	36	-----	-----	13, 519	-----	-----
Electrical machinery, appa- ratus, and supplies.....	288	109, 846	264	24	-----	96, 350	13, 496	-----
Engines, turbines, tractors, and waterwheels.....	89	20, 401	80	9	-----	15, 786	4, 615	-----

<sup>1</sup> Less than one tenth of 1 percent.

TABLE 1.—WAGE-RATE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING SEPTEMBER 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
<b>Machinery—Continued.</b>								
Foundry and machine-shop products.....	1, 076	128, 310	973	103	—	110, 446	17, 864	—
Machine tools.....	146	14, 636	140	6	—	14, 112	824	—
Radios and phonographs.....	41	31, 863	37	4	—	30, 114	1, 854	—
Textile machinery and parts.....	49	10, 904	41	8	—	10, 279	625	—
Typewriters and supplies.....	16	11, 237	14	2	—	11, 222	15	—
<b>Nonferrous metals and their products:</b>								
Aluminum manufactures.....	25	6, 628	22	3	—	6, 016	612	—
Brass, bronze, and copper products.....	214	38, 972	188	26	—	36, 468	2, 504	—
Clocks and watches, and time-recording devices.....	27	9, 118	22	5	—	4, 739	4, 379	—
Jewelry.....	132	9, 085	117	15	—	7, 537	1, 548	—
Lighting equipment.....	52	3, 535	47	5	—	3, 142	393	—
Silverware and platedware.....	53	8, 315	47	6	—	8, 022	293	—
Smelting and refining—copper, lead, and zinc.....	45	14, 413	42	2	1	14, 272	133	8
Stamped and enameled ware.....	87	17, 021	67	20	—	13, 118	3, 903	—
<b>Transportation equipment:</b>								
Aircraft.....	28	7, 654	24	4	—	6, 354	1, 300	—
Automobiles.....	239	239, 907	198	41	—	224, 131	15, 776	—
Cars, electric and steam railroad.....	41	5, 929	39	2	—	4, 522	1, 407	—
Locomotives.....	11	2, 359	9	2	—	2, 240	119	—
Shipbuilding.....	95	29, 548	91	4	—	29, 305	243	—
<b>Railroad repair shops:</b>								
Electric railroad.....	378	18, 843	364	14	—	18, 590	253	—
Steam railroad.....	545	79, 484	545	—	—	79, 484	—	—
<b>Lumber and allied products:</b>								
Furniture.....	465	60, 073	390	75	—	49, 658	10, 415	—
<b>Lumber:</b>								
Millwork.....	463	21, 770	395	68	—	18, 153	3, 617	—
Sawmills.....	617	82, 883	412	205	—	45, 054	37, 829	—
Turpentine and rosin.....	25	1, 660	22	3	—	911	749	—
<b>Stone, clay, and glass products:</b>								
Brick, tile, and terra cotta.....	657	22, 878	574	83	—	17, 997	4, 881	—
Cement.....	129	15, 545	126	3	—	15, 451	94	—
Glass.....	184	46, 235	151	33	—	37, 137	9, 098	—
Marble, granite, slate, and other products.....	221	5, 698	209	12	—	5, 398	300	—
Pottery.....	121	18, 432	111	8	2	17, 432	890	110
<b>Leather and its manufactures:</b>								
Boots and shoes.....	344	122, 175	249	95	—	66, 637	55, 538	—
Leather.....	156	31, 659	128	28	—	27, 168	4, 491	—
<b>Paper and printing:</b>								
Boxes, paper.....	322	27, 737	265	57	—	23, 086	4, 651	—
Paper and pulp.....	416	100, 844	339	77	—	79, 984	20, 860	—
Printing and publishing:								
Book and job.....	771	47, 692	744	27	—	45, 929	1, 763	—
Newspapers and periodicals.....	446	66, 020	437	9	—	65, 274	746	—
<b>Chemicals and allied products:</b>								
Chemicals.....	104	26, 374	93	11	—	22, 519	3, 855	—
Cottonseed oil, cake, and meal.....	103	5, 721	73	29	1	3, 631	2, 050	40
Druggists' preparations.....	45	8, 362	43	2	—	7, 843	519	—
Explosives.....	29	4, 309	28	1	—	4, 177	132	—
Fertilizers.....	167	7, 347	150	17	—	6, 443	904	—
Paints and varnishes.....	352	17, 111	330	22	—	15, 606	1, 505	—
Petroleum refining.....	127	52, 591	117	10	—	45, 130	7, 461	—
Rayon and allied products.....	24	37, 580	24	—	—	37, 580	—	—
Soap.....	98	17, 230	86	12	—	16, 188	1, 042	—
<b>Rubber products:</b>								
Rubber boots and shoes.....	9	14, 335	8	1	—	14, 207	128	—
Rubber goods, other than boots, shoes, tires, and inner tubes.....	100	26, 628	93	7	—	26, 228	400	—
Rubber tires and inner tubes.....	41	59, 889	39	2	—	54, 675	5, 214	—
<b>Tobacco manufactures:</b>								
Chewing and smoking tobacco and snuff.....	32	10, 042	30	2	—	9, 987	55	—
Cigars and cigarettes.....	207	43, 764	167	40	—	32, 501	11, 263	—

## Nonmanufacturing Industries

DATA concerning wage-rate changes occurring between August 15 and September 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 3 industries over the month interval. The average percents of increase reported were as follows: Banks-brokerage-insurance-real estate, 29.5 percent; canning and preserving, 25.9 percent; quarrying and nonmetallic mining, 20.4 percent; laundries, 18.8 percent; retail trade, 18.2 percent; bituminous-coal mining, 17.9 percent; hotels, 16.7 percent; dyeing and cleaning, 13.1 percent; wholesale trade, 12.9 percent; metalliferous mining, 11.8 percent; crude-petroleum producing, 9.3 percent; power and light, 7.3 percent; electric-railroad and motor-bus operation and maintenance, 6 percent; and telephone and telegraph, 4.8 percent. The average percents of decrease were: Banks-brokerage-insurance-real estate, 15.6 percent; and hotels and power and light, 8 percent each.

TABLE 2.—WAGE-RATE CHANGES IN NONMANUFACTURING INDUSTRIES DURING MONTH ENDING SEPTEMBER 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	77,598	158	-----	-----	77,598	-----	-----
Percent of total .....	100.0	100.0	100.0	-----	-----	100.0	-----	-----
Bituminous-coal mining .....	1,495	218,200	1,462	33	-----	212,513	5,687	-----
Percent of total .....	100.0	100.0	97.8	2.2	-----	97.4	2.6	-----
Metalliferous mining .....	271	25,678	252	19	-----	21,992	3,686	-----
Percent of total .....	100.0	100.0	93.0	7.0	-----	85.6	14.4	-----
Quarrying and nonmetallic mining .....	1,152	35,442	1,059	93	-----	32,390	3,052	-----
Percent of total .....	100.0	100.0	91.9	8.1	-----	91.4	8.6	-----
Crude-petroleum producing .....	244	26,304	235	9	-----	24,680	1,624	-----
Percent of total .....	100.0	100.0	96.3	3.7	-----	93.8	6.2	-----
Telephone and telegraph .....	8,240	245,724	7,744	496	-----	243,757	1,967	-----
Percent of total .....	100.0	100.0	94.0	6.0	-----	99.2	.8	-----
Power and light .....	3,098	201,708	2,950	147	1	189,111	11,977	20
Percent of total .....	100.0	100.0	95.2	4.7	(1)	94.0	6.0	(1)
Electric-railroad and motor-bus operation and maintenance .....	557	124,331	538	19	-----	119,997	4,334	-----
Percent of total .....	100.0	100.0	96.6	3.4	-----	96.5	3.5	-----
Wholesale trade .....	2,947	82,505	2,869	78	-----	80,352	2,153	-----
Percent of total .....	100.0	100.0	97.4	2.6	-----	97.4	2.6	-----
Retail trade .....	17,549	405,422	17,396	153	-----	401,219	4,203	-----
Percent of total .....	100.0	100.0	99.1	.9	-----	99.0	1.0	-----
Hotels .....	2,638	140,362	2,614	23	1	140,054	299	9
Percent of total .....	100.0	100.0	99.1	.9	(1)	99.8	.2	(1)
Canning and preserving .....	1,021	152,969	906	115	-----	137,486	15,483	-----
Percent of total .....	100.0	100.0	88.7	11.3	-----	89.9	10.1	-----
Laundries .....	935	56,815	789	146	-----	49,985	6,830	-----
Percent of total .....	100.0	100.0	84.4	15.6	-----	88.0	12.0	-----
Dyeing and cleaning .....	344	11,942	314	30	-----	11,026	916	-----
Percent of total .....	100.0	100.0	91.3	8.7	-----	92.3	7.7	-----
Banks, brokerage, insurance, and real estate .....	4,538	178,827	4,470	64	4	176,023	2,795	9
Percent of total .....	100.0	100.0	98.5	1.4	.1	98.4	1.6	(1)

<sup>1</sup> Less than one tenth of 1 percent.