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**BUREAU OF LABOR STATISTICS**

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**TREND OF EMPLOYMENT**

**AUGUST 1934**



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**Under the direction of**

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# TREND OF EMPLOYMENT

August 1934

**T**HE Bureau of Labor Statistics of the United States Department of Labor presents herewith data compiled from pay-roll reports supplied by representative establishments in 90 of the principal manufacturing industries of the country and 18 nonmanufacturing industries, covering the pay period ending nearest the 15th of the month. Additional information is presented concerning employment on Public Works Administration projects, public roads, the Federal service, and class I steam railroads.

## Manufacturing Industries

**I**NCREASES of 1.1 percent in factory employment and 2.8 percent in factory pay rolls were shown in August as compared with July. Employment and pay rolls in manufacturing industries normally increase in August, reflecting seasonal activity in certain industries and a recovery from July shut-downs. During the preceding 15-year period, 1919-33, inclusive, for which data are available in the Bureau of Labor Statistics, increases in employment from July to August were shown in each year except 1930 and in pay rolls in each year except 1930 and 1931.

The general indexes of factory employment and pay rolls for August 1934 are 79.5 and 62.1, respectively. A comparison of these indexes with those of August 1933 shows gains over the year interval of 4.1 percent in employment and 9.3 percent in pay rolls.

The Bureau recently revised its indexes of factory employment and pay rolls. The base now used in computing these index numbers is the average for the 3-year period, 1923-25, taken as 100. This new series of indexes has been adjusted to conform to census trends over the period 1919-31. Prior to March 1934 the indexes of factory employment and pay rolls published by the Bureau of Labor Statistics were based on the 12-month average of 1926 and were not adjusted to conform to biennial census trends. A short discussion of this revision appeared in the March 1934 Trend of Employment and a more complete bulletin on this subject is being prepared for publication. The August 1934 group and general indexes of factory employment and pay rolls on the 1926 base are shown in this pamphlet under the head-

ing "Index numbers of employment and pay-roll totals in manufacturing industries."

The indexes of factory employment and pay rolls are computed from reports supplied by representative establishments in 90 important manufacturing industries of the country. In August, reports were received from 25,298 establishments employing 3,762,201 wage earners, whose weekly earnings during the pay period ending nearest August 15 totaled \$71,053.170. More than 50 percent of the wage earners in all manufacturing industries of the country are covered in these monthly employment surveys.

Fifty-two of the ninety manufacturing industries surveyed reported gains in employment and 51 reported increases in pay rolls.

The most pronounced gains in employment from July to August were seasonal in nature and appeared in the following industries: Canning and preserving, 61.1 percent; beet sugar, 34.6 percent; cottonseed—oil, cake, and meal, 32 percent; millinery, 30.7 percent; and women's clothing, 22.8 percent. Other substantial seasonal increases were reported in men's clothing, 8.6 percent; fur-felt hats and confectionery, 7.7 percent each; radios and phonographs, 6.1 percent; and men's furnishings, 5.3 percent. The silver- and plated-ware industry reported an increase of 13.1 percent in employment from July to August, the slaughtering and meat-packing industry reported a gain of 8.6 percent, the locomotive industry reported an increase of 8.3 percent, and the cigar and cigarette industry reported an increase of 7.4 percent. The jewelry and the cane-sugar-refining industries reported gains in number of workers of 6.3 percent each and the druggists' preparations industry reported a gain of 5.1 percent. Among the remaining 35 industries reporting increased employment, increases ranging from 1.5 percent to 3.8 percent were reported in the following important industries: Shirts and collars, 3.8 percent; cast-iron pipe, 3.7 percent; boots and shoes, 3.3 percent; shipbuilding, 2.8 percent; smelting and refining—copper, lead, and zinc, 2.7 percent; rayon, 2.5 percent; printing, book and job, 1.6 percent; and furniture and petroleum refining, 1.5 percent each.

The most pronounced decrease in employment from July to August (10.5 percent) was in the aircraft industry. The textile-machinery industry reported an employment decline of 6.7 percent over the month interval, the electric- and steam-car building industry, a loss of 6.2 percent and the automobile industry, a loss of 6 percent. Decreases ranging from 4.3 percent to 5.9 percent were reported in the machine tool, rubber tire, rubber goods other than tires and shoes, plumbers' supply, marble-slate-granite, cement, steam-railroad repair shop, and wirework industries. The cotton goods, blast furnaces, steel works, and rolling mills industries reported losses in employment of 3.8 percent each. Other industries in which decreases in employment

over the month interval ranged from 3 percent to 3.6 percent were: Agricultural implements, stamped and enameled ware, leather, tools, and brass, bronze, and copper products. In the remaining 19 industries in which decreased employment was reported, declines in industries of major importance were in paint and varnish, 2.9 percent; woolen and worsted goods, 2.7 percent; ice cream 2.3 percent; mill-work, 2.1 percent; beverages and glass, 1.6 percent each; chemicals, 1.3 percent; and foundry and machine-shop products, 0.7 percent.

Comparing the level of employment and pay rolls in the 90 separate industries in August 1934 with August 1933, 52 industries showed increased employment over the year interval and 60 showed increased pay rolls.

Dividing the manufacturing industries into "durable" and "non-durable" goods groups, the former group showed a decrease in employment from July to August of 1.9 percent and no change in pay rolls. The latter group showed gains of 3.7 percent in employment and 5.3 percent in pay rolls. The "durable" goods group is composed of the following subgroups: IRON AND STEEL, MACHINERY, TRANSPORTATION EQUIPMENT, RAILROAD REPAIR SHOPS, NONFERROUS METALS, LUMBER AND ALLIED PRODUCTS, and STONE-CLAY-GLASS.

Per capita weekly earnings for all manufacturing industries combined increased 1.7 percent from July to August and 5.1 percent from August 1933 to August 1934. Gains from July to August were shown in 48 of the 90 individual manufacturing industries surveyed and ranged from less than one-tenth of 1 percent to 20.6 percent.

The per capita earnings shown in the following table 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).

Man-hour data supplied by identical establishments in July and August 1934 showed an increase over the month interval for all manufacturing industries combined of 1.8 percent in average hours worked per week and a decrease in average hourly earnings of 0.2 percent. Thirty-nine of the industries covered showed increases in average hours worked and 49 reported increased hourly earnings. As all reporting establishments do not furnish man-hour information, the Bureau's figures on average hours worked per week and average hourly earnings are necessarily computed from data furnished by a smaller number of establishments than are covered in the monthly survey of manufacturing industries. Average hours worked per week and average hourly earnings are presented for only those manufacturing industries for which available information covers at least 20 percent of all the employees in the industry.

In table 1, which follows, are shown indexes of employment and pay rolls in August 1934 for each of the 90 manufacturing industries surveyed, for the 14 major groups and 2 subgroups into which these industries are classified, and for manufacturing as a whole, together with percentage changes from July 1934 and August 1933. Per capita weekly earnings in August 1934, together with percentage of changes from the previous month and from August of the previous year for each of the 90 manufacturing industries and for manufacturing as a whole, are also presented in this table. Average hours worked per week in August 1934 and average hourly earnings, together with percentage of changes from July 1934 and August 1933, are likewise presented for manufacturing as a whole and for each industry for which man-hour data covering at least 20 percent of the total employees in the industry were received.

TABLE 1.—EMPLOYMENT, WEEKLY PAY ROLLS, PER CAPITA WEEKLY EARNINGS, AVERAGE HOURS WORKED PER WEEK, AND AVERAGE HOURLY EARNINGS IN MANUFACTURING INDUSTRIES IN AUGUST 1934 AND COMPARISON WITH JULY 1934 AND AUGUST 1933

Industry	Employment			Pay roll			Per capita weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index August 1934 (3-year average 1923-25 =100)	Percentage change from—		Index August 1934 (3 year average 1923-25 =100)	Percentage change from—		Average in August 1934	Percentage change from—		Average in August 1934	Percentage change from—		Average in August 1934	Percentage change from—	
		July 1934	August 1933		July 1934	August 1933		July 1934	August 1933		July 1934	August 1933		July 1934	August 1933
Total manufacturing.....	79.5	+1.1	+4.1	62.1	+2.8	+9.3	\$18.89	+1.7	+5.1	33.9	+1.8	-10.1	Cents 55.7	-.2	+15.7
<b>Iron and steel and their products, not including machinery</b>	68.6	-2.4	+3	45.5	-4.4	-9.0									
Blast furnaces, steel works, and rolling mills.....	69.7	-3.8	-.1	44.0	-8.1	-17.1	17.23	-.4	-16.9	27.0	-3.6	-31.9	64.0	+8	+22.8
Bolts, nuts, washers, and rivets.....	77.7	-2.7	-7.7	53.3	-3.7	-.2	17.59	-1.1	+8.5	32.2	+6	-7.3	54.6	-1.3	+15.6
Cast-iron pipe.....	53.8	+3.7	+22.0	29.2	+6.5	+25.3	14.70	+2.7	+3.1	29.7	+2.8	-14.1	49.6	(3)	+18.9
Cutlery (not including silver and plated cutlery) and edge tools.....	77.7	+3.0	+13.3	53.0	-.8	+13.2	18.56	-3.6	-.1	34.8	-2.8	-9.9	53.3	-.4	+11.0
Forgings, iron and steel.....	51.9	+9	+10.9	34.7	+1.1	+8.8	19.61	+3	-1.4	32.9	-1.2	-14.4	59.5	+1.5	+17.6
Hardware.....	51.3	-.8	-18.6	37.9	+8.7	-14.3	17.73	+9.6	+5.2	32.3	+8.0	-8.5	55.0	+2.0	+16.5
Plumbers' supplies.....	60.5	-5.4	-12.2	34.0	-6.6	-13.0	16.81	-1.2	-.7	31.4	-2.5	-16.7	53.0	+2	+18.2
Steam and hot-water heating apparatus and steam fittings.....	48.6	+5	-15.9	30.3	-2.7	-10.1	20.18	-3.1	+7.0	33.6	-4.0	-14.4	59.3	-.5	+15.8
Stoves.....	87.7	+1.3	+9.1	57.7	+2.1	+7.2	17.85	+9	-1.2	33.1	-.9	-16.6	54.1	+6	+17.0
Structural and ornamental metal work.....	59.0	+(9)	+19.7	41.8	+3.0	+40.7	20.19	+3.0	+17.1	34.1	+3.0	-3.7	59.6	+3	+15.1
Tin cans and other tinware.....	99.1	-.5	+10.4	93.6	-1.0	+15.8	19.54	-.5	+4.7	37.1	-1.3	-12.3	51.8	-.4	+16.8
Tools (not including edge tools, machine tools, files, and saws).....	57.4	-3.3	+4.6	49.0	+(9)	+17.5	19.66	+3.4	+12.7	36.0	+2.9	-6.2	54.5	+9	+20.4
Wirework.....	146.3	-5.9	-1.3	90.1	-6.2	-12.9	17.06	-.3	-12.0	31.3	-1.9	-17.8	54.1	+1.9	+21.1
<b>Machinery, not including transportation equipment</b>	78.6	(9)	+21.9	57.8	-.5	+32.9									
Agricultural implements.....	66.8	-3.6	+53.6	68.3	-2.7	+84.6	19.69	+1.0	+19.7	35.4	+1.1	+4.2	56.7	+9	+19.4
Cash registers, adding machines, and calculating machines.....	105.7	+1.0	+22.3	94.0	-2.7	+35.5	25.91	-3.7	+10.7	38.3	-.8	-1.2	68.4	-3.3	+12.1
Electrical machinery, apparatus, and supplies.....	65.3	+3	+18.7	50.2	+9	+33.9	21.16	+7	+12.7	33.6	(9)	-1.0	62.0	+1.0	+14.2
Engines, turbines, tractors, and water wheels.....	71.8	+5	+65.1	47.9	+5.1	+99.6	23.76	+4.6	+21.2	37.4	+4.2	+8.2	63.6	+5	+11.3
Foundry and machine-shop products.....	69.0	-.7	+16.2	50.3	-1.6	+26.1	20.16	-.9	+9.0	34.2	-.9	+2.5	59.2	(3)	+7.9
Machine tools.....	66.1	-4.3	+50.2	49.0	-4.9	+60.1	21.99	-.7	+6.8	35.4	-1.9	+6	61.8	+8	+5.6
Radios and phonographs.....	217.5	+6.1	+37.1	123.1	+7.6	+46.2	18.04	+1.4	+6.6	33.4	+4.4	-6.2	53.9	+4	+20.2
Textile machinery and parts.....	66.5	-6.7	-12.4	49.3	-12.2	-20.1	19.33	-5.9	-9.0	32.6	-6.1	-15.6	61.9	+1.8	+10.3
Typewriters and parts.....	80.1	+2.5	+20.5	70.6	+2.5	+44.4	21.99	+(9)	+20.1	38.6	-.3	+8.4	56.9	+4	+15.7

See footnotes at end of table.

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Industry	Employment			Pay roll			Per capita weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index August 1934 (3-year average 1923-25 =100)	Percentage change from—		Index August 1934 (3-year average 1923-25 =100)	Percentage change from—		Average in August 1934	Percentage change from—		Average in August 1934	Percentage change from—		Average in August 1934	Percentage change from—	
		July 1934	August 1933		July 1934	August 1933		July 1934	August 1933		July 1934	August 1933			
<b>Transportation equipment.....</b>	<b>83.3</b>	<b>-5.1</b>	<b>+35.2</b>	<b>69.9</b>	<b>+6.9</b>	<b>+40.6</b>								<i>Cents</i>	
Aircraft.....	333.4	-10.5	+6.4	301.8	-7.1	+6.9	\$26.39	+3.8	+2.2	41.9	+3.2	-7.8	61.2	-3	+7.9
Automobiles.....	92.5	-6.0	+34.6	76.5	+8.2	+37.3	23.06	+15.1	+2.2	31.9	+14.3	-15.6	72.7	+7	+19.0
Cars, electric- and steam-railroad.....	48.1	-6.2	+63.6	47.0	+1.6	+94.2	20.94	+8.4	+18.6	35.2	+5.1	+6.1	59.8	+2.9	+14.7
Locomotives.....	38.5	+8.3	+120.0	17.7	+7.8	+200.0	22.52	-4	+34.0	35.6	-1.9	+26.6	63.2	+1.4	+7.8
Shipbuilding.....	71.2	+2.8	+23.8	56.4	+1.3	+41.0	23.16	-1.5	+14.3	31.3	-9	+2.0	73.9	-9	+18.6
<b>Railroad repair shops.....</b>	<b>55.2</b>	<b>-5.3</b>	<b>+1.8</b>	<b>48.5</b>	<b>-5.1</b>	<b>+5.7</b>									
Electric railroad.....	66.0	-4	+2.0	58.5	-5	+9.6	26.36	-2	+7.6	44.1	( <sup>2</sup> )	-1.2	59.4	( <sup>2</sup> )	+9.1
Steam railroad.....	54.4	-5.8	+2.1	47.9	-5.3	+5.3	24.48	+5	+3.3	38.6	+1.0	+6	63.2	-2	+3.9
<b>Nonferrous metals and their products <sup>2</sup></b>	<b>73.4</b>	<b>+4</b>	<b>+6.1</b>	<b>53.2</b>	<b>-7</b>	<b>+10.1</b>									
Aluminum manufactures <sup>2</sup>	67.7	+3	-15.7	40.8	-6.8	-31.1	15.02	-7.1	-17.9	26.7	-6.0	-18.4	56.0	-1.1	+27.1
Brass, bronze, and copper products.....	72.7	-3.0	-4.6	51.2	-5.8	-3.2	19.58	-2.8	+1.6	34.4	-2.3	-7.7	57.0	-7	+11.9
Clocks and watches, and time-recording devices.....	68.9	+1.0	+23.5	54.3	+7.9	+38.5	17.85	+6.8	+11.8	36.4	+6.4	-9.5	49.1	+4	+21.1
Jewelry.....	65.7	+6.3	+12.3	49.7	+9.8	+21.8	18.78	+3.3	+8.6	34.9	+4.8	-8.7	53.6	-1.1	+23.7
Lighting equipment.....	61.9	+4	+11.5	48.2	-2.0	+14.8	18.17	-2.4	+3.1	35.3	-3.0	-3.0	52.5	+2	+6.3
Silverware and plated ware.....	69.3	+13.1	+38.9	48.3	+10.9	+46.8	19.14	-1.9	+5.8	33.6	-2.0	-4.9	56.7	( <sup>2</sup> )	+12.6
Smelting and refining—copper, lead, and zinc.....	70.5	+2.7	+27.9	42.8	-1.0	+26.6	20.14	-3.6	-9	36.9	-4.4	-13.9	54.2	+4	+13.6
Stamped and enameled ware.....	87.1	-3.5	-2.5	70.8	-3.0	+13.6	16.99	+5	+16.4	33.8	+6	-2.7	50.6	+1.0	+23.2
<b>Lumber and allied products.....</b>	<b>49.0</b>	<b>+4</b>	<b>-2.8</b>	<b>33.5</b>	<b>+6.0</b>	<b>+3.4</b>									
Furniture.....	62.9	+1.5	-8.4	42.7	+8.7	-2.7	15.79	+7.1	+5.8	34.8	+6.4	-11.7	44.9	( <sup>2</sup> )	+17.9
Lumber:															
Millwork.....	36.2	-2.1	-9.0	23.1	-( <sup>2</sup> )	-2.9	15.52	+2.1	+6.3	34.3	+2.4	-13.9	45.3	+4	+21.4
Sawmills.....	33.9	+4	+9	22.1	+5.9	+10.0	14.58	+5.6	+8.2	33.3	+2.8	-22.9	44.1	+1.6	+36.3
Turpentine and rosin.....	98.3	+1.0	+10.0	51.3	+2.0	+41.3	12.53	+1.0	+28.3						
<b>Stone, clay, and glass products.....</b>	<b>53.1</b>	<b>-2.0</b>	<b>+6</b>	<b>34.9</b>	<b>-3.3</b>	<b>+2.9</b>									
Brick, tile, and terra cotta.....	31.8	+4	-10.7	16.8	-1.4	-3.4	13.91	-1.8	+7.3	31.5	-2.2	-11.6	43.6	-9	+20.3
Cement.....	55.0	-5.8	+3.6	35.4	-9.6	+10.6	19.14	-4.0	+6.6	33.0	-5.2	-5.9	57.8	+1.4	+15.7
Glass.....	87.6	-1.6	+12.6	68.2	-1.8	+14.4	18.16	-2	+1.5	32.3	-3	-10.6	56.4	( <sup>2</sup> )	+14.2
Marble, granite, slate, and other products.....	31.3	-5.7	-17.2	20.1	-6.4	-16.2	20.60	-7	+1.0	31.1	+3	+4.7	65.8	-2.4	+7.9
Pottery.....	63.4	-1.0	-2.6	37.8	-1.5	-11.9	15.29	-5	-9.8	30.3	-1.3	-24.6	49.7	+4	+18.3



**Textiles and their products**

Fabrics	88.2	+2.7	-9.8	68.1	+9.0	-8.1												
Carpets and rugs	85.6	-1.6	-13.8	64.7	+5.0	-18.3												
Cotton goods	65.5	-2.8	-8.1	47.9	-1.0	-15.6	17.11	+1.8	-8.2	29.7	+1.7	-17.3	55.9	+2	+14.7			
Cotton small wares	88.7	-3.8	-12.7	63.3	-4.2	-23.0	11.46	-4	-11.9	29.7	-1.7	-18.1	37.8	+3	+6.0			
Dyeing and finishing textiles	77.4	+1.7	-16.2	60.8	+2.6	-18.7	15.31	+1.0	-3.0	32.9	-1.5	-9.3	46.1	+1.1	+9.4			
Hats, fur-felt	100.6	+1.2	-6.6	76.9	+8.8	-7.3	17.41	+7.5	-1.0	32.5	+5.9	-12.0	53.2	+4	+9.9			
Knit goods	82.8	+7.7	-8.1	90.8	+9.1	+8.7	24.20	+1.2	+17.9	33.3	-1.5	+11.2	72.2	-3	+19.5			
Silk and rayon goods	102.6	+7	-2.5	89.4	+4.0	-2.5	14.61	+3.3	-1	32.2	+4.9	-9.1	45.9	(9)	+12.2			
Woolen and worsted goods	68.4	-2.5	-30.8	48.0	-4.3	-35.0	15.93	-1.8	-5.9	31.9	-1.8	-21.9	49.9	+2	-5.8			
Wearing apparel	68.2	-2.7	-31.0	48.1	-4.1	-34.8	15.97	-1.4	-5.5	32.0	-1.5	-21.6	49.8	-2	-6.1			
Clothing, men's	90.1	+12.9	-2	70.6	+27.7	+18.7												
Clothing, women's	88.4	+8.6	-2	65.6	+20.5	+11.8	17.51	+11.0	+12.3	25.9	+8.4	-14.0	68.6	+1.9	+37.5			
Corsets and allied garments	110.0	+22.8	+11.3	85.2	+39.9	+49.7	19.46	+13.9	+34.9									
Men's furnishings	87.8	+1.2	-2.3	75.6	+8.9	-3.6	14.79	+7.6	-8	30.9	+4.7	-15.7	46.1	+2	+10.4			
Millinery	94.3	+5.3	-15.0	62.9	+10.9	-20.5	13.38	+5.3	-6.3	30.7	+1.7	-7.5	41.3	-5	+15.1			
Shirts and collars	65.4	+30.7	-19.0	59.4	+57.6	-10.7	20.94	+20.6	+10.5									
Leather and its manufactures	97.3	+3.8	-9.2	70.7	+10.3	+3.0	12.83	+6.3	+13.3	32.8	+6.8	+3.2	39.1	+5	+14.1			
Boots and shoes	91.1	+1.9	-1.9	78.7	+1.9	+6												
Leather	91.9	+3.3	-1.4	79.1	+3.8	+1.8	18.14	+6	+2.7	35.5	-1.9	-29.4	50.1	+1.2	+28.6			
Food and kindred products	88.4	-3.4	-4.1	76.1	-3.9	-3.2	19.84	-5	+1.2	35.9	-6	-11.8	54.0	+6	+17.6			
Baking	122.1	+10.9	+15.8	165.1	+9.9	+28.0												
Beverages	115.8	-4	+12.8	97.8	-4	+17.7	21.88	(4)	+4.5	40.0	-2.7	-7.1	54.3	+2.5	+14.4			
Butter	185.8	-1.6	+14.2	185.0	-4.4	+20.3	30.05	-2.8	+5.3	39.9	-2	-14.1	75.5	-2.5	+24.1			
Canning and preserving	85.5	-1.6	+4.4	62.7	-5.8	+2.3	20.47	-4.2	-1.8									
Confectionery	194.3	+61.1	+37.2	195.4	+88.6	+87.9	13.52	+17.1	+58.6	37.0	+31.7	+12.2	37.0	-6.6	+21.6			
Flour	71.5	+7.7	-14.1	60.8	+9.8	-4.1	15.10	+2.0	+11.4	34.3	+1.2	-1.3	43.1	+2	+17.5			
Ice cream	78.2	+9	+18.1	64.8	-3	+31.4	21.05	-1.1	+11.1	37.9	-1.6	-4.6	54.6	-5	+15.3			
Slaughtering and meat packing	88.7	-2.3	+21.5	68.8	-5.1	+22.4	24.17	-2.9	+1.4	45.4	-1.9	-5.8	52.9	-1.7	+8			
Sugar, beet	112.4	+8.6	+19.3	99.0	+8.3	+37.3	22.34	-3	+15.0	42.0	-5	+4.8	53.0	-2	+11.0			
Sugar refining, cane	73.4	+34.6	-7	56.7	+39.2	+2.0	20.61	+3.4	+2.8	44.0	+27.2	-10.4	47.6	-18.4	+13.7			
Tobacco manufactures	87.5	+6.3	+6.8	74.0	+12.4	+6.2	22.25	+5.8	-6	39.7	+10.0	-14.4	55.2	-2.0	+18.5			
Chewing and smoking tobacco and snuff	65.1	+6.5	+4.7	49.3	+4.2	+10.8												
Cigars and cigarettes	73.6	+9	-2.9	66.6	-6	-2.1	14.10	-1.4	+1.0	34.3	-6	-10.1	38.8	(9)	+13.1			
Paper and printing	64.0	+7.4	+6.0	47.1	+5.2	+13.2	13.22	-2.1	+6.8	35.5	-1.9	-4.0	36.9	-1.6	+5.8			
Boxes, paper	93.8	+4	+5.7	78.4	+4	+10.4												
Paper and pulp	84.1	+1.2	-1.3	74.5	+4.0	+4.8	18.23	+2.7	+6.6	35.8	+8	-11.7	50.5	(9)	+19.2			
Printing and publishing:	104.8	-(9)	+7.4	78.8	+2.2	+3.4	18.76	+2.2	-3.4	36.1	+1.4	-18.9	51.9	+6	+20.0			
Book and job																		
Newspapers and periodicals	85.0	+1.6	+7.5	71.6	+1.8	+18.2	26.29	+2	+9.9	35.8	+6	+1	72.8	-4	+7.3			
Chemicals and allied products, and petroleum refining	96.6	-2	+6.4	84.9	+2	+11.1	31.92	+4	+4.5	36.8	+3	-5.0	84.5	+1.0	+12.0			
Other than petroleum refining	106.9	+1.5	+7.9	90.0	+1.5	+15.5												
Chemicals	105.3	+1.4	+6.3	87.8	+1.4	+14.6												
Cottonseed-oil, cake, and meal	110.9	-1.3	+14.6	96.5	-1	+19.1	24.02	+1.2	+4.6	38.8	-5	-5.5	61.8	+1.0	+12.2			
Druggists' preparations	72.4	+32.0	-9.7	68.4	+27.3	-4.3	10.51	-3.6	-6.3	38.5	-8.1	-4.0	27.6	+2.6	+10.5			
Explosives	98.6	+5.1	+11.2	89.9	+4.4	+11.0	19.65	-6	-2	38.0	+2.2	+3.8	49.4	+4	+8			
Fertilizers	90.5	-1.6	+13.3	72.9	+2.7	+20.9	23.50	+4.4	+6.9	35.7	+1.4	-11.6	63.6	-2.0	+9.7			
Paints and varnishes	72.5	+2.0	+12.9	57.5	+1.1	+23.9	13.03	-8	+10.0	32.6	+6	-26.1	39.9	-7	+47.8			
	99.1	-2.1	+6.0	77.9	-1.2	+11.6	21.18	+1.0	+5.3	37.7	+3	-6.1	56.2	+5	+11.5			

See footnotes at end of table.

TABLE 1.—EMPLOYMENT, WEEKLY PAY ROLLS, PER CAPITA WEEKLY EARNINGS, AVERAGE HOURS WORKED PER WEEK, AND AVERAGE HOURLY EARNINGS IN **MANUFACTURING** INDUSTRIES IN AUGUST 1934 AND COMPARISON WITH JULY 1934 AND AUGUST 1933—Continued

Industry	Employment			Pay roll			Per capita weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index August 1934 (3-year average 1923-25 = 100)	Percentage change from—		Index August 1934 (3-year average 1923-25 = 100)	Percentage change from—		Average in August 1934	Percentage change from—		Average in August 1934	Percentage change from—		Average in August 1934	Percentage change from—	
		July 1934	August 1933		July 1934	August 1933		July 1934	August 1933		July 1934	August 1933		July 1934	August 1933
<b>Chemicals and allied products, and petroleum refining—Continued.</b>															
Other than petroleum refining—Continued.															
Rayon and allied products.....	304.2	+2.5	-3.8	213.2	+2.2	+7.8	\$18.32	-.3	+11.8	35.7	-1.4	-7.4	<i>Cents</i> 51.3	+1.0	+18.2
Soap.....	98.6	+1.9	+2.1	86.1	+2.1	+14.3	21.34	+1.2	+12.0	37.9	+1.1	-5.4	55.6	+1.7	+16.8
Petroleum refining.....	113.4	+1.5	+14.7	97.2	+1.5	+18.2	27.14	(3)	+2.9	34.7	-.9	-12.9	76.3	+1.9	+23.9
<b>Rubber products.....</b>	80.7	-3.8	-6.8	58.8	-5.0	-5.0									
Rubber boots and shoes.....	55.2	+3.4	+4.0	50.5	+2.2	+4	18.29	-1.1	-.3	34.9	-3.6	-11.3	48.4	-.6	+18.4
Rubber goods, other than boots, shoes, tires, and inner tubes.....	115.9	-5.1	-11.9	89.4	+2.2	-5.0	17.86	+7.8	+8.2	34.6	+8.8	-2.8	50.4	+1.4	+9.4
Rubber tires and inner tubes.....	73.9	-4.6	-5.3	49.9	-10.7	-6.4	21.66	-6.4	-1.1	27.4	-7.4	-17.5	80.0	+1.3	+22.9

<sup>1</sup> Per capita weekly earnings are computed from figures furnished by all reporting establishments. Average hours and average hourly earnings are computed from data furnished by a smaller number of establishments as some firms do not report man-hour information. Figures for groups not computed. Percentages of change over year on per capita weekly earnings, average hours worked per week, and average hourly earnings computed from indexes. Percentage change over month on per capita weekly earnings in "All industries" also computed from indexes.

<sup>2</sup> Weighted.

<sup>3</sup> No change.

<sup>4</sup> Less than 1/10 of 1 percent.

<sup>5</sup> More complete data have made necessary a revision of the July indexes, averages, and percentage changes for nonferrous metals and their products and aluminum manufactures. The revised figures follow:

Industry	Employment			Pay roll			Per capita weekly earnings		
	Index July 1934	Percentage change from—		Index July 1934	Percentage change from—		Average in July 1934	Percentage change from—	
		June 1934	July 1933		June 1934	July 1933		June 1934	July 1933
Nonferrous metals and their products.....	73.1	-3.7	+18.5	53.6	-7.4	+24.4			
Aluminum manufactures.....	67.5	-11.2	-6.6	43.8	-25.8	-17.5	\$15.57	-16.4	-11.4

# Estimated Total Number of Wage Earners and Weekly Pay Rolls in Manufacturing Industries

IN THE following table are presented the estimated number of wage earners and weekly pay rolls in all manufacturing industries combined and in the 14 groups into which these manufacturing industries have been classified, for the years from 1919 to 1933, inclusive, and for the first 8 months of 1934. These estimates have been computed by multiplying the weighting factors of the several groups of industries (number employed or weekly pay roll in the index base period 1923-25) by the Bureau's index numbers of employment or pay rolls (which have been adjusted to conform with census trends over the period (1919-31) and dividing by 100. Data are not available for all groups over the entire period shown. The totals for all manufacturing industries combined, however, have been adjusted to include all groups. The estimated total employment and weekly pay rolls for all manufacturing industries combined do not include the manufactured-gas industry (which is included in the Bureau's electric light and power and manufactured-gas industry) or the motion-picture industry.

TABLE 2.—ESTIMATED NUMBER OF WAGE EARNERS AND WEEKLY WAGES IN ALL MANUFACTURING INDUSTRIES COMBINED AND IN INDUSTRY GROUPS—YEARLY AVERAGES 1919 TO 1933, INCLUSIVE, AND MONTHS, JANUARY TO AUGUST 1934, INCLUSIVE

Year and month	Total manu- facturing	Iron and steel and their products	Machinery, not includ- ing trans- portation equipment	Transpor- tation equipment	Railroad repair shops	Nonferrous metals and their prod- ucts
	Employment					
1919 average.....	8,983,900	858,000	1,026,800	(1)	(1)	(1)
1920.....	9,065,600	926,300	1,131,700	(1)	(1)	(1)
1921.....	6,899,700	572,400	680,700	(1)	(1)	(1)
1922.....	7,592,700	722,500	717,400	(1)	(1)	(1)
1923.....	8,724,900	822,400	928,900	606,200	523,700	(1)
1924.....	8,083,700	833,700	835,400	524,500	464,900	(1)
1925.....	8,328,200	851,200	870,500	559,600	458,100	(1)
1926.....	8,454,400	880,200	946,700	558,600	460,700	(1)
1927.....	8,288,400	834,900	897,800	495,100	428,900	(1)
1928.....	8,285,800	829,800	922,500	541,900	404,000	(1)
1929.....	8,785,600	881,000	1,105,700	583,200	398,200	(1)
1930.....	7,668,400	766,200	918,700	451,800	353,800	(1)
1931.....	6,484,300	598,400	687,000	373,800	309,000	209,000
1932.....	5,374,200	458,100	494,600	315,700	257,400	164,200
1933.....	5,778,400	503,400	517,100	305,600	250,600	175,200
1934: January.....	6,146,000	545,500	614,700	401,200	254,500	190,200
February.....	6,514,200	572,200	640,100	477,300	257,400	200,400
March.....	6,770,100	601,400	674,400	526,300	267,600	212,200
April.....	6,897,800	623,700	705,100	558,400	278,700	217,300
May.....	6,904,300	646,000	713,900	560,100	287,300	219,900
June.....	6,791,700	656,400	709,500	535,900	288,300	214,500
July.....	6,585,000	603,900	690,200	494,800	281,100	<sup>2</sup> 206,600
August.....	6,666,200	589,300	690,200	469,400	266,100	207,400

<sup>1</sup> Comparable data not available.

<sup>2</sup> Revised.

TABLE 2.—ESTIMATED NUMBER OF WAGE EARNERS AND WEEKLY WAGES IN ALL MANUFACTURING INDUSTRIES COMBINED AND IN INDUSTRY GROUPS—YEARLY AVERAGES 1919 TO 1933, INCLUSIVE, AND MONTHS, JANUARY TO AUGUST 1934, INCLUSIVE—Continued

Year and month	Total manu- facturing	Iron and steel and their products	Machinery, not includ- ing trans- portation equipment	Transpor- tation equipment	Railroad repair shops	Nonferrous metals and their prod- ucts
1919 average.....	\$198, 145, 000	\$23, 937, 000	\$24, 534, 000	(1)	(1)	(1)
1920.....	238, 300, 000	30, 531, 000	31, 982, 000	(1)	(1)	(1)
1921.....	155, 008, 000	14, 049, 000	16, 450, 000	(1)	(1)	(1)
1922.....	165, 406, 000	17, 400, 000	16, 982, 000	(1)	(1)	(1)
1923.....	210, 065, 000	25, 442, 000	24, 618, 000	\$18, 532, 000	\$14, 856, 000	(1)
1924.....	195, 376, 000	23, 834, 000	22, 531, 000	15, 636, 000	12, 972, 000	(1)
1925.....	204, 665, 000	24, 680, 000	23, 843, 000	17, 478, 000	12, 847, 000	(1)
1926.....	211, 061, 000	25, 875, 000	26, 310, 000	17, 126, 000	13, 025, 000	(1)
1927.....	206, 980, 000	24, 289, 000	25, 095, 000	15, 450, 000	12, 475, 000	(1)
1928.....	208, 334, 000	24, 740, 000	26, 334, 000	17, 494, 000	11, 817, 000	(1)
1929.....	221, 937, 000	26, 568, 000	31, 761, 000	18, 136, 000	12, 255, 000	(1)
1930.....	180, 507, 000	21, 126, 000	24, 197, 000	12, 076, 000	10, 316, 000	(1)
1931.....	137, 256, 000	13, 562, 000	15, 135, 000	9, 008, 000	8, 366, 000	\$4, 622, 000
1932.....	93, 757, 000	7, 164, 000	8, 546, 000	7, 012, 000	5, 793, 000	2, 865, 000
1933.....	98, 623, 000	8, 925, 000	8, 975, 000	6, 799, 000	5, 652, 000	3, 059, 000
1934: January.....	109, 806, 000	10, 134, 000	11, 260, 000	9, 072, 000	5, 710, 000	3, 452, 000
February.....	123, 395, 000	11, 269, 000	12, 253, 000	12, 394, 000	6, 185, 000	3, 826, 000
March.....	131, 852, 000	12, 650, 000	13, 199, 000	14, 546, 000	6, 577, 000	4, 163, 000
April.....	136, 962, 000	14, 006, 000	14, 311, 000	15, 871, 000	7, 188, 000	4, 317, 000
May.....	136, 575, 000	15, 115, 000	14, 713, 000	15, 148, 000	7, 297, 000	4, 441, 000
June.....	131, 839, 000	15, 436, 000	14, 571, 000	13, 444, 000	7, 297, 000	4, 243, 000
July.....	122, 809, 000	11, 737, 000	13, 744, 000	11, 258, 000	6, 931, 000	* 3, 928, 000
August.....	126, 401, 000	11, 219, 000	13, 673, 000	12, 033, 000	6, 578, 000	3, 899, 000

Year and month	Lumber and allied products	Stone, clay, and glass products	Textiles and their products			Leather and its manu- factures
			Fabrics	Wearing apparel	Total	
Employment						
1919 average.....	863,800	302,700	1,052,600	507,800	1,609,400	349,600
1920.....	821,200	314,500	1,045,300	519,400	1,612,400	318,600
1921.....	703,000	253,000	994,300	473,900	1,509,400	280,100
1922.....	894,300	299,600	1,054,900	487,800	1,585,500	314,600
1923.....	932,100	351,400	1,164,400	499,300	1,714,300	344,800
1924.....	901,300	346,400	1,041,900	455,800	1,545,500	311,700
1925.....	921,600	352,700	1,109,500	466,500	1,627,400	314,200
1926.....	922,300	363,500	1,095,700	472,800	1,628,000	312,700
1927.....	864,100	349,800	1,119,200	501,400	1,694,400	316,000
1928.....	848,100	334,900	1,062,400	513,100	1,651,300	309,400
1929.....	876,500	328,500	1,095,900	536,700	1,706,900	318,600
1930.....	699,400	280,800	950,400	497,700	1,513,000	295,100
1931.....	516,900	222,800	886,700	472,000	1,421,000	272,800
1932.....	377,800	156,000	794,100	401,800	1,250,300	255,500
1933.....	406,100	157,500	952,600	418,100	1,432,700	269,400
1934: January.....	418,800	165,700	958,400	385,900	1,437,100	268,200
February.....	432,600	174,400	1,065,800	442,800	1,577,300	292,100
March.....	445,400	182,500	1,087,900	471,300	1,629,400	299,900
April.....	453,700	193,700	1,070,200	474,100	1,614,700	295,600
May.....	468,400	202,100	1,049,200	449,000	1,565,900	298,700
June.....	459,200	200,000	993,900	423,400	1,481,100	283,700
July.....	448,200	189,900	961,800	378,300	1,399,700	289,200
August.....	450,000	186,000	946,400	427,200	1,437,100	294,700

<b>Weekly pay rolls</b>						
1919 average.....	\$16,549,000	\$6,397,000	\$17,494,000	\$10,121,000	\$28,440,000	\$6,978,000
1920.....	20,358,000	8,239,000	21,005,000	12,124,000	34,115,000	7,437,000
1921.....	13,161,000	5,907,000	17,235,000	10,266,000	28,284,000	6,040,000
1922.....	15,234,000	6,442,000	17,747,000	10,438,000	28,962,000	6,711,000
1923.....	18,526,000	8,726,000	21,590,000	10,919,000	33,511,000	7,472,000
1924.....	18,223,000	8,926,000	19,014,000	9,804,000	29,712,000	6,654,000
1925.....	18,824,000	8,985,000	20,497,000	10,284,000	31,795,000	6,831,000
1926.....	18,997,000	9,257,000	20,241,000	10,297,000	31,731,000	6,909,000

<sup>1</sup> Comparable data not available.

<sup>2</sup> Revised

**TABLE 2.—ESTIMATED NUMBER OF WAGE EARNERS AND WEEKLY WAGES IN ALL MANUFACTURING INDUSTRIES COMBINED AND IN INDUSTRY GROUPS—YEARLY AVERAGES 1919 TO 1933, INCLUSIVE, AND MONTHS, JANUARY TO AUGUST 1934, INCLUSIVE—Continued**

Year and month	Lumber and allied products	Stone, clay, and glass products	Textiles and their products			Leather and its manufactures
			Fabrics	Wearing apparel	Total	
Weekly pay rolls						
1927.....	\$17,916,000	\$8,929,000	\$21,135,000	\$11,123,000	\$33,817,000	\$7,009,000
1928.....	17,454,000	8,511,000	19,510,000	11,114,000	32,199,000	6,696,000
1929.....	18,062,000	8,323,000	20,251,000	11,476,000	33,321,000	6,915,000
1930.....	13,464,000	6,828,000	16,167,000	9,680,000	27,115,000	5,748,000
1931.....	8,641,000	4,786,000	14,308,000	8,338,000	23,799,000	5,035,000
1932.....	4,656,000	2,588,000	10,367,000	5,733,000	16,947,000	4,060,000
1933.....	4,900,000	2,455,000	12,664,000	5,757,000	19,394,000	4,394,000
1934: January.....	5,075,000	2,655,000	13,647,000	5,850,000	20,526,000	4,716,000
February.....	5,650,000	2,956,000	15,948,000	7,473,000	24,676,000	5,708,000
March.....	5,909,000	3,081,000	16,457,000	8,414,000	26,164,000	5,896,000
April.....	6,168,000	3,445,000	16,152,000	7,866,000	25,277,000	5,736,000
May.....	6,409,000	3,507,000	15,256,000	7,039,000	23,472,000	5,612,000
June.....	6,279,000	3,445,000	13,626,000	6,377,000	21,033,000	5,093,000
July.....	5,853,000	3,205,000	13,117,000	5,716,000	19,798,000	5,393,000
August.....	6,205,000	3,098,000	13,178,000	7,297,000	21,571,000	5,498,000

Year and month	Foods and kindred products	Tobacco manufactures	Paper and printing	Chemicals and allied products	Rubber products
Employment					
1919 average.....	733,600	157,000	510,100	(1)	(1)
1920.....	713,000	154,000	549,100	(1)	(1)
1921.....	626,400	149,900	467,100	(1)	(1)
1922.....	651,400	146,400	489,400	(1)	(1)
1923.....	681,900	146,300	527,400	342,700	137,800
1924.....	657,800	136,700	529,200	322,200	123,200
1925.....	664,400	132,100	537,100	334,200	141,800
1926.....	664,400	125,700	553,600	355,100	141,200
1927.....	679,400	129,300	553,500	346,700	142,000
1928.....	707,100	125,600	558,300	342,500	149,200
1929.....	753,500	116,100	591,500	384,800	149,100
1930.....	731,100	108,300	574,100	364,700	115,500
1931.....	650,500	99,700	511,800	316,800	99,200
1932.....	577,100	88,600	451,700	279,700	87,800
1933.....	631,000	82,700	458,400	315,400	99,300
1934: January.....	628,700	75,400	490,700	359,200	110,100
February.....	627,800	85,900	494,500	368,300	113,600
March.....	643,100	89,100	497,600	375,600	117,000
April.....	649,500	89,500	505,100	377,400	120,900
May.....	665,400	84,800	509,300	353,500	119,700
June.....	702,600	86,400	503,000	348,100	115,000
July.....	735,800	84,600	496,000	350,800	112,700
August.....	816,100	90,100	498,200	356,000	108,400

Year and month	Foods and kindred products	Tobacco manufactures	Paper and printing	Chemicals and allied products	Rubber products
Weekly pay rolls					
1919.....	\$14,879,000	\$2,386,000	\$10,873,000	(1)	(1)
1920.....	16,698,000	2,772,000	14,729,000	(1)	(1)
1921.....	14,333,000	2,325,000	12,259,000	(1)	(1)
1922.....	14,142,000	2,206,000	12,762,000	(1)	(1)
1923.....	15,296,000	2,317,000	14,304,000	\$8,499,000	\$3,500,000
1924.....	15,155,000	2,213,000	14,797,000	8,013,000	3,223,000
1925.....	15,268,000	2,147,000	15,506,000	8,444,000	3,676,000
1926.....	15,503,000	2,049,000	16,478,000	9,055,000	3,707,000
1927.....	15,838,000	2,025,000	16,501,000	8,978,000	3,810,000
1928.....	16,388,000	1,916,000	16,691,000	8,997,000	4,069,000
1929.....	17,344,000	1,819,000	17,771,000	10,068,000	3,986,000
1930.....	16,593,000	1,617,000	17,036,000	9,334,000	2,934,000
1931.....	14,173,000	1,336,000	14,461,000	7,643,000	2,165,000
1932.....	11,308,000	1,052,000	11,126,000	5,861,000	1,555,000
1933.....	11,604,000	944,000	10,299,000	6,179,000	1,740,000
1934: January.....	12,301,000	886,000	11,045,000	7,035,000	2,036,000
February.....	12,352,000	1,012,000	11,297,000	7,257,000	2,261,000
March.....	12,522,000	1,019,000	11,550,000	7,417,000	2,445,000
April.....	12,663,000	1,028,000	11,847,000	7,683,000	2,546,000
May.....	13,296,000	1,030,000	11,981,000	7,352,000	2,438,000
June.....	14,008,000	1,057,000	11,728,000	7,333,000	2,306,000
July.....	14,571,000	1,052,000	11,491,000	7,381,000	2,147,000
August.....	16,022,000	1,097,000	11,654,000	7,487,000	2,039,000

<sup>1</sup> Comparable data not available.

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

GENERAL index numbers of factory employment and pay rolls by months, from January 1919 to August 1934, inclusive, together with average indexes for each of the years from 1919 to 1933, inclusive, and for the 8-month period, January to August 1934, inclusive, based on the 3-year average, 1923-25, as 100, are shown in the following table. A chart of these indexes also follows.

TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND PAY-ROLL TOTALS IN MANUFACTURING INDUSTRIES BY MONTHS—JANUARY 1919 to AUGUST 1934, INCLUSIVE

[3-year average, 1923-25=100]

Month	Employment															
	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	105.3	114.9	81.0	82.5	100.7	100.2	96.3	100.5	98.2	95.0	100.8	97.3	79.6	68.7	60.2	73.3
February.....	102.0	113.7	82.6	84.6	102.5	101.5	98.1	101.5	99.7	96.5	102.9	97.4	80.3	69.5	61.1	77.7
March.....	102.4	116.0	83.2	85.9	104.6	101.7	98.8	102.1	100.2	97.6	104.1	96.9	80.7	68.4	58.8	80.8
April.....	102.5	114.5	82.1	85.8	105.0	99.9	98.7	101.4	99.6	97.1	105.3	96.3	80.7	66.1	59.9	82.3
May.....	103.1	112.0	81.9	87.9	105.3	96.8	98.1	100.4	99.1	97.0	105.3	94.8	80.1	63.4	62.6	82.4
June.....	104.3	111.1	81.0	89.8	106.0	93.8	98.0	100.3	99.1	97.8	105.6	92.9	78.4	61.2	66.9	81.0
July.....	106.9	108.5	79.8	88.2	104.9	91.0	97.8	99.4	98.1	97.7	106.1	89.5	77.0	58.9	71.5	78.6
August.....	109.7	108.8	81.2	91.4	105.2	92.1	99.5	101.4	99.3	100.1	107.9	88.8	77.1	60.1	76.4	79.5
September.....	111.7	107.5	83.4	94.5	105.7	94.4	101.5	103.4	100.5	102.2	109.0	89.6	77.4	63.3	80.0	-----
October.....	111.3	103.7	84.1	97.0	104.5	95.3	102.2	103.1	99.6	102.6	107.7	87.7	74.4	64.4	79.6	-----
November.....	112.6	97.4	84.2	99.0	103.2	94.8	101.8	101.4	97.4	101.7	103.6	84.6	71.8	63.4	76.2	-----
December.....	114.4	89.7	83.3	100.5	101.4	96.1	101.5	100.0	96.1	101.2	99.8	82.3	71.0	62.1	74.4	-----
Average....	107.2	108.2	82.3	90.6	104.1	96.5	99.4	101.2	98.9	98.9	104.8	91.5	77.4	64.1	69.0	79.5
Month	Pay rolls															
	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	95.3	117.2	82.8	69.6	94.6	98.8	95.4	100.9	98.4	96.0	102.3	95.9	70.0	53.5	39.5	54.0
February.....	89.6	115.5	81.3	72.4	97.9	104.1	100.8	105.0	104.4	101.2	109.3	98.8	74.3	54.6	40.2	60.6
March.....	90.0	123.7	81.7	74.9	102.5	104.1	102.4	106.5	105.7	102.5	111.6	98.8	75.6	53.1	37.1	64.8
April.....	89.2	120.9	79.0	73.8	103.8	101.8	100.0	104.4	104.5	100.5	112.6	97.7	74.4	49.5	38.8	67.3
May.....	90.0	122.4	77.3	77.2	107.3	97.5	100.7	103.1	104.0	101.3	112.9	95.4	73.4	46.8	42.7	67.1
June.....	92.0	124.2	75.4	80.5	107.5	92.4	98.7	103.3	102.4	101.7	111.2	92.3	69.7	43.4	47.2	64.8
July.....	94.8	119.3	71.7	78.5	103.3	85.7	96.8	99.0	98.5	99.0	107.2	84.3	66.2	39.8	50.8	60.4
August.....	99.9	121.6	73.9	83.0	103.8	89.3	99.3	103.4	101.9	103.3	112.0	83.3	65.9	40.6	56.8	62.1
September.....	104.7	119.8	73.4	87.0	104.3	92.5	98.8	104.4	101.4	104.7	112.9	84.1	63.4	42.9	59.1	-----
October.....	102.2	115.8	72.6	89.5	106.6	95.1	104.6	107.6	102.1	108.2	112.4	82.2	61.3	44.7	59.4	-----
November.....	106.7	107.0	71.7	93.4	104.5	93.7	104.6	104.1	98.5	105.0	104.1	76.8	58.1	42.9	55.5	-----
December.....	114.0	98.0	73.3	95.7	102.9	97.6	105.2	103.5	99.5	105.6	100.7	75.2	57.6	41.5	54.5	-----
Average....	97.4	117.1	76.2	81.3	103.3	96.1	100.6	103.8	101.8	102.4	109.1	88.7	67.5	46.1	48.5	62.6

<sup>1</sup> Average for 8 months.

For comparative purposes the Bureau has computed the group and general index numbers of employment and pay rolls for August 1934 based on the 12-month average for 1926 as 100. These are a continuation of the former series of indexes covering 89 industries and show some slight differences in percentage changes from the previous month when compared with those shown by the revised series. These differences are due to changes in method of construction and weighting factors and to the inclusion of the canning and preserving industry

# EMPLOYMENT & PAYROLLS *in the* MANUFACTURING INDUSTRIES

*3 year average 1923-1925 = 100*

U.S. Department of Labor  
BUREAU OF LABOR STATISTICS  
Washington



Jack Brandt, Jr.

in the revised series of indexes. These indexes on the 1926 base are presented in table 4, which follows.

TABLE 4.—INDEXES OF EMPLOYMENT AND PAY ROLLS (BASED ON THE 12-MONTH AVERAGE FOR 1923=100) IN 14 MAJOR **MANUFACTURING** GROUPS, 2 SUBGROUPS, AND ALL MANUFACTURING COMBINED, FOR AUGUST 1934

Group	Employment index	Pay-roll index
Total manufacturing.....	73.6	55.8
Iron and steel and their products, not including machinery.....	72.0	45.1
Machinery, not including transportation equipment.....	69.2	50.7
Transportation equipment.....	79.5	66.0
Railroad repair shops.....	51.2	44.3
Nonferrous metals and their products.....	71.2	51.0
Lumber and allied products.....	46.6	29.8
Stone, clay, and glass products.....	52.9	33.7
Textiles and their products.....	78.8	58.7
Fabrics.....	82.5	61.3
Wearing apparel.....	70.1	53.5
Leather and its manufactures.....	86.1	67.3
Food and kindred products.....	104.7	91.0
Tobacco manufactures.....	72.9	56.8
Paper and printing.....	89.9	72.7
Chemicals and allied products and petroleum refining.....	97.4	81.8
Rubber products.....	82.0	59.2

### Employment in Nonmanufacturing Industries in August 1934

**G**AINS in employment from July to August were shown in 9 of the 17 nonmanufacturing industries surveyed monthly by the United States Bureau of Labor Statistics and increases in pay rolls were reported in 6. Data for the building-construction industry are not presented here, but are shown in detail under the section "Building construction."

The most pronounced gains in employment and pay rolls (7 percent and 7.5 percent, respectively) were in the metalliferous-mining industry. These gains were due in part to the resumption of operations in a number of plants which were shut down in July, although increased employment was general throughout the industry. The crude-petroleum-producing industry reported a gain of 1.4 percent in employment over the month interval coupled with an increase of 2 percent in pay rolls. The gains in employment in the remaining 7 industries reporting increases were as follows: Electric light and power and manufactured gas, 0.7 percent; wholesale trade, 0.3 percent; real estate, 0.3 percent; banks, 0.2 percent; bituminous-coal mining, 0.2 percent; insurance, 0.1 percent; telephone and telegraph, less than one-tenth of 1 percent.

The most pronounced decrease in employment from July to August was shown in the anthracite-mining industry (7.6 percent) and was due largely to labor troubles. Reports from brokerage concerns continued to show declines in employment and pay rolls, employment in August being 1.9 percent below the level of the preceding month..



Employment in retail trade, based on reports received from 54,129 retail trade establishments employing 767,896 workers in August, showed a decline of 1.7 percent over the month interval. The decrease in employment in the general merchandise group (composed of department stores, variety stores, general merchandise stores, and mail-order houses) was 2.3 percent. The remaining 49,446 retail establishments showed a falling off of 1.3 percent from July to August. The laundry and the dyeing and cleaning industries reported seasonal losses of 1 percent and 2.4 percent, respectively, and the quarrying and nonmetallic-mining industry reported a decrease of 1.5 percent in employment. The decreases in employment in the remaining two industries, electric-railroad and motor-bus operation and maintenance, and hotels, were 0.4 percent and 0.1 percent, respectively.

In table 1 which follows are shown indexes of employment and pay rolls, per capita weekly earnings, average hours worked per week, and average hourly earnings in August 1934 for 13 of the nonmanufacturing industries surveyed monthly by the Bureau of Labor Statistics, together with percentage of changes from July 1934 and August 1933. Similar percentage changes in employment, pay rolls, and per capita weekly earnings, as well as average per capita weekly earnings, are likewise presented for banks, brokerage, insurance, and real estate. Indexes of employment and pay rolls for these last-named industries are not available.

TABLE 1.—EMPLOYMENT, WEEKLY PAY ROLLS, PER CAPITA WEEKLY EARNINGS, AVERAGE HOURS WORKED PER WEEK, AND AVERAGE HOURLY EARNINGS IN NONMANUFACTURING INDUSTRIES IN AUGUST 1934, AND COMPARISON WITH JULY 1934 AND AUGUST 1933

Industry	Employment			Pay roll			Per capita weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index August 1934 (average 1929 =100)	Percentage change from—		Index August 1934 (average 1929 =100)	Percentage change from—		Average in August 1934	Percentage change from—		Average in August 1934	Percentage change from—		Average in August 1934	Percentage change from—	
		July 1934	August 1933		July 1934	August 1933		July 1934	August 1933		July 1934	August 1933		July 1934	August 1933
Coal mining:															
Anthracite.....	49.5	-7.6	+3.8	39.7	-6.1	-14.8	\$23.35	+1.7	-17.9	27.7	+0.7	-21.3	<i>Cents</i> 83.0	+0.1	+0.2
Bituminous.....	77.1	+2	+12.4	50.4	+1.4	+16.4	16.75	+1.1	+3.6	23.4	+1.7	-31.2	71.8	-3	+45.2
Metalliferous mining.....	42.7	+7.0	+16.0	27.0	+7.5	+23.3	20.43	+5	+6.2	36.0	+1.4	-6.8	55.7	-5	+12.5
Quarrying and nonmetallic mining.....	54.7	-1.5	+6.0	34.0	-2.8	+13.7	16.05	-1.4	+7.4	33.7	-6	-11.3	47.9	-1.0	+20.3
Crude-petroleum producing.....	82.7	+1.4	+36.0	61.2	+2.0	+44.0	28.43	+6	+5.9	35.1	+6	-17.4	82.4	( <sup>2</sup> )	+25.3
Public utilities:															
Telephone and telegraph.....	71.0	+( <sup>3</sup> )	+4.3	74.0	+2.3	+12.0	27.60	+2.3	+7.3	39.0	+2.4	+2.6	71.9	+1	+5.2
Electric light and power and manufactured gas.....	85.6	+7	+9.6	79.9	-1.5	+12.7	29.64	-2.1	+2.8	38.3	+3	-7.9	77.2	-2.6	+12.5
Electric-railroad and motor-bus operation and maintenance.....	72.8	-4	+4.7	62.8	-1.6	+7.9	27.52	-1.3	+3.1	44.9	-1.5	-3.9	60.7	+2	+11.8
Trade:															
Wholesale.....	84.3	+3	+5.8	66.4	-1.8	+9.2	26.47	-2.1	+3.3	40.7	-7	-4.1	64.3	-1.7	+7.9
Retail.....	81.8	-1.7	+4.7	67.3	-3.2	+7.3	20.17	-1.5	+2.5	40.1	-8	-2.5	52.7	-7	+5.0
Hotels (cash payments only) <sup>4</sup> .....	86.2	-1	+11.8	64.5	-1.6	+19.4	12.95	-1.4	+6.9	46.7	( <sup>2</sup> )	-6.2	27.1	-1.1	+14.7
Laundries.....	83.7	-1.0	+3.2	66.6	-2.4	+10.4	15.08	-1.4	+7.0	39.7	-8	-2	37.5	-3	+7.3
Dyeing and cleaning.....	78.6	-2.4	+2.3	56.7	-3.8	+13.4	17.67	-1.5	+10.8	40.2	( <sup>2</sup> )	-7	43.9	-5	+11.3
Banks.....	( <sup>5</sup> )	+2	+3.5	( <sup>5</sup> )	+3	+4.2	31.47	+1	+6	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Brokerage.....	( <sup>5</sup> )	-1.9	-27.1	( <sup>5</sup> )	-2.6	-25.1	35.18	-7	+2.7	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Insurance.....	( <sup>5</sup> )	+1	+1.4	( <sup>5</sup> )	-1.5	+4.4	34.61	-1.6	+3.0	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Real estate.....	( <sup>5</sup> )	+3	+7.3	( <sup>5</sup> )	+3	+8.6	21.38	+ <sup>3</sup>	+1.3	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )

<sup>1</sup> Per capita weekly earnings are computed from figures furnished by all reporting establishments. Average hours and average hourly earnings are computed from data furnished by a smaller number of establishments as some firms do not report man-hour information. Percentage changes over year computed from indexes.

<sup>2</sup> No change.

<sup>3</sup> Less than  $\frac{1}{10}$  of 1 percent.

<sup>4</sup> The additional value of board, room, and tips cannot be computed.

<sup>5</sup> Not available.

## Indexes of Employment and Pay-Roll Totals for Nonmanufacturing Industries

INDEX numbers of employment and pay-roll totals for 13 nonmanufacturing industries are presented in table 2. These index numbers show the variation in employment and pay rolls in these industries, by months, from January 1931 through August 1934.

A revision of the indexes, similar to that made for the manufacturing industries, was made for the laundry and the dyeing and cleaning industries in March 1934. The indexes of employment and pay rolls in these industries were adjusted to conform with the trends shown by the 1929 and 1931 census reports and this new series will be continued until further adjustments, if necessary, are made when 1933 census data become available.

TABLE 2.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR NONMANUFACTURING INDUSTRIES, JANUARY 1931 TO AUGUST 1934

(12-month average, 1929=100)

Month	Anthracite mining								Bituminous-coal mining							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	90.6	76.2	52.5	64.1	89.3	61.5	43.2	73.2	93.9	80.8	69.8	75.8	73.3	47.0	36.1	51.3
February.....	89.5	71.2	58.7	63.2	101.9	57.3	56.8	65.8	91.5	77.4	69.3	76.1	68.3	47.0	37.2	54.6
March.....	82.0	73.7	54.6	67.5	71.3	61.2	48.8	82.4	88.8	75.2	67.6	77.8	65.2	46.8	30.7	58.9
April.....	85.2	70.1	51.6	58.2	75.2	72.0	37.4	51.7	85.9	65.5	63.7	72.2	58.5	33.9	28.6	51.4
May.....	80.3	66.9	43.2	63.8	76.1	58.0	30.0	64.0	82.4	62.6	61.2	76.7	54.4	30.7	26.9	54.4
June.....	76.1	63.0	39.5	57.6	67.7	37.4	34.3	53.3	78.4	60.5	61.3	76.7	52.4	27.3	29.2	55.1
July.....	65.1	44.5	43.8	53.6	53.7	34.5	38.2	42.3	76.4	58.6	63.2	77.0	50.4	24.4	33.6	49.7
August.....	67.3	40.2	47.7	49.5	56.4	41.4	46.6	39.7	77.0	59.4	68.6	77.1	50.6	26.4	43.3	50.4
September.....	80.0	55.8	56.8	-----	64.9	47.0	60.7	-----	80.4	62.4	71.8	-----	53.6	30.2	44.1	-----
October.....	86.8	63.9	56.9	-----	91.1	66.7	61.6	-----	81.3	67.0	68.0	-----	56.2	37.8	44.1	-----
November.....	83.5	62.7	61.0	-----	79.5	51.0	47.8	-----	81.1	69.4	74.8	-----	54.6	38.0	50.7	-----
December.....	79.8	62.3	54.5	-----	78.4	56.2	44.3	-----	81.2	70.0	75.4	-----	52.3	37.7	50.8	-----
Average.....	80.5	62.5	51.7	59.7	75.4	53.7	45.8	59.1	83.2	67.4	67.9	76.2	57.6	35.6	37.8	53.2
Month	Metalliferous mining								Quarrying and nonmetallic mining							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	68.3	49.3	32.4	39.6	55.0	29.7	18.1	25.4	64.4	48.9	35.1	39.7	50.4	30.2	18.1	21.3
February.....	65.3	46.9	31.5	40.3	54.6	27.8	17.8	26.0	66.6	47.4	34.8	38.8	54.4	29.6	17.4	21.0
March.....	63.5	45.0	30.0	39.8	52.8	26.5	17.4	25.9	70.0	46.0	35.1	42.0	58.2	28.7	17.8	24.1
April.....	63.9	43.3	29.4	41.7	51.4	25.0	16.4	27.2	76.1	48.6	39.3	48.7	62.6	30.0	20.2	29.9
May.....	62.4	38.3	30.0	40.8	49.3	23.8	17.0	25.6	75.0	50.6	43.4	54.3	62.3	32.3	23.8	35.0
June.....	60.0	32.2	31.5	41.0	46.1	20.1	18.3	26.7	72.3	49.5	47.3	56.6	60.1	30.0	27.5	37.0
July.....	56.2	29.5	33.0	39.9	41.3	16.9	19.0	25.1	71.0	49.5	49.5	55.6	57.3	29.1	28.4	35.0
August.....	55.8	28.6	36.8	42.7	40.2	16.5	21.9	27.0	68.9	51.1	51.6	54.7	55.1	29.7	29.9	34.0
September.....	55.5	29.3	38.9	-----	40.0	17.0	23.9	-----	66.6	52.4	52.6	-----	51.2	30.5	29.3	-----
October.....	53.8	30.5	40.7	-----	37.4	18.0	25.9	-----	64.5	52.4	53.2	-----	48.7	30.1	31.2	-----
November.....	52.8	31.9	40.6	-----	35.1	18.7	25.6	-----	59.3	49.4	51.1	-----	43.3	27.1	28.3	-----
December.....	51.2	33.3	40.6	-----	34.3	18.7	26.2	-----	53.9	42.3	45.3	-----	36.9	22.1	24.4	-----
Average.....	59.1	36.5	34.6	40.7	44.8	21.6	20.6	26.1	67.4	49.0	44.9	48.8	53.4	29.1	24.7	29.7
Month	Crude-petroleum producing								Telephone and telegraph							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	74.8	54.9	57.2	73.2	71.5	46.5	39.9	53.0	90.5	83.0	74.6	70.2	96.3	89.1	71.7	69.0
February.....	73.2	54.4	57.0	72.4	70.9	46.9	41.7	50.5	89.2	82.0	73.9	69.8	94.8	89.6	71.9	67.9
March.....	72.2	51.4	56.5	72.8	73.2	43.2	42.5	52.5	88.6	81.7	73.2	70.0	97.9	88.4	71.6	70.4
April.....	69.8	54.9	56.8	74.0	66.3	44.5	40.1	53.4	88.1	81.2	72.3	70.2	95.9	83.4	67.8	68.8
May.....	67.8	54.5	56.9	76.7	64.7	47.1	41.6	56.4	87.4	80.6	70.1	70.2	94.1	82.8	68.5	71.4
June.....	65.9	54.2	58.0	80.0	62.7	44.8	40.6	56.9	86.9	79.9	69.2	70.4	95.0	82.1	66.6	71.3
July.....	65.3	55.4	59.5	81.6	56.2	44.6	42.2	60.0	86.6	79.1	68.5	71.0	93.3	79.6	66.7	72.3
August.....	62.4	57.4	60.8	82.7	56.3	42.9	42.5	61.2	85.9	77.1	68.1	71.0	92.3	79.1	66.1	74.0
September.....	61.2	56.2	66.2	-----	55.2	41.9	44.4	-----	80.5	78.4	68.3	-----	92.1	75.9	64.6	-----
October.....	60.4	56.8	70.6	-----	54.4	42.5	50.1	-----	84.1	76.2	68.7	-----	91.6	75.7	67.0	-----
November.....	57.6	56.5	72.2	-----	52.0	42.4	50.3	-----	83.5	75.5	68.9	-----	89.7	74.3	67.7	-----
December.....	58.2	57.2	75.0	-----	54.9	41.7	53.2	-----	83.1	74.8	69.4	-----	92.7	73.5	67.7	-----
Average.....	65.7	55.3	62.2	76.7	61.7	44.1	44.1	55.5	86.6	79.1	70.4	70.4	93.7	81.1	68.2	70.6

See footnotes at end of table.

TABLE 2.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR NONMANUFACTURING INDUSTRIES, JANUARY 1931 TO AUGUST 1934—Continued

Month	Electric light and power and manufactured gas								Electric-railroad and motor-bus operation and maintenance <sup>1</sup>							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	99.2	89.3	77.7	82.2	98.6	88.4	73.0	73.8	86.9	79.5	70.6	70.5	85.6	75.4	60.9	59.2
February.....	97.8	87.2	77.4	81.2	99.7	86.0	71.6	74.4	86.6	78.9	70.4	71.0	87.1	74.8	60.6	60.1
March.....	96.7	85.5	76.9	81.7	102.4	85.4	71.9	75.6	86.4	77.6	69.8	71.7	88.1	73.6	59.4	62.2
April.....	97.1	84.8	76.9	82.4	97.6	82.4	69.4	76.8	86.8	78.0	69.5	72.2	86.6	71.8	58.1	62.9
May.....	97.6	84.0	76.9	83.1	98.7	84.2	69.9	77.6	85.9	76.9	69.1	72.6	85.1	72.2	58.2	63.0
June.....	97.2	83.2	77.3	84.0	98.3	80.5	69.9	77.8	85.3	76.5	69.3	73.2	84.8	70.2	58.0	63.2
July.....	96.7	82.3	77.5	85.0	97.4	78.7	70.0	81.1	85.6	75.6	69.4	73.1	83.3	66.4	57.4	63.8
August.....	95.9	81.5	78.1	85.6	96.2	76.7	70.9	79.9	84.8	74.1	69.5	72.8	81.9	63.8	58.2	62.8
September.....	94.7	81.0	80.3	-----	94.3	74.7	71.8	-----	84.4	73.3	69.7	-----	81.2	62.5	57.8	-----
October.....	92.7	79.9	82.2	-----	93.2	74.4	76.2	-----	82.7	72.3	70.6	-----	79.0	61.5	59.8	-----
November.....	91.3	79.1	82.6	-----	93.3	73.2	74.5	-----	81.5	71.8	71.0	-----	79.7	61.7	59.4	-----
December.....	90.3	78.4	81.8	-----	91.2	73.2	74.4	-----	79.9	71.4	70.8	-----	77.8	61.9	59.6	-----
Average.....	95.6	83.0	78.8	83.2	96.7	79.8	72.0	77.1	84.7	75.5	70.0	72.1	83.4	68.0	58.9	62.2
	Wholesale trade								Retail trade							
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	89.5	81.8	75.3	82.4	87.5	74.1	61.7	63.9	90.0	84.3	76.9	84.6	89.4	78.0	62.7	68.8
February.....	88.2	80.9	74.1	83.0	88.4	72.5	58.6	64.6	87.1	80.5	73.4	83.8	86.7	73.7	58.4	67.7
March.....	87.4	79.8	73.1	83.6	89.1	71.3	57.1	65.7	87.8	81.4	71.4	87.2	87.5	73.4	55.1	69.5
April.....	87.4	78.9	73.3	83.9	85.2	68.9	56.0	66.8	90.1	81.6	78.6	88.2	88.3	72.7	60.4	71.5
May.....	87.1	77.9	74.0	84.6	84.7	69.7	57.4	66.3	89.9	80.9	77.0	88.8	88.0	71.1	59.5	71.8
June.....	87.1	77.0	75.7	84.1	84.1	66.2	57.3	66.5	89.1	79.4	78.3	88.2	87.6	68.2	60.5	71.6
July.....	86.8	76.6	76.9	84.0	83.3	64.7	59.1	67.6	83.9	74.6	74.6	83.3	83.3	63.3	58.1	69.5
August.....	86.5	76.4	79.7	84.3	82.1	63.2	60.8	66.4	81.8	72.6	78.1	81.8	80.3	60.7	62.7	67.3
September.....	86.1	77.1	82.1	-----	81.4	63.1	62.3	-----	86.6	77.8	86.0	-----	83.5	64.6	69.2	-----
October.....	85.2	77.8	83.5	-----	79.9	63.9	66.0	-----	89.8	81.3	89.6	-----	84.6	67.1	72.3	-----
November.....	84.1	77.6	83.4	-----	79.7	63.3	64.1	-----	90.9	81.7	91.6	-----	85.4	66.9	72.6	-----
December.....	83.7	77.0	83.3	-----	77.8	62.2	64.5	-----	106.2	95.2	105.4	-----	94.1	73.6	80.3	-----
Average.....	86.6	78.2	77.9	83.7	83.6	67.0	60.4	66.0	89.4	80.9	81.7	85.7	86.6	69.4	64.3	69.7
	Laundries <sup>2</sup>								Dyeing and cleaning <sup>3</sup>							
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	94.3	88.2	78.6	78.5	90.7	80.0	60.7	61.7	82.1	75.8	67.4	68.1	73.7	62.4	44.2	46.8
February.....	93.7	86.3	77.5	78.4	89.6	76.7	58.1	61.7	80.7	74.4	65.6	68.1	71.2	59.0	40.2	46.3
March.....	93.2	85.4	76.1	79.2	89.6	75.0	55.4	62.7	81.3	74.4	65.8	72.4	71.7	58.5	38.9	51.7
April.....	94.3	85.4	78.5	80.5	90.9	74.7	56.6	64.4	88.4	76.9	74.9	79.9	81.9	62.5	51.7	60.8
May.....	94.1	84.8	76.6	82.1	90.5	73.9	57.1	66.9	89.3	78.0	75.7	84.3	82.1	63.8	51.0	65.1
June.....	94.8	84.4	79.2	84.0	91.2	71.8	59.4	68.3	91.4	78.6	79.1	84.9	84.5	62.4	53.7	64.1
July.....	95.6	83.6	79.5	84.6	91.5	69.4	58.7	68.2	91.1	76.1	76.6	80.5	81.8	56.9	50.0	58.9
August.....	94.0	82.2	81.1	83.7	88.6	66.9	60.3	66.6	86.4	73.4	76.8	78.6	75.9	53.4	50.0	56.7
September.....	93.0	81.9	82.6	-----	88.0	65.8	63.5	-----	88.0	76.9	81.9	-----	78.3	57.9	57.1	-----
October.....	91.8	80.7	81.3	-----	85.6	64.1	62.5	-----	87.0	76.0	81.6	-----	77.2	55.8	57.4	-----
November.....	89.8	79.4	78.4	-----	82.6	61.9	60.7	-----	83.2	72.0	76.1	-----	70.8	49.6	52.5	-----
December.....	88.8	79.1	78.4	-----	81.0	61.4	61.1	-----	78.4	69.5	70.5	-----	64.4	45.9	47.3	-----
Average.....	93.1	83.5	78.8	81.4	88.3	70.1	59.5	65.1	85.6	75.2	74.3	77.1	76.1	57.3	49.5	56.3
	Hotels															
	1931	1932	1933	1934	1931	1932	1933	1934								
January.....	95.0	83.2	73.8	81.5	91.0	73.9	55.7	60.8								
February.....	96.8	84.3	73.8	84.8	93.7	73.9	55.9	65.2								
March.....	96.8	84.0	72.4	86.4	93.4	72.4	53.5	66.6								
April.....	95.9	82.7	71.9	86.6	89.9	69.6	51.7	66.5								
May.....	92.5	80.1	71.9	85.7	87.7	67.0	51.8	65.9								
June.....	91.6	78.0	73.6	86.2	85.4	63.8	52.3	66.2								
July.....	93.3	78.4	75.6	86.3	85.2	61.8	53.3	65.6								
August.....	92.8	77.6	77.1	86.2	83.8	59.6	54.0	64.5								
September.....	90.6	77.0	78.7	-----	81.9	59.1	55.6	-----								
October.....	87.4	75.4	77.0	-----	79.7	58.6	56.2	-----								
November.....	84.9	74.3	75.8	-----	77.1	57.5	55.2	-----								
December.....	83.1	73.2	77.6	-----	75.4	56.6	57.6	-----								
Average.....	91.7	79.0	74.9	85.5	85.4	64.5	54.4	65.1								

<sup>1</sup> Average for 8 months.<sup>2</sup> Not including electric-railroad car building and repairing; see transportation equipment and railroad repair-shop groups, manufacturing industries, table 1.<sup>3</sup> Revised to conform with average shown by 1931 Census of Manufactures.

### Employment in Building Construction in August 1934

THE percentages of change in employment, pay rolls, and man-hours in building construction in August as compared with July, were as follows:

	<i>Percent</i>
Total employment.....	+1.2
Total pay rolls.....	+.3
Total man-hours worked.....	+.3
Average weekly earnings.....	-.9
Average hours per week per man.....	-1.7
Average hourly earnings.....	+1.4

The following table is based on returns made by 10,949 firms engaged in public and private building-construction projects not aided by Public Works Administration funds. These reports include all trades, from excavation through painting and interior decoration, which are engaged in erecting, altering, or repairing buildings. Work on roads, bridges, docks, etc., is omitted. The reports cover building operations in various localities in 34 States and the District of Columbia.

For purposes of comparison in this study, all reports were reduced to a 1-week basis if not originally so reported.

In August the weekly pay roll for 83,533 workers amounted to \$1,926,461 as compared with \$1,920,720 earned by 82,523 workers employed by the identical firms in July.

In August the average weekly earnings were \$23.06 as compared with \$23.27 for July. These are per capita weekly earnings, computed by dividing the total amount of the weekly pay roll by the total number of employees—part time as well as full time.

Reports from 10,479 firms—95.7 percent of the 10,949 cooperating firms—gave the man-hours worked by the employees, namely, 2,240,970 in August as compared with 2,233,912 in July.

The average hours per week per man—29 in August and 29.5 in July—were computed by dividing the number of man-hours by the number of workers employed by those firms which reported man-hours.

The average hourly earnings—79.7 in August and 78.6 cents in July—were computed by dividing the pay roll of those firms which reported man-hours, by the number of man-hours.

EMPLOYMENT, PAY ROLLS, AVERAGE WEEKLY EARNINGS, AVERAGE HOURS PER WEEK PER MAN, AND AVERAGE HOURLY EARNINGS IN THE **BUILDING-CONSTRUCTION** INDUSTRY IN AUGUST 1934, AND PERCENTAGES OF CHANGE FROM JULY 1934

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

Locality	Number of firms reporting	Employment		Pay rolls		Average weekly earnings		Average hours per week per man <sup>1</sup>		Average hourly earnings <sup>1</sup>	
		Number August 1934	Percentage change from July 1934	Amount August 1934	Percentage change from July 1934	Amount August 1934	Percentage change from July 1934	Number August 1934	Percentage change from July 1934	August 1934	Percentage change from July 1934
All localities.....	10,949	83,533	+1.2	\$1,926,461	+0.3	\$23.06	-0.9	29.0	-1.7	<i>Cents</i> 79.7	+1.4
Alabama: Birmingham...	91	552	+41.9	9,999	+48.3	18.11	+4.4	29.4	+7.7	61.7	-2.5
California:											
Los Angeles.....	19	1,067	-4.8	<i>23,719</i>	-7.2	<i>22.23</i>	-2.5	30.8	-7.2	<i>72.1</i>	+5.1
San Francisco-Oakland.....	27	<i>954</i>	+5	<i>21,687</i>	+11.7	<i>22.73</i>	+11.1	<i>25.7</i>	+2.0	<i>88.3</i>	+8.9
Other localities.....	26	<i>239</i>	+29.6	<i>5,400</i>	+45.2	<i>18.69</i>	+12.1	<i>24.6</i>	+8.8	<i>76.0</i>	+3.1
The State.....	72	<i>2,310</i>	+7	<i>50,806</i>	+4.4	<i>21.99</i>	+3.6	<i>28.0</i>	-3.1	<i>78.7</i>	+7.1
Colorado: Denver.....	212	487	-9.5	10,179	-1.0	20.90	+9.4	25.0	+5.0	83.6	+4.2
Connecticut:											
Bridgeport.....	113	466	-11.7	10,461	-13.0	22.45	-1.4	31.0	( <sup>2</sup> )	73.3	-1.2
Hartford.....	253	1,046	+1.5	23,162	-3.1	22.14	-4.5	31.4	-4.3	70.6	( <sup>2</sup> )
New Haven.....	167	983	+7.8	24,478	+6.4	24.90	-1.3	34.5	-9	72.3	-6
The State.....	533	2,495	+1.0	58,101	-1.4	23.29	-2.3	32.5	-2.1	71.8	-4
Delaware: Wilmington...	100	1,012	+12.7	19,288	+8.4	19.06	-3.8	29.2	-4.6	65.4	+1.1
District of Columbia.....	397	4,361	+4.1	120,506	+6.5	27.63	+2.3	31.0	-1.6	88.4	+4.2
Florida:											
Jacksonville.....	47	209	+18.8	3,333	+13.4	15.95	-4.4	26.5	-4.7	60.3	+3
Miami.....	70	1,022	-2	20,063	+8.6	19.63	+8.8	30.1	+6.7	65.2	+1.9
The State.....	117	1,231	+2.6	23,396	+9.3	19.01	+6.6	29.5	+5.0	64.4	+1.6
Georgia: Atlanta.....	139	970	+6	15,564	+2.4	16.05	+1.8	27.0	-3.6	58.9	+5.0
Illinois:											
Chicago.....	139	<i>2,455</i>	-15.2	<i>64,736</i>	-19.5	<i>26.37</i>	-5.1	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Other localities.....	93	<i>1,504</i>	-9.0	<i>32,994</i>	-7.4	<i>21.94</i>	+1.8	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
The State.....	232	<i>3,959</i>	-12.9	<i>97,730</i>	-15.8	<i>24.69</i>	-3.2	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Indiana:											
Evansville.....	63	281	+12.4	4,821	+12.9	17.16	+5	23.5	+4.0	72.9	-3.6
Fort Wayne.....	79	209	-14.0	3,720	-17.8	17.80	-4.5	24.3	-2.8	73.2	-1.9
Indianapolis.....	154	1,099	+34.4	23,642	+19.2	21.95	+5.4	29.5	-1.0	74.4	+6.3
South Bend.....	37	197	-12.1	3,739	-29.7	18.98	-20.0	27.3	+5.0	70.4	-6.1
The State.....	333	1,764	+5.7	35,922	+5.8	20.36	+1	27.7	+7	73.7	+2.5
Iowa: Des Moines.....	95	610	-20.3	12,580	-37.5	20.62	-21.6	27.8	-13.1	73.9	-11.2
Kansas: Wichita.....	64	260	-8	4,507	-5.4	17.33	-4.7	27.8	-3.5	62.8	-9
Kentucky: Louisville.....	139	713	-5.4	13,963	-6.6	19.58	-1.3	30.4	-2.6	64.6	+1.4
Louisiana: New Orleans.....	109	1,099	+34.4	19,490	+34.8	17.73	+3	28.3	-3.4	62.7	+3.8
Maine: Portland.....	86	370	-7.7	8,233	-4.9	22.25	+3.1	31.6	+2.9	70.3	-1
Maryland: Baltimore.....	107	<i>1,215</i>	-1.2	<i>23,181</i>	-8.0	<i>19.08</i>	-6.9	<i>32.5</i>	+1.5	<i>62.1</i>	+5.8
Massachusetts: All localities.....	683	<i>4,911</i>	-7	<i>123,324</i>	-3.9	<i>25.11</i>	-3.3	<i>31.0</i>	-4.6	<i>80.9</i>	+1.4
Michigan:											
Detroit.....	480	3,396	+1.1	77,304	-9	22.76	-1.9	30.6	-6	74.5	-1.1
Flint.....	49	188	-26.6	3,562	-35.2	18.95	-11.8	26.2	-17.1	72.3	+6.5
Grand Rapids.....	92	286	-22.7	4,982	-25.2	17.42	-3.3	27.8	-5.1	62.6	+1.8
The State.....	621	3,870	-2.9	85,848	-4.8	22.18	-1.9	30.2	-1.6	73.6	( <sup>2</sup> )

See footnotes at end of table.

EMPLOYMENT PAY ROLLS, AVERAGE WEEKLY EARNINGS, AVERAGE HOURS PER WEEK PER MAN, AND AVERAGE HOURLY EARNINGS IN THE **BUILDING-CONSTRUCTION** INDUSTRY IN AUGUST 1934, AND PERCENTAGES OF CHANGE FROM JULY 1934—Continued

Locality	Number of firms reporting	Employment		Pay rolls		Average weekly earnings		Average hours per week per man <sup>1</sup>		Average hourly earnings <sup>1</sup>	
		Number August 1934	Percentage change from July 1934	Amount August 1934	Percentage change from July 1934	Amount August 1934	Percentage change from July 1934	Number August 1934	Percentage change from July 1934	August 1934	Percentage change from July 1934
<b>Minnesota:</b>										<i>Cents</i>	
Duluth.....	53	157	+8.3	\$3,316	+19.3	\$21.12	+10.2	30.1	+15.8	70.6	-3.4
Minneapolis.....	210	1,600	-9.6	37,373	-11.0	23.36	-1.6	31.1	-1.3	75.0	-4.4
St. Paul.....	157	881	+8.6	19,596	+13.6	22.24	+4.6	34.2	+3.3	65.0	+1.1
The State.....	420	2,638	-3.2	60,285	-2.8	22.85	+4.4	32.1	+1.3	71.2	-0.7
<b>Missouri:</b>											
Kansas City <sup>4</sup> .....	285	1,649	+8.6	40,596	+6.5	24.62	-1.9	27.9	-1.1	89.0	-0.7
St. Louis.....	586	2,691	+5.6	72,474	+7.5	26.93	+1.8	25.6	-1.5	104.9	+3.0
The State.....	871	4,340	+6.7	113,070	+7.1	26.05	+4.4	26.5	-1.1	98.6	+1.5
<b>Nebraska: Omaha.....</b>	161	742	-23.1	14,860	-27.0	20.03	-5.0	28.7	-4.7	69.8	-0.3
<b>New York:</b>											
New York City.....	476	7,961	+3.3	246,589	+3.2	30.95	-1.1	28.7	+3.3	108.0	-0.4
Other localities.....	352	8,958	+8.4	207,174	+7.5	23.13	-1.8	29.6	-2.6	78.0	+1.7
The State.....	828	16,919	+6.0	453,563	+5.1	26.81	-1.8	29.2	-1.0	91.9	+0.4
<b>North Carolina: Charlotte.....</b>	49	338	-8.6	5,553	-17.6	16.43	-9.8	29.5	-8.7	55.8	-0.9
<b>Ohio:</b>											
Akron.....	88	299	+2.0	5,965	-9.5	19.95	-11.4	26.0	-11.6	76.7	+0.4
Cincinnati <sup>5</sup> .....	435	1,595	+3.3	36,756	+1.2	23.04	+8.7	27.9	-4.4	82.6	+1.0
Cleveland.....	592	2,368	-5.2	63,757	-7.0	26.92	-1.9	26.8	-3.9	100.5	+1.8
Dayton.....	135	438	-5.2	9,004	-5.3	20.56	-1.1	28.2	+1.8	73.0	-0.6
Youngstown.....	88	426	+7.8	10,540	+23.4	24.74	+14.4	28.5	+4.8	86.7	+9.2
The State.....	1,338	5,126	-2.1	126,022	-2.7	24.58	-0.6	27.3	-2.2	89.8	+1.4
<b>Oklahoma:</b>											
Oklahoma City.....	99	556	+23.8	10,997	+23.8	19.78	( <sup>2</sup> )	30.1	+6.7	66.0	-5.6
Tulsa.....	51	286	-2.4	5,603	-3.5	19.59	-1.2	30.2	+3.1	66.5	-2.4
The State.....	150	842	+13.5	16,600	+13.0	19.71	-0.5	30.2	+5.6	66.2	-4.3
<b>Oregon: Portland.....</b>	179	1,015	+8.2	20,246	+7.8	19.95	-0.3	24.4	-3.6	82.6	+4.0
<b>Pennsylvania:<sup>6</sup></b>											
Erie area.....	25	491	+24.3	5,089	+5.8	10.36	-14.9	13.6	-17.6	69.5	+2.4
Philadelphia area.....	401	5,479	+2.6	70,598	+2.1	20.29	-4.4	27.7	-1.4	74.8	+0.5
Pittsburgh area.....	231	1,721	+3.4	46,743	+1.5	27.16	-2.0	28.7	-4.0	96.7	+1.6
Reading area.....	44	281	-5.7	5,630	+8.8	20.04	+6.9	29.9	+4.2	67.1	+2.6
Scranton area.....	33	201	-4.3	4,786	+1.7	23.81	+6.3	32.4	+5.5	73.6	+0.8
Other areas.....	297	2,925	+6.2	55,536	+7.7	18.99	+1.3	29.1	+0.7	64.7	+0.5
The State.....	1,031	9,098	+4.4	188,582	+3.5	20.71	-0.8	27.9	-1.8	74.9	+0.4
<b>Rhode Island: Providence.....</b>	242	1,395	-39.8	30,021	-40.5	21.52	-1.1	31.2	-7.4	69.1	+6.8
<b>Tennessee:</b>											
Chattanooga.....	34	183	+5.8	2,651	+0.9	14.49	-4.5	23.8	-8.8	60.1	+2.9
Knoxville.....	42	396	+36.1	5,773	+41.0	14.58	+3.6	24.6	+7.0	59.3	-3.3
Memphis.....	72	363	+6.8	6,158	-4.4	16.96	-10.5	26.2	-3.0	65.0	-7.1
Nashville.....	83	763	+10.4	12,162	+6.7	15.94	-3.4	25.9	-9.1	61.5	+6.2
The State.....	231	1,705	+14.0	26,744	+8.9	15.69	-4.5	25.5	-5.2	61.7	+0.7

See footnotes at end of table.

**EMPLOYMENT, PAY ROLLS, AVERAGE WEEKLY EARNINGS, AVERAGE HOURS PER WEEK PER MAN, AND AVERAGE HOURLY EARNINGS IN THE BUILDING-CONSTRUCTION INDUSTRY IN AUGUST 1934, AND PERCENTAGES OF CHANGE FROM JULY 1934—Continued**

Locality	Number of firms reporting	Employment		Pay rolls		Average weekly earnings		Average hours per week per man <sup>1</sup>		Average hourly earnings <sup>1</sup>	
		Number August 1934	Percentage change from July 1934	Amount August 1934	Percentage change from July 1934	Amount August 1934	Percentage change from July 1934	Number August 1934	Percentage change from July 1934	August 1934	Percentage change from July 1934
<b>Texas:</b>										<i>Cents</i>	
Dallas.....	194	752	+4.7	\$11,377	+9.2	\$15.13	+4.3	24.1	-3.2	62.9	+7.9
El Paso.....	25	87	-23.0	1,627	-28.2	18.70	-6.7	24.6	-14.3	76.0	+8.6
Houston.....	191	1,177	+16.8	21,595	+21.2	18.35	+3.8	27.2	+5.4	67.3	-2.5
San Antonio.....	102	310	+6.5	4,518	+10.5	14.57	+3.7	26.6	+10.4	54.8	-5.4
The State.....	512	2,326	+9.2	39,117	+13.1	16.82	+3.6	25.9	+2.0	64.4	+1.1
<b>Utah: Salt Lake City.....</b>	139	265	+38.0	6,012	+49.8	22.69	+8.5	28.7	+12.5	79.2	-3.6
<b>Virginia:</b>											
Norfolk-Portsmouth...	77	373	-15.4	6,075	-21.3	16.29	-7.0	26.9	-4.3	59.7	-3.6
Richmond.....	128	953	+7.6	19,675	+6.8	20.65	-7	31.6	+6	66.0	+6
The State.....	205	1,326	-1	25,750	-1.5	19.42	-1.4	30.2	(2)	64.3	-1.2
<b>Washington:</b>											
Seattle.....	165	915	+27.1	20,810	+31.1	22.74	+3.1	25.5	+9.0	89.2	-5.5
Spokane.....	52	230	+7.5	6,019	+9.0	26.17	+1.5	31.0	-4.3	84.4	+6.2
Tacoma.....	71	179	+1.1	3,635	-12.2	20.31	-13.2	22.8	-17.1	89.0	+4.7
The State.....	288	1,324	+19.2	30,464	+19.3	23.01	+1	26.1	+1.2	88.2	-1.1
<b>West Virginia: Wheeling..</b>	19	81	-19.8	1,332	-36.5	16.44	-20.9	27.5	-15.9	60.5	-6.1
<b>Wisconsin: All localities..</b>	156	1,894	+3.6	35,823	+7.9	19.22	+3.6	32.6	+3.8	60.6	+1.6

<sup>1</sup> Averages computed from reports furnished by 10,479 firms.

<sup>2</sup> No change.

<sup>3</sup> Data not available.

<sup>4</sup> Includes both Kansas City, Mo., and Kansas City, Kans.

<sup>5</sup> Includes Covington and Newport, Ky.

<sup>6</sup> Each separate area includes from 2 to 8 counties.

### Trend of Employment in August 1934, by States

**F**LUCTUATIONS in employment and pay-roll totals, in August 1934, as compared with July 1934, in certain industrial groups are shown by States in the following table. 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, which are shown by city and State totals in the section, "Building construction." 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, dyeing and cleaning, and banks, brokerage, insurance, real-estate 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.

The percentage changes shown in the accompanying table, unless otherwise noted, are unweighted; 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.

The anthracite-mining industry, which is confined entirely to the State of Pennsylvania, showed decreases from July to August of 7.6 percent in employment and 6.1 percent in pay rolls. These percentages are based on reports received from 160 mines which employed in August 68,799 workers whose earnings in 1 week ending nearest the 15th were \$1,606,335.

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

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN JULY AND AUGUST 1934, BY STATES

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

State	Total—all groups					Manufacturing				
	Number of establishments	Number on pay roll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934	Number of establishments	Number on pay roll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934
Alabama.....	1,312	66,575	-13.3	\$919,654	-10.9	264	41,827	-17.8	\$529,509	-16.4
Arizona.....	576	12,937	+1.1	256,280	-3.8	54	2,408	+2.1	42,522	-2.9
Arkansas.....	<i>1,657</i>	<i>22,684</i>	<i>+1.2</i>	<i>352,566</i>	<i>+1.2</i>	<i>54</i>	<i>15,361</i>	<i>+2.1</i>	<i>203,534</i>	<i>+4.1</i>
California.....	<i>1,908</i>	<i>312,462</i>	<i>+11.8</i>	<i>7,350,884</i>	<i>+14.3</i>	<i>1,083</i>	<i>196,210</i>	<i>+19.7</i>	<i>4,322,968</i>	<i>+25.8</i>
Colorado.....	1,363	44,042	+2.7	895,998	-7.7	191	16,515	+1.3	325,788	-2.3
Connecticut.....	2,378	175,317	+1.4	3,457,051	+1.8	738	141,190	+2.1	2,621,835	+2.8
Delaware.....	233	13,110	+3.4	264,816	+6	73	8,715	+5.4	158,497	+1.9
Dist. of Columbia.....	933	33,449	-2.1	780,264	-3.9	52	3,492	-5.5	109,526	-3.0
Florida.....	1,185	36,380	-2.5	625,723	-1.6	239	18,780	-3.0	278,933	-1.1
Georgia.....	1,627	100,691	+1.2	1,345,036	-(9)	370	75,513	+1.6	861,737	+6
Idaho.....	499	12,447	+2.3	243,027	+2.7	64	6,416	+3.4	124,314	+1.2
Illinois.....	<i>4,485</i>	<i>451,847</i>	<i>+1.0</i>	<i>9,721,345</i>	<i>+2</i>	<i>2,111</i>	<i>280,891</i>	<i>+1.9</i>	<i>5,701,822</i>	<i>+1.2</i>
Indiana.....	2,927	165,617	+3	3,136,147	-2	716	119,661	+7.7	2,230,582	+4
Iowa.....	1,994	57,378	+3	1,093,022	-2.3	456	29,786	+3	552,450	-1.3
Kansas.....	<i>2,210</i>	<i>59,570</i>	<i>+2.2</i>	<i>1,222,635</i>	<i>+3.1</i>	<i>448</i>	<i>32,834</i>	<i>+4.6</i>	<i>699,613</i>	<i>+4.1</i>
Kentucky.....	1,683	87,699	-1.9	1,450,796	-1.4	332	34,620	-3.2	554,598	-3.2
Louisiana.....	1,131	44,449	-1.5	718,635	-2.5	238	23,602	-3.2	318,695	-2.0
Maine.....	917	50,138	-2.1	884,526	+6	296	40,180	-2.6	670,469	+4
Maryland.....	<i>1,582</i>	<i>107,222</i>	<i>-9</i>	<i>2,119,222</i>	<i>-4.0</i>	<i>647</i>	<i>73,770</i>	<i>-9</i>	<i>1,361,598</i>	<i>-5.8</i>
Massachusetts.....	<i>8,949</i>	<i>423,449</i>	<i>-(9)</i>	<i>8,889,063</i>	<i>-3</i>	<i>1,597</i>	<i>228,657</i>	<i>+1.0</i>	<i>4,360,216</i>	<i>+1.4</i>
Michigan.....	3,735	422,852	-2.9	9,627,334	+7.4	1,055	361,584	-4.6	7,946,619	+4.1
Minnesota.....	2,422	94,267	+5.3	1,955,614	+1.7	414	44,669	+12.5	847,576	+6.9
Mississippi.....	657	19,088	+4.1	262,579	+5.5	126	12,421	+6.4	150,590	+11.1
Missouri.....	4,635	166,750	-5	3,481,077	-1.5	885	82,725	-1	1,599,025	-7
Montana.....	777	12,385	+1.8	281,101	+7	95	3,908	+6.0	85,496	+6.0
Nebraska.....	2,104	35,871	+1.5	747,686	+9	167	13,835	+7.6	290,713	+8.9
Nevada.....	278	3,629	+2.5	88,811	+3	32	918	+4.8	23,983	+4.6
New Hampshire.....	816	46,325	+3	793,234	-2.3	223	38,357	-1	618,232	-3.6
New Jersey.....	3,906	256,542	+2	5,713,043	+1.2	<i>723</i>	<i>212,599</i>	<i>+7</i>	<i>4,532,712</i>	<i>+2.1</i>
New Mexico.....	394	7,336	-1.1	136,204	+1.5	34	883	-8.8	14,707	+6.8
New York.....	14,755	708,758	-5	18,017,379	-7.7	<i>1,896</i>	<i>369,890</i>	<i>+1.0</i>	<i>8,665,093</i>	<i>+2.3</i>
North Carolina.....	1,270	138,444	+1.5	1,679,563	+2.5	598	128,067	+1.6	1,510,713	+3.0
North Dakota.....	490	5,243	-1.5	103,026	-5.4	54	981	-3.2	20,964	-9.6
Ohio.....	8,816	513,306	-1.1	10,280,502	-2.4	2,643	360,760	-1.2	6,985,492	-2.3
Oklahoma.....	1,796	40,098	+3.6	798,760	+1.5	184	11,959	+3.4	227,223	+2.6
Oregon.....	1,465	50,540	+13.9	1,001,871	+12.8	280	28,470	+21.6	508,250	+24.1
Pennsylvania.....	9,444	744,622	-2	15,066,330	-2	<i>1,947</i>	<i>409,989</i>	<i>+3</i>	<i>7,653,196</i>	<i>+3.9</i>
Rhode Island.....	1,282	78,287	-5.1	1,406,272	-5.1	420	58,744	-0.1	996,189	-7.3
South Carolina.....	728	64,009	-4	746,144	-2.0	224	57,051	-1	630,740	-2.1
South Dakota.....	454	8,239	+9	181,140	-1.2	51	2,515	+3.4	49,061	-2.2
Tennessee.....	1,442	87,248	+3	1,354,029	+1.5	337	60,233	+9	870,334	+2.4
Texas.....	<i>1,357</i>	<i>75,878</i>	<i>+1</i>	<i>1,670,634</i>	<i>+1.6</i>	<i>399</i>	<i>39,865</i>	<i>+6</i>	<i>829,871</i>	<i>+1.2</i>
Utah.....	681	15,602	+4	368,423	-9	114	7,039	-1.2	120,138	-6.1
Vermont.....	569	15,185	+4.0	286,862	+3	150	8,419	+7.2	151,993	+9
Virginia.....	2,275	101,065	+1.1	1,678,693	+5	453	68,104	+1.6	1,076,049	+2.0
Washington.....	3,308	88,455	+7.3	1,860,672	+6.2	521	44,163	+15.9	823,684	+18.4
West Virginia.....	1,292	136,695	-1.1	2,510,777	-2.3	276	54,009	-2.8	990,989	-2.2
Wisconsin.....	<i>1,042</i>	<i>156,455</i>	<i>-2.2</i>	<i>3,020,603</i>	<i>+1.5</i>	<i>770</i>	<i>124,186</i>	<i>-2.5</i>	<i>2,345,613</i>	<i>+1.7</i>
Wyoming.....	374	7,245	+1.7	174,219	+5.5	44	1,722	+4.9	44,957	+8.7

<sup>1</sup> Includes automobile dealers and garages, and sand, gravel, and building stone.<sup>2</sup> Includes banks, insurance, and office employment.<sup>3</sup> Less than 1/10 of 1 percent.<sup>4</sup> Includes building and contracting.<sup>5</sup> Includes construction, municipal, agricultural, and office employment, amusement and recreation, professional, and transportation services.<sup>6</sup> Weighted percentage change.<sup>7</sup> Includes laundries.<sup>8</sup> Includes laundering and cleaning, but does not include food, canning, and preserving.<sup>9</sup> Includes construction but does not include hotels and restaurants, and public works.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS  
IN JULY AND AUGUST 1934, BY STATES—Continued

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

State	Wholesale trade					Retail trade				
	Number of establishments	Number on pay roll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934	Number of establishments	Number on pay roll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934
Alabama.....	124	2,413	+1.3	\$53,954	— <sup>(3)</sup>	684	6,302	+2.1	\$110,338	—0.1
Arizona.....	64	1,005	+2.3	19,909	—7.0	315	3,354	—3.3	63,907	—5.6
Arkansas.....	60	1,106	— .3	28,332	—1.1	226	2,658	—1.7	49,957	— .6
California.....	101	5,717	+1.7	153,196	— .5	122	23,468	+2.7	482,905	+5.3
Colorado.....	144	3,486	+3.6	86,336	—2.5	609	9,300	+2.9	169,005	—1.1
Connecticut.....	210	4,799	+6.1	108,126	+1.3	1,124	14,217	—4.8	302,835	—4.4
Delaware.....	16	536	— .8	12,201	— .1	88	1,414	—2.9	30,044	—3.0
Dist. of Columbia.....	51	1,100	— .9	33,717	—2.3	709	12,412	—1.6	256,675	—4.9
Florida.....	200	3,146	+1.9	64,626	— .4	446	6,057	—2.8	107,539	—3.0
Georgia.....	102	1,438	+1.1	34,810	— .1	808	9,293	—1.4	150,411	—1.3
Idaho.....	53	486	+5.2	12,583	+2.9	270	2,173	+1.0	40,628	— <sup>(3)</sup>
Illinois.....	410	12,644	+ .6	334,152	—2.4	1,222	53,123	—1.4	1,056,887	—3.8
Indiana.....	358	5,698	— .1	134,768	—2.3	1,412	18,299	— .6	332,196	—1.1
Iowa.....	162	2,999	— .4	74,015	—4.2	890	9,270	— .8	163,590	—5.3
Kansas.....	165	3,037	+8.4	67,819	+7.8	1,176	9,144	—2.0	163,642	—1.3
Kentucky.....	144	2,162	—1.7	46,203	—1.3	634	8,189	—7.3	142,639	—15.0
Louisiana.....	198	3,252	+ .9	71,610	—3.6	480	8,176	+2.4	130,193	— .7
Maine.....	97	1,638	+ .3	38,580	— .4	266	2,824	—1.4	54,159	—1.8
Maryland.....	175	2,954	<sup>(10)</sup>	69,124	—1.8	469	12,252	—4.1	257,484	—5.5
Massachusetts.....	854	18,887	—1.4	492,053	—2.8	4,577	67,663	—2.0	1,352,267	—2.5
Michigan.....	289	6,182	— .2	157,753	—2.2	1,609	29,074	— .9	607,194	—2.2
Minnesota.....	265	7,762	+ .6	200,300	—4.0	1,297	16,093	—3.3	304,480	—3.7
Mississippi.....	75	1,213	+ .9	23,264	—4.9	213	2,279	—2.9	35,197	—4.2
Missouri.....	1,106	15,097	—2.5	387,375	—4.9	2,015	28,727	— .7	592,327	—2.5
Montana.....	76	867	+ .2	23,264	—2.3	378	3,144	<sup>(10)</sup>	66,205	— .3
Nebraska.....	441	3,384	— .7	87,725	—3.1	1,046	9,348	—2.8	170,904	—2.5
Nevada.....	46	319	+6.3	10,347	— .2	110	874	—1.5	18,740	—4.2
New Hampshire.....	40	482	+1.3	12,739	+ .3	323	3,035	— .6	57,753	—1.8
New Jersey.....	232	4,290	—1.0	125,072	—1.2	2,105	19,007	—2.7	436,049	—2.9
New Mexico.....	32	292	—2.7	7,287	—1.8	211	1,658	<sup>(10)</sup>	29,922	—1.8
New York.....	3,091	57,681	+ <sup>(3)</sup>	1,778,372	— .1	7,809	129,788	—2.6	3,080,270	—3.8
North Carolina.....	56	690	—3.4	16,825	—5.2	443	4,410	— .7	66,083	—2.9
North Dakota.....	93	474	+1.3	11,563	—3.4	150	1,346	—1.3	20,799	—2.5
Ohio.....	1,051	15,805	— .1	403,106	—2.2	3,860	59,226	—2.6	1,133,875	—3.3
Oklahoma.....	159	2,354	— .5	56,914	—3.5	988	8,897	—2.1	162,584	—4.2
Oregon.....	279	4,969	+25.9	114,289	+12.4	613	8,732	+ .6	170,879	— .6
Pennsylvania.....	1,190	19,688	+ .1	543,068	—2.0	3,591	59,763	—2.7	1,188,604	—4.0
Rhode Island.....	91	1,652	—3.1	43,644	—3.5	610	9,319	—3.7	182,890	—1.5
South Carolina.....	70	881	— .1	19,896	—2.2	315	3,283	—1.4	45,606	—1.3
South Dakota.....	43	503	— .2	11,438	—5.5	244	1,628	—1.5	27,796	—2.5
Tennessee.....	213	3,327	+ .7	71,362	— .8	501	9,335	— .9	162,389	—2.3
Texas.....	200	4,038	—1.3	97,406	—1.3	425	12,588	—3.7	232,002	—2.3
Utah.....	80	1,308	— .4	36,119	+1.8	336	3,274	— .2	64,699	—1.2
Vermont.....	26	454	—9.9	10,694	—4.6	172	1,765	+1.2	34,043	+1.2
Virginia.....	201	3,834	—1.3	77,898	+ .1	1,224	11,625	+2.3	198,926	—3.2
Washington.....	746	10,654	+ .2	284,423	—4.1	1,646	16,627	— .2	333,869	—2.3
West Virginia.....	101	1,637	— .1	43,125	—1.7	307	3,739	—2.6	67,688	—5.6
Wisconsin.....	45	1,863	+4.7	39,383	+3.6	53	10,088	—1.5	141,393	—1.4
Wyoming.....	22	208	+2.5	5,927	—3.4	184	1,181	—2.3	23,851	—3.5

<sup>3</sup> Less than  $\frac{1}{10}$  of 1 percent.

<sup>10</sup> No change.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS  
IN JULY AND AUGUST 1934, 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				
	Number of establishments	Number on pay roll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934	Number of establishments	Number on pay roll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934
Alabama.....	15	584	-7.3	\$7,404	-14.7	9	1,327	+19.0	\$16,238	+68.3
Arizona.....	3	44	+46.7	609	+21.1	18	3,592	+1.6	76,510	-2.7
Arkansas.....	8	225	+5.1	3,089	+5.1	3	404	+2.4	6,622	+4.1
California.....	40	974	-5.5	17,367	-5.0	36	2,900	+4.8	70,677	+8.4
Colorado.....	5	48	-9.4	587	+12.0	11	1,170	+1.6	30,328	-7
Connecticut.....	26	330	-7.8	6,757	+3.9					
Delaware.....										
Dist. of Columbia.....										
Florida.....	13	847	-4	10,862	+6.5					
Georgia.....	28	1,781	+13.4	18,224	+10.6					
Idaho.....						6	1,766	+4	37,425	+14.1
Illinois.....	18	604	-11.3	10,825	-12.1					
Indiana.....	69	1,614	-17.2	25,827	-22.8					
Iowa.....	25	428	-2.9	6,940	+3.2					
Kansas.....	34	1,340	+1.2	26,922	+6.0	9	716	+151.0	12,162	+81.0
Kentucky.....	34	1,497	+21.0	15,427	+19.0					
Louisiana.....	4	377	-1.0	4,674	-3					
Maine.....	11	450	-9.3	10,848	-8.8					
Maryland.....	8	270	+17.4	4,048	+21.5					
Massachusetts.....	20	494	+4.9	10,963	+6.0					
Michigan.....	45	1,808	-9	33,364	-1.8	39	5,226	+1.4	87,609	+2.8
Minnesota.....	21	321	+15.5	4,761	+14.0	32	1,994	-1	47,673	+13.0
Mississippi.....	9	175	-16.7	2,030	+22.1					
Missouri.....	57	1,280	+3.8	17,055	+1.1	13	1,679	-6.9	18,277	-11.1
Montana.....	6	117	-12.7	1,658	-52.7	15	210	+5.0	5,239	+14.0
Nebraska.....	11	285	-10.1	3,649	-16.9					
Nevada.....						15	645	+5.9	15,859	-(?)
New Hampshire.....	11	349	-4.4	9,955	-3.0					
New Jersey.....	35	666	-6.4	13,133	-4.4	3	18	+20.0	322	+11.0
New Mexico.....						3	907	-1.5	16,680	-2.4
New York.....	80	2,706	-1.6	54,484	+1.6					
North Carolina.....	14	460	+17.6	6,323	+20.7					
North Dakota.....										
Ohio.....	124	3,854	+4	59,772	-1.8					
Oklahoma.....	16	179	+2.3	1,749	+6.2	27	913	+285.2	14,922	+264.4
Oregon.....	4	90	+7.1	1,788	+24.4	3	63	-4.5	1,230	-4.1
Pennsylvania.....	153	5,714	-9	91,637	-4					
Rhode Island.....										
South Carolina.....	6	225	-2.2	2,538	+4.5					
South Dakota.....	4	53	+12.8	965	+34.6					
Tennessee.....	26	702	-15.0	7,250	-27.8	4	323	+2.2	6,648	+9
Texas.....	21	1,298	-5.7	20,899	-11.8					
Utah.....	5	59	(10)	1,209	+7	12	2,168	+7	45,475	+3.3
Vermont.....	38	1,979	-2.4	38,149	-4.0					
Virginia.....	34	1,338	-9	16,110	-9.4					
Washington.....	11	386	-10.4	7,796	-17.3					
West Virginia.....	20	859	-9.8	11,698	-13.0					
Wisconsin.....	13	265	-22.5	4,619	-14.3	(11)	682	+3.2	14,660	+53.4
Wyoming.....										

<sup>2</sup> Less than 1/10 of 1 percent.

<sup>10</sup> No change.

<sup>11</sup> Not available.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN JULY AND AUGUST 1934, BY STATES—Continued

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

State	Bituminous-coal mining					Crude-petroleum producing				
	Number of establishments	Number on pay roll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934	Number of establishments	Number on pay roll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934
Alabama.....	55	9,449	-13.4	\$124,995	-10.0					
Arizona.....										
Arkansas.....						6	352	+0.6	\$7,866	-5.0
California.....						45	13,096	+1.9	409,147	+2.1
Colorado.....	43	2,844	+0.2	44,552	+31.3					
Connecticut.....										
Delaware.....										
Dist. of Columbia.....										
Florida.....										
Georgia.....										
Idaho.....										
Illinois.....	27	6,457	+7.6	115,148	+9.0	7	204	-1.4	4,412	+2.6
Indiana.....	51	5,407	+1.9	99,860	+6.9	4	24	-7.7	327	-11.9
Iowa.....	23	1,571	+6.4	26,103	+17.8					
Kansas.....	11	629	-1.7	11,273	-2.6	24	1,648	+2.6	38,042	-6
Kentucky.....	141	29,657	-3	466,131	+5.4	5	236	-10.9	4,069	+4.7
Louisiana.....						7	246	+2.5	6,519	-8.9
Maine.....										
Maryland.....	16	1,417	-1.3	20,065	+27.0					
Massachusetts.....										
Michigan.....	3	345	-17.3	7,235	+45.6					
Minnesota.....										
Mississippi.....										
Missouri.....	18	1,181	+11.5	14,368	-5.4					
Montana.....	10	730	+7.8	16,223	+21.9	4	44	(10)	1,046	+4
Nebraska.....										
Nevada.....										
New Hampshire.....										
New Jersey.....										
New Mexico.....	15	2,123	+6	41,923	+6.0	5	144	+11.6	3,398	+14.6
New York.....						4	249	+25.8	4,761	+12.4
North Carolina.....										
North Dakota.....	9	385	-9.2	7,259	-3.8					
Ohio.....	73	14,537	+6	241,305	-1.6	5	55	-1.8	667	-11.9
Oklahoma.....	16	600	+32.7	9,390	+8.5	51	5,336	+2.5	127,945	+1.6
Oregon.....										
Pennsylvania.....	466	76,262	+1.3	1,255,015	+2.3	16	758	-21.8	20,111	-8.0
Rhode Island.....										
South Carolina.....										
South Dakota.....										
Tennessee.....	15	3,005	-2.3	44,041	+12.1					
Texas.....	5	374	+6.9	5,489	-9.0	3	7,628	+3.4	266,797	+9.5
Utah.....	11	1,021	+7.1	23,943	+25.5					
Vermont.....										
Virginia.....	25	4,664	-1.6	67,878	+3					
Washington.....	13	944	+1.3	21,762	-6.1					
West Virginia.....	358	66,459	-1	1,170,133	-2.4	8	466	-7.9	9,581	-5.2
Wisconsin.....										
Wyoming.....	31	2,981	+1.2	72,210	+9.6	8	234	+12.5	6,832	+20.5

<sup>10</sup> No change.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN JULY AND AUGUST 1934, BY STATES—Continued

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

State	Public utilities					Hotels				
	Number of establishments	Number on pay roll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934	Number of establishments	Number on pay roll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934
Alabama.....	89	1,902	+1.2	\$41,583	+1.3	21	1,174	-1.8	\$9,758	-1.9
Arizona.....	69	1,633	+3	37,872	-3.2	20	394	+1.3	5,677	-5
Arkansas.....	<i>34</i>	<i>1,424</i>	<i>+2.1</i>	<i>38,138</i>	<i>+1.4</i>	<i>28</i>	<i>827</i>	<i>+4</i>	<i>7,268</i>	<i>-1.1</i>
California.....	<i>50</i>	<i>46,708</i>	<i>-2</i>	<i>1,299,850</i>	<i>+1.2</i>	<i>188</i>	<i>9,919</i>	<i>+2.2</i>	<i>151,285</i>	<i>+2.1</i>
Colorado.....	212	6,084	+2.8	150,420	-4.0	55	1,541	+8.2	20,136	+2.5
Connecticut.....	132	9,872	+3	304,607	+1.4	29	1,365	+8.6	17,158	-3
Delaware.....	29	1,195	+3.3	32,917	+1.5	3	260	(10)	3,467	-5
Dist. of Columbia.....	17	8,911	+9	239,639	-2.6	45	3,930	-7.7	60,487	-8.4
Florida.....	185	4,843	+5	119,968	-1.7	52	978	-19.0	9,584	-15.3
Georgia.....	186	7,233	-2	192,670	-3.5	37	1,352	-1.5	11,075	-1.3
Idaho.....	57	825	+4	16,609	-1.2	20	419	-4.8	4,923	+2.8
Illinois.....	<i>86</i>	<i>73,349</i>	<i>-1</i>	<i>2,070,364</i>	<i>+1.1</i>	<i>12</i>	<i>231</i>	<i>+6</i>	<i>231,412</i>	<i>-4.0</i>
Indiana.....	117	8,167	+7	200,543	-3.4	64	2,891	(3)	31,037	+4
Iowa.....	324	8,637	+4	197,429	-4.3	56	2,312	+5	22,485	-9
Kansas.....	<i>13</i>	<i>164</i>	<i>+8</i>	<i>171,938</i>	<i>+1.7</i>	<i>31</i>	<i>748</i>	<i>-1.8</i>	<i>7,605</i>	<i>-4.0</i>
Kentucky.....	289	6,633	+1.5	150,906	-1.3	35	1,892	-4.2	18,333	-8.0
Louisiana.....	152	5,956	-2.1	144,528	-5.3	18	1,789	-1.0	21,038	+4.9
Maine.....	170	2,853	+4	76,869	+5.1	27	1,152	+6.9	14,390	+5.1
Maryland.....	<i>93</i>	<i>12,662</i>	<i>+1.1</i>	<i>362,334</i>	<i>+2.5</i>	<i>19</i>	<i>628</i>	<i>-6.7</i>	<i>7,757</i>	<i>-7.5</i>
Massachusetts.....	<i>12</i>	<i>185</i>	<i>-2.6</i>	<i>1,325,275</i>	<i>-2.8</i>	<i>67</i>	<i>5,103</i>	<i>-7</i>	<i>72,240</i>	<i>+2</i>
Michigan.....	408	29,943	+8	906,624	+7	98	5,480	-3	69,228	+1.2
Minnesota.....	202	12,864	+9	335,253	-3.3	71	3,387	+3.6	38,952	+1.9
Mississippi.....	191	1,999	+5.3	39,704	+2.3	15	437	+3.1	3,258	+4.7
Missouri.....	219	21,000	-1	571,846	+1	86	4,874	-3.0	57,535	-4.6
Montana.....	112	2,012	-3.4	57,258	-7.4	32	574	+5	8,588	+3.7
Nebraska.....	353	5,837	-6	143,991	-5.0	39	1,530	+5	15,457	-1.8
Nevada.....	38	405	-1.9	11,769	-2.6	19	340	+3.7	4,857	+9.6
New Hampshire.....	141	2,318	+1.0	66,928	+10.5	20	921	+6.0	10,173	+5.8
New Jersey.....	266	21,680	-6	644,752	+1.2	96	5,899	+7.8	69,329	+7.5
New Mexico.....	51	599	+5	12,008	-5.1	18	388	(10)	3,654	-1.2
New York.....	873	125,526	-2	4,026,259	+9	210	27,747	-1.4	423,584	-3.3
North Carolina.....	73	1,884	-3	41,319	-7	36	1,433	-3.4	12,680	-1.4
North Dakota.....	114	1,226	-6	29,002	-7.0	18	294	+2.4	2,879	-5.1
Ohio.....	482	36,334	+3	980,408	-2.9	131	8,642	-1.1	111,054	-1.0
Oklahoma.....	244	6,630	+4.0	151,859	+1.4	50	1,527	+9	16,203	+9
Oregon.....	182	5,582	(10)	154,615	+1.9	66	1,453	+1.6	18,114	+5
Pennsylvania.....	<i>791</i>	<i>56,944</i>	<i>-1</i>	<i>1,611,190</i>	<i>-1.0</i>	<i>158</i>	<i>9,723</i>	<i>+1.2</i>	<i>124,372</i>	<i>+1.4</i>
Rhode Island.....	46	4,913	+3	143,602	+3.2	17	466	+10.4	5,408	+8.7
South Carolina.....	76	1,712	-5.5	37,085	-4	12	293	+7	2,623	-2.6
South Dakota.....	50	650	-1.4	15,118	-7.1	22	393	-1.8	3,972	-1.6
Tennessee.....	248	5,105	+1.3	116,234	+2.0	38	2,418	-8	20,931	+4
Texas.....	<i>275</i>	<i>7,747</i>	<i>+9</i>	<i>201,436</i>	<i>+8</i>	<i>34</i>	<i>2,716</i>	<i>+4.2</i>	<i>32,223</i>	<i>+6.7</i>
Utah.....	65	1,879	+2.6	38,871	-4.4	13	451	+5.1	5,955	+4.9
Vermont.....	126	1,516	+5	36,409	+1.0	20	613	+13.1	6,140	+12.8
Virginia.....	152	6,059	-7	147,014	-2.1	41	2,262	-2.4	24,163	-1.7
Washington.....	200	10,058	-3	283,281	+8	88	2,919	+1.3	33,717	+2.2
West Virginia.....	114	6,795	+5.7	173,014	(4)	36	1,171	-4.8	12,621	-3.1
Wisconsin.....	<i>14</i>	<i>41</i>	<i>+1.6</i>	<i>334,058</i>	<i>-7</i>	<i>42</i>	<i>1,452</i>	<i>+2</i>	(11)	-----
Wyoming.....	48	481	+4	11,267	-8.0	12	98	(10)	1,277	-2.2

<sup>3</sup> Less than 1/10 of 1 percent.<sup>10</sup> No change.<sup>11</sup> Not available.<sup>12</sup> Includes restaurants.<sup>13</sup> Includes steam railways.<sup>14</sup> Includes railways and express.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN JULY AND AUGUST 1934, 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 payroll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934	Number of establishments	Number on payroll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934
Alabama.....	19	1,007	+0.3	\$9,762	-0.7	3	44	-10.2	\$595	-14.5
Arizona.....	11	287	-3.7	3,609	-3.6					
Arkansas.....	15	483	- (?)	4,939	-1.1	5	49	-3.9	736	-9.7
California.....	15 72	5,537	-2	101,306	+1.1					
Colorado.....	30	1,502	+2.2	21,743	+4.6	14	209	-2.3	3,785	-1.5
Connecticut.....	37	1,267	-5	20,219	-2.7	11	263	-4.0	5,603	-4.7
Delaware.....	4	320	(10)	5,288	-6.8					
Dist. of Columbia.	18	2,450	-2.9	37,101	-4.5	4	104	-5.5	1,999	-8.7
Florida.....	22	894	-3.0	8,860	+3	8	75	-1.3	1,095	-5.6
Georgia.....	23	2,368	+1.1	26,528	+3.0	9	195	-4.4	2,508	-3.5
Idaho.....	12	226	-1.7	3,323	+1.3					
Illinois.....	15 82	3,987	-4	66,316	-8					
Indiana.....	42	1,927	-1.3	27,242	-1.1	38	537	-2.5	8,814	-4.7
Iowa.....	32	1,248	+2	16,460	-7	8	119	+5.3	2,098	+5.1
Kansas.....	15 42	1,000	+1.4	13,186	-7					
Kentucky.....	38	1,733	+2	21,052	-1.1	9	334	-4.3	4,814	-6.1
Louisiana.....	8	525	-2	5,365	-3.0	6	115	-4.2	1,444	-9.2
Maine.....	23	585	+2.6	8,556	+9.9	6	180	+1.7	3,409	+1.1
Maryland.....	22	1,786	-2.0	27,264	-6.0	11	269	-1.1	4,862	-6.4
Massachusetts.....	123	5,541	-7	89,385	-1.2	79	2,177	-4	40,249	-2.2
Michigan.....	65	3,177	-1.8	46,779	-2.1	31	1,011	-1.7	19,304	-4.1
Minnesota.....	44	1,733	-1.7	26,400	-3.2	18	538	+7	9,036	+1.2
Mississippi.....	6	309	+2.3	3,371	+2.2	6	58	-4.9	808	-11.4
Missouri.....	53	3,056	+1.2	41,156	+1.1	28	1,138	-4.0	18,348	-5.6
Montana.....	17	466	+3.6	7,948	+3.9	7	58	+1.8	1,189	+2.0
Nebraska.....	15	933	-10.0	13,364	-9.2	9	135	-1.5	2,219	-3.0
Nevada.....	3	43	+4.9	885	+6.4					
New Hampshire.....	17	338	+3	5,247	+6.3	4	69	+1.5	1,260	+3.4
New Jersey.....	49	5,865	-7	101,590	-6.0	17	347	-6.0	8,087	-7.1
New Mexico.....	4	208	+2.0	3,202	+4.0					
New York.....	73	7,104	-2.5	121,725	-4.0	49	570	-5.2	11,269	-7.9
North Carolina.....	12	783	+6	8,451	-1.8	9	136	-7	1,828	-1.7
North Dakota.....	11	242	+1.3	3,492	-3.3					
Ohio.....	79	4,117	-2.1	64,824	-3.9	79	1,992	-5.6	36,042	-6.1
Oklahoma.....	24	1,038	-1.0	13,354	-2.3	12	195	+3.7	2,601	-1.8
Oregon.....	13	399	+3	6,322	+9	8	83	+1.2	1,688	+2.1
Pennsylvania.....	39	2,679	-2.2	40,741	-4.5	49	1,781	-4.6	30,973	-9.1
Rhode Island.....	20	1,109	-4	18,758	-1.1	5	320	-3.6	5,724	-5.6
South Carolina.....	9	417	-1.4	3,753	-4	6	32	-11.1	435	-9.9
South Dakota.....	6	152	-7	1,940	-9	3	35	(10)	639	-3
Tennessee.....	15	1,506	-6	14,661	-1.5	10	167	-4.0	2,141	-3.0
Texas.....	28	1,691	-8	21,847	-1.5	23	559	+7	9,170	-4.0
Utah.....	12	670	+8	9,572	-2.4	11	137	+4.6	2,289	+1.6
Vermont.....	6	121	(10)	1,558	+5.8	5	81	-3.6	1,239	-2
Virginia.....	25	1,381	-2.1	17,152	-2.4	31	393	+5	5,990	-1.5
Washington.....	16	719	+4.8	12,828	+3.1	15	240	+3.0	4,527	+5.4
West Virginia.....	17	662	+1.2	9,252	-1.8	12	228	-8.1	3,758	-3.1
Wisconsin.....	15 23	967	+1.0	13,362	+1.7					
Wyoming.....	7	147	-2.0	2,778	+3.3	3	22	+15.8	414	+7.8

\* Less than 1/10 of 1 percent.

(10) No change.

(15) Includes dyeing and cleaning.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS  
IN JULY AND AUGUST 1934, BY STATES—Continued

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

State	Banks, brokerage, insurance, and real estate				
	Number of establishments	Number on pay roll August 1934	Percentage change from July 1934	Amount of pay roll (1 week) August 1934	Percentage change from July 1934
Alabama.....	29	546	-0.7	\$15,518	-2.8
Arizona.....	20	201	-5.2	5,406	-1.4
Arkansas.....	19	243	-1.6	5,999	-5
California.....	1,057	19,900	+7	662,967	-6
Colorado.....	48	1,321	-1.0	42,819	-9
Connecticut.....	71	2,014	-7	69,911	-1.0
Delaware.....	16	559	-2.3	20,070	-2.3
District of Columbia.....	37	1,050	-8	41,120	-5
Florida.....	20	760	+5	24,256	-1.2
Georgia.....	64	1,518	+3	47,073	+3.5
Idaho.....	15	120	-8	2,880	-3.1
Illinois.....	106	11,265	+1	389,493	+4
Indiana.....	56	1,392	(10)	44,951	-3
Iowa.....	18	1,008	+1.0	31,452	-2.5
Kansas.....	10 58	867	+5	26,896	-2.6
Kentucky.....	22	746	-1	26,624	+1
Louisiana.....	20	411	+2.8	14,569	-2.4
Maine.....	21	276	-4	7,246	-3.3
Maryland.....	31	1,142	+6	38,969	+2
Massachusetts.....	10 227	7,653	+1	226,703	-(*)
Michigan.....	207	6,864	-2	211,366	+3
Minnesota.....	53	4,906	-1	141,183	+2.4
Mississippi.....	16	197	-3.0	4,357	+2
Missouri.....	155	5,993	+3	163,765	+(*)
Montana.....	25	255	+1.2	6,987	+3
Nebraska.....	23	584	+2	19,664	+4
Nevada.....					
New Hampshire.....	37	456	+1.1	10,947	-12.1
New Jersey.....	142	13,363	-1	383,365	+5
New Mexico.....	19	129	+8	3,360	-7
New York.....	907	60,983	-1	2,031,412	-1.3
North Carolina.....	29	581	-3	15,341	-1
North Dakota.....	38	272	+4	6,579	+3
Ohio.....	289	7,984	+6	263,957	-1.3
Oklahoma.....	25	470	-4	14,016	-8
Oregon.....	17	699	-7	24,696	-5
Pennsylvania.....	751	23,203	+1	712,370	-3
Rhode Island.....	71	1,738	-2.0	69,626	-1.2
South Carolina.....	10	115	+9	3,468	+2.9
South Dakota.....	30	257	+2.0	6,273	+1.0
Tennessee.....	35	1,127	-2	38,038	-8
Texas.....	44	1,688	-1	46,597	-1
Utah.....	21	590	+5	19,857	-7
Vermont.....	26	237	+8.2	6,637	+2.4
Virginia.....	59	1,505	-1	47,513	-8
Washington.....	50	1,729	-2.5	54,447	-5
West Virginia.....	43	650	-3	18,918	-6
Wisconsin.....	31	993	-3	34,834	+3.6
Wyoming.....	13	120	+8	3,608	-3

\* Less than 1/10 of 1 percent.

10 No change.

12 Does not include brokerage and real estate.



## Employment and Pay Rolls in August 1934 in Cities of Over 500,000 Population

**F**LUCTUATIONS in employment and pay-roll totals in August 1934 as compared with July 1934 in 13 cities of the United States having a population of 500,000 or over are presented in the following table. These changes are computed from reports received from identical establishments in each of the months considered.

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

FLUCTUATIONS IN EMPLOYMENT AND PAY ROLLS IN AUGUST 1934 AS COMPARED WITH JULY 1934

Cities	Number of establishments reporting in both months	Number on pay roll		Percentage change from July 1934	Amount of pay roll (1 week)		Percentage change from July 1934
		July 1934	August 1934		July 1934	August 1934	
New York City.....	11,804	534,692	536,493	+0.3	\$14,121,987	\$14,193,333	+0.5
Chicago, Ill.....	3,771	312,876	313,778	+ .3	7,532,899	7,493,032	-.5
Philadelphia, Pa.....	2,741	197,381	197,981	+ .3	4,432,713	4,444,129	+ .3
Detroit, Mich.....	1,729	282,937	271,340	-4.1	5,879,917	6,516,245	+10.8
Los Angeles, Calif.....	2,434	117,702	119,624	+1.6	2,776,413	2,843,882	+2.4
Cleveland, Ohio.....	1,988	120,985	119,709	-1.1	2,652,587	2,612,285	-1.5
St. Louis, Mo.....	2,594	116,904	116,077	-.7	2,522,136	2,496,987	-1.0
Baltimore, Md.....	1,217	82,011	80,134	-2.3	1,739,071	1,604,485	-7.7
Boston, Mass.....	2,972	137,310	137,991	+ .5	3,141,119	3,160,949	+ .6
Pittsburgh, Pa.....	1,423	118,453	118,763	+ .3	2,425,622	2,506,753	+3.3
San Francisco, Calif.....	2,122	75,216	77,093	+2.5	1,822,606	1,909,570	+4.8
Buffalo, N. Y.....	842	60,788	58,762	-3.3	1,363,206	1,254,860	-7.9
Milwaukee, Wis.....	779	54,822	54,654	-.3	1,193,877	1,188,402	-.5

## 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, decreased from 1,036,754 on July 15, 1934, to 1,019,723 (preliminary) on August 15, 1934, or 1.6 percent. Data are not yet available concerning total compensation of employees for August 1934. The latest pay-roll information available shows an increase from \$124,435,273 in June 1934 to \$126,989,749 in July 1934, or 2.1 percent.

The monthly trend of employment from January 1923 to August 1934 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, constructed by the Interstate Commerce Commission, are based on the 3-year average, 1923–25 as 100.

**INDEXES OF EMPLOYMENT ON CLASS I STEAM RAILROADS IN THE UNITED STATES, JANUARY 1923 TO AUGUST 1934**

[3-year average, 1923-25=100]

Month	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	98.4	96.7	95.5	95.6	95.2	89.1	88.0	86.1	73.5	61.1	53.0	54.1
February.....	98.6	96.9	95.3	95.8	95.0	88.7	88.6	85.2	72.6	60.2	52.7	54.6
March.....	100.4	97.3	95.1	96.5	95.6	89.7	89.8	85.3	72.7	60.5	51.5	55.9
April.....	101.9	98.8	96.5	98.6	97.1	91.5	91.9	86.7	73.4	59.9	51.8	56.9
May.....	104.8	99.1	97.7	100.0	99.1	94.4	94.6	88.3	73.8	59.6	52.5	58.5
June.....	107.1	97.9	98.5	101.3	100.7	95.8	95.8	86.3	72.7	57.7	53.6	59.0
July.....	108.2	98.0	99.3	102.6	100.7	95.4	96.3	84.5	72.3	56.3	55.4	58.7
August.....	109.2	98.9	99.5	102.4	99.2	95.5	97.1	83.5	71.0	54.9	56.8	57.8
September.....	107.7	99.6	99.7	102.5	98.8	95.1	96.5	82.0	69.2	55.7	57.7	-----
October.....	107.1	100.7	100.4	103.1	98.5	95.2	96.6	80.2	67.6	56.9	57.4	-----
November.....	105.0	98.9	98.9	101.0	95.5	92.7	92.8	76.9	64.4	55.8	55.8	-----
December.....	99.1	96.0	96.9	98.0	91.7	89.5	88.5	74.8	62.5	54.7	54.0	-----
Average.....	104.0	98.2	97.8	99.8	97.3	92.7	93.1	83.3	70.6	57.8	54.4	<sup>2</sup> 56.9

<sup>1</sup> Preliminary.

<sup>2</sup> Average for 8 months.

Source: Interstate Commerce Commission.

### Employment and Pay Rolls in the Federal Service, August 1934

**C**OMPARING August with July there was an increase of 5,492 employees in the executive service of the United States Government. Comparing August 1934 with the corresponding month of the previous year there was an increase of 97,125 employees or 16.9 percent in this service throughout the United States.

Data concerning employment in the executive departments are collected by the United States Civil Service Commission from the various departments and offices of the United States Government. The figures are tabulated by the Bureau of Labor Statistics. Information concerning the legislative, judicial, and military branches of the Government are collected and compiled by the Bureau of Labor Statistics.

Table 1 shows the number of employees in the executive departments of the Federal Government.

Data for the District of Columbia are shown separately. Approximately 13 percent of the employees in the executive branches of the United States Government work in the city of Washington.

TABLE 1.—EMPLOYEES IN THE EXECUTIVE SERVICE OF THE UNITED STATES  
AUGUST 1933 AND JULY 1934, AND AUGUST 1934

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:									
August 1933.....	62, 774	5, 034	67, 808	460, 520	46, 651	507, 171	523, 294	51, 685	574, 979
July 1934.....	79, 582	8, 396	87, 978	496, 529	82, 105	578, 634	576, 111	90, 501	666, 612
August 1934.....	81, 811	9, 254	91, 065	498, 299	82, 740	581, 039	580, 110	91, 994	672, 104
Gain or loss:									
August 1933-August 1934.....	+19, 037	+4, 220	+23, 257	+37, 779	+36, 089	+73, 868	+57, 816	+40, 309	+97, 125
July 1934-August 1934.....	+2, 229	+858	+3, 087	+1, 770	+635	+2, 405	+3, 999	+1, 493	+5, 492
Percent of change:									
August 1933-August 1934.....	+30. 3	+83. 8	+34. 3	+8. 2	+77. 4	+14. 6	+10. 9	+78. 0	+16. 9
July 1934-August 1934.....	+2. 8	+10. 2	+3. 5	+0. 4	+0. 8	+0. 4	+0. 7	+1. 6	+0. 8
Labor turn-over August 1934:									
Additions <sup>2</sup> .....	3, 366	2, 533	5, 899	7, 995	24, 618	32, 613	11, 361	27, 151	38, 512
Separations <sup>2</sup> .....	1, 161	1, 623	2, 784	6, 276	23, 961	30, 237	7, 437	25, 584	33, 021
Turn-over rate per 100.....	1. 44	18. 39	3. 11	1. 26	29. 07	5. 21	1. 29	28. 04	4. 93

<sup>1</sup> Not including field employees of the Post Office Department.

<sup>2</sup> Not including employees transferred within the Government service as such transfers should not be regarded as labor turn-over.

Comparing August with July there was an increase of 3,087, or 3.5 percent in the number of Government employees working in the District of Columbia. The number of permanent employees increased 2.8 percent and the number of temporary employees 10.2 percent, comparing these two periods.

Comparing August 1934 with August 1933, there was an increase of 30.3 percent in the number of permanent employees in the District of Columbia and an increase of 83.8 percent in the number of temporary employees, making a net increase of 34.3 percent for all Federal employees in the District of Columbia. The August turn-over rate for 100 employees was 3.11, the monthly turn-over rate for permanent employees being 1.44 and for temporary employees 18.39.

Employees in the executive departments outside of the city of Washington increased four-tenths of 1 percent comparing August with July.

Comparing August 1934 with the corresponding month of the previous year, there was an increase of 14.6 percent in total employment outside of the District of Columbia.

Table 2 shows employment in the executive departments of the United States Government, by months, January to August 1934, inclusive.

TABLE 2.—EMPLOYMENT IN THE EXECUTIVE DEPARTMENTS OF THE UNITED STATES BY MONTHS, 1934, FOR DISTRICT OF COLUMBIA, OUTSIDE DISTRICT OF COLUMBIA, AND TOTALS

Month	District of Co- lumbia	Outside District of Co- lumbia	Total	Month	District of Co- lumbia	Outside District of Co- lumbia	Total
January.....	78, 045	530, 094	608, 139	May.....	85, 939	573, 147	659, 086
February.....	79, 913	531, 839	611, 752	June.....	87, 196	573, 898	661, 094
March.....	81, 569	541, 990	623, 559	July.....	87, 978	578, 634	666, 612
April.....	83, 850	560, 258	644, 108	August.....	91, 065	581, 039	672, 104

There were over 13,000 more employees in the executive departments of the United States Government working in Washington, D.C., in August than in January 1934. The number of such employees outside of the District of Columbia increased 50,945 over this period.

Table 3 shows the number of employees and amount of pay rolls in the various branches of the United States Government during July and August 1934.

TABLE 3.—NUMBER OF EMPLOYEES AND AMOUNTS OF PAY ROLLS IN THE VARIOUS BRANCHES OF THE UNITED STATES GOVERNMENT, JULY AND AUGUST 1934

Branch of service	Number of employees		Amount of pay roll	
	July	August	July	August
Executive service.....	606,612	672,104	\$94,158,132	\$97,462,606
Military service.....	268,257	268,712	20,391,629	20,501,900
Judicial service.....	1,750	1,690	434,736	439,014
Legislative service.....	3,713	3,723	978,908	977,966
Total.....	940,332	946,229	115,963,405	119,381,486

Slight increases were shown in the military and legislative service comparing August with July. The judicial service showed a decline comparing these 2 months.

Table 4 shows the number of employees and amount of pay rolls for all branches of the United States Government, by months, from December 1933 to August 1934, inclusive.

TABLE 4.—NUMBER OF EMPLOYEES AND AMOUNTS OF PAY ROLLS FOR ALL BRANCHES OF THE UNITED STATES GOVERNMENT BY MONTHS, DECEMBER 1933 THROUGH AUGUST 1934

Month	Executive service		Military service		Judicial service		Legislative service	
	Number of employees	Amount of pay roll	Number of employees	Amount of pay roll	Number of employees	Amount of pay roll	Number of employees	Amount of pay roll
1933								
December.....	608,670	\$82,011,601	263,622	\$17,656,909	1,872	\$432,435	3,864	\$886,781
1934								
January.....	608,139	177,450,498	262,942	18,499,516	1,780	417,000	3,845	871,753
February.....	611,752	183,524,296	263,464	19,532,832	1,742	430,843	3,852	926,363
March.....	623,559	184,837,493	266,285	19,060,158	1,854	443,505	3,867	928,368
April.....	644,108	185,090,283	266,923	18,816,636	1,904	432,401	3,865	926,484
May.....	659,086	89,577,479	266,864	19,216,150	1,913	442,896	3,862	940,666
June.....	661,094	91,540,629	267,038	19,539,020	1,881	439,170	3,878	944,758
July.....	666,612	94,158,132	268,257	20,391,629	1,750	434,736	3,713	978,908
August.....	672,104	97,462,606	268,712	20,636,460	1,690	439,014	3,723	977,966

<sup>1</sup> Revised.

## Employment Created by the Public Works Administration Fund, August 1934

**D**URING the month ending August 15, 1934, over 602,000 employees were working at the site of Public Works Administration construction projects. This construction is financed wholly or in part from the Public Works Administration fund. These workers were paid more than \$35,000,000 for their month's work.

### Employment on Construction Projects, by Type of Project

Table 1 shows by type of project employment, pay rolls, and man-hours worked during the month of August <sup>1</sup> 1934 on Federal projects financed by the Public Works Administration fund.

**TABLE 1.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON FEDERAL PROJECTS FINANCED FROM THE PUBLIC WORKS ADMINISTRATION FUND, DURING AUGUST 1934, BY TYPE OF PROJECT**

[Subject to revision]

Type of project	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Building construction.....	34, 504	\$2, 168, 310	2, 803, 020	\$0. 774	\$3, 556, 221
Public roads.....	280, 247	12, 706, 450	25, 486, 773	.499	13, 725, 000
River, harbor, and flood control.....	50, 231	3, 416, 809	5, 400, 769	.633	4, 583, 636
Streets and roads <sup>1</sup> .....	19, 681	1, 123, 918	1, 986, 464	.566	713, 925
Naval vessels.....	16, 425	2, 004, 023	2, 418, 104	.829	2, 930, 955
Reclamation.....	15, 304	1, 562, 808	2, 536, 430	.628	1, 795, 833
Forestry.....	15, 093	1, 060, 419	1, 624, 844	.653	215, 373
Water and sewerage.....	1, 688	80, 351	124, 345	.646	147, 338
Miscellaneous.....	17, 706	1, 531, 555	2, 620, 477	.584	1, 959, 302
Total.....	450, 879	25, 684, 644	45, 001, 226	.571	29, 627, 583

<sup>1</sup> Other than those reported by the Bureau of Public Roads.

Federal projects are financed entirely by allotments made by the Public Works Administration to various departments and agencies of the Federal Government. The construction work is done either by commercial firms to whom contracts are awarded by the Federal agencies or by day labor hired directly by such agencies.

There were over 450,000 people working at the site of Federal construction projects. This is a decrease of nearly 40,000 as compared with the month of July. The decrease was caused by the completion of many of the public-roads projects. Employment on public roads decreased by more than 39,000. All other types of construction, except naval vessels, forestry, and building construction showed an increase comparing these 2 months.

Although employment on road building showed a large decrease, more than 60 percent of the workers on Federal construction projects were working on this type of work. More than 50,000 were engaged in river, harbor, and flood-control work and over 30,000 in building construction.

<sup>1</sup> Whenever the month of August is spoken of in this study it is assumed to mean the month ending August 15.

Employees on Federal construction projects worked over 45,000,000 hours and drew over \$25,600,000 for their month's work, an average of over 57 cents per hour.

Hourly earnings ranged from 50 cents for public-road work to 83 cents for naval vessels.

Material orders valued at nearly \$30,000,000 were placed during the months ending August 15.

Table 2 shows, by type of project, employment, pay rolls, and man-hours worked during the month of August on non-Federal construction projects financed from the Public Works Administration fund.

TABLE 2.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON NONFEDERAL PROJECTS FINANCED FROM THE PUBLIC WORKS ADMINISTRATION FUND DURING AUGUST 1934, BY TYPE OF PROJECT

[Subject to revision]

Type of project	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Building construction.....	34,955	\$2,188,059	2,692,492	\$0.813	\$4,546,583
Streets and roads.....	19,086	965,256	1,514,646	.637	1,337,672
Water and sewerage.....	28,436	1,576,443	2,270,299	.694	3,657,206
Railroad construction.....	34,347	1,820,735	3,779,289	.482	988,742
Miscellaneous.....	847	57,953	89,420	.648	49,050
Total.....	117,671	6,608,446	10,346,146	.639	10,579,253

Non-Federal projects are financed by allotments made from the Public Works Administration fund to a State or political subdivisions thereof, or in some cases to commercial firms. In the case of allotments to States and their political subdivisions, the Public Works Administration makes a direct grant of 30 percent of the total construction cost and the public agency to whom the loan is made finances the other 70 percent. In some cases, this 70 percent is obtained as a loan from the Public Works Administration; in other cases, the loan is obtained from outside sources. Where the loan is made by the Public Works Administration it bears interest and must be paid within a given period. No grants are made to commercial firms. Commercial allotments consist entirely of loans. By far the largest part of the commercial allotments have been made to railroads. Railroad work falls under three headings: First, construction, such as electrification, laying of rails and ties, repairs to buildings, etc.; second, building and repairing of locomotives and passenger and freight cars in railroad shops; third, the building of locomotives and passenger and freight cars in commercial shops.

Data concerning employment created by railroad construction is shown in table 2. Employment in railroad shops is shown in table 5, page 37.

More than 117,000 workers were engaged at the site of non-Federal construction projects during the month of August. This is an increase of over 15,000 as compared with July. These workers were paid over \$6,500,000 for more than 10,000,000 hours of work. They earned an average of nearly 64 cents per hour. Railroad construction showed the lowest average hourly earnings and building construction the highest. Material orders totaled over \$10,500,000.

### Employment on Construction Projects, by Geographic Divisions

TABLE 3 shows employment, pay rolls, and man-hours worked during August 1934 on Federal construction projects financed from the Public Works Administration fund, by geographic divisions.

TABLE 3.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON FEDERAL PROJECTS FINANCED FROM THE PUBLIC WORKS ADMINISTRATION FUND, DURING AUGUST 1934, BY GEOGRAPHIC DIVISION

[Subject to revision]

Geographic division	Wage earners		Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
	Number employed	Weekly average				
New England.....	20,433	20,084	\$1,456,289	2,400,413	\$0.607	\$1,038,888
Middle Atlantic.....	46,841	45,609	2,740,150	4,745,383	.577	2,036,011
East North Central.....	66,581	65,157	3,575,442	5,763,497	.620	1,360,130
West North Central.....	62,073	60,192	2,917,817	5,266,374	.554	1,638,726
South Atlantic.....	62,457	59,563	3,486,868	6,323,450	.551	3,698,513
East South Central.....	44,111	42,327	2,171,836	4,683,824	.464	920,994
West South Central.....	54,800	52,324	2,293,588	5,152,629	.445	1,026,743
Mountain.....	53,937	53,067	4,195,669	6,476,120	.648	2,689,369
Pacific.....	31,786	30,761	2,415,069	3,372,859	.716	1,040,932
Total continental United States <sup>1</sup> .....	443,164	429,229	25,273,800	44,205,325	.572	<sup>2</sup> 29,179,520
Outside continental United States.....	7,715	6,796	410,844	795,901	.516	448,063
Grand total.....	450,879	436,025	25,684,644	45,001,226	.571	29,627,583

<sup>1</sup> Includes data for 145 wage earners which cannot be charged to any specific geographic division.

<sup>2</sup> Includes \$13,725,000 estimated value of material orders placed for public-roads projects which cannot be charged to any specific geographic division.

There were more than 60,000 workers employed in each of the following divisions: East North Central, West North Central, and South Atlantic.

Over \$4,000,000 was disbursed in the Mountain States during August. Workers in both the East North Central and the South Atlantic States drew over \$3,000,000 for their month's pay. Average hourly earnings ranged from 45 cents in the West South Central States to 72 cents in the Pacific States.

Table 4 shows employment, pay rolls, and man-hours worked during August 1934 on non-Federal construction projects financed from the Public Works Administration fund, by geographic division.

TABLE 4.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON NON-FEDERAL PROJECTS FINANCED FROM THE PUBLIC WORKS ADMINISTRATION FUND DURING AUGUST 1934, BY TYPE OF PROJECT

[Subject to revision]

Geographic division	Wage earners		Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
	Number employed	Weekly average				
New England.....	16,542	13,339	\$968,723	1,584,840	\$0.611	\$1,107,697
Middle Atlantic.....	18,112	16,057	1,108,261	1,656,516	.669	2,219,335
East North Central.....	18,590	15,334	1,226,190	1,616,082	.759	1,930,583
West North Central.....	15,294	12,511	691,120	1,047,634	.660	1,414,094
South Atlantic.....	23,719	20,527	1,474,064	2,478,449	.595	1,769,327
East South Central.....	5,216	4,440	242,662	452,196	.537	253,425
West South Central.....	4,047	3,274	161,477	309,699	.521	445,084
Mountain.....	6,794	5,730	329,732	577,464	.571	522,741
Pacific.....	8,607	7,238	374,836	564,610	.664	832,016
Total continental United States.....	116,921	98,450	6,577,065	10,287,490	.639	10,495,217
Outside continental United States.....	750	602	31,381	58,656	.535	84,036
Grand total.....	117,671	99,052	6,608,446	10,346,146	.639	10,579,253

Nearly 24,000 workers were employed in the South Atlantic States during August, while more than 18,000 were working in both the Middle Atlantic and East North Central States. Pay rolls amounted to over \$1,000,000 in each of the three geographic divisions enumerated above. Hourly earnings ranged from 52 cents in the West South Central States to 75 cents in the East North Central States.

Table 5 shows employment, pay rolls, and man-hours worked in railroad shops on work financed from the Public Works Administration fund during August 1934, by geographic divisions.

TABLE 5.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED IN RAILROAD SHOPS ON WORK FINANCED FROM THE PUBLIC WORKS ADMINISTRATION FUND DURING AUGUST 1934, BY GEOGRAPHIC DIVISION

[Subject to revision]

Geographic division	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
New England.....	591	\$66,535	102,631	\$0.648	\$328,440
Middle Atlantic.....	5,641	433,384	653,281	.663	3,194,885
East North Central.....	3,529	323,561	503,590	.643	247,855
West North Central.....	1,611	92,476	143,393	.645	64,101
South Atlantic.....	181	8,151	15,610	.522	11,161
East South Central.....	2,743	291,407	475,098	.613	55,993
West South Central.....	2,463	149,520	250,888	.596	71,876
Mountain.....	907	45,420	71,863	.632	28,130
Pacific.....	3,387	232,115	372,381	.623	91,031
Total.....	21,053	1,642,569	2,588,735	.635	4,093,472

More than 25 percent of the railroad shop workers engaged on Public Works Administration projects were working in the Middle Atlantic States. Workers in this division drew over \$400,000 for their month's pay. Railroad shop employees worked over 2,500,000 hours during this month. The workers averaged nearly 64 cents per hour.



In the South Atlantic States the hourly rate was less than 53 cents. In the Middle Atlantic States more than 66 cents. Only 2 geographic divisions, the South Atlantic and the West South Central, showed average hourly earnings of less than 60 cents.

Table 6 shows expenditures for materials from the beginning of the Public Works Administration program in July 1933 to August 15, 1934.

TABLE 6.—VALUE OF MATERIAL ORDERS PLACED ON PUBLIC WORKS PROJECTS BY TYPE OF MATERIAL

[Subject to revision]

Type of material	Value of material orders placed	
	From beginning of program to July 15, 1934	During month ending Aug. 15, 1934
Aircraft (new).....	\$4, 284, 890	.....
Airplane parts.....	4, 243, 243	\$143, 569
Aluminum manufactures.....	43, 359	51, 849
Ammunition and related products.....	75, 726	503, 074
Asbestos.....	42, 292	8, 450
Awnings, tents, canvas, etc.....	136, 451	5, 264
Belting, miscellaneous.....	13, 019	1, 549
Boat building, steel and wooden (small).....	529, 702	246, 800
Bolts, nuts, washers, etc.....	1, 596, 404	108, 598
Carpets and rugs.....	30, 391	114
Carriages and wagons.....	15, 854	1, 094
Cast-iron pipe and fittings.....	5, 185, 095	1, 035, 849
Cement.....	49, 062, 654	5, 402, 351
Chemicals.....	145, 865	18, 342
Clay products.....	3, 709, 642	852, 703
Coal.....	420, 011	93, 179
Compressed and liquefied gases.....	120, 130	23, 095
Concrete products.....	5, 035, 379	1, 371, 429
Copper products.....	248, 847	69, 952
Cordage and twine.....	160, 781	13, 104
Cork products.....	25, 857	10, 094
Cotton goods.....	59, 437	6, 531
Creosote.....	445, 821	927
Crushed stone.....	15, 558, 604	1, 815, 790
Doors, shutters, and window sash and frames, molding and trim (metal).....	1, 719, 842	88, 292
Electrical machinery, apparatus, and supplies.....	16, 730, 915	3, 251, 038
Elevators and parts.....	.....	32, 965
Engines, turbines, tractors, water wheels, and windmills.....	2, 522, 164	139, 319
Explosives.....	1, 760, 687	189, 213
Felt goods.....	86, 747	62, 921
Firearms.....	306, 637	442, 152
Forgings, iron and steel.....	2, 479, 670	277, 140
Foundry and machine-shop products, not elsewhere classified.....	45, 087, 048	5, 844, 454
Furniture, including store and office fixtures.....	403, 172	291, 774
Glass.....	249, 329	38, 434
Hardware, miscellaneous.....	1, 596, 662	231, 163
Instruments, professional and scientific.....	1, 129, 586	159, 349
Jute goods.....	23, 620	9, 754
Lighting equipment.....	975, 810	88, 557
Lime.....	78, 967	17, 821
Linoleum.....	7, 920	2, 293
Locomotives, oil-electric.....	330, 923	181, 843
Locomotives, steam.....	5, 707, 369	1, 129, 695
Lumber and timber products.....	21, 099, 251	2, 149, 025
Machine tools.....	2, 177, 363	719, 323
Marble, granite, slate, and other stone products.....	5, 542, 297	584, 769
Mattresses and bed springs.....	7, 779	5, 139
Meters (gas, water, etc.), and gas generators.....	67, 692	43, 741
Minerals and earths, ground or otherwise treated.....	72, 482	7, 867
Motor vehicles, passenger.....	145, 983	7, 204
Motor vehicles, trucks.....	348, 022	49, 152
Nails and spikes.....	466, 594	13, 103
Nonferrous-metal alloys, nonferrous-metal products, except aluminum, not elsewhere classified.....	721, 740	35, 867
Paints and varnishes.....	911, 770	154, 117
Paper products.....	15, 993	3, 344

TABLE 6.—VALUE OF MATERIAL ORDERS PLACED ON PUBLIC WORKS PROJECTS, BY TYPE OF MATERIAL—Continued

[Subject to revision]

Type of material	Value of material orders placed	
	From beginning of program to July 15, 1934	Month month ending Aug. 15, 1934
Paving materials and mixtures.....	\$6, 741, 192	\$950, 368
Petroleum products.....	11, 811, 255	1, 522, 834
Photographic apparatus and materials.....	9, 856	719
Planing-mill products.....	1, 850, 316	336, 704
Plumbing supplies.....	3, 385, 116	582, 948
Pumps and pumping equipment.....	4, 760, 356	611, 577
Radio apparatus and supplies.....	4, 238, 813	329, 243
Rail fastenings, excluding spikes.....	4, 757, 927	31, 178
Rails, steel.....	17, 368, 805	7, 821
Railway cars, freight.....	34, 522, 560	1, 341
Railway cars, mail and express.....	219, 157	210, 286
Railway cars, passenger.....	5, 661, 773	1, 140, 662
Refrigerators and refrigerator cabinets, including mechanical refrigerators.....	462, 648	65, 941
Roofing, built-up and roll; asphalt shingles; roof coatings, other than paint.....	986, 023	182, 551
Rubber goods.....	166, 552	29, 231
Sacks and bags.....	12, 897	2, 413
Sand and gravel.....	26, 307, 293	3, 197, 754
Sheet-metal work.....	1, 567, 035	118, 359
Smelting and refining lead.....	80, 746	22, 585
Smelting and refining zinc.....	3, 853	13, 556
Springs, steel.....	536, 260	1, 764
Steam and hot-water heating apparatus.....	2, 194, 690	314, 321
Steam and other packing, pipe and boiler covering, and gaskets.....	304, 200	54, 888
Steel-works and rolling-mill products, other than steel rails, including structural and ornamental metal work.....	63, 138, 507	5, 047, 616
Stoves and ranges (other than electric) and warm-air furnaces.....	72, 171	24, 138
Switches, railway.....	752, 021	15, 627
Theatrical scenery and stage equipment.....	23, 651	2, 050
Tools, other than machine tools.....	2, 377, 112	288, 790
Upholstering materials, not elsewhere classified.....	67, 477	14, 361
Wall plaster, wall board, insulating board, and floor composition.....	671, 535	125, 017
Waste.....	15, 657	1, 014
Window and door screens and weather strip.....	41, 219	19, 322
Window shades and fixtures.....	22, 921	6, 790
Wire, drawn from purchased rods.....	2, 158, 494	65, 863
Wirework, not elsewhere classified.....	327, 739	122, 697
Wrought pipe, welded and heavy riveted.....	177, 902	50, 721
Other.....	16, 399, 908	3, 414, 026
Total.....	414, 159, 125	46, 961, 648

During the 12-month period ending July 15, purchase orders were placed for materials to cost over \$414,000,000. The total purchases of steel-works and rolling-mill products amounted to over \$63,000,000; foundry and machine-shop products, over \$44,000,000; railroad freight cars, over \$34,000,000; and cement, over \$49,000,000.

During the month of August orders were placed for materials valued at nearly \$47,000,000. It is estimated that the fabrication of the materials for which orders were placed during August will create approximately 130,000 man-months of labor.

Table 7 shows employment, pay rolls, and man-hours worked by employees since the inception of the Public Works Administration program in August 1933 to August 1934, inclusive.

TABLE 7.—EMPLOYMENT PAY ROLLS, AND MAN-HOURS WORKED DURING AUGUST 1933 TO AUGUST 1934, ON PROJECTS FINANCED FROM THE PUBLIC WORKS ADMINISTRATION FUND, BY MONTHS

[Subject to revision]

Month	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
1933					
August.....	4,699	\$280,040	539,454	\$0.519	\$202,100
September.....	33,836	1,961,496	3,920,009	.500	1,622,365
October <sup>1</sup> .....	121,403	7,325,313	14,636,603	.500	<sup>2</sup> 22,513,767
November <sup>1</sup> .....	254,784	14,458,364	27,862,280	.519	24,299,055
December <sup>1</sup> .....	270,408	15,424,700	29,866,249	.516	24,850,188
1934					
January.....	273,583	14,574,960	27,658,591	.527	23,522,929
February <sup>1</sup> .....	295,741	15,246,423	28,938,177	.527	24,565,004
March <sup>1</sup> .....	292,696	15,636,545	29,171,634	.536	<sup>3</sup> 69,334,408
April <sup>4</sup> .....	371,234	17,907,842	31,559,966	.567	<sup>3</sup> 66,639,862
May <sup>4</sup> .....	491,166	25,076,908	44,912,412	.558	<sup>3</sup> 49,720,378
June <sup>4</sup> .....	592,057	32,783,533	58,335,119	.562	<sup>3</sup> 57,589,895
July <sup>4</sup> .....	624,286	33,829,858	59,436,314	.569	<sup>3</sup> 49,299,174
August <sup>4</sup> .....	602,581	35,142,770	59,943,828	.586	<sup>3</sup> 46,961,648
Total.....		229,648,752	416,780,136	.551	461,120,773

<sup>1</sup> Revised.<sup>2</sup> Includes orders placed for naval vessels prior to October.<sup>3</sup> Includes orders placed by railroads for new equipment.<sup>4</sup> Includes data for commercial car and locomotive shops.

The total earnings over the 13-month period amounted to nearly \$230,000,000. This construction program has provided at the site of the construction projects over 400,000,000 man-hours of labor. The earnings have averaged over 55 cents per hour over the 13-month period.

It is estimated that the manufacture of materials for which orders have been placed will create nearly 1,240,000 man-months of labor. This only accounts for the labor in fabricating the material in the form in which it is to be used. For example, only labor in manufacturing bricks is counted, not the labor in taking the clay from the banks or in hauling the clay and other materials used in the brick product. In fabricating steel rails, only the labor in the rolling mill is counted, not labor created in mining and smelting the ore, or labor in the blast furnace, the open-hearth furnace, or the blooming mill.

### Emergency Work Relief Program

OVER 1,200,000 people are now given employment by the emergency work program of the Federal Emergency Relief Administration.

Table 8 shows the number of employees and the amounts of pay rolls for the workers on the emergency work program for the weeks ending July 26 and August 30.

**TABLE 8.—NUMBER OF EMPLOYEES AND AMOUNTS OF PAY ROLLS FOR WORKERS ON EMERGENCY WORK PROGRAM, JULY 26 AND AUG. 30, 1934**

Geographic division	Number of employees week ending—		Amount of pay roll week ending—	
	July 26	Aug. 30	July 26	Aug. 30
New England.....	95,836	93,500	\$1,173,810	\$1,080,328
Middle Atlantic.....	232,549	167,227	3,746,204	2,774,873
East North Central.....	205,812	217,179	2,014,773	2,199,905
West North Central.....	179,238	185,973	1,247,098	1,352,122
South Atlantic.....	148,468	143,851	954,964	938,941
East South Central.....	99,170	118,074	538,185	627,996
West South Central.....	110,287	141,010	806,752	971,873
Mountain.....	62,665	61,177	688,640	694,546
Pacific.....	60,415	83,843	723,011	976,921
Total.....	1,194,440	1,211,834	11,893,437	11,617,505
Percent of change.....		+1.5		-2.3

There was an increase of 1.5 percent in the number of employees comparing the last week in August with the last week in July. Pay rolls for the same period decreased 2.3 percent.

Table 9 shows the number of employees and amounts of pay rolls for those given jobs on the emergency work program of the Federal Emergency Relief Administration, by months, from the inception of the program in March to August 1934, inclusive.

**TABLE 9.—NUMBER OF EMPLOYEES AND AMOUNTS OF PAY ROLLS FOR WORKERS ON EMERGENCY WORK PROGRAM, BY MONTHS**

Month	Number of employees	Amount of pay roll	Month	Number of employees	Amount of pay roll
March.....	22,934	\$842,000	June.....	969,466	\$42,438,091
April.....	786,829	42,558,711	July.....	1,136,563	46,466,611
May.....	866,779	39,067,337	August.....	1,251,529	61,093,001

<sup>1</sup> Subject to revision.

There were less than 23,000 workers on this program in March and by August the number of employees had increased over 1,200,000.

### Emergency Conservation Work

ON AUGUST 31 there were 385,340 men in the civilian conservation camps. This is a decrease of nearly 4,000 as compared with July. The decrease was entirely confined to the intermittent labor in the camps.

Table 10 shows the employment and pay rolls for emergency conservation work during the months of July and August 1934, by type of work.

**TABLE 10.—EMPLOYMENT AND PAY ROLLS IN THE EMERGENCY CONSERVATION WORK, JULY AND AUGUST 1934**

Group	Number of employees		Amount of pay rolls	
	July	August	July	August
Enrolled personnel.....	346, 637	346, 805	\$10, 825, 476	\$10, 830, 714
Reserve officers.....	6, 034	6, 092	1, 509, 157	1, 522, 675
Education advisors.....	1, 102	1, 095	176, 765	175, 669
Supervisory and technical <sup>1</sup> .....	35, 331	31, 348	3, 521, 336	3, 834, 768
Total.....	389, 104	385, 340	16, 032, 734	16, 363, 826

<sup>1</sup> Includes carpenters, electricians, and laborers.<sup>2</sup> 28,533 included in executive service table.<sup>3</sup> 28,493 included in executive service table.

The pay rolls for the Emergency Conservation Work for August amounted to over \$16,300,000. In addition to their pay, the enrolled personnel receive free board, clothing, and medical attention.

Data concerning employment and pay rolls for Emergency Conservation Work are collected by the Bureau of Labor Statistics from the War Department, Department of Agriculture, Treasury Department, and the Department of the Interior.

The pay of the enrolled personnel is figured as follows: 5 percent are paid \$45 per month, 8 percent \$36 per month, and the remaining 87 percent \$30 per month.

Table 11 shows monthly totals of employees and pay rolls in Emergency Conservation Work from the inception of the program in May 1933 to August 1934, inclusive.

**TABLE 11.—MONTHLY TOTALS OF EMPLOYEES, AND PAY ROLLS IN THE EMERGENCY CONSERVATION WORK FROM MAY 1933 TO AUGUST 1934**

Month	Number of employees	Amount of pay roll	Month	Number of employees	Amount of pay roll
1933			1934		
May.....	191, 380	\$6, 388, 760	January.....	331, 594	\$13, 581, 506
June.....	283, 481	9, 876, 780	February.....	321, 829	13, 081, 393
July.....	316, 109	11, 482, 262	March.....	247, 591	10, 792, 319
August.....	307, 100	11, 604, 401	April.....	314, 664	13, 214, 018
September.....	242, 968	9, 759, 628	May.....	335, 871	14, 047, 512
October.....	294, 861	12, 311, 033	June.....	280, 271	12, 641, 401
November.....	344, 273	14, 554, 695	July.....	389, 104	16, 032, 734
December.....	321, 701	12, 951, 042	August.....	385, 312	16, 360, 938

### Employment on Public Roads Other Than P. W. A. Projects

THE carry-over appropriations of the Federal- and State-aid program are nearly exhausted. In August there were less than 4,000 men employed. Most of the Federal road building is now being financed from the public-works fund. Workers that are paid from this fund are shown in table 1, page 43.

Table 1 shows the number of employees (exclusive of those paid from the public-works fund) engaged in the building and maintenance of Federal and State roads during the months of July and August 1934, by geographic divisions.

**TABLE 1.—NUMBER OF EMPLOYEES ENGAGED IN THE CONSTRUCTION AND MAINTENANCE OF PUBLIC ROADS, STATE AND FEDERAL, DURING JULY AND AUGUST, 1934, BY GEOGRAPHIC DIVISIONS<sup>1</sup>**

Geographic division	Federal				State			
	Number of employees		Amount of pay rolls		Number of employees		Amount of pay rolls	
	July	August	July	August	July	August	July	August
New England.....	33	0	\$1, 579	0	18, 392	22, 037	\$1, 024, 839	\$1, 323, 653
Middle Atlantic.....	997	880	62, 168	\$55, 597	56, 168	60, 359	2, 984, 237	3, 151, 646
East North Central.....	599	626	39, 061	39, 776	35, 678	35, 964	1, 914, 210	2, 125, 316
West North Central.....	115	78	5, 444	2, 883	18, 812	23, 974	909, 195	1, 150, 884
South Atlantic.....	120	97	5, 525	3, 355	38, 829	41, 049	1, 525, 805	1, 555, 871
East South Atlantic.....	43	13	3, 141	623	8, 980	14, 094	463, 894	518, 858
West South Atlantic.....	1, 050	467	40, 179	14, 932	18, 051	18, 064	1, 036, 181	1, 116, 539
Mountain.....	1, 269	1, 057	81, 286	55, 699	8, 131	8, 960	558, 279	626, 639
Pacific.....	612	547	50, 455	51, 176	10, 865	9, 178	839, 045	857, 496
Total.....	4, 838	3, 765	288, 838	224, 041	213, 906	233, 739	11, 255, 685	12, 426, 902
Percent of change.....		-22. 2		-22. 4		+9. 3		+10. 4
Outside continental United States.....	155	168	8, 958	12, 563		71		8, 261

<sup>1</sup> Excluding employment furnished by projects financed from public-works fund.

There was an increase of more than 20,000 in the number of road workers paid wholly from State funds, comparing August with July. Increases in pay rolls amounted to nearly \$1,200,000. Of the State road workers, 77.1 percent were employed in maintaining existing roads, and only 22.9 percent in building new roads.

Nearly 25 percent of the State road workers were working in the Middle Atlantic division—that is, in the States of Pennsylvania New York, and New Jersey.

Table 2 shows the number of employees engaged in the construction and maintenance of public roads, State and Federal, January to August 1934, inclusive.

**TABLE 2.—NUMBER OF EMPLOYEES ENGAGED IN THE CONSTRUCTION AND MAINTENANCE OF PUBLIC ROADS, STATE AND FEDERAL, JANUARY TO AUGUST, 1934, INCLUSIVE<sup>1</sup>**

Month	Number of employees working on—			
	Federal roads	State roads		
		New	Maintenance	Total
January.....	7, 633	25, 345	136, 440	161, 785
February.....	2, 382	22, 311	126, 904	149, 215
March.....	1, 396	19, 985	132, 144	152, 129
April.....	1, 932	21, 510	136, 038	157, 548
May.....	3, 941	27, 161	167, 274	194, 435
June.....	4, 678	37, 642	170, 879	208, 521
July.....	4, 993	45, 478	168, 428	213, 906
August.....	3, 933	53, 540	180, 270	233, 810

<sup>1</sup> Excluding employment furnished by projects financed from the public-works fund.

## Employment on Construction Projects Financed by the Reconstruction Finance Corporation, August 1934

**N**EARLY 17,000 people were on the pay rolls of contractors engaged on construction projects financed by the Self-Liquidating Division of the Reconstruction Finance Corporation during the month ending August 15.

Table 1 shows employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation, by type of project.

**TABLE 1.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON PROJECTS FINANCED BY THE SELF-LIQUIDATING DIVISION OF THE RECONSTRUCTION FINANCE CORPORATION DURING AUGUST 1934, BY TYPE OF PROJECT**

[Subject to revision]

Type of project	Number of wage earners	Amount of pay roll	Number of man-hours worked	Average earnings per hour	Value of material purchased
Building construction.....	2,770	\$311,224	274,568	\$1.134	\$289,542
Bridges.....	4,929	394,893	484,839	.814	942,854
Reclamation.....	2,370	153,743	340,380	.452	106,431
Water and sewage.....	5,069	615,118	873,885	.704	496,777
Miscellaneous.....	2,011	213,034	312,614	.681	467,912
Total.....	17,149	1,688,012	2,286,286	.738	2,303,516

Pay rolls for the month ending August 15 totaled nearly \$1,700,000 for employees working at the site of Reconstruction Finance Corporation construction projects. These men worked nearly 2,300,000 hours and earned almost 74 cents per hour. The hourly earnings ranged from 45 cents for reclamation projects to \$1.13 for building construction.

Table 2 shows employment, pay rolls, and man-hours worked on contracts financed by the Self-Liquidating Division of the Reconstruction Finance Corporation, by geographic divisions.

**TABLE 2.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON PROJECTS FINANCED BY THE SELF-LIQUIDATING DIVISION OF THE RECONSTRUCTION FINANCE CORPORATION DURING AUGUST 1934 BY GEOGRAPHIC DIVISION**

[Subject to revision]

Geographic division	Number of wage earners	Amount of pay roll	Number of man-hours worked	Average earnings per hour	Value of material purchased
New England.....	0	0	0	0	0
Middle Atlantic.....	4,171	\$449,963	435,834	\$1.032	\$810,536
East North Central.....	287	36,470	36,463	1.000	23,268
West North Central.....	54	2,556	3,753	.681	0
South Atlantic.....	725	35,828	83,552	.429	11,741
East South Central.....	119	5,107	18,039	.283	1,550
West South Central.....	773	74,499	97,506	.764	42,288
Mountain.....	2,451	161,834	348,387	.465	110,122
Pacific.....	8,569	921,755	1,262,752	.730	1,304,011
Total.....	17,149	1,688,012	2,286,286	.738	2,303,516

Of the 17,000 workers, more than 8,000 were employed in the Pacific States and over 4,000 in the Middle Atlantic States.

Hourly earnings averaged from less than 29 cents in the East South Central States to over \$1.03 in the Middle Atlantic States.

Table 3 shows data concerning employment, pay rolls, and man-hours worked during the months April to August, inclusive, on construction projects financed by the Reconstruction Finance Corporation.

TABLE 3.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED DURING APRIL TO AUGUST 1934 ON PROJECTS FINANCED BY THE SELF-LIQUIDATING DIVISION OF THE RECONSTRUCTION FINANCE CORPORATION

[Subject to revision]

Month	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
April.....	18,638	\$1,518,479	2,302,739	\$0.659	\$2,297,479
May.....	19,274	1,636,503	2,334,060	.701	2,120,498
June.....	19,218	1,743,318	2,412,342	.723	2,189,538
July.....	17,760	1,624,924	2,183,560	.744	2,332,554
August.....	17,149	1,688,012	2,286,286	.738	2,303,516

Table 4 shows by types of projects the materials purchased by contractors working on construction projects financed by the Reconstruction Finance Corporation.

It is estimated that 6,000 man-months of labor were created in fabricating this material.

TABLE 4.—MATERIALS PURCHASED DURING MONTH ENDING AUG. 15, 1934, FOR PROJECTS FINANCED BY THE SELF-LIQUIDATING DIVISION OF THE RECONSTRUCTION FINANCE CORPORATION, BY TYPE OF MATERIAL

Type of material	Value of materials purchased <sup>1</sup>
Bolts, nuts, rivets, etc.....	\$3,805
Cast-iron pipe and fittings.....	33,281
Cement.....	118,149
Clay products.....	25,018
Coal.....	2,331
Compressed and liquefied gases.....	4,273
Concrete products.....	134,119
Copper products.....	215,298
Cordage and twine.....	2,269
Electrical machinery and supplies.....	133,790
Explosives.....	102,970
Foundry and machine-shop products, not elsewhere classified.....	198,921
Fuel oil.....	8,767
Gasoline.....	37,067
Hardware, miscellaneous.....	51,057
Lubricating oils and greases.....	4,832
Lumber and timber products.....	155,114
Marble, granite, slate, and other stone products.....	3,124
Motor vehicles.....	9,822
Nails and spikes.....	2,253
Paints and varnishes.....	1,022
Plumbing supplies.....	40,560
Pumps and pumping equipment.....	4,098
Roofing.....	1,044
Rubber goods.....	4,111
Sand and gravel.....	53,797
Sheet metal work.....	5,695
Steel-works and rolling-mill products, including structural and ornamental metal work.....	779,082
Tools, other than machine tools.....	8,611
Wire.....	42,442
Wirework, not elsewhere classified.....	2,117
Miscellaneous materials.....	114,677
Total.....	2,303,516

<sup>1</sup> Subject to revision.



## Wage-Rate Changes in American Industries

### Manufacturing Industries

THE following table presents information concerning wage-rate adjustments occurring between July 15 and August 15, 1934, as shown by reports received from 25,016 manufacturing establishments employing 3,749,639 workers in August.

One hundred and fifty-three establishments in 42 industries reported wage-rate increases averaging 7.7 percent and affecting 17,344 employees. Fourteen establishments in 10 industries reported decreases which averaged 8 percent and affected 354 workers.

The outstanding wage-rate adjustment was an average increase of 5.8 percent received by 4,262 wage earners in 4 establishments in the engine, turbine, tractor, and water-wheel industry.

Nine establishments in the paper and pulp industry gave an average increase of 8.6 percent to 1,919 workers, while a like number of electric-railroad repair shops reported an average increase of 4 percent to 1,207 employees. An average increase of 5 percent was received by 1,091 workers in 2 leather plants, one of 9.9 percent to 935 employees was reported by 9 establishments in the radio and phonograph industry, one of 5.2 percent was given to 921 wage earners in the petroleum-refining industry, and one of 8.9 percent was received by 847 workers in 15 establishments in the newspaper and periodical industry. The increases in each of the remaining industries affected 622 employees or less.

TABLE 1.—WAGE-RATE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING AUG. 15, 1934

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
All manufacturing industries.....	25,016	3,749,639	24,849	153	14	3,731,941	17,344	354
Percent of total.....	100.0	100.0	99.3	.6	.1	99.5	.5	(1)
Iron and steel and their products, not including machinery:								
Blast furnaces, steel works, and rolling mills.....	232	259,133	232	-----	-----	259,133	-----	-----
Bolts, nuts, washers, and rivets.....	59	8,883	59	-----	-----	8,883	-----	-----
Cast-iron pipe.....	53	10,849	53	-----	-----	10,849	-----	-----
Cutlery (not including silver and plated cutlery) and edge tools.....	182	14,124	180	2	-----	13,562	562	-----
Forgings, iron and steel.....	93	9,049	90	3	-----	8,507	542	-----
Hardware.....	120	29,712	120	-----	-----	29,712	-----	-----
Plumbers' supplies.....	92	9,436	92	-----	-----	9,436	-----	-----
Steam and hot-water heating apparatus and steam fittings.....	98	20,065	96	2	-----	20,016	49	-----
Stoves.....	230	26,105	229	1	-----	26,101	4	-----
Structural and ornamental metalwork.....	304	21,416	301	3	-----	21,376	40	-----
Tin cans and other tinware.....	64	12,578	63	1	-----	12,540	38	-----

<sup>1</sup> Less than  $\frac{1}{10}$  of 1 percent.

TABLE 1.—WAGE-RATE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING AUG. 15, 1934—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
Iron and steel and their products, not including machinery—Con.								
Tools (not including edge tools, machine tools, files, and saws)	138	9,577	138			9,577		
Wirework	113	8,761	113			8,761		
Machinery, not including transportation equipment:								
Agricultural implements	85	10,292	85			10,292		
Cash registers, adding machines, and calculating machines	28	16,649	28			16,649		
Electrical machinery, apparatus, and supplies	442	126,577	437	5		126,403	174	
Engines, turbines, tractors, and water wheels	105	25,986	101	4		21,724	4,262	
Foundry and machine-shop products	1,677	154,148	1,668	9		154,010	138	
Machine tools	216	20,636	216			20,636		
Radios and phonographs	60	39,063	53	7		33,128	935	
Textile machinery and parts	91	11,810	91			11,810		
Typewriters and parts	13	11,870	13			11,870		
Transportation equipment:								
Aircraft	30	7,040	30			7,040		
Automobiles	326	300,268	324	2		300,256	12	
Cars, electric and steam-railroad	61	19,390	61			19,390		
Locomotives	10	4,881	10			4,881		
Shipbuilding	115	33,244	113	1	1	32,586	622	36
Railroad repair shops:								
Electric railroad	380	20,085	371	9		18,378	1,207	
Steam railroad	573	76,216	573			76,216		
Nonferrous metals and their products:								
Aluminum manufactures	37	6,515	37			6,515		
Brass, bronze, and copper products	312	40,628	0	2		40,624	4	
Clocks and watches and time-recording devices	30	10,444	30			10,444		
Jewelry	196	9,436	196			9,436		
Lighting equipment	74	4,037	73	1		4,031	6	
Silverware and plated ware	68	9,226	68			9,226		
Smelting and refining—copper, lead, and zinc	44	15,865	43	1		15,273	592	
Stamped and enameled ware	224	24,625	222	2		24,598	27	
Lumber and allied products:								
Furniture	614	56,503	609	5		56,241	262	
Lumber:								
Millwork	709	29,607	707	2		29,589	18	
Sawmills	758	90,744	754	3	1	90,316	408	20
Turpentine and rosin	35	2,672	34	1		2,392	280	
Stone, clay, and glass products:								
Brick, tile, and terra cotta	632	20,459	630	2		20,266	193	
Cement	123	16,920	122	1		16,814	106	
Glass	173	49,507	173			49,507		
Marble, granite, slate, and other products	260	5,116	258	2		5,031	85	
Pottery	141	18,894	141			18,894		
Textiles and their products:								
Fabrics:								
Carpets and rugs	30	16,413	30			16,413		
Cotton goods	717	287,366	717			287,366		
Cotton small wares	128	10,868	128			10,868		
Dyeing and finishing textiles	180	41,705	180			41,705		
Hats, fur-felt	41	7,842	37	4		7,585	257	
Knit goods	496	115,587	496			115,587		
Silk and rayon goods	304	51,054	302		2	50,932		122
Woolen and worsted goods	479	99,451	477	2		99,330	121	

TABLE 1.—WAGE-RATE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING AUG. 15, 1934—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
Textiles and their products—Con.								
Wearing apparel:								
Clothing, men's.....	1,307	96,563	1,306	1	96,521			42
Clothing, women's.....	675	38,490	671	4	38,406	84		
Corsets and allied garments.....	43	6,575	43		6,575			
Men's furnishings.....	95	8,937	94	1	8,923			14
Millinery.....	142	7,985	142		7,985			
Shirts and collars.....	174	25,731	174		25,731			
Leather and its manufactures:								
Boots and shoes.....	370	128,399	370		128,399			
Leather.....	174	32,404	172	2	31,313	1,091		
Food and kindred products:								
Baking.....	1,168	76,165	1,154	11	75,625	503		37
Beverages.....	568	35,232	560	7	35,017	172		43
Butter.....	332	5,653	332		5,653			
Canning and preserving.....	758	112,399	758		112,399			
Confectionery.....	352	33,991	351	1	33,862	129		
Flour.....	444	17,739	437	7	17,567	172		
Ice cream.....	385	14,181	385		14,181			
Slaughtering and meat packing.....	314	121,490	311	3	121,334	156		
Sugar, beet.....	67	7,651	67		7,651			
Sugar refining, cane.....	16	9,719	16		9,719			
Tobacco manufactures:								
Chewing and smoking tobacco and snuff.....	41	10,376	41		10,376			
Cigar and cigarettes.....	255	53,923	254	1	53,916	7		
Paper and printing:								
Boxes, paper.....	432	30,534	431	1	30,516	18		
Paper and pulp.....	465	112,106	456	9	110,187	1,919		
Printing and publishing:								
Book and job.....	1,535	62,807	1,527	7	62,626	169		12
Newspapers and periodicals.....	609	59,266	594	15	58,419	847		
Chemicals and allied products, and petroleum refining:								
Other than petroleum refining:								
Chemicals.....	156	30,966	156		30,966			
Cottonseed-oil, cake, and meal.....	102	3,735	102		3,735			
Druggists' preparations.....	73	9,130	71	2	9,080	50		
Explosives.....	27	4,111	27		4,111			
Fertilizers.....	208	6,042	207	1	6,019			23
Paints and varnishes.....	397	9,441	394	1	9,326	110		5
Rayon and allied products.....	31	45,575	31		45,575			
Soap.....	119	16,194	119		16,194			
Petroleum refining.....	202	67,029	200	2	66,108	921		
Rubber products:								
Rubber boots and shoes.....	7	11,354	7		11,354			
Rubber goods, other than boots, shoes, tires, and inner tubes.....	145	25,917	142	3	25,865	52		
Rubber tires and inner tubes.....	33	52,502	33		52,502			

### Nonmanufacturing Industries

DATA concerning wage-rate changes occurring between July 15 and August 15, 1934, reported by cooperating establishments in 17 non-manufacturing industries, are presented in table 2.

Increases averaging 4.7 percent and affecting 12,144 employees were reported by 58 laundries. One hundred ninety-two retail trade establishments gave an average raise of 6.5 percent to 7,314 workers,

while 37 establishments in the electric light and power and manufactured gas industry gave an average increase of 3.6 percent to 6,013 employees. Nine establishments in the electric-railroad and motor-bus operation and maintenance industry reported increases which averaged 5.5 percent and affected 5,949 workers, while 40 wholesale trade establishments gave an average increase of 10.7 percent to 425 employees. The increases in each of the remaining industries affected less than 100 workers.

The decreases reported were negligible.

TABLE 2.—WAGE-RATE CHANGES IN **NONMANUFACTURING** INDUSTRIES DURING MONTH ENDING AUG. 15, 1934

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.....	160	68,799	160	—	—	68,799	—	—
Percent of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Bituminous-coal mining.....	1,442	232,469	1,442	—	—	232,469	—	—
Percent of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Metalliferous mining.....	269	28,228	268	1	—	28,196	32	—
Percent of total.....	100.0	100.0	99.6	.4	—	99.9	.1	—
Quarrying and nonmetallic mining.....	1,122	36,151	1,121	1	—	36,071	80	—
Percent of total.....	100.0	100.0	99.9	.1	—	99.8	.2	—
Crude-petroleum producing.....	241	33,913	241	—	—	33,913	—	—
Percent of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Telephone and telegraph.....	8,083	264,410	8,083	—	—	264,410	—	—
Percent of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Electric light and power and manu- factured gas.....	3,018	246,746	2,981	37	—	240,733	6,013	—
Percent of total.....	100.0	100.0	98.8	1.2	—	97.6	2.4	—
Electric-railroad and motor bus opera- tion and maintenance.....	552	138,866	543	9	—	132,917	5,949	—
Percent of total.....	100.0	100.0	98.4	1.6	—	95.7	4.3	—
Wholesale trade.....	15,440	275,127	15,396	40	4	274,685	425	17
Percent of total.....	100.0	100.0	98.7	.3	(1)	99.8	.2	(1)
Retail trade.....	54,129	767,896	53,908	192	29	760,389	7,314	193
Percent of total.....	100.0	100.0	99.6	.4	1	99.0	1.0	(1)
Hotels.....	2,559	142,947	2,555	3	1	142,887	58	2
Percent of total.....	100.0	100.0	99.8	.1	(1)	100.0	(1)	(1)
Laundries.....	1,358	75,864	1,297	58	3	63,596	12,144	124
Percent of total.....	100.0	100.0	95.5	4.3	.2	83.8	16.0	.2
Dyeing and cleaning.....	695	16,418	691	4	—	16,352	66	—
Percent of total.....	100.0	100.0	99.4	.6	—	99.6	.4	—
Banks.....	2,900	94,891	2,894	5	1	94,816	24	51
Percent of total.....	100.0	100.0	99.8	.2	(1)	99.9	(1)	.1
Brokerage.....	383	12,790	382	—	—	12,655	—	45
Percent of total.....	100.0	100.0	99.7	—	3	99.6	—	.4
Insurance.....	1,010	66,707	1,010	—	—	66,707	—	—
Percent of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Real estate.....	741	13,967	736	5	—	13,951	16	—
Percent of total.....	100.0	100.0	99.3	.7	—	99.9	.1	—

<sup>1</sup> Less than  $\frac{1}{10}$  of 1 percent.