

UNITED STATES DEPARTMENT OF LABOR

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BUREAU OF LABOR STATISTICS

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# Trend of Employment

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Prepared by Division of Employment Statistics

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# TREND OF EMPLOYMENT

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## Trend of Employment, November 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

**F**ACTORY employment decreased 1.9 percent from October to November and factory pay rolls declined 2.5 percent. The slightly greater decrease in pay rolls was due, to a slight extent, to the observance of the Armistice Day holiday during the November pay period. Thirty-seven of the 90 manufacturing industries surveyed reported gains in employment from October to November and 38 industries reported increased pay rolls.

Factory employment has decreased in November of each year since 1922. The decrease of 1.9 percent in factory employment was, with the exception of the decline of 1.6 percent in November 1932, the smallest reported for this month since 1928. The decrease of 2.5 percent in factory pay rolls was the smallest shown for any November since 1925.

The general indexes of factory employment and pay rolls for November 1934 are 76.8 and 59.5, respectively. A comparison of these indexes with those of November 1933 shows increases over the year interval of 0.8 percent in employment and 7.2 percent in pay rolls.

The indexes of factory employment and pay rolls are computed from data supplied by representative establishments in 90 important manufacturing industries of the country. Reports were received in November from 25,507 establishments employing 3,554,573 workers, whose weekly earnings were \$67,036,788 during the pay period ending November 15. The employment reports received from these cooperating establishments cover more than 50 percent of the total wage earners in all manufacturing industries of the country.

The most pronounced changes in employment over the month interval were seasonal in character. The woolen and worsted goods industry, in which increased activity is usually reported in November, showed a gain of 10.1 percent in employment. The men's-furnishings and the agricultural-implement industries also reported seasonal increases of 9.2 and 9.1 percent, respectively. Employment in the rayon industry increased 4.5 percent over the month interval, and increases ranging from 3 to 3.6 percent were reported in the cane-sugar refining, turpentine and rosin, clocks and watches, and iron and steel forgings industries. The hardware and glass industries reported gains in employment of 2.8 percent each and the lighting-equipment industry reported an increase of 2.7 percent. Less pronounced gains in employment in industries of major importance were: Machine tools, 1.5 percent; structural metalwork, 1.4 percent; plumbers' supplies, 1.3 percent; leather and paper and pulp, 1.1 percent each; knit goods, 1 percent; blast furnaces, steel works, rolling mills, 0.7 percent; newspapers, 0.6 percent; and electrical machinery, apparatus, and supplies, 0.5 percent.

The most pronounced decreases in employment were seasonal declines of 35.6 percent in the canning and preserving industry and 17.2 percent in the cottonseed oil-cake-meal industry. Other industries, in which substantial decreases, primarily seasonal in character, were reported, were: Millinery, 13.8 percent; beverages, 9.7 percent; ice cream, 9 percent; men's clothing, 7.4 percent; confectionery, 5.3 percent; women's clothing, 5.1 percent; cement, 4.9 percent; tin cans and other tinware, 4.5 percent; marble-slate-granite, 3.9 percent; radios and phonographs, 3.7 percent; jewelry, 3.5 percent; flour, 3.4 percent; and boots and shoes, 3.1 percent. The decrease of 14.4 percent in employment in textile dyeing and finishing plants resulted largely from labor disturbances in this industry. This strike also affected operations of silk mills, which reported a decline of 1.2 percent in employment over the month interval. Employment in electric- and steam-car building establishments declined 11.4 percent, due to the completion of orders placed under P. W. A. contracts. The decline of 7 percent in the slaughtering and meat-packing industry was due largely to the decrease in receipts of Government cattle.

Other industries in which substantial decreases in employment were reported were: Beet-sugar refining, 5.7 percent; aircraft, 5.5 percent; steam railroad repair shops, 5 percent; sawmills, 3.3 percent; cast-iron pipe, 2.9 percent; shipbuilding, 2.7 percent; and cigars and cigarettes and automobiles, 2.4 percent each. Lesser declines in industries of major importance were: Furniture and chemicals, 2 percent each; petroleum refining and automobile tires, 0.9 percent each; foundry and machine-shop products, 0.7 percent; and cotton goods, 0.4 percent.

Comparing the levels of employment and pay rolls in the 90 separate industries in November 1934 with those of November 1933, 52 industries showed increased employment over the year interval and 64 showed increased pay rolls.

Dividing the manufacturing industries into "durable" and "non-durable" goods groups, the former group showed decreases in employment and pay rolls from October to November of 1 percent and 0.6 percent, respectively. The latter group showed losses of 2.8 percent in employment and 3.8 percent in pay rolls. The November employment and pay-roll indexes were 62.2 and 46.1, respectively, for the "durable" goods group, and 92.4 and 76.6, respectively, for the "nondurable" goods group. 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 fell 0.5 percent from October to November and rose 6.5 percent from November 1933 to November 1934. Gains from October to November were shown in 43 of the 90 individual manufacturing industries surveyed and ranged from 0.1 to 24.3 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 October and November 1934 showed a decrease over the month interval for all manufacturing industries combined of 0.6 percent in average hours worked per week and no change in average hourly earnings. Thirty-nine of the industries covered showed increases in average hours worked and 42 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 are shown indexes of employment and pay rolls in November 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 October 1934 and November 1933. Per capita weekly earnings in November 1934, together with percentage changes from

the previous month and from November 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 November 1934 and average hourly earnings, together with percentage changes from October 1934 and November 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.

More complete data, now available, have made necessary certain revisions for October in 21 industries, in the groups to which they belong, and in all manufacturing industries combined. These revisions appear in table 2.

Table 1.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing Industries, November 1934

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 November 1934 (3-year average 1923-25 = 100)	Percentage change from—		Index November 1934 (3-year average 1923-25 = 100)	Percentage change from—		Average in November 1934	Percentage change from—		Average in November 1934	Percentage change from—		Average in November 1934	Percentage change from—	
		October 1934	November 1933		October 1934	November 1933		October 1934	November 1933		October 1934	November 1933		October 1934	November 1933
All industries.....	76.8	-1.9	+0.8	59.5	-2.5	+7.2	\$18.86	-0.5	+6.5	34.1	-0.6	-0.4	Cents <sup>2</sup> 55.4	(3)	+5.8
<b>Iron and steel and their products, not including machinery</b>	<b>66.2</b>	<b>+3</b>	<b>-2.5</b>	<b>44.2</b>	<b>+3.3</b>	<b>+2.1</b>									
Blast furnaces, steel works, and rolling mills....	65.9	+7	-2.9	41.7	+6.5	-1.2	17.43	+5.7	+1.9	26.7	+4.7	-7.8	65.6	+1.1	+10.8
Bolts, nuts, washers, and rivets.....	72.2	-4	-11.3	44.9	+2.3	-16.2	15.56	+2.7	-5.2	28.1	+1.1	-11.7	55.5	+9	+6.1
Cast-iron pipe.....	49.3	-2.9	+9.6	26.4	-4.1	+10.9	14.22	-1.3	+1.2	28.9	-1.4	+5.6	48.7	(3)	-3.9
Cutlery (not including silver and plated cutlery), and edge tools.....	78.9	+8	+1.2	57.4	+2.8	+6.1	19.86	+2.0	+4.9	36.8	+5	-1.4	53.9	+9	+7.4
Forgings, iron and steel.....	51.0	+3.6	-2	35.8	+13.7	+4.1	20.05	+9.7	+4.9	33.7	+9.1	-2.7	59.7	+7	+8.7
Hardware.....	45.4	+2.8	-21.6	34.2	+7.5	-12.1	18.09	+4.6	+12.0	33.2	+4.1	+8.0	54.3	-4	+2.3
Plumbers' supplies.....	62.7	+1.3	+7.0	37.6	+3.7	+36.2	18.80	+2.3	+27.7	33.8	+1.2	+17.5	55.7	+1.3	+10.5
Steam and hot-water heating apparatus and steam fittings.....	49.3	-6	-12.4	32.0	-1.5	+4.6	20.83	-9	+19.3	35.0	-3	+1.7	59.5	-7	+9.2
Stoves.....	93.9	-1.4	+4	67.0	-0.9	+8.4	19.92	-5.8	+8.2	35.6	-5.8	-3.4	54.9	-7	+8.9
Structural and ornamental metalwork.....	57.9	+1.4	+8.6	41.2	+9	+16.4	19.79	-6	+6.7	33.9	-6	-3	58.7	+2	+7.1
Tin cans and other tinware.....	89.6	-4.5	+6.8	79.4	-3.8	+6.3	18.31	+7	-8	34.9	(3)	-3.1	52.3	+8	+2.3
Tools (not including edge tools, machine tools, files, and saws).....	58.1	+7	-1.5	48.4	+2.2	+7.8	19.15	+1.4	+9.5	34.8	+1.8	-6.0	55.0	-4	+15.0
Wirework.....	121.2	-2	+2.5	94.5	-1.5	+11.3	17.81	-1.3	+8.6	32.2	-1.2	+15.3	55.1	-4	+8.2
<b>Machinery, not including transportation equipment</b>	<b>77.9</b>	<b>(3)</b>	<b>+6.3</b>	<b>57.2</b>	<b>+4</b>	<b>+13.9</b>									
Agricultural implements.....	79.6	+9.1	+41.9	85.7	+15.2	+59.9	22.80	+5.6	+12.5	38.1	+2.1	+1.5	60.2	+3.6	+13.5
Cash registers, adding machines, and calculating machines.....	106.7	+(3)	+13.8	83.3	+5.9	+16.3	25.64	+5.9	+2.3	38.1	+6.1	-3.7	67.4	-3	+5.6
Electrical machinery, apparatus, and supplies.....	65.4	+5	+8.5	50.0	+1.4	-21.1	20.96	+9	+11.9	33.9	+1.5	+3.0	61.3	-3	+10.4
Engines, turbines, tractors, and water wheels.....	73.5	+1.7	+30.3	50.0	+3.3	+49.3	24.33	+1.6	+14.6	37.5	+1.1	+8.6	64.9	+6	+5.6
Foundry and machine-shop products.....	66.0	-7	+5.6	46.6	-2.1	+11.2	19.88	-1.3	+6.1	33.1	-1.5	-2	59.9	(3)	+6.4

See footnotes at end of table.

Table 1.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing Industries, November 1934—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 November 1934 (3-year average 1923-25 = 100)	Percentage change from—		Index November 1934 (3-year average 1923-25 = 100)	Percentage change from—		Average in November 1934	Percentage change from—		Average in November 1934	Percentage change from—		Average in November 1934	Percentage change from—	
		October 1934	November 1933		October 1934	November 1933		October 1934	November 1933		October 1934	November 1933		October 1934	November 1933
<b>Machinery—Continued.</b>													<i>Cents</i>		
Machine tools.....	70.2	+1.5	+21.7	52.6	+4.7	+21.8	22.49	+3.2	+0.4	36.7	+2.8	-4.8	61.3	+0.5	+4.5
Radios and phonographs.....	214.5	-3.7	-13.6	131.5	-4.6	-12.6	19.22	-1.0	+1.4	34.2	-3.4	- .8	56.3	+2.4	+11.7
Textile machinery and parts.....	60.8	( <sup>4</sup> )	-21.4	43.4	-3.2	-32.1	19.33	-3.2	-12.9	32.3	-1.2	-14.9	59.8	-2.3	+1.1
Typewriters and parts.....	106.1	+1.9	+26.6	97.8	+5.8	+52.3	22.98	+3.8	+20.1	40.5	+5.2	+5.1	56.6	-1.6	+14.5
<b>Transportation equipment.</b>	<b>62.0</b>	<b>-3.0</b>	<b>+15.9</b>	<b>48.1</b>	<b>-2.6</b>	<b>+24.6</b>									
Aircraft.....	250.4	-5.5	-25.8	214.5	-8.7	-28.3	24.08	-3.4	-3.4	36.9	-2.4	-3.3	67.5	+1.1	+2.6
Automobiles.....	67.1	-2.4	+18.6	51.3	-1.4	+29.5	22.80	+1.0	+9.4	31.3	+1.6	-4.2	72.6	- .4	+11.8
Cars, electric- and steam-railroad.....	30.2	-11.4	+6.0	27.5	-12.9	+12.7	19.85	-1.7	+6.5	33.2	- .3	- .1	60.1	-1.6	+3.6
Locomotives.....	37.5	-1.3	+67.4	16.6	-2.1	+90.8	21.74	- .8	+13.2	34.4	-2.3	+9.4	63.2	+1.6	+4.2
Shipbuilding.....	69.3	-2.7	+9.1	54.0	-4.0	+15.4	22.32	-1.3	+6.1	30.4	( <sup>3</sup> )	+1.1	74.1	+1.1	+13.8
<b>Railroad repair shops.</b>	<b>51.6</b>	<b>-4.3</b>	<b>-5.8</b>	<b>44.4</b>	<b>-5.1</b>	<b>-3.7</b>									
Electric railroad.....	65.7	+1.8	-1.4	57.4	+ .6	+2.1	26.41	- .2	+3.6	43.6	+1.2	-2.1	59.4	- .7	+5.4
Steam railroad.....	50.5	-5.0	-6.3	43.5	-5.9	-4.4	24.18	-1.0	+2.4	38.4	-1.5	+2.0	62.8	- .2	+1.3
<b>Nonferrous metals and their products.</b>	<b>76.0</b>	<b>+1.2</b>	<b>+4.7</b>	<b>58.8</b>	<b>+2.3</b>	<b>+12.2</b>									
Aluminum manufactures.....	62.5	+1.1	-23.5	53.8	+5.2	-10.5	19.89	+4.1	+17.3	37.0	+5.1	+36.5	53.7	-1.1	+10.4
Brass, bronze, and copper products.....	72.0	+1.4	-3.7	51.3	+3.6	+3.8	19.99	+2.2	+8.2	34.8	+2.7	+ .5	57.5	- .3	+9.9
Clocks and watches and time-recording devices.....	77.6	+3.4	+21.3	64.7	+4.6	+22.5	19.26	+1.2	+1.0	40.6	+2.5	-4.3	47.4	-1.2	+5.3
Jewelry.....	76.9	-3.5	+18.5	63.1	-3.6	+21.8	19.81	- .1	+3.2	38.1	-2.3	-5.0	51.5	+2.4	+6.9
Lighting equipment.....	68.9	+2.7	+10.1	58.0	+3.0	+18.9	19.56	+ .3	+1.1	36.6	+ .5	+1.3	54.3	- .4	+6.4
Silverware and plated ware.....	71.7	+1.6	+1.4	56.7	+5.3	+8.8	21.70	+3.7	+7.2	38.2	+3.8	+2.5	56.2	( <sup>3</sup> )	+6.0
Smelting and refining—copper, lead, and zinc.....	74.5	+1.9	+16.0	46.4	+1.1	+26.8	20.32	- .7	+9.6	37.0	-1.6	+2.1	54.9	+ .7	+8.4
Stamped and enameled ware.....	83.9	+1.2	+5.1	71.9	+2.1	+13.1	18.01	+ .8	+7.4	35.7	+1.1	+ .8	50.3	- .4	+8.4
<b>Lumber and allied products.</b>	<b>48.6</b>	<b>-1.8</b>	<b>-7.1</b>	<b>33.6</b>	<b>-4.5</b>	<b>(<sup>3</sup>)</b>									
Furniture.....	65.2	-2.0	-9.9	44.5	-5.7	-1.1	15.88	-3.9	+9.0	35.2	-4.3	-2.0	44.7	+ .7	+5.0
<b>Lumber:</b>															
Millwork.....	36.3	( <sup>4</sup> )	-2.4	24.0	- .4	+8.6	15.56	- .4	+11.3	34.9	- .6	+5.4	44.6	+ .2	+5.1
Sawmills.....	32.8	-3.3	-5.5	21.3	-5.6	-2.3	14.54	-2.4	+3.4	33.1	-2.1	-3.8	44.5	- .2	+7.6
Turpentine and rosin.....	92.4	+3.4	-8.6	47.9	+6.4	+5.7	12.43	+2.9	+15.9						



<b>Stone, clay, and glass products</b>	<b>52.2</b>	<b>+ .6</b>	<b>+3.8</b>	<b>35.6</b>	<b>+ .3</b>	<b>+11.9</b>												
Brick, tile, and terra cotta	29.9	(4)	+2.4	16.5	-2.4	+21.3	14.37	-2.4	+16.9	32.0	- .6	+3.4	44.8	(3)		+13.3		
Cement	48.2	-4.9	+17.0	29.4	-9.1	+27.8	18.31	-4.4	+9.4	32.4	-3.3	+6.6	56.6	-1.0		+6.0		
Glass	88.5	+2.9	+7.7	72.0	+3.8	+14.3	19.16	+1.1	+6.4	34.1	+1.8	+2.1	56.3	- .7		+5.8		
Marble, granite, slate, and other products	28.6	-19.4	-19.4	17.3	-7.2	-15.6	19.94	-3.4	+4.6	30.2	-3.2	- .5	66.9	- .1		+13.3		
Pottery	69.7	+1.9	-9	47.7	+4.4	+5.8	17.73	+2.5	+5.8	33.9	+ .9	-12.7	51.5	+1.4		+16.6		
<b>Textiles and their products</b>	<b>90.9</b>	<b>+1.5</b>	<b>-2.2</b>	<b>71.1</b>	<b>-4.8</b>	<b>+2.0</b>												
Fabrics	89.7	(3)	-4.1	72.5	- .8	-1.0												
Carpets and rugs	60.1	-5.3	-18.3	43.6	-5.9	-19.0	10.81	- .7	- .9	29.7	+ .5	-10.5	56.5	-1.2		+13.7		
Cotton goods	94.2	- .4	-2.9	75.7	-3.8	- .5	12.77	-3.5	+2.4	33.9	-3.1	- .6	37.8	- .3		+2.4		
Cotton small wares	80.4	-2.2	+1.6	64.7	-6.5	+6.2	15.52	-4.4	+4.6	34.6	-3.1	+3.5	44.7	-1.8		+3.0		
Dyeing and finishing textiles	91.4	-14.4	-14.7	73.2	-11.9	-15.3	18.07	+2.9	- .6	35.8	+5.3	- .8	50.5	-2.3		-1.4		
Hats, fur-felt	73.5	-2.7	-5.0	62.0	+2.5	-12.9	19.39	+5.4	-8.4	27.0	+5.5	+23.2	72.0	+ .4		+14.9		
Knit goods	110.6	+1.0	+1.3	107.9	+ .7	+7.9	16.55	-1.0	+6.7	34.9	- .3	+ .1	47.9	(5)		+7.4		
Silk and rayon goods	75.0	-1.2	-5.4	62.3	-2.1	+3.8	15.25	-1.0	+9.7	34.4	+ .3	+4.9	44.5	- .4		+5.8		
Woolen and worsted goods	75.0	+10.1	-6.8	53.6	+14.4	-4.6	16.25	+3.9	+2.4	33.3	+5.7	+2.2	48.9	-1.6		+ .2		
<b>Wearing apparel</b>	<b>89.6</b>	<b>-5.1</b>	<b>+2.2</b>	<b>64.1</b>	<b>-12.7</b>	<b>+9.4</b>												
Clothing, men's	80.3	-7.4	-1.1	52.1	-16.7	- .6	15.19	-10.0	+ .8	24.8	-10.5	-10.6	60.8	-2.2		+11.9		
Clothing, women's	115.5	-5.1	+11.0	81.3	-14.2	+20.3	17.70	-9.6	+8.5									
Corsets and allied garments	89.3	+1.1	+2.4	80.7	+1.7	+22.5	14.99	+1.6	+20.1	31.6	+1.3	+19.7	46.7	- .2		-3.6		
Men's furnishings	116.9	+9.2	+8.9	87.5	+11.4	+18.1	15.51	+2.0	+8.5	34.7	-3.3	+3.2	41.5	+4.3		+14.8		
Millinery	59.3	-13.8	-12.0	45.1	-17.7	-5.3	17.74	-4.5	+7.7									
Shirts and collars	101.3	-2.1	-5.9	98.3	-1.5	+8.4	13.20	+ .6	+15.7	34.0	+ .9	+15.4	38.6	+ .5		+5.2		
<b>Leather and its manufactures</b>	<b>81.6</b>	<b>-2.2</b>	<b>+3.2</b>	<b>61.0</b>	<b>-5.1</b>	<b>+1.5</b>												
Boots and shoes	79.8	-3.1	+3.2	54.6	-9.7	-1.8	14.51	-6.8	-5.5	29.4	-4.9	-15.0	51.0	+ .4		+9.3		
Leather	89.2	+1.1	+1.6	82.0	+6.6	+10.4	21.27	+5.6	+8.8	36.5	+ .6	-2.7	55.3	+ .5		+8.0		
<b>Food and kindred products</b>	<b>109.0</b>	<b>-8.8</b>	<b>+4.0</b>	<b>96.1</b>	<b>-7.1</b>	<b>+12.7</b>												
Baking	115.4	- .6	+5.8	98.6	+ .3	+9.1	21.43	+ .9	+3.4	39.6	+ .8	-3.5	53.6	(5)		+8.3		
Beverages	151.9	-9.7	+11.4	142.2	-9.5	+18.0	28.05	+ .3	+6.0	36.8	-2.4	-2.5	75.7	+2.9		+8.4		
Butter	76.0	-2.1	-4.4	56.4	-3.4	-7.2	20.07	-1.3	-2.9									
Canning and preserving	88.4	-35.6	+1.5	87.5	-34.9	+13.3	12.53	+1.2	+28.9	31.7	-5.1	+ .6	38.3	+4.4		+5.8		
Confectionery	91.5	-5.3	-4.1	76.5	-9.0	+3.2	15.06	-4.0	+7.5	35.4	-2.7	+7.1	41.9	- .9		+5.1		
Flour	77.7	-3.4	+4.3	63.3	-7.5	+6.7	20.38	-4.2	+2.8	37.5	-4.3	-1.0	54.7	+ .2		+5.1		
Ice cream	63.5	-9.0	+2.8	50.2	-9.0	+5.7	24.95	+ .1	+3.3	42.0	+2.8	+2.3	58.2	+2.3		-2.1		
Slaughtering and meat packing	109.3	-7.0	+10.5	100.7	-5.9	+31.5	23.07	+1.2	+19.0	41.1	+2.2	+5.8	54.7	-1.4		+12.4		
Sugar, beet	189.0	-5.7	-27.9	147.2	+17.2	-23.2	19.64	+24.3	+6.8	49.2	+28.5	-2.5	41.1	-2.0		+6.4		
Sugar refining, cane	93.6	+3.0	+4.9	72.8	-1.6	+2.8	20.02	-4.4	-2.2	37.3	+1.4	- .7	52.8	-5.2		-1.8		
<b>Tobacco manufactures</b>	<b>64.0</b>	<b>-2.0</b>	<b>-3.0</b>	<b>48.8</b>	<b>- .4</b>	<b>-2.6</b>												
Chewing and smoking tobacco and snuff	73.8	+ .4	-4.2	62.2	-2.7	-3.9	12.84	-3.1	+ .3	32.3	-1.8	-4.9	39.9	-1.2		+5.3		
Cigars and cigarettes	62.7	-2.4	-3.1	47.1	(4)	-2.5	13.48	+2.5	+ .5	34.6	-2.0	-7.2	38.8	+4.3		+8.6		
<b>Paper and printing</b>	<b>87.0</b>	<b>+ .6</b>	<b>+3.0</b>	<b>82.8</b>	<b>+ .1</b>	<b>+9.5</b>												
Boxes, paper	90.3	+ .6	+3.2	81.3	-1.6	+13.1	18.24	-2.1	+10.1	36.2	-2.4	+ .8	50.4	+ .4		+9.6		
Paper and pulp	107.7	+1.1	+5.4	82.6	- .7	+14.1	19.32	-1.8	+8.3	36.5	-2.4	- .7	52.9	+ .6		+9.4		
Printing and publishing:																		
Book and job	87.2	+ .2	+3.9	74.4	+ .9	+11.0	26.27	+ .7	+7.0	35.8	+ .6	+2.4	73.5	+1.0		+6.1		
Newspapers and periodicals	99.8	+ .6	+ .2	90.4	+ .5	+4.6	32.98	- .1	+4.6	37.0	- .3	- .1	86.1	+ .2		+5.3		

See footnotes at end of table.

Table 1.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing Industries, November 1934—Continued

Industry	Employment			Pay roll			Per capita weekly earnings			Average hours worked per week			Average hourly earnings		
	Index No- vem- ber 1934 (3-year average 1923-25 =100)	Percentage change from—		Index No- vem- ber 1934 (3-year average 1923-25 =100)	Percentage change from—		Average in No- vem- ber 1934	Percentage change from—		Average in No- vem- ber 1934	Percentage change from—		Average in No- vem- ber 1934	Percentage change from—	
		Octo- ber 1934	No- vem- ber 1933		Octo- ber 1934	No- vem- ber 1933		Octo- ber 1934	No- vem- ber 1933		Octo- ber 1934	No- vem- ber 1933		Octo- ber 1934	No- vem- ber 1933
<b>Chemicals and allied products, and petroleum refining</b>	<b>108.6</b>	<b>-0.7</b>	<b>+0.2</b>	<b>90.9</b>	<b>-0.8</b>	<b>+7.4</b>							<i>Cents</i>		
Other than petroleum refining	107.9	-0.6	-0.2	89.1	-0.6	+7.2									
Chemicals	104.4	-2.0	+4	90.7	-1.9	+6.6	24.15	+0.1	+6.5	38.5	-1.8	-0.6	62.1	+2.1	+5.9
Cottonseed—oil, cake, and meal	90.5	-17.2	-22.7	81.4	-19.4	-19.5	10.19	-2.7	+4.6	43.6	-6.8	+10.9	23.5	+5.9	-4.4
Druggists' preparations	105.5	-1.2	+3.5	96.8	-2.3	+4.3	19.64	-1.1	+8	38.2	-3.3	+1	48.0	+1.1	+2.3
Explosives	91.6	-3	-1.4	71.2	-1.8	+7.1	22.13	-1.5	+9.0	34.4	-1.7	+7	64.4	+3	+2
Fertilizers	91.2	-3	+4	69.7	-5.2	+10.6	11.81	-4.9	+10.2	33.1	-3.5	-3.3	35.6	-1.4	+14.6
Paints and varnishes	99.7	+2	+9.4	78.5	+5	+14.9	21.47	+4	+5.0	37.9	-8	-3.3	56.6	+1.1	+6.9
Rayon and allied products	320.8	+4.5	-3.4	231.6	+6.6	+5.8	19.16	+2.0	+9.2	37.7	+3.6	-3	50.9	-1.2	+10.2
Soap	104.6	-1.0	+7.1	92.5	-2.2	+15.5	21.55	-1.2	+7.5	37.6	-2.8	-6.5	56.2	+9	+14.9
Petroleum refining	111.9	-9	+1.7	96.8	-1.2	+7.8	26.08	-3	+5.8	34.3	-1.7	-5	76.2	+1.6	+10.3
<b>Rubber products</b>	<b>76.6</b>	<b>-1.0</b>	<b>-11.6</b>	<b>58.1</b>	<b>-3</b>	<b>-3</b>									
Rubber boots and shoes	53.9	-1.4	-17.2	49.8	-9	-15.0	18.31	+5	+5.9	34.6	+3	+2.1	52.9	+2	+6.0
Rubber goods, other than boots, shoes, tires, and inner tubes	112.1	-9	-17.1	85.2	-3.3	-11.3	17.57	-2.4	+7.2	34.6	-3.1	-1.3	50.7	+4	+5.9
Rubber tires and inner tubes	68.7	-9	-5.2	50.4	+1.6	+12.5	22.67	+2.5	+18.8	28.7	+1.1	+3.2	80.0	+1.3	+14.2

<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  $\frac{1}{10}$  of 1 percent.

**Table 2.—Revised Employment and Pay-Roll Indexes, Hours and Earnings in Certain Manufacturing Groups and Industries, October 1934**

Industry	Employment			Pay roll			Per capita weekly earnings			Average hours worked per week			Average hourly earnings		
	Index October 1934 (3-year average 1923-25 = 100)	Percentage change from—		Index October 1934 (3-year average 1923-25 = 100)	Percentage change from—		Average in October 1934	Percentage change from—		Average in October 1934	Percentage change from—		Average in October 1934	Percentage change from—	
		Sep-tem-ber 1934	October 1933		Sep-tem-ber 1934	October 1933		Sep-tem-ber 1934	October 1933		Sep-tem-ber 1934	October 1933		Sep-tem-ber 1934	October 1933
All manufacturing.....	78.3	+3.3	+1.6	61.0	+5.2	+2.7	\$18.95	+1.8	+4.4	-----	-----	-----	-----	-----	-----
Iron and steel and their products, not including machinery.....	66.0	(1)	-5.4	42.8	+4.1	-10.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cutlery (not including silver and plated cutlery), and edge tools.....	78.3	+2.1	-3	55.9	+5.1	+3.1	19.63	+2.9	+3.3	36.8	+3.4	-1.9	53.5	-0.2	+8.2
Forgings, iron and steel.....	49.2	+3.6	+4.2	31.5	+8.1	-3	18.32	+4.3	-3.9	30.8	+4.8	-13.1	59.5	-3	+6.9
Hardware.....	44.2	-3.6	-24.1	31.8	+9.2	-18.7	17.36	+13.3	+7.3	31.7	+12.0	-3.1	54.5	+1.1	+11.5
Plumbers' supplies.....	61.9	+3.8	-10.9	36.3	+17.0	-2.9	18.28	+12.7	+9.2	33.3	+12.9	+1.3	54.8	+4	+6.8
Stoves.....	95.3	+4.0	-9	71.9	+9.4	+3.9	20.87	+5.1	+5.3	37.4	+3.9	-6.0	55.3	+7	+9.3
Structural and ornamental metalwork.....	57.1	-2.5	+4.6	40.8	+8	+13.6	19.93	+3.4	+8.5	34.1	+3.0	-9	58.5	+2	+9.4
Wirework.....	121.4	+1.0	-1.9	95.9	+4.3	+2	18.06	+3.3	+1.9	32.7	+3.8	+9.0	54.6	-4	+6.5
Machinery, not including transportation equipment.....	77.9	-1	+6.7	57.0	+2.5	+13.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
Radios and phonographs.....	222.8	+1.3	-6.5	137.8	+8.5	-3.5	19.69	+7.2	+3.4	35.7	+8.5	-1.6	52.4	-1.3	+9.7
Transportation equipment.....	63.9	-13.4	+8.1	49.4	-4.8	+14.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Automobiles.....	68.7	-15.0	+7.0	52.0	-4.2	+12.8	22.38	+12.7	+5.4	31.1	+14.3	-9.8	72.4	-5	+13.8
Railroad repair shops.....	53.9	-3.2	-2.0	46.8	+2.6	-4.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
Electric railroad.....	65.1	-8	-1.1	57.1	+3	+5.4	25.92	+1.2	+6.2	42.9	+5	-1.3	59.1	(1)	+7.3
Nonferrous metals and their products.....	75.1	+2.6	-7	57.5	+6.5	+6.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
Aluminum manufactures.....	61.8	+7.5	-25.7	51.1	+23.6	-17.8	19.05	+15.0	+10.8	38.0	+6.1	+27.4	53.3	+2	+13.0
Lumber and allied products.....	49.5	+4	-10.3	35.2	+3.8	-7.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
Furniture.....	66.5	+2.3	-15.3	47.2	+5.8	-14.2	16.51	+3.5	+1.2	36.7	+3.7	-5.9	44.2	-5	+5.7
Stone, clay, and glass products.....	51.9	-1.9	+6	35.5	+2.3	+5.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pottery.....	68.4	+3.3	-1.7	45.7	+11.2	-3.0	17.39	+8.8	-3	33.9	+7.3	-15.3	50.6	+1.2	+15.4
Textiles and their products.....	92.3	+26.3	-5.5	74.7	+29.9	-3.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fabrics.....	89.7	+44.7	-7.2	73.1	+48.9	-5.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cotton small wares.....	82.2	+15.4	-5.8	69.2	+24.0	-1.7	16.45	+7.4	+4.5	36.2	+12.8	+3.1	45.2	-2.2	+4.9
Woolen and worsted goods.....	68.1	+90.5	-24.9	46.9	+93.1	-29.5	15.59	+1.3	-6.2	31.5	+2.3	-8.9	49.6	-1.0	+3.6
Leather and its manufactures.....	83.4	-2.7	-6.2	64.3	-7.1	-11.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Leather.....	88.2	+1.6	+3.5	76.9	+4.5	-2.4	20.18	+2.9	+1.2	35.9	+1.7	-3.6	55.2	+1.1	+6.8
Food and kindred products.....	119.5	-6.0	+3.1	103.4	-5.4	+13.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
Beverages.....	168.2	-4.8	+11.7	157.2	-5.9	+19.2	28.00	-1.2	+6.6	37.6	-1.3	-7.6	73.8	-3	+16.5
Ice cream.....	69.8	-9.7	+2.6	55.2	-8.7	+4.9	25.16	+1.2	+2.9	43.3	-5.3	-5	57.1	+5.9	+5
Sugar, beet.....	200.4	+160.5	-11.2	125.6	+114.8	-17.9	16.07	-17.5	-7.5	38.2	-8.4	-26.1	42.9	-12.8	+14.9
Chemicals and allied products and petroleum refining.....	109.4	+7	+3	91.6	+1.9	+7.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Other than petroleum refining.....	108.5	+8	-6	89.6	+1.9	+6.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chemicals.....	106.5	-1.4	+3.2	92.4	+4	+7.8	24.03	+1.8	+4.8	39.1	+3.4	-2	61.9	-3.1	+3.6
Druggists' preparations.....	106.8	+3.7	+7.0	99.1	+7.4	+8.9	20.45	+3.5	+1.8	39.2	+3.2	+4.8	50.2	-1.6	+1.3

<sup>1</sup> No change.

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

IN TABLE 3 are presented the estimated number of wage earners and weekly pay rolls in all manufacturing industries combined and in the 14 major groups and 2 subgroups into which these manufacturing industries have been classified, for the years 1919 to 1933, inclusive, and for the first 11 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 3.—Estimated Number of Wage Earners and Weekly Wages in all Manufacturing Industries Combined and in Industry Groups

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
<b>Employment</b>						
1919 average.....	8,983,900	858,600	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	892,400	928,600	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.....	8,484,400	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	<sup>2</sup> 476,700	257,400	200,400
March.....	6,770,100	601,400	674,400	526,300	267,600	212,200
April.....	<sup>2</sup> 6,906,100	623,700	705,100	<sup>2</sup> 560,100	278,700	217,300
May.....	<sup>2</sup> 6,912,600	646,000	713,900	<sup>2</sup> 561,800	287,300	219,900
June.....	<sup>2</sup> 6,799,900	656,400	709,500	<sup>2</sup> 538,700	288,300	214,500
July.....	<sup>2</sup> 6,593,500	603,900	<sup>2</sup> 693,700	<sup>2</sup> 498,100	281,100	206,600
August.....	6,666,200	589,300	<sup>2</sup> 692,800	<sup>2</sup> 471,700	266,100	207,400
September.....	6,351,900	567,000	<sup>2</sup> 684,900	<sup>2</sup> 418,100	268,500	206,900
October.....	<sup>2</sup> 6,569,500	<sup>2</sup> 567,000	<sup>2</sup> 684,000	<sup>2</sup> 361,800	259,900	212,200
November.....	6,435,000	568,700	684,000	<sup>2</sup> 350,500	248,800	214,800

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

<sup>2</sup> Revised.

Table 3.—Estimated Number of Wage Earners and Weekly Wages in all Manufacturing Industries Combined and in Industry Groups—Continued

Year and month	Total manu- facturing	Iron and steel and their products	Machinery, not includ- ing trans- portation equipment	Transporta- tion equipment	Railroad repair shops	Nonferrous metals and their prod- ucts
Weekly pay rolls						
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, 039, 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, 377, 000	6, 185, 000	3, 826, 000
March.....	131, 852, 000	12, 650, 000	13, 199, 000	14, 529, 000	6, 578, 000	4, 163, 000
April.....	136, 962, 000	14, 006, 000	14, 311, 000	15, 906, 000	7, 188, 000	4, 317, 000
May.....	136, 575, 000	15, 115, 000	14, 713, 000	15, 200, 000	7, 297, 000	4, 441, 000
June.....	132, 040, 000	15, 436, 000	14, 571, 000	13, 513, 000	7, 297, 000	4, 243, 000
July.....	123, 011, 000	11, 737, 000	13, 838, 000	11, 361, 000	6, 931, 000	3, 828, 000
August.....	126, 603, 000	11, 219, 000	13, 744, 000	12, 119, 000	6, 578, 000	3, 899, 000
September.....	118, 089, 000	10, 134, 000	13, 152, 000	9, 003, 000	6, 185, 000	3, 958, 000
October.....	124, 138, 000	10, 554, 000	13, 483, 000	8, 555, 000	6, 347, 000	4, 214, 000
November.....	121, 085, 000	10, 899, 000	13, 531, 000	8, 332, 000	6, 022, 000	4, 309, 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	Group	
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	988, 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, 000
April.....	453, 700	193, 700	1, 070, 200	474, 100	1, 614, 700	298, 600
May.....	468, 400	202, 100	1, 049, 200	449, 000	1, 565, 900	295, 700
June.....	459, 200	200, 000	993, 900	423, 400	1, 481, 100	283, 700
July.....	448, 200	189, 900	961, 900	378, 300	1, 399, 700	289, 200
August.....	450, 000	186, 000	946, 400	427, 200	1, 437, 100	294, 700
September.....	452, 800	185, 300	985, 500	452, 800	1, 191, 100	277, 200
October.....	454, 600	181, 800	991, 700	447, 600	1, 503, 900	269, 800
November.....	446, 300	182, 900	991, 700	424, 800	1, 481, 100	264, 000

<sup>1</sup> Comparable data not available.<sup>2</sup> Revised.

Table 3.—Estimated Number of Wage Earners and Weekly Wages in All Manufacturing Industries Combined and in Industry Groups—Continued

Year and month	Lumber and allied products	Stone, clay, and glass products	Textiles and their products			Leather and its manu- factures
			Fabrics	Wearing apparel	Group	
Weekly pay rolls						
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.....	18,228,000	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
1927.....	17,916,000	8,929,000	21,135,000	11,123,000	33,817,000	7,009,000
1928.....	17,454,000	8,541,000	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	5,512,000
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	5,363,000
August.....	6,205,000	3,098,000	13,178,000	7,297,000	21,571,000	5,498,000
September.....	6,279,000	3,081,000	10,901,000	7,328,000	18,214,000	4,834,000
October.....	6,520,000	3,152,000	14,889,000	7,587,000	23,662,000	4,492,000
November.....	6,224,000	3,161,000	14,767,000	6,625,000	22,522,000	4,261,000

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.....	694,500	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
September.....	849,700	89,500	506,100	361,800	105,300
October.....	798,900	90,400	512,000	364,300	103,900
November.....	728,800	88,600	515,200	361,800	102,900

1 Comparable data not available.

2 Revised.

Table 3.—Estimated Number of Wage Earners and Weekly Wages in All Manufacturing Industries Combined and in Industry Groups—Continued

Year and month	Foods and kindred products	Tobacco manufactures	Paper and printing	Chemicals and allied products	Rubber products
	Weekly pay rolls				
1919 average.....	\$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, 395, 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, 029, 000	11, 847, 000	7, 683, 000	2, 546, 000
May.....	13, 296, 000	1, 030, 000	11, 981, 000	7, 332, 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
September.....	16, 661, 000	1, 119, 000	11, 937, 000	7, 479, 000	1, 946, 000
October.....	<sup>2</sup> 15, 752, 000	1, 090, 000	<sup>2</sup> 12, 293, 000	<sup>2</sup> 7, 621, 000	<sup>2</sup> 2, 022, 000
November.....	14, 651, 000	1, 086, 000	12, 308, 000	7, 565, 000	2, 015, 000

<sup>1</sup> Comparable data not available.<sup>2</sup> Revised.

### 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 November 1934, inclusive, together with average indexes for each of the years from 1919 to 1933, inclusive, and for the 11-month period, January to November 1934, inclusive, based on the 3-year average, 1923-25 as 100, are shown in table 4. A chart of these indexes also follows.

Table 4.—General Indexes of Employment and Pay Rolls in Manufacturing Industries, January 1919 to November 1934

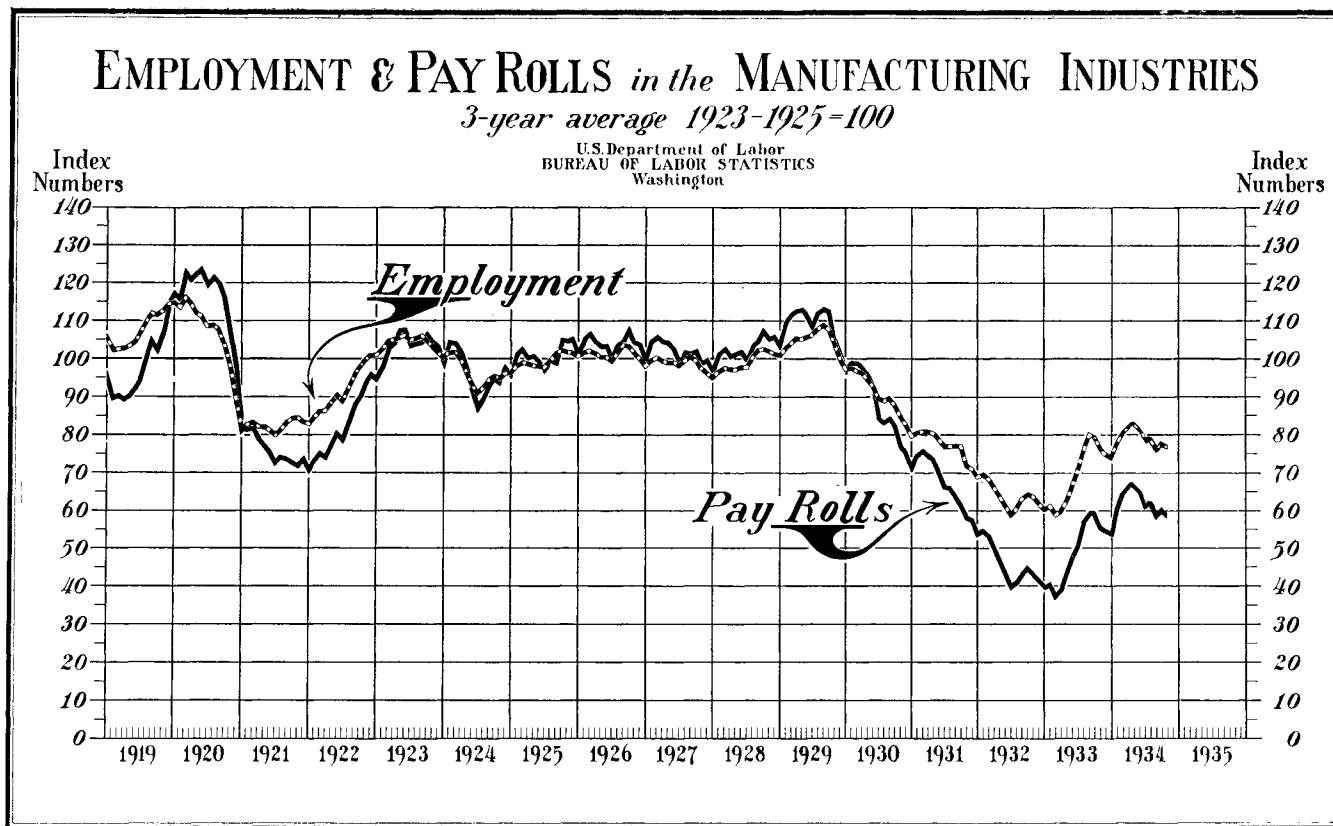
[3-year average, 1923-25=100]

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	82.4
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	82.5
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	81.1
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	78.7
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	75.8
October.....	111.3	103.7	84.1	97.0	104.5	95.3	102.2	103.1	99.6	107.7	87.7	74.4	64.4	79.6	78.3	78.3
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	76.8
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	-----
<b>Average....</b>	<b>107.2</b>	<b>108.2</b>	<b>82.3</b>	<b>90.6</b>	<b>104.1</b>	<b>96.5</b>	<b>99.4</b>	<b>101.2</b>	<b>98.9</b>	<b>95.9</b>	<b>104.8</b>	<b>91.5</b>	<b>77.4</b>	<b>64.1</b>	<b>69.0</b>	<b>78.8</b>
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	64.9
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	60.5
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	62.2
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	42.0	59.1	58.0
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	61.0
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	59.5
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	-----
<b>Average....</b>	<b>97.4</b>	<b>117.1</b>	<b>76.2</b>	<b>81.3</b>	<b>103.3</b>	<b>96.1</b>	<b>100.6</b>	<b>103.8</b>	<b>101.8</b>	<b>102.4</b>	<b>109.1</b>	<b>88.7</b>	<b>67.5</b>	<b>46.1</b>	<b>48.5</b>	<b>61.8</b>

<sup>1</sup> Revised.<sup>2</sup> Average for 11 months.

For comparative purposes the Bureau has computed the group and general index numbers of employment and pay rolls for November 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 in the revised series of indexes. These indexes on the 1926 base are presented in table 5.





**Table 5.—Indexes of Employment and Pay Rolls in 14 Groups, 2 Subgroups, and All Manufacturing Combined, November 1934**

[Average for 1926=100]

Group	Employment index	Pay-roll index
Total manufacturing.....	1 71.8	1 53.9
Iron and steel and their products, not including machinery.....	69.5	43.9
Machinery, not including transportation equipment.....	68.7	50.2
Transportation equipment.....	1 59.5	1 45.9
Railroad repair shops.....	47.9	40.6
Nonferrous metals and their products.....	73.2	55.7
Lumber and allied products.....	46.0	29.8
Stone, clay, and glass products.....	52.2	34.6
Textiles and their products.....	81.2	61.8
Fabrics.....	86.5	69.0
Wearing apparel.....	68.7	47.6
Leather and its manufactures.....	77.2	52.6
Food and kindred products.....	105.2	90.9
Tobacco manufactures.....	71.6	56.3
Paper and printing.....	93.0	76.8
Chemicals and allied products and petroleum refining.....	98.6	82.6
Rubber products.....	77.6	58.7

<sup>1</sup> October 1934 indexes revised to include data supplied by a number of firms for which information was not originally available:

Group	Employment index	Pay-roll index
Total manufacturing.....	72.8	54.8
Transportation equipment.....	61.2	47.0

### Employment in Nonmanufacturing Industries in November 1934

FIVE of the 17 nonmanufacturing industries surveyed monthly by the United States Bureau of Labor Statistics reported gains in employment from October to November, and an equal number of industries, although not in each case identical, showed increased pay rolls. Data for the building-construction industry are not presented here, but are shown in detail under the section "Building construction."

The changes in employment in November were largely of seasonal character. The increases of 3.8 percent in anthracite mining and 0.6 percent in bituminous-coal mining reflected increased production during the November pay period, while the increase of 1.3 percent in retail trade was due largely to seasonal expansion in the general merchandising group of retail establishments. This group, composed of department, variety, general-merchandise, and mail-order establishments, reported an increase of 6.4 percent in employment from October to November. Employment decreased 0.1 percent over the month interval in the remaining 56,766 retail trade establishments for which data were available. The remaining two industries reporting increased employment from October to November were wholesale trade and banks, in which were shown gains of 0.9 percent and 0.1 percent, respectively.

The declines in employment of 5.6 percent in the dyeing and cleaning and 4.3 percent in the quarrying and nonmetallic mining industries reflect seasonal recessions, as does also the loss of 1.7 percent in the number of laundry workers. The decrease of 1.2 percent in employment in brokerage firms continued the decline in this industry, which has been unbroken since September of last year except for a small increase in February 1934.

The remaining decreases in employment ranged from 0.9 percent in the crude petroleum producing industry to 0.3 percent in the metalliferous mining and in the real estate industries.

The largest increase in pay rolls, 6.1 percent, occurred in the anthracite mining industry, and is the first November pay-roll increase recorded in this industry in the 6 years the Bureau has been assembling data for anthracite mining. Bituminous-coal mining also recorded a pay-roll increase (1.3 percent).

In table 6 are shown indexes of employment and pay rolls, per capita weekly earnings, average hours worked per week, and average hourly earnings in November 1934 for 13 of the nonmanufacturing industries surveyed monthly by the Bureau of Labor Statistics, together with percentage changes from October 1934 and November 1933. Per capita weekly earnings in banks, brokerage, insurance, and real estate, together with percentage changes from October 1934 and November 1933 in these per capita earnings and in employment and pay rolls are also presented. Indexes of employment and pay rolls for these industries are not available.

Table 6.—Employment, Pay Rolls, Hours, and Earnings in Nonmanufacturing Industries, November 1934

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 Novem- ber 1934 (average 1929 =100)	Percentage change from—		Index Novem- ber 1934 (average 1929 =100)	Percentage change from—		Ave- rage in Novem- ber 1934	Percentage change from—		Ave- rage in Novem- ber 1934	Percentage change from—		Ave- rage in Novem- ber 1934	Percentage change from—			
		October 1934	Novem- ber 1933		October 1934	Novem- ber 1933		October 1934	Novem- ber 1933		October 1934	Novem- ber 1933		October 1934	Novem- ber 1933	October 1934	Novem- ber 1933
Coal mining:																	
Anthracite.....	60.7	+3.8	-0.5	51.2	+6.1	+7.1	\$24.57	+2.2	+7.5	29.4	+1.7	+1.0	<i>Cents</i> 82.8	+0.5	+3.9		
Bituminous.....	79.8	+6	+6.7	58.3	+1.3	+15.0	19.14	+7	+7.8	26.7	+8	-7.6	71.5	-3	+20.8		
Metalliferous mining.....	43.2	-3	+6.4	28.5	+9	+11.3	21.42	+1.2	+4.6	36.0	+6	-4.3	58.9	+1.2	+10.1		
Quarrying and nonmetallic mining.....	49.5	-4.3	-3.1	29.4	-8.3	+3.9	15.43	-4.2	+7.2	32.3	-4.2	+1.0	47.8	-6	+6.4		
Crude-petroleum producing.....	78.8	-9	+9.1	59.0	-3.0	+17.3	27.72	-2.0	+7.5	34.9	-1.7	+2.0	78.4	+6	+5.1		
Public utilities:																	
Telephone and telegraph.....	69.9	-5	+1.5	72.2	-3.5	+6.6	27.33	-3.1	+5.1	38.2	-8	+2.9	73.5	-1.7	+4.6		
Electric light and power and manufactured gas.....	85.5	-4	+3.5	79.6	-1.2	+6.8	29.50	-8	+3.2	38.8	-1.3	+3	76.2	+7	+5.5		
Electric-railroad and motor-bus operation and maintenance.....	71.8	-6	+1.1	61.8	-1.8	+4.0	27.55	-1.3	+2.9	44.8	-9	-1.5	60.6	-8	+8.4		
Trade:																	
Wholesale.....	<sup>2</sup> 85.1	+9	+4.3	<sup>2</sup> 64.2	-5	+6.1	26.05	-1.4	+1.8	40.7	-5	+5	63.6	-3	+1.3		
Retail.....	<sup>2</sup> 83.7	+1.3	-2	<sup>2</sup> 61.8	-2	+7	19.94	-2.1	+8	40.3	-1.0	(3)	51.9	-1.0	+3.9		
Hotels (cash payments only) <sup>4</sup> .....	83.7	-6	+10.4	64.9	-6	+17.6	13.40	(3)	+6.5	47.1	-2	-6.1	27.9	+7	+12.2		
Laundries.....	80.3	-1.7	+2.4	63.7	-1.7	+4.9	14.81	+1	+2.5	39.2	(3)	+2.9	37.1	(3)	+2		
Dyeing and cleaning.....	75.8	-5.6	-4	53.9	-8.8	+2.7	17.32	-3.4	+3.0	39.6	-2.0	-2.1	43.6	-1.4	+5.9		
Banks.....	(5)	+1	-1	(5)	+4	+1.2	31.43	+4	+1.3	(5)	(5)	(3)	(5)	(3)	(5)		
Brokerage.....	(5)	-1.2	-26.4	(5)	-2	-28.8	34.20	+1.0	-3.2	(5)	(5)	(3)	(5)	(3)	(5)		
Insurance.....	(5)	-4	+1.3	(5)	-1.2	+4.2	35.06	-9	+2.9	(5)	(5)	(3)	(5)	(3)	(5)		
Real estate.....	(5)	-3	+2.7	(5)	+4	+3.7	21.58	+7	+9	(5)	(5)	(3)	(5)	(3)	(5)		

<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> Revised. See table 3 and accompanying text.

<sup>3</sup> No change.

<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 11 non-manufacturing industries are presented in table 7. These index numbers show the variation in employment and pay rolls in these industries by months from January 1931 through November 1934.

A revision of the indexes for the wholesale- and retail-trade industries for the months January 1929 to November 1934, inclusive, has been made. The revised indexes appear in table 8.

Table 7.—Indexes of Employment and Pay Rolls for Nonmanufacturing Industries, January 1931 to November 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	58.6	33.9	26.6	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	53.0	39.5	57.5	66.7	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	53.6	63.2	77.0	50.4	24.4	33.6	49.7
August.....	67.3	49.2	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	56.9	64.9	47.0	60.7	47.0	80.4	62.4	71.8	78.2	53.6	30.2	44.1	51.4
October.....	86.8	63.9	56.9	58.5	91.1	66.7	61.6	48.3	81.3	67.0	68.0	79.3	56.2	37.8	44.1	57.6
November.....	83.5	62.7	61.0	60.7	79.5	51.0	47.8	51.2	81.1	69.4	74.8	79.8	54.6	38.0	50.7	58.3
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	59.4	75.4	53.7	45.8	56.3	83.2	67.4	67.9	77.0	57.5	35.6	37.8	53.9
	Metalliferous mining								Quarrying and nonmetallic mining							
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	48.0	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	42.3	40.0	17.0	23.9	25.9	66.6	52.4	52.6	53.3	51.2	30.5	29.3	32.4
October.....	53.8	30.5	40.7	43.3	37.4	18.0	25.9	28.2	64.5	52.4	53.2	51.8	48.7	30.1	31.2	32.1
November.....	52.8	31.9	40.6	43.2	35.1	18.7	25.6	28.5	59.3	49.4	51.1	49.5	43.3	27.1	23.3	29.4
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	41.3	44.8	21.6	20.6	26.5	67.4	49.0	44.9	49.5	53.4	29.1	24.7	30.1
	Crude-petroleum producing								Telephone and telegraph							
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	70.0	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	88.2	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	95.0	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.....	65.0	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	59.2	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	78.1	68.1	71.0	92.3	79.1	66.1	74.0
September.....	61.2	56.2	66.2	81.8	55.2	41.9	44.4	59.7	85.0	77.4	68.3	70.9	92.1	75.9	64.6	72.2
October.....	60.4	56.8	70.6	79.5	54.4	42.5	50.1	60.8	84.1	76.2	68.7	70.3	91.6	75.7	67.0	74.9
November.....	57.6	56.5	72.2	78.8	52.0	42.4	50.3	59.0	83.5	75.5	68.9	69.9	89.7	74.3	67.7	72.2
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	77.6	61.7	44.1	44.1	56.7	86.6	79.1	70.4	70.4	93.7	81.1	68.2	71.3

<sup>1</sup> Average for 11 months.

Table 7.—Indexes of Employment and Pay Rolls for Nonmanufacturing Industries, January 1931 to November 1934—Continued

[12-month average, 1929=100]

Month	Electric light and power and manu- factured gas								Electric-railroad and motor-bus operation and maintenance <sup>2</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	85.8	94.3	74.7	71.8	79.3	84.0	73.5	69.7	72.5	81.2	62.5	57.8	62.4
October.....	92.7	79.9	82.2	85.8	93.2	74.4	76.2	80.6	82.7	72.3	70.6	72.2	79.0	61.5	59.8	63.0
November.....	91.3	79.1	82.6	85.5	93.3	73.2	74.5	79.6	81.5	71.8	71.0	71.8	79.7	61.7	59.4	61.8
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	83.8	96.7	79.8	72.0	77.9	84.7	75.5	70.0	72.1	83.4	68.0	58.9	62.2
Laundries								Dyeing and cleaning								
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	76.5	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	82.9	88.0	65.8	63.5	65.9	88.0	76.9	81.9	80.0	78.3	57.9	57.1	59.0
October.....	91.8	80.7	81.3	81.7	85.6	64.1	62.5	64.8	87.0	76.0	81.6	80.3	77.2	55.8	57.4	59.1
November.....	89.8	79.4	78.4	80.3	82.6	61.9	60.7	63.7	83.2	72.0	76.1	75.8	70.8	49.6	52.5	53.9
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	65.0	85.6	75.2	74.3	77.5	76.1	57.3	49.5	56.6
Hotels																
January.....	95.0	83.2	73.8	81.5	91.0	73.9	55.7	60.8	-----	-----	-----	-----	-----	-----	-----	-----
February.....	96.8	84.3	73.8	84.6	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	87.4	67.0	51.8	65.9	-----	-----	-----	-----	-----	-----	-----	-----
June.....	91.6	78.0	73.6	86.7	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	84.4	81.9	59.1	55.6	64.3	-----	-----	-----	-----	-----	-----	-----	-----
October.....	87.4	75.4	77.0	84.2	79.7	58.6	56.2	65.3	-----	-----	-----	-----	-----	-----	-----	-----
November.....	84.9	74.3	75.8	83.7	77.1	57.5	55.2	64.9	-----	-----	-----	-----	-----	-----	-----	-----
December.....	83.1	73.2	77.6	-----	75.4	56.6	57.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
Average.....	91.7	79.0	74.9	85.1	85.4	64.5	54.4	65.1	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Average for 11 months.<sup>2</sup> Not including electric-railroad car building and repairing; see transportation equipment and railroad repair-shop groups, manufacturing industries, table 1.

## Revised Indexes of Employment and Pay Rolls in Wholesale and Retail Trade

The Bureau of Labor Statistics has revised its index numbers of employment and pay rolls in retail and wholesale trade to conform to the trend shown in the annual averages of these industries as published by Bureau of Census for 1929 and 1933. This revision is temporary in character and was effected in order immediately to present indexes

which indicate with greater accuracy the trend in total employment and pay rolls in retail and wholesale trade.

Through a C. W. A. project in the early part of 1934 the number of retail and wholesale establishments reporting to the Bureau was greatly increased, equalizing to some extent the proportionate number of establishments covered in each line of trade. The survey in November 1934 covered 61,578 retail-trade establishments, employing 948,497 persons. In the general merchandising group 4,812 establishments employing 404,877 workers were surveyed and in retail trade other than general merchandising, a total of 56,766 establishments employing 543,620 workers supplied data for November. The wholesale-trade survey covered 16,872 establishments, which employed 300,297 people.

The Bureau's previous series of indexes for retail trade were unweighted. Therefore, the retail-trade totals were greatly influenced by the changes in employment and pay rolls in department, variety, and general merchandising stores, which are subject to marked seasonal fluctuations, and which exercised a predominating influence on the total not in proportion to their importance in the industry. The expansion of the survey to include numerous establishments in other lines of retail trade reduced the effects of the general merchandising group in the total and greatly affected the percentage changes based on the unweighted group of establishments. In order to eliminate this discrepancy, the retail-trade indexes have been entirely reconstructed by segregating the reporting establishments by line of trade and then combining the totals into two groups, general merchandising, which includes department, variety, general merchandising, and mail-order establishments, and retail trade other than general merchandising. From these data three series of indexes have been constructed for the retail-trade industry.

Index numbers of employment and pay rolls for all retail trade combined have been computed, weighted according to the respective importance of the two group subdivisions, and are presented in table 3, together with indexes for the general-merchandising and retail trade other-than-general-merchandising groups and wholesale trade. The base period for these indexes is the average of the 12 monthly indexes for the year 1929.

The indexes of employment and pay rolls for the two subgroups of retail trade and for wholesale trade are computed by a link-relative method. The percentage changes over the month interval in employment and pay rolls were computed from reports received from identical establishments in the current and the preceding month and these percentage changes are added to or subtracted from 100. The index of the preceding month is then multiplied by this figure to secure the

current-month index. For instance, if identical establishments in the general merchandising group show an increase of 2 percent in employment over the month interval, the index of the preceding month is multiplied by 102 percent to secure the index for the current month.

The chain indexes thus computed for the two groups of retail trade and for wholesale trade were then adjusted to conform to the level of employment or pay rolls as indicated by census reports. The method used in adjusting the indexes was similar, although not identical, to the method used in adjusting the Bureau's indexes of factory employment and pay rolls. An "additive" or arithmetical method was used and the statistical bias which occurred between 1929 and 1933 was eliminated by the adjustment of the monthly indexes from January 1930 to April 1933 rather than by the extension of the adjustment for bias through all of the month of the final census year. A ratio method was considered, but in view of the slight difference in the results and the additional work necessary to make such computations the arithmetical adjustment was decided upon.

In obtaining the indexes for total retail trade the adjusted indexes of the general merchandising group and retail trade, other than general merchandising were multiplied by their respective group weights which represented the total number of employees or the average weekly earnings in the group in 1929. The sum of the aggregates thus obtained was divided by the total of the group weights to compute the index for total retail trade.

The weighting factors for retail and wholesale trade are the average number of employees (full time and part time) and the yearly pay rolls reduced to a weekly basis as shown in the census of retail and wholesale distribution in 1929, the base year, or the year representing 100 percent.

The general merchandising weighting factor represents the total number of employees in the general merchandising group of stores. The weighting factor for retail trade other than general merchandising, includes all other retail trade with the exception of restaurants and second-hand stores. The Bureau has no data for second-hand stores and data for restaurants have been added too recently to be included in the present series of indexes.

The Bureau is now engaged in the construction of weighted indexes for retail and wholesale trade in which each of the major lines of trade will be weighted according to its importance in the total. The computation of these weighted indexes will require a considerable length of time, and it will be a number of months before these more detailed weighted indexes of wholesale and retail trade will be available. In the meantime this temporary revision has been made in order to eliminate the bias which existed in the former series between 1929 and 1933.



Table 8.—Revised Indexes of Employment and Pay Rolls in Retail Trade, and Wholesale Trade, January 1929 to November 1934

[12-month average, 1929=100]

Total retail trade												
Month	Employment						Pay rolls					
	1929	1930	1931	1932	1933	1934	1929	1930	1931	1932	1933	1934
January.....	97.2	100.2	92.3	80.3	72.1	79.8	95.9	99.8	88.1	71.9	54.7	59.0
February.....	95.4	97.3	89.3	78.3	70.4	79.6	95.1	97.7	86.4	69.1	51.8	58.8
March.....	97.4	96.6	89.2	78.6	68.9	81.5	97.3	97.0	86.8	68.5	49.0	59.8
April.....	97.6	98.1	91.3	78.7	73.3	82.5	97.2	97.9	87.5	67.7	52.0	61.2
May.....	98.6	98.8	90.8	77.2	72.1	82.9	98.2	99.4	86.8	65.5	51.3	61.5
June.....	99.3	96.9	90.7	73.3	73.2	82.6	99.8	97.9	86.7	62.7	52.2	61.4
July.....	97.4	93.0	84.2	73.1	71.0	79.0	98.8	92.8	81.3	59.2	51.0	60.1
August.....	98.7	91.5	81.2	71.8	75.4	77.8	99.2	89.4	77.9	56.9	54.9	58.4
September.....	100.6	94.3	83.3	74.2	80.6	81.7	101.7	91.5	78.3	58.3	58.7	60.6
October.....	102.0	95.6	85.2	76.3	83.3	82.6	103.2	92.6	78.9	59.7	61.6	61.9
November.....	104.2	96.8	84.8	75.4	83.9	83.7	103.3	92.4	78.3	58.6	61.4	61.8
December.....	111.9	102.5	90.6	80.9	89.1	-----	109.7	95.4	80.4	60.4	64.0	-----
Average.....	100.0	96.8	87.7	76.8	76.1	181.2	100.0	95.3	83.1	63.2	55.2	160.4

Retail trade—General merchandising												
January.....	98.5	95.9	92.1	84.8	76.4	86.6	100.0	95.8	90.3	78.1	61.4	71.1
February.....	94.5	92.2	89.3	81.2	73.0	85.0	97.2	92.7	87.1	73.1	57.1	68.9
March.....	96.1	91.9	90.8	82.6	70.7	90.1	98.5	92.3	88.0	73.1	53.4	71.5
April.....	95.5	95.9	93.0	82.7	80.7	91.0	94.8	94.9	88.8	72.3	60.8	74.0
May.....	97.1	94.4	92.8	82.1	78.5	92.0	95.8	93.8	88.5	70.5	59.3	74.5
June.....	96.5	91.5	91.4	80.3	79.9	90.6	96.7	93.4	87.9	67.6	60.6	73.9
July.....	92.2	86.0	84.7	74.1	74.7	83.0	96.1	87.7	82.3	61.3	56.4	69.5
August.....	91.5	82.5	81.6	71.5	78.4	81.2	92.9	83.7	78.7	58.5	62.4	66.9
September.....	96.6	89.6	88.7	78.7	98.0	91.5	97.4	89.0	83.9	64.3	71.8	74.0
October.....	101.7	94.0	92.1	83.7	93.6	94.2	101.7	92.6	85.3	67.7	75.3	77.3
November.....	108.0	97.4	94.1	84.6	97.0	100.2	105.0	94.6	86.9	67.9	76.1	79.8
December.....	131.7	118.1	116.2	104.7	118.9	-----	123.9	108.5	100.7	79.2	90.1	-----
Average.....	100.0	94.1	92.2	82.6	84.2	189.6	100.0	93.3	87.4	69.5	65.4	172.9

Retail trade—Other than general merchandising												
January.....	96.9	101.3	92.4	79.1	71.0	78.0	95.1	100.6	87.7	70.6	53.3	56.5
February.....	95.6	98.7	89.3	77.6	69.7	78.2	94.7	98.7	86.2	68.3	50.7	56.7
March.....	97.7	97.8	88.8	77.5	68.4	79.3	97.1	98.0	86.5	67.5	48.1	57.4
April.....	98.1	98.7	90.9	77.6	71.3	80.3	97.7	98.5	87.2	66.7	50.2	58.5
May.....	99.0	100.0	90.3	75.9	70.4	80.5	98.7	100.6	86.5	64.5	49.7	58.8
June.....	100.0	98.3	90.5	75.2	71.5	80.5	100.5	98.8	86.4	61.7	50.5	58.8
July.....	98.7	94.8	84.1	72.8	70.0	77.9	99.4	93.8	81.1	58.8	49.9	58.2
August.....	100.6	93.8	81.1	71.9	74.6	76.9	100.5	90.6	77.7	56.6	53.4	56.6
September.....	101.6	95.5	81.9	73.0	78.4	79.1	102.6	92.0	77.2	57.1	56.0	57.8
October.....	102.1	96.0	83.4	74.3	80.6	79.5	103.5	92.6	77.6	58.1	58.8	58.7
November.....	103.2	96.7	82.3	73.0	80.4	79.4	103.0	92.0	76.5	56.7	58.3	58.1
December.....	106.7	98.4	83.9	74.6	81.3	-----	106.8	92.7	76.2	56.5	58.6	-----
Average.....	100.0	97.5	86.7	75.2	74.0	179.1	100.0	95.7	82.2	61.9	53.1	157.8

Wholesale trade												
January.....	97.7	100.0	88.9	80.7	73.6	80.6	96.7	99.9	86.3	71.8	58.3	60.3
February.....	96.9	98.4	87.6	79.7	72.4	81.2	96.4	98.1	87.1	70.1	55.1	61.0
March.....	97.3	97.6	86.7	78.6	71.3	81.8	98.5	99.4	87.7	68.8	53.5	62.0
April.....	97.9	97.1	86.7	77.6	71.5	82.1	97.8	97.5	83.7	66.3	52.4	63.1
May.....	99.0	96.6	86.3	76.6	72.2	82.8	99.0	96.9	83.2	67.1	53.8	62.6
June.....	99.2	96.2	86.3	75.6	73.9	82.3	98.6	98.1	82.5	63.5	53.7	62.6
July.....	100.4	95.7	85.9	75.2	75.1	82.2	100.5	95.4	81.6	61.9	55.5	63.8
August.....	101.3	94.6	85.6	74.9	77.9	82.5	100.0	92.9	80.3	60.3	57.2	62.7
September.....	101.9	94.4	85.1	75.6	80.3	83.5	103.3	92.8	79.5	60.1	58.7	63.6
October.....	102.9	93.7	84.2	76.2	81.7	84.3	102.7	92.0	77.9	60.8	62.4	64.5
November.....	102.9	92.1	83.1	76.0	81.6	85.1	101.9	90.0	77.6	60.1	60.5	64.2
December.....	102.6	91.5	82.6	75.4	81.5	-----	104.7	90.2	75.6	59.3	60.9	-----
Average.....	100.0	95.7	85.8	76.8	76.1	182.6	100.0	95.3	81.9	64.2	56.8	162.8

1 Average for 11 months.

106037—35—4

*Employment in Building Construction in November 1934*

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

	<i>Percent</i>
Total employment.....	-2.3
Total pay rolls.....	-3.0
Total man-hours worked.....	-5.8
Average weekly earnings.....	-.7
Average hours per week per man.....	-2.7
Average hourly earnings.....	+2.4

Table 9 is based on returns made by 10,772 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 November the weekly pay roll for 85,761 workers amounted to \$2,023,807, as compared with \$2,086,487 earned by 87,780 workers employed by the identical firms in October.

In November the average weekly earnings were \$23.60 as compared with \$23.77 for October. 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 10,338 firms—96 percent of the 10,772 cooperating firms—gave the man-hours worked by the employees, namely, 2,310,286 in November as compared with 2,451,959 in October.

The average hours per week per man—28.9 in November and 29.7 in October—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—81.9 cents in November and 80 in October—were computed by dividing the pay roll of those firms which reported man-hours, by the number of man-hours.

**Table 9.—Employment, Pay Rolls, Hours, and Earnings in the Building-Construction Industry, November 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 November 1934	Percentage change from October 1934	Amount November 1934	Percentage change from October 1934	Amount November 1934	Percentage change from October 1934	Number November 1934	Percentage change from October 1934	November 1934	Percentage change from October 1934
All localities.....	10,772	85,761	-2.3	\$2,023,807	-3.0	\$23.60	-0.7	28.9	-2.7	<i>Cents</i> 81.9	+2.4
Alabama: Birmingham.....	87	547	-10.5	9,822	-8.4	17.96	+2.3	28.7	+1.1	62.8	+1.1
California:											
Los Angeles.....	20	1,096	-2.6	24,064	-6.3	21.96	-3.8	34.3	+5.9	63.9	-9.2
San Francisco-Oakland.....	28	715	-12.8	17,064	-14.8	23.87	-2.2	28.1	-7	84.9	-1.6
Other localities.....	20	195	+8.3	4,039	+6	20.71	-7.1	26.9	-4.3	77.0	-2.9
The State.....	68	2,006	-5.6	45,167	-9.1	22.52	-3.8	31.4	+3.0	71.7	-6.6
Colorado: Denver.....	203	542	-12.3	11,972	-15.1	22.09	-3.2	24.5	-12.2	89.4	+9.0
Connecticut:											
Bridgeport.....	109	612	-3	15,072	-1.6	24.63	-1.2	31.2	-3.1	79.5	+1.9
Hartford.....	257	1,114	-3.0	25,489	-7.9	22.88	-5.0	32.8	-3.0	69.4	-2.1
New Haven.....	148	884	(?)	22,765	-9	25.75	-9	33.8	-3.2	76.9	+2.8
The State.....	514	2,610	-1.4	63,326	-4.0	24.26	-2.6	32.8	-3.0	74.2	+5
Delaware: Wilmington.....	95	917	-14.5	21,389	-2.4	23.32	+14.2	33.1	+4.4	70.5	+9.6
District of Columbia.....	378	4,557	-4.8	126,844	-7.3	27.83	-2.7	31.7	-3.4	88.0	+1.0
Florida:											
Jacksonville.....	44	242	+7.1	4,001	+1.1	16.53	-5.6	28.0	-6.4	59.1	+9
Miami.....	68	1,267	+8	27,136	+2.9	21.42	+2.1	30.6	+2.0	70.1	+3
The State.....	112	1,509	+1.8	31,137	+2.7	20.63	+9	30.2	+7	68.4	+3
Georgia: Atlanta.....	129	840	+1	14,256	+9	16.97	+8	27.0	-4	61.5	-3
Illinois:											
Chicago.....	131	1,908	+5.2	55,747	+5.8	29.22	+6	(?)	(?)	(?)	(?)
Other localities.....	86	1,425	+3.0	27,157	-10.3	19.06	-12.9	(?)	(?)	(?)	(?)
The State.....	217	3,333	+4.5	82,904	(?)	24.87	-4.2	(?)	(?)	(?)	(?)
Indiana:											
Evansville.....	64	551	-6.0	11,515	-8.1	20.90	-2.2	27.8	-9.2	75.2	+7.6
Fort Wayne.....	78	274	-37.3	5,924	-34.0	21.62	+5.3	32.3	-3.0	67.0	+8.8
Indianapolis.....	148	1,160	-5.1	28,271	-7.0	24.37	-2.0	31.6	+3	77.2	-2.4
South Bend.....	36	192	-2.5	4,181	+3	21.78	+2.9	31.1	+6.1	70.3	-4.2
The State.....	326	2,177	-10.9	49,891	-11.0	22.92	-1	30.7	-2.2	74.8	+2.2
Iowa: Des Moines.....	90	425	-24.5	9,595	-24.4	22.58	+2	26.6	-12.8	85.5	+16.2
Kansas: Wichita.....	64	320	-2.1	5,623	-2.2	17.57	-1	25.1	(?)	70.2	+4
Kentucky: Louisville.....	142	911	-2.0	17,139	-8.9	18.81	-10.7	29.3	-10.4	66.0	-2
Louisiana: New Orleans.....	112	1,024	+6.2	18,121	-6	17.70	-6.4	28.4	-5.6	62.2	-8
Maine: Portland.....	84	365	+10.9	7,651	-1.9	20.96	-11.6	28.4	-8.1	73.9	-3.5
Maryland: Baltimore.....	110	2,220	-9.6	45,120	+3	20.32	+10.9	30.0	+2.0	67.5	+8.2
Massachusetts: All localities.....	694	5,401	-1.9	131,422	-2.5	24.33	-6	29.9	+3	81.5	-9
Michigan:											
Detroit.....	469	3,679	+11.7	91,972	+10.1	25.00	-1.4	30.7	(?)	81.6	-1.2
Flint.....	50	159	-14.1	3,267	-13.5	20.55	+6	28.6	+1.1	71.8	-7
Grand Rapids.....	106	382	-11.8	6,902	-14.3	18.07	-2.9	29.1	-6.4	62.0	+3.5
The State.....	625	4,220	+7.8	102,141	+7.1	24.20	-7	30.5	-3	79.5	-1

See footnotes at end of table.

Table 9.—Employment, Pay Rolls, Hours, and Earnings in the Building Construction Industry, November 1934—Continued

[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	November 1934	Number	Percentage change from October 1934	Amount	Percentage change from October 1934	Amount	Percentage change from October 1934	Number	Percentage change from October 1934	November 1934	Percentage change from October 1934
Minnesota:											<i>Cents</i>	
Duluth.....	46	146	—8.7		3,133	—9.9	21.46	—1.2	29.3	—3.9	73.0	+2.8
Minneapolis.....	205	1,297	—19.0		27,823	—19.9	21.45	—1.1	27.4	—2.5	77.8	+1.8
St. Paul.....	148	731	—7.2		17,829	—7.5	24.39	—3	30.4	—3.8	80.1	+3.2
The State.....	399	2,174	—14.7		48,785	—15.2	22.44	—5	28.6	—2.4	78.3	+2.5
Missouri:												
Kansas City <sup>5</sup> .....	280	1,817	—2		45,563	—5	25.08	—3	27.6	—2.5	92.2	+2.9
St. Louis.....	564	3,060	+8.2		79,629	+6	26.02	—7.1	25.8	—6.5	100.7	—4
The State.....	844	4,877	+4.9		125,192	+2	25.67	—4.5	26.4	—5.4	97.5	+9
Nebraska: Omaha.....	160	826	+18.7		16,098	+4.0	19.49	—12.4	26.7	—12.7	73.0	+4
New York:												
New York City.....	553	9,822	+15.0		305,057	+21.9	31.06	+6.0	27.7	—4	112.0	+6.4
Other localities.....	357	8,618	—8.0		193,009	—12.0	22.40	—4.4	28.1	—4.4	79.7	(2)
The State.....	910	18,440	+3.0		498,066	+6.1	27.01	+3.0	27.9	—2.4	96.8	+5.7
North Carolina: <sup>1</sup> Charlotte.....	47	330	+6.5		6,086	—3.6	18.44	—9.4	27.5	—8.6	67.1	—9
Ohio:												
Akron.....	96	363	—6.9		7,732	—15.2	21.30	—8.9	28.2	—7.8	75.6	—1.2
Cincinnati <sup>6</sup> .....	418	1,756	—1.2		39,217	—10.0	22.33	—9.0	27.2	—6.8	82.1	—2.3
Cleveland.....	598	2,705	—1.7		67,747	—7.1	25.05	—5.5	25.1	—8.7	99.3	+3.1
Dayton.....	141	554	—15.2		12,370	—9.9	22.33	+6.2	28.0	—7	79.9	+7.2
Youngstown.....	88	486	+2.1		11,281	—3.3	23.21	—5.3	29.1	—3.0	79.8	—2.3
The State.....	1,341	5,864	—3.1		138,347	—8.4	23.56	—5.5	26.5	—7.0	88.7	+1.3
Oklahoma:												
Oklahoma City.....	90	355	—18.2		5,536	—25.6	15.59	—9.0	22.3	—11.9	69.2	+3.4
Tulsa.....	54	344	(2)		6,132	+3.7	17.83	+3.7	27.7	—7	64.9	+4.0
The State.....	144	699	—10.2		11,668	—12.6	16.69	—2.7	24.9	—6.0	66.8	+3.1
Oregon: Portland.....	166	796	—23.4		16,018	—24.6	20.12	—1.6	24.5	—1.2	82.4	—7
Pennsylvania: <sup>7</sup>												
Erie area.....	22	226	+9		2,941	+8	13.01	—2	16.7	—15.7	75.5	+18.7
Philadelphia area.....	381	3,402	—12.0		73,814	—13.8	21.70	—2.1	30.1	—2.3	73.3	—7
Pittsburgh area.....	225	1,664	—10.7		42,331	—20.5	25.44	—11.0	26.7	—15.8	96.7	+6.0
Reading area.....	42	232	—12.8		4,629	—18.8	19.95	—6.9	30.2	—5.9	66.1	—1.0
Scranton area.....	31	186	—5.1		3,858	—14.0	20.74	—9.4	28.0	—7.6	75.9	(2)
Other areas.....	276	2,232	—6.2		48,696	—4.9	21.82	+3.4	33.4	+6	65.5	+1.4
The State.....	977	7,942	—9.7		176,269	—13.3	22.19	—4.0	29.9	—4.8	75.1	+7
Rhode Island: Providence.....	242	1,543	—2.0		34,681	—4.2	22.48	—2.2	32.7	—6	68.8	—1.9
Tennessee:												
Chattanooga.....	31	150	+2.0		2,616	+22.2	17.44	+19.8	28.9	+21.9	60.9	+2.5
Knoxville.....	36	330	—9.6		5,072	—8.5	15.37	+1.2	26.0	+4.4	59.2	—2.8
Memphis.....	68	376	+1.1		6,154	—15.3	16.37	—16.2	22.3	—18.6	72.8	+2.2
Nashville.....	74	893	+14.5		15,181	+11.4	17.00	—2.6	27.9	+7	60.9	+3.5
The State.....	209	1,749	+5.1		29,023	+1.6	16.59	—3.4	26.4	—1.1	62.7	—2.5

See footnotes at end of table.

Table 9.—Employment, Pay Rolls, Hours, and Earnings in the Building-Construction Industry, November 1934—Continued

[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 November 1934	Percentage change from October 1934	Amount November 1934	Percentage change from October 1934	Amount November 1934	Percentage change from October 1934	Number November 1934	Percentage change from October 1934	November 1934	Percentage change from October 1934
<b>Texas:</b>										<i>Cents</i>	
Dallas.....	187	630	-6.7	10,837	-7.4	17.20	- .8	26.2	-2.6	65.9	+2.3
El Paso.....	21	94	+16.0	1,539	+3.4	16.37	-10.9	24.2	-8.3	67.6	-3.0
Houston.....	181	1,168	- .3	21,991	-3.0	18.83	-2.6	28.3	- .4	66.5	-3.5
San Antonio.....	88	324	- .6	4,800	+3.4	14.81	+4.0	23.5	-3.3	63.5	+8.5
The State.....	477	2,216	-1.7	39,167	-3.3	17.67	-1.7	26.8	-1.8	66.0	- .3
Utah: Salt Lake City.....	130	215	-10.8	4,906	+1.2	22.82	+13.5	27.2	+12.9	83.9	+2.8
<b>Virginia:</b>											
Norfolk-Portsmouth...	68	335	-6.7	6,196	-9.4	18.50	-2.9	27.7	-4.5	66.8	+1.5
Richmond.....	115	851	-12.3	17,792	-18.3	20.91	-6.9	34.1	+1.8	61.6	-8.5
The State.....	183	1,186	-10.8	23,988	-16.2	20.23	-6.0	32.2	( <sup>2</sup> )	63.0	-5.8
<b>Washington:</b>											
Seattle.....	156	603	+2.2	13,831	+16.0	22.94	+13.6	24.0	+13.2	95.4	+ .2
Spokane.....	49	168	-2.3	4,078	-2.2	24.27	+ .1	27.4	-3.9	88.6	+4.0
Tacoma.....	81	229	+19.9	4,293	+10.6	18.75	-7.7	20.4	-12.4	91.9	+5.4
The State.....	286	1,000	+4.9	22,202	+11.2	22.20	+6.0	23.8	+3.9	93.4	+2.2
West Virginia: Wheeling...	55	186	-34.0	3,386	-30.7	18.20	+5.0	27.5	-1.4	66.5	+6.6
Wisconsin: All localities...	152	1,794	-7.4	36,405	-6.6	20.29	+ .8	31.6	-3.4	62.6	+2.3

<sup>1</sup> Averages computed from reports furnished by 10,338 firms.<sup>2</sup> No change.<sup>3</sup> Less than  $\frac{1}{10}$  of 1 percent decrease.<sup>4</sup> Data not available.<sup>5</sup> Includes both Kansas City, Mo., and Kansas City, Kans.<sup>6</sup> Includes Covington and Newport, Ky.<sup>7</sup> Each separate area includes from 2 to 8 counties.

*Trend of Employment in November 1934, by States*

FLUCTUATIONS in employment and pay-roll totals in November 1934, as compared with October 1934, in certain industrial groups are shown by States in table 10. 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 operations 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 increases from October to November of 3.8 percent in employment and 6.1 percent in pay rolls. These percentages are based on reports received from 160 mines, which employed in November 84,294 workers whose earnings in 1 week ending nearest the 15th were \$2,071,059.

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.

Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 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 November 1934	Percentage change from October 1934	Amount of pay roll (1 week) November 1934	Percentage change from October 1934	Number of establishments	Number on pay roll November 1934	Percentage change from October 1934	Amount of pay roll (1 week) November 1934	Percentage change from October 1934
Alabama.....	1,339	71,364	-2.6	\$10,016,684	-1.8	254	47,524	-2.5	\$621,285	-1.9
Arizona.....	574	15,034	+2.4	283,824	-2.1	48	2,532	-2	46,049	-1
Arkansas.....	<i>1,693</i>	<i>22,685</i>	-4	<i>351,735</i>	-1.0	<i>510</i>	<i>15,381</i>	-1.0	<i>224,623</i>	-4
California.....	<i>1,618</i>	<i>214,156</i>	-4.1	<i>5,221,251</i>	-4.1	<i>850</i>	<i>107,749</i>	-8.8	<i>2,506,107</i>	-7.9
Colorado.....	1,365	47,760	-3.9	992,799	-1.1	194	17,797	-8.3	357,579	+3.2
Connecticut.....	2,406	180,477	+1.5	3,562,095	+2.0	741	143,510	+3	2,727,080	+1.4
Delaware.....	238	12,833	-12.0	267,306	-9.3	75	8,330	-17.1	160,839	-13.3
Dist. of Columbia.....	989	39,234	+3.2	907,406	+1.7	52	4,395	+28.5	128,636	+18.3
Florida.....	1,807	45,773	+17.7	721,180	+12.1	230	21,295	+19.4	292,372	+16.4
Georgia.....	1,717	93,490	+6	1,370,525	+6	377	67,740	+6	879,911	+1.7
Idaho.....	568	12,455	-4.3	233,405	-4.9	64	4,639	-9.4	89,645	-8.5
Illinois.....	<i>4,610</i>	<i>458,489</i>	-2.6	<i>9,905,436</i>	-3.5	<i>2,063</i>	<i>276,792</i>	-4.3	<i>5,677,766</i>	-4.8
Indiana.....	2,839	193,543	-4.0	3,148,316	-2.2	695	110,935	-5.8	2,070,026	-2.9
Iowa.....	1,945	59,477	-9	1,181,852	-1.4	433	27,039	-2.2	529,424	-7
Kansas.....	<i>1,886</i>	<i>56,363</i>	-2.3	<i>1,174,166</i>	-3.1	<i>378</i>	<i>27,333</i>	-4.6	<i>604,546</i>	-5.6
Kentucky.....	1,749	87,056	-7	1,549,240	+1	328	33,962	-6	558,578	+2.5
Louisiana.....	1,154	46,907	+3.0	774,998	+2.6	251	25,548	+3.8	366,508	+6.8
Maine.....	934	48,663	-5.5	819,147	-10.5	282	39,015	-6.5	609,990	-12.9
Maryland.....	<i>1,680</i>	<i>101,683</i>	+1.6	<i>2,007,051</i>	+5.1	<i>636</i>	<i>66,078</i>	+1.1	<i>1,199,182</i>	+2.8
Massachusetts.....	<i>4,865</i>	<i>424,777</i>	-6	<i>8,648,576</i>	-1.3	<i>1,683</i>	<i>224,782</i>	-1.4	<i>4,089,974</i>	-1.5
Michigan.....	3,679	350,369	-2	7,841,183	+6	777	256,520	-6	5,654,451	+2.0
Minnesota.....	2,421	91,467	-2.6	1,977,825	-3.1	419	37,848	-5.5	790,591	-5.3
Mississippi.....	662 <sup>1</sup>	17,838	-4.1	247,410	-8.1	113	10,871	-7.4	133,111	-13.9
Missouri.....	4,335	169,077	+6	3,450,782	-1.9	897	76,545	-6	1,436,308	-2.9
Montana.....	830	17,757	-1	428,550	-5	103	5,091	-9.9	114,199	-10.1
Nebraska.....	1,708	37,593	-3.7	773,227	-4.8	182	14,727	-11.2	314,530	-9.7
Nevada.....	282	3,535	+4	88,495	+2	31	953	+5.9	24,212	+6.5
New Hampshire.....	809	44,852	-4.1	744,338	-8.6	215	37,357	-4.5	579,898	-10.1
New Jersey.....	3,811	206,534	-3.4	4,568,443	-4.2	<i>714</i>	<i>202,755</i>	-1.2	<i>4,367,822</i>	-10.8
New Mexico.....	418	7,070	+1.5	128,079	-3.9	33	641	-6	10,437	-2.1
New York.....	22,047	808,016	-5	19,901,343	-1.1	<i>1,896</i>	<i>372,483</i>	-1.5	<i>8,558,978</i>	-1.9
North Carolina.....	1,357	141,390	+4	1,939,077	-( <sup>2</sup> )	605	129,348	+2	1,750,217	+1
North Dakota.....	591	6,558	-2.4	142,715	-4.9	52	852	-2.6	20,041	-4.6
Ohio.....	9,718	504,241	-( <sup>3</sup> )	10,278,145	+6	2,624	345,397	-2	6,846,924	+9
Oklahoma.....	1,673	42,285	+2.4	816,817	-1.6	181	11,398	-2.2	224,923	-9
Oregon.....	1,506	45,055	-3.6	932,494	-5.3	294	22,613	-7.3	425,793	-9.3
Pennsylvania.....	10,194	778,189	-0.2	15,844,708	-0.3	<i>2,074</i>	<i>410,163</i>	-3	<i>7,630,050</i>	-1.0
Rhode Island.....	1,308	84,843	+3.9	1,591,839	+1.3	442	63,946	+4.6	1,093,435	+1.9
South Carolina.....	727	62,012	+4	822,231	-2	209	59,435	-1	700,319	-2
South Dakota.....	504	8,966	-8	210,898	-1.8	38	2,322	-1.2	47,332	-1.7
Tennessee.....	1,493	84,296	+4	1,341,163	-3	334	56,398	-1	847,056	-( <sup>4</sup> )
Texas.....	<i>1,450</i>	<i>74,198</i>	-3.5	<i>1,656,086</i>	-1.9	<i>475</i>	<i>37,950</i>	-3.6	<i>789,995</i>	-1.0
Utah.....	743	19,526	-1.3	417,911	+1.3	117	6,268	-5.1	120,138	+1.5
Vermont.....	583	14,998	-2	270,397	-2.1	154	8,589	+4.0	144,985	+1.5
Virginia.....	2,281	90,220	-1.4	1,638,927	-2.4	479	57,288	-2.6	914,097	-3.4
Washington.....	3,639	91,965	-6.1	1,910,280	-7.7	552	43,635	-8.9	813,065	-10.8
West Virginia.....	1,360	147,158	+3	2,943,061	+3.0	276	52,591	-1	1,014,810	+3.5
Wisconsin.....	<i>1,087</i>	<i>154,162</i>	-1	<i>3,044,769</i>	-5	<i>760</i>	<i>121,123</i>	+1.5	<i>2,869,456</i>	-7
Wyoming.....	393	8,114	+4	190,927	-5.4	44	1,608	-10.0	35,345	-8.2

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

**Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 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 payroll, November 1934	Percentage change from October 1934	Amount of payroll (1 week), November 1934	Percentage change from October 1934	Number of establishments	Number on payroll, November 1934	Percentage change from October 1934	Amount of payroll (1 week), November 1934	Percentage change from October 1934
Alabama.....	118	2,514	+1.0	\$59,712	-0.4	724	7,058	+1.5	\$120,309	+0.3
Arizona.....	73	2,245	+17.1	27,805	+ <sup>(*)</sup>	307	3,817	+1.7	70,468	-1.0
Arkansas.....	67	1,176	-2.8	29,966	-8.5	203	2,667	+3.2	41,049	+2.7
California.....	98	5,471	-4	151,370	-1.9	119	26,837	+5.2	548,277	+6.3
Colorado.....	154	3,494	-7	88,349	-7	589	9,981	-1.6	184,556	-2.9
Connecticut.....	220	7,808	+45.8	149,947	+32.2	1,151	15,719	-5	326,041	-3
Delaware.....	14	523	+4	11,736	-1.4	90	1,607	+3.0	32,312	+1.7
Dist. of Columbia.....	56	1,069	-1.6	32,847	-1.8	745	15,327	+4.2	312,086	+3.3
Florida.....	209	7,134	+46.6	105,117	+37.3	540	7,632	+8.2	135,006	+4.8
Georgia.....	113	1,695	+1.4	39,709	+7	883	10,632	+2.6	169,755	- <sup>(*)</sup>
Idaho.....	68	976	-16.7	16,663	-15.7	317	3,142	+2.3	53,813	-1.5
Illinois.....	411	14,139	+1.0	378,415	+5	1,414	69,139	+3.2	1,219,886	+1.0
Indiana.....	371	6,357	+1	153,657	-7	1,297	22,703	+1.6	428,043	-1
Iowa.....	177	3,574	-5	85,936	+4	695	12,490	+1.6	233,861	-3.4
Kansas.....	174	3,106	-5.7	71,704	-1.1	878	9,853	+1.9	162,990	+3
Kentucky.....	190	2,474	+2	56,830	+1.5	662	9,214	+1.8	162,687	+7
Louisiana.....	203	3,312	+1.0	74,424	-1.5	481	8,358	+3.3	135,508	+3
Maine.....	104	1,524	-1.7	36,598	-1.5	293	2,988	-1.3	56,394	-2.3
Maryland.....	209	3,163	+2.3	78,450	+2.7	565	15,355	+4.0	292,699	+4.5
Massachusetts.....	363	18,279	-1.0	476,281	-2.2	4,485	72,385	+3.8	1,402,814	+7
Michigan.....	319	6,312	-6	158,229	-2.1	1,102	35,207	+4.3	116,652	-6
Minnesota.....	321	8,825	-1.2	231,008	-1.1	1,211	20,174	+1.6	382,112	-6
Mississippi.....	71	1,263	+4.1	23,910	+6.0	233	2,713	+4.3	38,223	-9
Missouri.....	1,125	15,144	-1.3	381,740	-2.4	1,633	36,044	+4.8	716,937	+9
Montana.....	104	1,335	+6.9	32,581	+7.8	387	3,634	+8	75,974	-3.1
Nebraska.....	186	3,182	+1	83,235	-3	898	10,425	+2.1	181,573	-1.3
Nevada.....	53	347	+1.5	11,497	-1	122	970	-1.8	21,381	-3.2
New Hampshire.....	42	494	<sup>(10)</sup>	12,970	- <sup>(*)</sup>	329	3,279	-5	62,130	+5
New Jersey.....	228	4,194	+1.2	120,038	-7	2,169	21,686	+3.2	485,281	+2.1
New Mexico.....	40	390	+11.4	7,854	-6.3	229	1,826	+6	33,940	-1.2
New York.....	3,738	76,969	- <sup>(*)</sup>	2,320,190	-1	13,434	188,141	+3.0	4,274,206	+1.0
North Carolina.....	62	804	-5	21,195	-5	492	5,876	+6.1	82,419	+1.2
North Dakota.....	119	488	-6	11,545	-3.5	164	2,436	-3.8	52,382	-5.7
Ohio.....	1,074	15,508	-2	399,144	-1.1	4,802	69,085	+1.8	1,295,632	+8
Oklahoma.....	188	2,839	+2	68,119	+3	802	10,830	+12.2	165,641	+4
Oregon.....	298	4,084	-2.8	106,480	-2.8	619	9,826	+2.7	187,539	+3
Pennsylvania.....	1,522	19,685	+6	541,088	- <sup>(*)</sup>	3,757	69,302	+1.4	1,369,342	+7
Rhode Island.....	90	1,594	+9	42,234	+4	613	10,173	+4.7	191,114	+1.6
South Carolina.....	66	862	+1.8	20,618	+1.8	324	3,758	+4.1	50,986	+9
South Dakota.....	56	596	+2	14,491	+1.5	213	2,060	+5	39,153	-3.7
Tennessee.....	216	3,265	+9	70,176	-9	558	10,902	+3.3	183,743	-2
Texas.....	183	4,513	+6	112,561	+1.5	321	11,320	-2.8	205,336	+2
Utah.....	87	1,208	-1.3	33,465	-4.1	372	3,746	-2	70,124	-2.9
Vermont.....	30	537	-2.0	12,281	+4	175	1,759	-2.2	33,044	-3.0
Virginia.....	205	3,941	-1.2	81,097	-1.4	1,202	11,951	+2.0	215,269	+9
Washington.....	808	11,620	-12.5	295,717	-14.4	1,888	19,712	-2	383,151	-2.0
West Virginia.....	108	1,716	+6	44,180	- <sup>(*)</sup>	327	4,097	+1.5	72,634	-2.6
Wisconsin.....	45	1,934	-1.9	43,780	-3	53	11,464	+1.2	154,479	-2.9
Wyoming.....	27	228	-5.0	6,051	-7.4	198	1,416	+1.4	28,529	-2.3

\* Less than 1/10 of 1 percent.

<sup>10</sup> No change.



**Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 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 mining				
	Number of establishments	Number on pay roll November 1934	Percentage change from October 1934	Amount of pay roll (1 week) November 1934	Percentage change from October 1934	Number of establishments	Number on pay roll November 1934	Percentage change from October 1934	Amount of pay roll (1 week) November 1934	Percentage change from October 1934
Alabama.....	16	513	-11.1	\$6,104	-4.7	9	789	-26.4	\$11,791	-4.0
Arizona.....	3	39	+30.0	540	+37.1	21	3,572	-4.2	81,104	-7.8
Arkansas.....	4	100	-21.3	1,105	-7.3					
California.....	40	1,106	-3	21,020	-3.6	34	2,392	+1.1	61,296	-7
Colorado.....	5	20	(10)	289	+3.6	14	1,060	+4.4	28,836	+7
Connecticut.....	25	374	-7.2	4,640	-21.9					
Delaware.....	3	58	-29.3	1,340	-17.2					
District of Columbia.....										
Florida.....	17	1,029	+6.6	12,553	+12.8					
Georgia.....	23	972	-5.2	9,722	-8.2					
Idaho.....						9	2,009	+3.0	43,940	+2.5
Illinois.....	21	634	+3.4	11,120	-4.6					
Indiana.....	72	1,179	-10.8	17,918	-19.1					
Iowa.....	23	377	-10.7	6,915	-20.6					
Kansas.....	33	1,445	+9.5	28,645	+8.3	18	993	-20.3	14,242	-5.4
Kentucky.....	41	1,208	-12.4	12,736	-15.5					
Louisiana.....	7	705	+4.1	9,094	+6					
Maine.....	11	526	-1.9	10,068	-14.8					
Maryland.....	9	219	-2.7	3,468	+5.0					
Massachusetts.....	20	485	-1.8	9,895	-2.5					
Michigan.....	47	1,562	-6.7	26,771	-8.5	40	4,685	-2.8	72,278	-4.5
Minnesota.....	23	252	-16.3	4,157	-17.9	30	1,687	-3.8	30,735	-14.1
Mississippi.....	10	129	-3.0	1,249	-32.1					
Missouri.....	53	1,465	+2.8	21,683	+11.7	13	1,886	+7.0	19,484	+4
Montana.....	8	75	-14.8	1,363	-7.1	16	3,069	+14.0	88,161	+19.3
Nebraska.....	6	410	+60.8	4,960	+49.6					
Nevada.....						14	540	(10)	14,479	-5
New Hampshire.....	11	277	-19.0	6,130	-28.5					
New Jersey.....	32	591	-3.9	10,990	-14.6	3	19	-26.9	409	(10)
New Mexico.....						4	950	+3.6	17,982	+4.3
New York.....	79	2,415	-8.9	48,680	-11.6					
North Carolina.....	11	311	+13.9	3,683	+26.7					
North Dakota.....										
Ohio.....	128	3,072	-7.6	46,651	-9.4					
Oklahoma.....	16	158	-1.9	1,785	+13.8	31	1,123	+48.3	17,470	+104.4
Oregon.....	5	66	-32.7	1,015	-37.2	4	85	-2.3	1,561	-1.3
Pennsylvania.....	158	5,242	-6.2	75,441	-14.3					
Rhode Island.....										
South Carolina.....	6	183	-2.1	2,103	+1.2					
South Dakota.....	6	64	-14.7	1,094	-14.7					
Tennessee.....	23	790	-1.6	10,246	+10.4	4	330	+2.5	7,035	+2.6
Texas.....	21	879	-10.5	17,892	-24.0					
Utah.....	7	107	-7.0	2,149	+8.5	13	2,191	-2.3	50,120	-3.1
Vermont.....	38	1,815	-6.8	30,541	-13.7					
Virginia.....	31	1,183	+8.3	13,080	+3.8					
Washington.....	12	199	-29.4	2,811	-30.1					
West Virginia.....	18	743	-3.5	9,445	-3.7					
Wisconsin.....	12	178	-22.6	2,555	-33.4	(11)	766	+2.8	15,828	-1.1
Wyoming.....										

<sup>10</sup> No change.<sup>11</sup> Not available.

**Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 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 November 1934	Percentage change from October 1934	Amount of pay roll (1 week) November 1934	Percentage change from October 1934	Number of establishments	Number on pay roll November 1934	Percentage change from October 1934	Amount of pay roll (1 week) November 1934	Percentage change from October 1934
Alabama	55	8,360	-5.3	\$121,799	-3.0					
Arizona										
Arkansas						6	302	-4.4	\$7,112	-6.0
California						29	5,705	+1.2	183,755	+2.0
Colorado	48	5,420	+1.1	103,058	-7.8					
Connecticut										
Delaware										
District of Columbia										
Florida										
Georgia										
Idaho										
Illinois	32	9,195	+2.9	185,731	+4	9	206	+1.0	4,279	-5.6
Indiana	53	6,083	+1.1	130,684	+1.6	4	23	+4.5	347	-4.1
Iowa	20	1,982	+3.7	33,806	+2.4					
Kansas	27	2,361	-1.3	50,788	-2.7	23	1,622	-2.6	37,683	-8.7
Kentucky	137	28,641	-8	531,905	-6	5	251	-4.2	3,875	-6.6
Louisiana						7	260	+4.8	7,067	+7.7
Maine										
Maryland	15	1,430	-8	23,396	-1.3					
Massachusetts										
Michigan	3	847	+27.2	18,706	+41.0					
Minnesota										
Mississippi										
Missouri	19	1,766	+7.7	26,848	+4.7					
Montana	11	1,047	-1.9	27,070	-12.4	4	33	10.8	959	-10.4
Nebraska										
Nevada										
New Hampshire										
New Jersey										
New Mexico	14	1,860	+1.9	32,795	-11.4	4	95	+21.8	2,460	+18.8
New York						4	108	-9.2	2,509	-17.7
North Carolina										
North Dakota	7	630	-2.2	13,511	-7.5					
Ohio	69	11,960	-2.7	240,114	+5.2	6	61	-11.6	772	-12.2
Oklahoma	17	793	-2.8	12,564	-22.5	54	5,539	-3.9	132,252	-7.1
Oregon										
Pennsylvania	439	75,554	+1.0	1,355,553	-3	19	768	+1.3	18,429	+5
Rhode Island										
South Carolina										
South Dakota										
Tennessee	13	2,632	+1.6	38,972	+2.3					
Texas	5	365	-3.0	6,313	-2.5	14	7,676	-4.6	255,474	-6.4
Utah	15	2,193	+12.3	63,623	+21.9					
Vermont										
Virginia	25	4,706	+2.6	81,120	+5.3					
Washington	13	1,064	-2	24,338	-11.7					
West Virginia	387	77,652	+6	1,574,993	+4.0	8	472	-5.0	10,044	-10.2
Wisconsin										
Wyoming	31	3,721	+5.5	94,999	-5.2	6	216	+6.9	5,571	-11.3

**Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 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 November 1934	Percentage change from October 1934	Amount of pay roll (1 week) November 1934	Percentage change from October 1934	Number of establishments	Number on pay roll November 1934	Percentage change from October 1934	Amount of pay roll (1 week) November 1934	Percentage change from October 1934
Alabama.....	89	1, 878	+8.2	\$39, 651	-4.6	21	1, 199	+2.0	\$10, 417	+4.0
Arizona.....	69	1, 605	+4	38, 346	-2.0	21	634	+25.0	9, 442	+28.7
Arkansas.....	26	1, 231	+2.2	28, 976	-5	23	783	-1.7	7, 588	+4.6
California.....	40	35, 749	-2	965, 622	-3.6	174	9, 404	+1	149, 049	+1.7
Colorado.....	211	5, 842	-9	147, 316	-3.7	51	1, 324	-9.7	17, 810	-7.6
Connecticut.....	110	7, 806	-8	233, 596	-3	29	1, 353	+2	17, 899	-1.5
Delaware.....	29	1, 133	-3.8	31, 192	-7.5	4	271	+7	3, 698	+1.4
District of Columbia.....	22	9, 821	-1.9	268, 262	-4.5	46	4, 287	-2.0	67, 653	-1.8
Florida.....	186	5, 081	+1.5	122, 158	-2.4	66	1, 675	+33.9	15, 262	+25.7
Georgia.....	186	7, 331	+6	193, 362	-2.0	36	1, 450	+9	12, 070	+7
Idaho.....	57	797	-3.9	15, 955	-4.8	19	421	+1.9	4, 928	-5
Illinois.....	85	71, 839	-1.2	2, 035, 100	-3.1	12	14, 645	-7.9	219, 270	-8.2
Indiana.....	136	9, 314	-1.7	233, 255	-1.8	64	2, 942	-1.5	31, 113	-2.4
Iowa.....	476	9, 447	-1.5	218, 367	-2.1	54	2, 290	+1.5	21, 877	+3.4
Kansas.....	13 165	7, 325	+(8)	176, 808	-1.0	32	824	+2	9, 066	+2.5
Kentucky.....	283	6, 561	-6	147, 134	-4.1	33	1, 879	-5.4	18, 742	-9.6
Louisiana.....	151	5, 737	-4	138, 649	-2.5	20	2, 087	+6.8	23, 521	+8
Maine.....	170	2, 945	-2.4	79, 625	-6	17	624	-3.4	8, 006	-3.8
Maryland.....	94	12, 750	+4	372, 084	+4.9	20	729	+6.5	9, 082	+7.4
Massachusetts.....	13 127	45, 979	-7	1, 300, 682	-1.0	67	6, 082	+7	38, 070	+1.2
Michigan.....	409	29, 287	-5	849, 906	-6.4	90	5, 380	-2	67, 792	-1.7
Minnesota.....	235	12, 742	-1.1	335, 817	-1.2	68	3, 185	+1	38, 702	+1.0
Mississippi.....	191	1, 980	-1.4	40, 531	-1.8	17	477	-2.7	3, 799	-1.7
Missouri.....	262	20, 808	-1.0	559, 503	-3.6	89	5, 141	+9	62, 964	+3
Montana.....	113	2, 261	+3.8	66, 169	+5	36	574	+1.4	7, 874	+7
Nebraska.....	356	5, 596	-5	137, 865	-3.8	37	1, 623	+1	17, 700	+3.4
Nevada.....	38	412	+3.0	11, 923	-7	17	259	-13.1	3, 676	-10.6
New Hampshire.....	141	2, 367	+1.7	63, 686	+2	12	258	-27.3	3, 021	-25.4
New Jersey.....	266	21, 084	-1.3	614, 498	-6.9	76	3, 982	-7.0	51, 689	-2.4
New Mexico.....	54	642	-3.2	12, 951	-5.4	17	369	-8	3, 646	-2.3
New York.....	859	114, 921	-2	3, 729, 538	-6	214	29, 057	+4	463, 769	+1.4
North Carolina.....	97	1, 952	-2.4	41, 712	-6.2	37	1, 676	+4.7	14, 302	+3.8
North Dakota.....	182	1, 362	-1.9	31, 998	-4.9	17	280	+1.1	2, 918	+1.3
Ohio.....	431	35, 750	-5	959, 216	-1.8	127	9, 273	+8	121, 263	+1.3
Oklahoma.....	269	6, 533	+6	148, 992	-3.9	46	1, 442	-2.6	15, 907	-1.4
Oregon.....	183	5, 740	-(8)	157, 319	-2.9	63	1, 402	-1.8	18, 088	-2.0
Pennsylvania.....	728	54, 465	-6	1, 564, 254	+4	152	9, 925	-1.2	134, 557	-1
Rhode Island.....	47	5, 535	-1.6	165, 364	-1.1	10	366	-5	5, 127	-1.5
South Carolina.....	76	1, 789	+7.2	36, 298	-2.9	15	343	+6.5	3, 025	+5.4
South Dakota.....	129	1, 059	-2.0	25, 301	-6.0	20	341	+1.2	4, 034	-4
Tennessee.....	247	4, 935	-4	110, 216	-4.6	37	2, 492	+1.8	21, 362	-2
Texas.....	375	8, 760	-4.9	234, 656	-9	41	3, 171	-1.0	40, 962	-2.1
Utah.....	70	1, 887	-3.5	38, 664	-6.1	14	504	-(10)	6, 440	-1.1
Vermont.....	127	1, 489	-3.5	36, 252	-1.7	16	344	-22.5	3, 411	-24.7
Virginia.....	178	5, 844	-8	141, 799	-6.0	35	2, 124	-4	22, 845	-1.2
Washington.....	199	10, 297	+2.4	288, 353	+5	88	2, 630	-4.9	31, 837	-1.9
West Virginia.....	120	7, 062	+1.6	171, 638	-2.9	37	1, 249	+7	13, 562	-2
Wisconsin.....	14 41	10, 926	-6	328, 849	-1.8	49	1, 417	+7.1	(11)	-
Wyoming.....	49	500	+1.4	11, 662	-3.9	12	100	-1.0	1, 364	-9

<sup>8</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.

Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 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 pay roll November 1934	Percentage change from October 1934	Amount of pay roll (1 week) November 1934	Percentage change from October 1934	Number of establishments	Number on pay roll November 1934	Percentage change from October 1934	Amount of pay roll (1 week) November 1934	Percentage change from October 1934
Alabama.....	18	899	-4.6	\$8,637	-5.5	4	67	-8.2	\$932	-7.6
Arizona.....	12	332	+3.8	4,201	+4.4					
Arkansas.....	15	466	-2.5	4,854	-2.7	4	28	+3.7	438	+1.2
California.....	15 50	3,552	-3	62,687	-9					
Colorado.....	33	1,156	-6	14,605	-1.2	17	230	-9.4	4,277	-9.4
Connecticut.....	39	1,570	-1.4	25,306	-2.1	15	317	-3.6	6,432	-7.7
Delaware.....	4	303	-3.8	5,208	-1.4	3	57	-5.0	1,091	-9.7
District of Columbia.....	21	2,794	-3.2	43,729	-2.5	4	111	-4.3	1,875	-5.9
Florida.....	24	1,104	+1.5	11,327	+2.4	9	76	+2.7	1,062	-4.7
Georgia.....	22	2,134	-3.0	23,548	-4.9	10	172	-9.0	2,197	-9.6
Idaho.....	16	310	+1.0	4,644	-1.4					
Illinois.....	15 76	3,613	-1.5	58,775	-2.6					
Indiana.....	44	1,892	-8	25,674	+ <sup>(8)</sup>	42	695	-1.0	11,244	-3.2
Iowa.....	31	1,176	-9	15,330	-2.4	8	127	-6.6	2,289	-2.5
Kansas.....	15 40	981	-2.1	12,201	-2.6					
Kentucky.....	36	1,695	-1.8	21,212	-1	8	283	-1.4	3,951	-1.7
Louisiana.....	7	458	-2.1	4,862	-9	6	72	-8.9	1,141	-6.2
Maine.....	28	581	-2.5	7,938	-5.6	7	172	-9.0	2,835	-20.2
Maryland.....	22	1,751	+1	25,279	-9	10	208	-5.2	3,451	-8.5
Massachusetts.....	128	5,232	-1.0	84,821	-2.2	79	2,080	-6.6	56,276	-8.9
Michigan.....	63	2,999	-1.6	42,946	-6	30	866	-6.8	17,055	-6.4
Minnesota.....	31	1,610	-1.9	25,904	-3.2	18	516	-8.0	8,881	-8.2
Mississippi.....	5	146	-2.7	1,298	-2.2	6	63	-7.4	940	-7.0
Missouri.....	51	2,890	-2.0	38,415	-2.0	26	1,078	-6.5	17,320	-9.9
Montana.....	13	338	-2.6	5,806	-1.1	8	53	-3.6	1,044	-2.2
Nebraska.....	15	947	+7.9	13,295	+8.7	10	139	-5.4	2,168	-10.3
Nevada.....										
New Hampshire.....	17	286	-1.0	4,180	-1.9	6	85	-7.6	1,431	-12.6
New Jersey.....	31	2,588	-2.7	40,231	-1.7	8	217	-2.3	4,663	-6.0
New Mexico.....	4	196	<sup>(10)</sup>	3,159	-1.8					
New York.....	72	6,983	-3.6	123,953	-2.7	19	633	-2.3	11,965	-6.4
North Carolina.....	12	661	-1.6	7,100	-1.3	9	138	-6.8	1,902	-8.1
North Dakota.....	9	213	+5	3,275	+1.2					
Ohio.....	77	3,939	-1.1	62,215	-1	76	2,122	-3.7	38,585	-6.4
Oklahoma.....	22	902	-1.2	10,856	-3.0	14	210	-5.4	2,648	-11.8
Oregon.....	12	340	<sup>(10)</sup>	5,406	-6	9	93	-7.0	1,718	-12.8
Pennsylvania.....	38	2,757	-9	42,287	-3	48	1,580	-6.8	26,309	-14.0
Rhode Island.....	22	1,105	-1.3	18,496	-3.6	5	325	-13.3	5,429	-20.6
South Carolina.....	10	444	-2	3,975	+3	8	69	-2.8	992	-5.7
South Dakota.....	6	126	-8	1,540	-2.8	3	39	<sup>(10)</sup>	722	+6
Tennessee.....	14	1,282	-3.9	12,767	-2.1	11	166	-8.8	2,226	-5.6
Texas.....	29	1,790	-1.8	22,255	-2	18	477	-5.5	7,955	-6.6
Utah.....	12	663	-3	9,817	+1.6	12	156	-4.3	2,784	-8.7
Vermont.....	7	156	-2.5	1,882	-11.3	6	76	-11.6	1,106	-15.2
Virginia.....	24	1,094	-2.6	13,096	-3.2	31	396	-6.6	6,131	-9.9
Washington.....	15	617	-1.8	11,078	-3.0	15	238	-6.3	4,099	-12.4
West Virginia.....	19	649	-3.4	9,025	-3.3	10	242	-2.8	3,382	-6.3
Wisconsin.....	15 28	936	-1.4	12,912	-1.1					
Wyoming.....	8	142	-6.6	2,318	-10.1	3	20	<sup>(10)</sup>	437	+2.6

<sup>8</sup> Less than 1/10 of 1 percent.<sup>10</sup> No change.<sup>15</sup> Includes dyeing and cleaning.

Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 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 November 1934	Percentage change from October 1934	Amount of pay roll (1 week) November 1934	Percentage change from October 1934
Alabama.....	31	563	+0.5	\$16,047	+0.3
Arizona.....	18	237	-11.9	5,519	-4.5
Arkansas.....	21	249	( <sup>10</sup> )	6,110	( <sup>10</sup> )
California.....	1,165	22,410	+1.0	744,816	+2.7
Colorado.....	49	1,436	-1.1	46,124	-6
Connecticut.....	76	2,020	-8	71,154	+1
Delaware.....	16	551	-9	19,890	-4
District of Columbia.....	43	1,430	+5	52,268	+1.1
Florida.....	26	852	+1.1	26,323	+1.2
Georgia.....	67	1,364	-1.7	40,251	-1.9
Idaho.....	16	139	( <sup>10</sup> )	3,431	+4
Illinois.....	106	11,255	-1	393,446	+( <sup>8</sup> )
Indiana.....	61	1,403	+1	46,355	+9
Iowa.....	18	975	-8	31,047	-7
Kansas.....	<sup>10</sup> 152	943	+2	30,422	+5
Kentucky.....	26	888	-6	31,590	-2
Louisiana.....	21	369	-5	14,224	+9
Maine.....	22	288	+2.1	7,723	-4.9
Maryland.....	38	1,209	-1.7	41,918	+1.7
Massachusetts.....	<sup>10</sup> 152	5,234	+5	92,246	( <sup>10</sup> )
Michigan.....	197	6,888	-6	216,042	+4
Minnesota.....	58	4,628	-1.7	129,928	-1.6
Mississippi.....	16	196	+5	4,349	+8
Missouri.....	167	6,210	-4	169,580	+4
Montana.....	27	247	-8	7,350	+4.7
Nebraska.....	18	544	+4	17,901	+2
Nevada.....	3	13	( <sup>10</sup> )	443	-2
New Hampshire.....	36	449	+9	10,892	-11.9
New Jersey.....	149	13,801	+( <sup>8</sup> )	421,010	-9.1
New Mexico.....	17	105	+1.9	2,784	-1
New York.....	1,075	66,106	-5	2,102,560	+2
North Carolina.....	32	624	( <sup>10</sup> )	16,547	-9
North Dakota.....	38	272	-1.1	6,584	-9
Ohio.....	304	8,074	+9	267,629	+5
Oklahoma.....	33	518	-2.4	15,660	-1.4
Oregon.....	19	806	+8	27,575	+1.3
Pennsylvania.....	785	23,311	+1	724,746	+2
Rhode Island.....	77	1,769	-1	70,213	+2
South Carolina.....	13	129	( <sup>10</sup> )	3,915	+5
South Dakota.....	32	257	-8	6,382	-7
Tennessee.....	36	1,104	+3	37,364	+2
Texas.....	57	1,873	+2	50,542	+1
Utah.....	23	595	-1.5	20,297	+1
Vermont.....	30	233	-9	6,875	+1.6
Virginia.....	71	1,593	-6	50,393	-5
Washington.....	47	1,937	+2	55,559	+7
West Virginia.....	50	655	-2	19,348	+1.8
Wisconsin.....	40	1,110	+1	38,153	+1.2
Wyoming.....	13	117	-8	3,584	+7

<sup>8</sup> Less than 1/10 of 1 percent.<sup>10</sup> No change.<sup>11</sup> Does not include brokerage and real estate.

*Employment and Pay Rolls in November 1934 in Cities of Over  
500,000 Population*

FLUCTUATIONS in employment and pay-roll totals in November 1934 as compared with October 1934 in 13 cities of the United States having a population of 500,000 or over are presented in table 11. 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.

**Table 11.—Fluctuations in Employment and Pay Rolls in October 1934 as Compared With November 1934**

Cities	Number of establishments reporting in both months	Number on pay roll		Percentage change from October 1934	Amount of pay roll (1 week)		Percentage change from October 1934
		October 1934	November 1934		October 1934	November 1934	
New York City.....	16,866	598,782	594,889	-0.7	\$15,416,688	\$15,267,409	-1.0
Chicago, Ill.....	3,975	355,004	347,832	-2.0	8,451,131	8,158,180	-3.5
Philadelphia, Pa.....	2,880	211,570	212,065	+2	4,814,022	4,801,932	-.3
Detroit, Mich.....	1,588	213,842	214,858	+5	5,029,833	5,074,161	+9
Los Angeles, Calif.....	2,538	105,170	104,493	-.6	2,513,147	2,443,838	-2.8
Cleveland, Ohio.....	2,191	123,290	121,028	-1.8	2,716,109	2,666,770	-1.8
St. Louis, Mo.....	2,519	120,506	120,480	-(2)	2,541,924	2,475,119	-2.6
Baltimore, Md.....	1,414	81,992	80,416	-1.9	1,609,390	1,582,491	-1.7
Boston, Mass.....	3,700	157,731	157,016	-.5	3,564,190	3,543,523	-0.6
Pittsburgh, Pa.....	1,527	121,085	120,444	-.5	2,540,641	2,522,132	-.7
San Francisco, Calif.....	1,595	66,689	65,808	-1.3	1,652,470	1,630,063	-1.4
Buffalo, N. Y.....	1,020	60,280	59,803	-.8	1,293,601	1,279,127	-1.1
Milwaukee, Wis.....	867	64,023	64,707	+1.1	1,395,333	1,415,770	+1.5

<sup>1</sup> September-October data revised to 1,582 establishments, 227,781 employees in September, 197,785 in October, and a decrease of 13.2 percent; \$4,930,556 in September, \$4,610,527 in October, and a decrease of 6.5 percent.

<sup>2</sup> Less than  $\frac{1}{10}$  of 1 percent.

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

REPORTS of the Interstate Commerce Commission for class I railroads show that the number of employees, exclusive of executives and officials, decreased from 999,729 on October 15, 1934, to 967,251 (preliminary) on November 15, 1934, or 3.2 percent. Data are not yet available concerning total compensation of employees for November 1934. The latest pay-roll information available shows an increase from \$121,368,674 in September 1934 to \$127,411,527 in October 1934, or 5 percent.

The monthly trend of employment from January 1923 to November 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 table

12. These index numbers, constructed by the Interstate Commerce Commission, are based on the 3-year average, 1923-25 as 100, and cover all employees.

**Table 12.—Indexes of Employment on Class I Steam Railroads in the United States, January 1923 to November 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	57.0
October.....	107.1	100.7	100.4	103.1	98.5	95.2	96.6	80.2	67.6	56.9	57.4	56.6
November.....	105.0	98.9	98.9	101.0	95.5	92.7	92.8	76.9	64.4	55.8	55.8	54.8
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> 56.7

<sup>1</sup> Preliminary.

<sup>2</sup> Average for 11 months.

Source: Interstate Commerce Commission.

### *Employment and Pay Rolls in the Federal Service, November 1934*

EMPLOYMENT in the executive departments of the Federal service is still increasing. November registered a gain of 505 employees as compared with October. Comparing November 1934 with the corresponding month of the preceding year, there was a rise in employment of 20,696.

Information concerning employment in the executive departments is collected by the Civil Service Commission from the various departments and offices of the United States Government. The figures are tabulated by the Bureau of Labor Statistics.

Employment data for the legislative, judicial, and military services are collected and compiled by the Bureau of Labor Statistics.

Table 13 shows the number of employees in the executive departments of the Federal Government. Data for employees working in the District of Columbia are shown separately. Approximately 13 percent of the employees in the executive departments are in the city of Washington.

**Table 13.—Employees in the Executive Service of the United States, November 1933 and October 1934 and November 1934**

Item	District of Columbia			Outside the District			Entire service		
	Perma- nent	Tempo- rary	Total	Perma- nent	Tempo- rary <sup>1</sup>	Total	Perma- nent	Tempo- rary <sup>1</sup>	Total
Number of employees:									
November 1933.....	65,830	7,301	73,131	464,480	68,038	532,518	530,310	75,339	605,649
October 1934.....	84,891	8,431	93,322	502,157	88,026	590,183	587,048	96,457	683,505
November 1934.....	85,689	8,138	93,827	502,952	78,663	581,615	588,641	86,801	675,442
Gain or loss:									
November 1933 to No- vember 1934.....	+19,859	+837	+20,696	+38,472	+10,625	+49,097	+58,331	+11,462	+69,793
October 1934 to Novem- ber 1934.....	+798	-293	+505	+795	-9,363	-8,568	+1,593	-9,656	-8,063
Percentage change:									
November 1933 to No- vember 1934.....	+30.17	+11.46	+28.30	+8.28	+15.62	+9.22	+11.00	+15.21	+11.52
October 1934 to Novem- ber 1934.....	+0.94	-3.48	+0.46	+0.16	-10.64	-1.45	+0.27	-10.01	-1.18
Labor turn-over, November 1934:									
Additions <sup>2</sup> .....	2,488	996	3,484	6,335	17,661	23,996	8,823	18,657	27,480
Separations <sup>2</sup> .....	957	1,543	2,500	5,530	27,178	32,708	6,487	28,721	35,208
Turn-over rate per 100...	1.12	12.02	2.67	1.10	21.19	4.10	1.10	19.31	4.04

<sup>1</sup> Not including field employees of the Post Office Department or 43,110 employees hired under letters of authorization of the Agriculture Department, with a pay roll of \$1,641,597.

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

Employment in the District of Columbia showed a gain of 505, or one-half of 1 percent, comparing November with October. Comparing November 1934 with November 1933, however, there was a rise of more than 20,000, or over 28.3 percent, in the number of employees.

During the month of November there were 3,484 additions to the Federal pay roll and 2,500 separations. This is a turn-over rate of 2.67 percent per 100 employees.

Comparing November with October, there was a decrease of 8,568 employes, or 1.45 percent, in the executive departments outside the city of Washington. Comparing November with the same month of the previous year, there was an increase of 49,097 employees, or 9.22 percent.

Table 14 shows employment in the executive departments of the United States Government by months, January to November 1934, inclusive.

**Table 14.—Employment in the Executive Departments of the United States by Months, 1934**

Months	District of Co- lumbia	Outside District of Co- lumbia	Total	Months	District of Co- lumbia	Outside District of Co- lumbia	Total
January.....	78,045	530,094	608,139	July.....	87,978	583,531	671,509
February.....	79,913	531,839	611,752	August.....	91,065	585,772	676,837
March.....	81,569	541,990	623,559	September.....	92,557	589,280	681,837
April.....	83,850	560,258	644,108	October.....	93,322	590,183	683,505
May.....	85,939	573,147	659,086	November.....	93,827	581,615	675,442
June.....	87,196	573,898	661,094				



There has been an increase of 67,303 in the number of employees in the executive service since December 31, 1933. The number of employees in the District of Columbia has increased 20.2 percent, while the number outside has increased 9.7 percent.

Table 15 shows the number of employees and amounts of pay rolls in the various branches of the United States Government during October and November 1934.

**Table 15.—Employment and Pay Rolls for the United States Government, October and November 1934**

Branch of service	Number of employees		Amount of pay roll	
	November	October	November	October
Total.....	953, 597	959, 541	\$123, 929, 825	\$123, 263, 417
Executive service.....	675, 442	683, 505	100, 715, 284	101, 888, 573
Military service.....	272, 572	270, 490	21, 786, 447	19, 945, 777
Judicial service.....	1, 885	1, 846	451, 653	453, 217
Legislative service.....	3, 698	3, 700	976, 441	975, 850

There were slight increases in the executive, military, and judicial services, comparing November with October. The legislative service remains stationary.

Table 16 shows the number of employees and amounts of pay rolls for all branches of the United States Government by months, December 1933 to November 1934, inclusive.

**Table 16.—Employment and Pay Rolls for the United States Government, December 1933 to November 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	77, 450, 498	262, 942	18, 499, 516	1, 780	417, 000	3, 845	871, 753
February.....	611, 752	83, 524, 296	263, 464	19, 532, 832	1, 742	430, 843	3, 852	926, 363
March.....	623, 559	84, 837, 493	266, 285	19, 050, 158	1, 854	443, 505	3, 867	928, 368
April.....	644, 108	85, 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.....	671, 509	95, 184, 175	268, 257	20, 391, 629	1, 750	434, 736	3, 713	978, 908
August.....	676, 837	98, 467, 579	268, 712	20, 501, 900	1, 690	439, 014	3, 723	977, 966
September.....	681, 837	99, 152, 554	269, 489	20, 855, 093	1, 777	486, 410	3, 721	976, 516
October.....	683, 505	101, 888, 573	270, 490	19, 945, 777	1, 846	453, 217	3, 700	975, 851
November.....	675, 442	100, 715, 284	272, 572	21, 786, 447	1, 885	451, 653	3, 698	976, 441

<sup>1</sup> Revised.

*Employment Created by Public Works Administration Fund,  
November 1934*

NEARLY 470,000 workers were provided with employment at the site of Public Works Administration construction projects during the month ending November 15, 1934. Monthly pay rolls for these workers aggregated nearly \$29,000,000. The aggregate number of man-hours worked on Public Works Administration construction projects during the month ending November 15 totaled nearly 46,500,000. Orders were placed during the month for material valued at over \$56,000,000. The hourly earnings of workers averaged 62 cents during November. This construction is financed wholly or in part from P. W. A. funds.

Employment on Construction Projects, by Type of Project

TABLE 17 shows, by type of project, employment, pay rolls, and man-hours worked during the month of November <sup>1</sup> 1934 on Federal construction projects financed by the Public Works Administration fund.

**Table 17.—Employment and Pay Rolls on Federal Projects Financed from  
Public Works Funds, November 1934**

[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
All projects.....	326,342	\$19,280,633	32,716,504	\$0.589	\$42,208,417
Building construction.....	22,335	1,517,638	1,953,035	.777	3,073,465
Public roads.....	180,677	7,630,484	15,284,567	.499	11,300,000
River, harbor, and flood control.....	54,127	3,989,271	6,422,647	.621	7,707,258
Streets and roads <sup>1</sup> .....	11,927	537,200	1,037,843	.518	528,155
Naval vessels.....	20,353	2,366,125	2,803,717	.844	2,277,154
Reclamation.....	18,960	1,770,745	2,870,904	.617	16,197,363
Forestry.....	2,388	199,831	267,206	.748	118,827
Water and sewerage.....	1,228	55,262	82,809	.667	110,467
Miscellaneous.....	14,347	1,214,077	1,993,776	.609	895,728

<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 the 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.

More than 326,000 people were working at the site of Federal construction projects financed from the P. W. A. fund. This is a decrease of a little more than 20,000 as compared with October. Decreases occurred in employment in road building, building con-

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

struction, river, harbor, and flood-control work, forestry projects, and miscellaneous work. Increases in employment were registered in the construction of naval vessels, reclamation projects, and water and sewerage systems. Earnings per hour averaged 59 cents as compared with 60 cents in October. Workers on naval vessels showed the highest earnings per hour, 84 cents. Road workers averaged 50 cents per hour. The value of materials for which orders were placed during November totaled more than \$42,000,000.

Table 18 shows, by type of project, employment, pay rolls, and man-hours worked during the month of November on non-Federal construction projects financed from the Public Works Administration fund.

**Table 18.—Employment and Pay Rolls on Non-Federal Projects Financed From Public Works Funds, November 1934**

[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
All projects.....	121,845	\$7,906,966	11,221,771	\$0.705	\$13,629,781
Building construction.....	43,681	3,111,490	3,544,078	.878	6,438,204
Streets and roads.....	20,007	1,025,998	1,659,161	.618	2,040,647
Water and sewerage.....	36,649	2,154,978	3,153,130	.683	4,350,793
Railroad construction.....	20,425	1,534,516	2,765,527	.555	591,609
Miscellaneous.....	1,083	79,984	99,875	.801	208,528

Non-Federal projects are financed by allotments made by the Public Works Administration 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 not more than 30 percent of the total construction cost. The public agency to which the loan is made finances the other 70 percent. In some instances the 70 percent is obtained as a loan from the Public Works Administration. In others, the loan is obtained from outside sources. Where the Public Works Administration makes a loan, it charges interest and specifies the time in which the loan must be repaid in full.

No grants are made to commercial firms. Commercial allotments consist entirely of loans. The large percentage of 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 18. Employment in railroad car and locomotive shops is shown in table 21, page 43. Employment in commercial car and locomotive shops is shown in table 22, page 44.

November employment on non-Federal projects aggregated nearly 122,000, which is a decrease of 10,000 as compared with October. There were decreases in the number of employees on all types of construction comparing November with October. However, there was an increase in the number of man-hours worked and a gain in disbursements for pay rolls. Hourly earnings averaged 70½ cents as compared with 70 cents in October.

#### Employment on Construction Projects, by Geographic Divisions

TABLE 19 shows employment, pay rolls, and man-hours worked during November 1934 on Federal construction projects financed from the Public Works Administration fund, by geographic divisions.

**Table 19.—Employment and Pay Rolls on Federal Projects Financed From Public Works Funds, November 1934**

[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				
All divisions <sup>1</sup> .....	326,342	312,190	\$19,280,633	32,716,504	\$0.589	<sup>2</sup> \$42,208,417
New England.....	15,306	14,950	1,169,328	1,842,582	.635	901,128
Middle Atlantic.....	35,811	34,878	2,217,692	3,552,503	.624	2,503,863
East North Central.....	40,449	38,558	2,428,314	3,568,079	.681	2,424,232
West North Central.....	58,414	56,339	2,685,036	4,683,208	.573	1,976,294
South Atlantic.....	48,831	46,305	3,056,207	5,107,076	.598	2,562,484
East South Central.....	38,123	36,927	2,148,082	4,504,926	.477	15,295,689
West South Central.....	34,710	33,334	1,496,700	3,425,074	.437	1,323,866
Mountain.....	30,419	28,599	2,345,625	3,572,027	.657	2,246,788
Pacific.....	17,860	16,668	1,423,694	1,834,952	.776	1,250,781
Outside continental United States.....	6,226	5,439	284,387	601,162	.473	389,116

<sup>1</sup> Includes data for 193 wage earners which cannot be charged to any specific geographic division.

<sup>2</sup> Includes \$11,300,000, estimated value of material orders placed for public-road projects which cannot be charged to any specific geographic division.

There were more workers employed in the West North Central States than in any other geographic division during November. Disbursements for pay rolls, however, were higher in the South Atlantic States. Average earnings per hour were highest in the Pacific States and lowest in the West South Central States.

Table 20 shows employment, pay rolls, and man-hours worked during November 1934 on non-Federal projects financed from the Public Works Administration fund, by geographic divisions.

**Table 20.—Employment and Pay Rolls on Non-Federal Projects Financed From Public Works Funds, November 1934**

[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				
All divisions.....	121,845	102,144	\$7,906,966	11,221,771	\$0.705	\$13,629,781
New England.....	17,764	14,600	1,149,865	1,702,756	.675	1,987,835
Middle Atlantic.....	19,312	16,627	1,541,908	1,848,204	.834	2,907,207
East North Central.....	16,146	13,172	1,150,976	1,362,479	.845	2,220,479
West North Central.....	15,547	12,759	871,971	1,155,265	.755	2,116,819
South Atlantic.....	26,981	23,773	1,852,161	3,106,245	.596	1,835,651
East South Central.....	6,710	5,762	349,755	596,817	.586	506,363
West South Central.....	6,610	5,257	296,916	497,463	.597	788,791
Mountain.....	3,490	2,706	185,858	284,463	.703	429,087
Pacific.....	9,048	7,274	496,910	668,635	.773	825,892
Outside continental United States.....	237	214	10,646	19,444	.548	11,657

Of the 9 geographic divisions, non-Federal P. W. A. projects in the South Atlantic States provided the most employment. It also showed the highest disbursements for pay rolls. Hourly earnings reached a high of 84½ cents in the East North Central States and a low of 59 cents in the East South Central States.

Table 21 shows employment, pay rolls, and man-hours worked in railway car and locomotive shops operated by railroads on work financed from the Public Works Administration fund during November 1934, by geographic divisions.

**Table 21.—Employment and Pay Rolls in Railroad Shops on Work Financed From Public Works Funds, November 1934**

[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
All divisions.....	15,323	\$916,150	1,446,959	\$0.633	\$435,301
New England.....	482	61,276	92,418	.663	25,918
Middle Atlantic.....	3,713	192,822	297,004	.649	45,138
East North Central.....	2,449	199,132	306,061	.651	29,154
West North Central.....	1,175	85,132	137,402	.620	6,862
South Atlantic.....	839	53,689	89,458	.600	273,445
East South Central.....	1,360	68,086	114,902	.593	5,247
West South Central.....	1,690	87,048	143,124	.608	18,348
Mountain.....	778	27,924	44,902	.622	6,419
Pacific.....	2,837	141,041	221,688	.636	24,770

In the Middle Atlantic States there were over 3,700 railway-shop workers and in the Pacific States more than 2,800 such employees who were paid from the Public Works Administration fund. Work in these railway shops provided jobs for more than 15,000 people who were paid nearly \$1,500,000 for their month's work, at the rate of

63 cents per hour. In only one division, the East South Central, did the earnings average less than 60 cents per hour.

Table 22 shows employment, pay rolls, and man-hours worked in commercial car and locomotive shops on contracts financed from the Public Works Administration fund during November 1934, by geographic divisions.

**Table 22.—Employment and Pay Rolls in Commercial Car and Locomotive Shops on Works Financed From Public Works Funds, November 1934**

[Subject to revision]

Geographic division	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour
All divisions.....	6,364	\$727,683	1,108,961	\$0.645
New England.....	572	54,986	90,890	.605
Middle Atlantic.....	3,905	480,234	723,112	.664
East North Central.....	1,336	149,107	209,595	.711
West North Central.....	494	37,492	76,335	.491
South Atlantic.....	57	5,864	9,029	.649

Outside car and locomotive builders are rapidly finishing work on the orders which they have received from railroads to be paid for from P. W. A. funds. However, there were still more than 6,000 workers employed during November whose hourly earnings average 64½ cents.

Table 23 shows expenditures for materials from the beginning of the Public Works Administration program in August 1933 to November 15, 1934, inclusive.

**Table 23.—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 Oct. 15, 1934	During month ending Nov. 15, 1934
Total.....	\$556,221,013	\$56,273,499
Aircraft (new).....	4,284,890	
Airplane parts.....	4,453,766	27,767
Aluminum manufactures.....	125,666	8,790
Ammunition and related products.....	650,002	12,151
Asbestos.....	55,556	1,927
Awnings, tents, canvas, etc.....	154,219	8,111
Belting, miscellaneous.....	27,323	839
Boat building, steel and wooden (small).....	1,102,369	22,770
Bolts, nuts, washers, etc.....	1,881,162	83,280
Carpets and rugs.....	42,881	
Carriages and wagons.....	28,893	
Cast-iron pipe and fittings.....	8,639,941	1,415,192
Cement.....	69,592,619	18,643,257
Chemicals.....	189,000	8,162
Clay products.....	6,712,144	1,090,483
Coal.....	723,063	137,896
Compressed and liquefied gases.....	184,133	9,925
Concrete products.....	8,446,707	1,900,444
Copper products.....	397,444	32,135
Cordage and twine.....	195,508	8,984

Table 23.—Value of Material Orders Placed on Public Works Projects, by Type of Material—Continued

Type of material	Value of material orders placed	
	From beginning of program to Oct. 15, 1934	During month ending Nov. 15, 1934
Cork products.....	\$46,665	\$4,368
Cotton goods.....	70,820	197
Creosote.....	469,161	100
Crushed stone.....	21,607,710	2,037,297
Doors, shutters, and window sash and frames, molding and trim (metal).....	2,222,543	250,405
Electrical machinery, apparatus, and supplies.....	23,500,796	1,633,649
Elevators and parts.....	89,824	86,645
Engines, turbines, tractors, water wheels, and windmills.....	3,629,714	1,339,680
Explosives.....	2,327,620	200,731
Felt goods.....	159,818	5,259
Firearms.....	748,990	—
Forgings, iron and steel.....	2,912,950	267,953
Foundry and machine-shop products, not elsewhere classified.....	61,329,764	4,763,691
Furniture, including store and office fixtures.....	862,983	43,897
Glass.....	340,305	59,605
Hardware, miscellaneous.....	2,317,909	327,755
Instruments, professional and scientific.....	1,421,846	11,581
Jute goods.....	41,386	3,165
Lighting equipment.....	1,193,034	401,027
Lime.....	134,133	28,236
Linoleum.....	14,347	7,221
Locomotives, other than steam.....	4,959,622	—
Locomotives, steam.....	6,837,064	—
Lumber and timber products.....	27,940,437	2,109,037
Machine tools.....	3,575,371	146,277
Marble, granite, slate, and other stone products.....	8,227,869	1,173,066
Mattresses and bed springs.....	15,771	—
Meters (gas, water, etc.) and gas generators.....	168,561	26,909
Minerals and earths, ground or otherwise treated.....	97,691	234
Motor vehicles, passenger.....	323,719	72,592
Motor vehicles, trucks.....	763,485	7,235
Nails and spikes.....	556,388	56,118
Nonferrous-metal alloys, nonferrous-metal products, except aluminum, not elsewhere classified.....	889,436	23,514
Paints and varnishes.....	1,246,856	81,429
Paper products.....	29,622	6,359
Paving materials and mixtures.....	9,477,807	758,424
Petroleum products.....	16,626,927	1,586,836
Photographic apparatus and materials.....	151,124	1,676
Planing mill products.....	2,817,806	300,435
Plumbing supplies.....	4,977,584	537,039
Pumps and pumping equipment.....	6,280,499	496,756
Radio apparatus and supplies.....	582,882	3,543
Rail fastenings, excluding spikes.....	4,900,731	20,752
Rails, steel.....	17,872,004	29,982
Railway cars, freight.....	34,644,151	—
Railway cars, mail and express.....	429,443	—
Railway cars, passenger.....	7,152,435	—
Refrigerators and refrigerator cabinets, including mechanical refrigerators.....	561,796	9,773
Roofing, built-up and roll; asphalt shingles; roof coatings, other than paint.....	1,448,031	224,949
Rubber goods.....	236,503	19,707
Sacks and bags.....	17,188	983
Sand and gravel.....	37,114,757	3,346,523
Sheet-metal work.....	1,940,978	55,731
Smelting and refining lead.....	123,942	8,980
Smelting and refining zinc.....	17,983	52
Springs, steel.....	571,958	105
Steam and hot-water heating apparatus.....	3,141,800	659,064
Steam and other packing, pipe and boiler covering, and gaskets.....	510,798	25,801
Steel-works and rolling-mill products, other than steel rails, including structural and ornamental metal work.....	79,842,874	6,872,971
Stoves and ranges (other than electric) and warm air furnaces.....	142,959	28,673
Switches, railway.....	774,631	—
Theatrical scenery and stage equipment.....	30,101	950
Tools, other than machine tools.....	3,190,125	180,415
Upholstering materials, not elsewhere classified.....	86,351	12,733
Wall plaster, wall board, insulating board and floor composition.....	1,146,005	157,562
Waste.....	23,272	270
Window and door screens and weather strip.....	70,808	3,490
Window shades and fixtures.....	47,133	2,324
Wire, drawn from purchased rods.....	2,402,570	251,304
Wirework, not elsewhere classified.....	715,666	83,465
Wrought pipe, welded and heavy riveted.....	408,244	23,685
Other.....	26,769,651	1,981,219

Purchase orders have been placed for materials valued at over \$612,000,000 since the inception of the Public Works Administration program. It is estimated that the manufacture of these materials will create 1,600,000 man-months of labor. This accounts only for labor in the fabrication of material in the form in which it is to be used. For example, only labor in manufacturing brick is included, not the labor in taking the clay from the pits or in transporting the clay and other materials used in the brick plant. In fabricating steel rails only labor in the rolling mill is counted, not labor created in mining and smelting the ore, nor labor in the blast furnaces, the open-hearth furnaces, nor the blooming mills.

In order to obtain data concerning the man-months of labor created in fabricating this material, blanks are sent to each firm receiving a material order from the United States Government or from State governments or political subdivisions thereof to be financed from the Public Works fund, asking them to estimate the number of man-hours created in their plants in manufacturing the material as specified in the contract. For materials purchased direct by contractors on the job, the Bureau estimates the man-months of labor created. This estimation is made using the experience of the manufacturing plants as shown by the Census of Manufactures.

Table 24 shows employment, pay rolls, and man-hours worked by employees since the inception of the Public Works program in August 1933 to November 1934, inclusive.

**Table 24.—Employment and Pay Rolls, August 1933 to November 1934, on Projects Financed From Public Works Funds**

[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
August 1933 to November 1934.....	.....	\$319,480,208	561,580,271	\$0.569	\$612,494,512
1933					
August.....	4,699	280,040	539,454	.519	202,100
September.....	33,836	1,961,496	3,920,009	.500	1,622,365
October.....	121,403	7,325,313	14,636,603	.500	<sup>1</sup> 22,513,767
November.....	254,784	14,458,364	27,862,280	.519	24,299,055
December.....	270,408	15,424,700	29,866,249	.516	24,850,188
1934					
January.....	273,583	14,574,960	27,658,591	.527	23,522,020
February.....	295,741	15,246,423	28,938,177	.527	24,565,004
March.....	292,696	15,636,545	29,171,634	.536	<sup>2</sup> 69,334,408
April.....	371,234	17,907,842	31,559,966	.567	<sup>2</sup> 66,659,362
May.....	491,166	25,076,908	44,912,412	.558	<sup>2</sup> 49,720,378
June.....	592,057	32,783,533	58,335,119	.562	<sup>2</sup> 57,589,895
July.....	624,286	33,829,858	59,436,314	.569	<sup>2</sup> 49,299,174
August.....	602,581	35,142,770	59,943,328	.586	<sup>2</sup> 46,961,648
September.....	549,910	31,720,317	51,699,495	.614	<sup>2</sup> 44,487,057
October.....	507,799	29,280,240	46,617,616	.628	<sup>2</sup> 50,593,683
November.....	469,874	28,831,432	46,494,195	.620	56,273,499

<sup>1</sup> Includes orders placed for naval vessels prior to October 1933.

<sup>2</sup> Includes orders placed by railroads for new equipment.



Since the beginning of the Public Works program nearly \$320,-000,000 has been disbursed for pay rolls. This construction work has provided at the site of the projects more than 560,000,000 man-hours of labor. Earnings per hour have averaged 57 cents over the 16-month period.

### *Emergency Work Relief Program*

DURING the week ending November 29 there were 1,402,000 people on the pay rolls of the emergency work program of the Federal Relief Administration. This is a decrease of 28,000 as compared with the last week in October.

Table 25 shows the number of employees and amounts of pay rolls for workers on the emergency work program for weeks ending November 29 and October 25.

**Table 25.—Employment and Pay Rolls for Workers on Emergency Work Relief Program**

[Subject to revision]

Geographic division	Number of employees week ending—		Amount of pay roll	
	Nov. 29	Oct. 25	Nov. 29	Oct. 25
New England.....	115,211	119,411	\$1,242,616	\$1,369,669
Middle Atlantic.....	249,585	211,796	3,579,279	3,458,329
East North Central.....	220,860	238,209	2,224,403	2,357,145
West North Central.....	204,697	258,620	1,715,493	2,088,821
South Atlantic.....	175,029	188,496	1,136,148	1,242,007
East South Central.....	83,022	81,442	421,472	440,939
West South Central.....	172,730	168,287	1,142,188	1,176,869
Mountain.....	50,913	58,605	535,642	647,223
Pacific.....	129,992	105,808	1,318,926	1,114,546
Total.....	1,402,039	1,430,674	13,316,167	13,895,548
Percentage change.....	-2.0		-4.2	

Comparing the 2 weeks under discussion, there was a decrease of 2 percent in the number of employees and a decrease of 4.2 percent in weekly pay rolls.

Table 26 shows the number of employees and amounts of pay rolls for workers on the emergency work relief program by months, from the inception of the work in March 1934 to November 1934, inclusive.

**Table 26.—Employment and Pay Rolls for Workers on Emergency Work Relief Program, by Months, 1934**

Month	Number of employees <sup>1</sup>	Amount of pay roll	Month	Number of employees <sup>1</sup>	Amount of pay roll
March.....	22,934	\$842,000	August.....	1,908,993	\$54,792,488
April.....	1,176,818	38,953,678	September.....	1,949,267	50,110,074
May.....	1,341,853	42,214,039	October.....	1,950,000	51,000,000
June.....	1,478,200	42,221,757	November.....	2,150,000	64,000,000
July.....	1,706,455	47,244,553			

<sup>1</sup> Wage earners shown in this report represent the number that worked any part of month. These employees are allowed to work each month till a certain specified maximum is earned then are replaced by other workers taken from the relief rolls.

There were nearly 2,000,000 workers carried on the rolls of the emergency work program. This does not mean, however, that as many as that are working at any given time. Because of the fact that a limit is placed on the earnings of employees, not more than 60 percent of this number are working during any given week. For example, during the week ending November 29, 1,402,000 workers were employed.

### *Emergency Conservation Work*

DURING the month ending November 30 there were over 387,000 men engaged in Civilian Conservation work. These men drew over \$16,600,000 for their month's pay. In addition to their pay, the enrolled personnel receives free board, clothing, and medical attention.

Table 27 shows employment and pay rolls for emergency conservation work during the months of October and November 1934, by type of work.

Table 27.—Employment and Pay Rolls in the Emergency Conservation Work, November and October 1934

Group	Number of employees		Amount of pay rolls	
	November	October	November	October
All groups.....	387,329	391,894	\$16,622,110	\$16,939,595
Enrolled personnel.....	348,583	349,624	10,886,247	10,918,755
Reserve officers.....	6,191	6,235	1,545,883	1,558,522
Educational advisers.....	1,111	1,101	178,177	176,609
Supervisory and technical <sup>1</sup> .....	<sup>2</sup> 31,444	<sup>3</sup> 34,934	4,011,803	4,285,709

<sup>1</sup> Includes carpenters, electricians, and laborers.

<sup>2</sup> Includes 28,432 employees, and \$3,680,902 pay roll in the executive service table.

<sup>3</sup> Includes 29,417 employees, and \$3,765,920 pay roll in the executive service table.

The number of workers in Civilian Conservation Camps decreased 4,500 as compared with October. Information concerning employment and pay rolls for emergency conservation work is 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 28 shows employment and pay rolls in emergency conservation work from the beginning of the program in May 1933 to November 1934, inclusive.

**Table 28.—Monthly Totals of Employees and Pay Rolls in the Emergency Conservation Work, May 1933 to November 1934**

Month	Number of employees	Amount of pay roll	Month	Number of employees	Amount of pay roll
1933			1934—Continued		
May.....	191, 380	\$6, 388, 760	March.....	247, 591	\$10, 792, 319
June.....	283, 481	9, 876, 780	April.....	314, 664	13, 214, 018
July.....	316, 109	11, 482, 262	May.....	335, 871	14, 047, 512
August.....	307, 100	11, 604, 401	June.....	280, 271	12, 641, 401
September.....	242, 968	9, 759, 628	July.....	389, 104	16, 032, 734
October.....	294, 861	12, 311, 033	August.....	385, 340	16, 363, 826
November.....	344, 273	14, 554, 695	September.....	335, 785	15, 022, 969
December.....	321, 701	12, 951, 042	October.....	391, 894	16, 939, 595
1934			November.....	387, 329	16, 622, 110
January.....	331, 594	13, 581, 506			
February.....	321, 829	13, 081, 393			

During the 19-month period since the Civilian Conservation Camps have been in operation, more than \$247,000,000 has been disbursed for pay rolls.

### *Employment on State Road Projects*

THERE were over 225,000 men building and maintaining State roads during the month of November. Of this number, 29.3 percent were engaged in building new roads and 70.7 percent in maintaining existing roads. The number employed during November decreased approximately 15,000 as compared with the previous month.

Table 29 shows the number of employees engaged in building and maintaining State roads during the months of October and November 1934, by geographic divisions.

**Table 29.—Employment for Construction and Maintenance of State Roads, by Geographic Division<sup>1</sup>**

Geographic division	New				Maintenance			
	Number of employees		Amount of pay rolls		Number of employees		Amount of pay rolls	
	November	October	November	October	November	October	November	October
New England.....	18, 048	20, 926	\$828, 955	\$764, 476	8, 059	6, 405	\$649, 196	\$509, 935
Middle Atlantic.....	5, 089	6, 601	346, 929	393, 366	42, 890	55, 479	2, 172, 043	2, 890, 043
East North Central.....	12, 531	12, 963	702, 420	655, 935	25, 477	23, 217	1, 457, 065	1, 531, 652
West North Central.....	6, 073	7, 625	149, 746	263, 424	19, 067	18, 067	1, 111, 935	987, 239
South Atlantic.....	10, 345	9, 118	216, 172	177, 265	28, 905	29, 917	1, 334, 848	1, 294, 370
East South Central.....	3, 096	2, 452	153, 463	105, 777	10, 780	11, 010	410, 391	373, 152
West South Central.....	4, 193	5, 515	157, 102	244, 678	10, 310	10, 599	760, 348	754, 826
Mountain.....	3, 436	2, 887	198, 704	159, 485	7, 404	8, 435	468, 043	592, 978
Pacific.....	3, 295	2, 921	182, 388	170, 050	6, 485	6, 032	613, 587	563, 217
Total, continental United States.....	66, 106	71, 008	2, 935, 879	2, 934, 456	159, 451	169, 161	8, 977, 456	9, 497, 412
Percentage change.....	-6.9	-----	+ .05	-----	-5.7	-----	-5.5	-----
Outside continental United States.....	0	0	-----	0	74	74	6, 348	7, 870
Grand total.....	66, 106	71, 008	2, 935, 879	2, 934, 456	159, 525	169, 235	8, 983, 804	9, 505, 282

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

November pay rolls for State road workers amounted to nearly \$12,000,000.

Table 30 shows the number of employees engaged in the construction and maintenance of State roads, for the months January to November 1934, inclusive.

**Table 30.—Employment on Construction and Maintenance of State Roads:**

Month	Number of employees working on—			Month	Number of employees working on—		
	New roads	Main-tenance	Total		New roads	Main-tenance	Total
January.....	25,345	136,440	161,785	July.....	45,478	168,428	213,906
February.....	22,311	126,904	149,215	August.....	53,540	180,270	233,810
March.....	19,985	132,144	152,129	September.....	61,865	188,323	250,188
April.....	21,510	136,038	157,548	October.....	71,008	169,161	240,169
May.....	27,161	167,274	194,435	November.....	66,106	159,451	225,557
June.....	37,642	170,879	208,521				

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

***Employment on Construction Projects Financed by the Reconstruction Finance Corporation, November 1934***

DURING the month ending November 15, more than 16,500 people were employed by contractors working on construction projects financed by loans made by the Self-Liquidating Division of the Reconstruction Finance Corporation.

Table 31 shows employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation, by type of project.

**Table 31.—Employment and Pay Rolls for Projects Financed by the Reconstruction Finance Corporation During November 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
All projects.....	16,502	\$1,621,468	2,233,928	\$0.726	\$2,856,371
Railroad construction.....	26	2,123	3,516	.604	1,854
Building construction.....	1,941	163,320	152,093	1.074	122,949
Bridges.....	5,709	465,852	560,391	.831	1,874,688
Reclamation.....	2,504	152,799	316,248	.483	83,595
Water and sewage.....	4,975	692,641	992,273	.698	398,576
Miscellaneous.....	1,347	144,733	209,407	.691	374,709

More than \$1,600,000 was disbursed for pay rolls during November. Earnings averaged nearly 73 cents per hour. The highest hourly earnings, \$1.07, occurred on building construction projects and the lowest, 48 cents on reclamation projects.

Table 32 shows employment, pay rolls, and man-hours worked on contracts financed by the Reconstruction Finance Corporation, by geographic divisions.

**Table 32.—Employment and Pay Rolls for Projects Financed by the Reconstruction Finance Corporation During November 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
All divisions.....	16,502	\$1,621,468	2,233,928	\$0.726	\$2,856,371
New England.....	0	0	0	0	0
Middle Atlantic.....	2,941	268,585	269,872	.995	1,057,416
East North Central.....	314	38,240	36,328	1.053	11,506
West North Central.....	32	786	1,040	.756	14,890
South Atlantic.....	172	4,932	14,843	.332	10,341
East South Central.....	36	1,791	3,737	.479	1,854
West South Central.....	864	72,684	95,771	.759	53,010
Mountain.....	2,506	152,932	316,359	.483	83,595
Pacific.....	9,637	1,081,518	1,495,978	.723	1,623,759

More than one-half of these workers were employed in the three Pacific States. Hourly earnings ranged from 33 cents in the South Atlantic States to \$1.05 in the East North Central States.

Table 33 shows data concerning employment, pay rolls, and man-hours worked during the months, April to November, inclusive, on construction projects financed by the Reconstruction Finance Corporation.

**Table 33.—Employment and Pay Rolls for Projects Financed by the Reconstruction Finance Corporation, April Through November 1934**

[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
September.....	17,088	1,648,618	2,231,069	.739	2,500,638
October.....	17,482	1,596,996	2,181,846	.732	2,274,174
November.....	16,502	1,621,468	2,233,928	.726	2,856,371

Table 34 shows the value of material orders placed by contractors working on Reconstruction Finance Corporation construction projects, by type of material.

**Table 34.—Value of Material Orders Placed for Projects Financed by the Reconstruction Finance Corporation, by Type of Material**

Type of material	Value of material	
	From March to Oct. 15, 1934	During period ending Nov. 15, 1934
All material.....	\$16, 021, 037	\$2, 856, 371
Belting, leather.....	1, 516	-----
Bolts, nuts, rivets, etc.....	7, 073	1, 278
Cast-iron pipe and fittings.....	325, 914	10, 138
Cement.....	1, 103, 559	254, 710
Clay products.....	273, 092	8, 458
Coal.....	35, 534	10, 234
Compressed and liquefied gases.....	25, 080	3, 536
Concrete products.....	1, 094, 820	-----
Copper products.....	721, 905	174, 737
Cordage and twine.....	5, 493	1, 021
Crushed stone.....	54, 361	1, 033
Electrical machinery and supplies.....	924, 699	66, 111
Explosives.....	648, 435	95, 039
Felt goods.....	4, 446	-----
Foundry and machine-shop products, not elsewhere classified.....	1, 247, 774	145, 414
Fuel oil.....	71, 062	1, 839
Gasoline.....	208, 029	34, 894
Glass.....	3, 617	-----
Hardware, miscellaneous.....	577, 052	24, 686
Insulation materials.....	9, 359	7, 027
Lime.....	8, 180	-----
Lubricating oil and greases.....	31, 366	3, 648
Lumber and timber products.....	947, 956	71, 305
Marble, granite, slate, and other stone products.....	66, 875	14, 495
Motor vehicles and supplies.....	99, 801	8, 319
Nails and spikes.....	8, 401	-----
Paints and varnishes.....	10, 330	11, 824
Plumbing supplies.....	232, 370	40, 827
Pumps and pumping equipment.....	11, 244	-----
Roofing.....	5, 629	3, 237
Rubber goods.....	19, 778	3, 546
Sand and gravel.....	346, 023	25, 817
Sheet-metal work.....	28, 134	2, 519
Steam and hot-water heating apparatus.....	45, 403	15, 053
Steel-works and rolling-mill products.....	6, 076, 055	1, 716, 594
Switches, railway.....	7, 727	2, 951
Tools.....	77, 559	4, 782
Wire.....	197, 165	1, 362
Wirework, not elsewhere classified.....	23, 224	-----
Other.....	435, 197	89, 937

*Employment on Construction Projects Financed from Regular Governmental Appropriations*

THERE were more than 18,000 employees working on construction projects financed from governmental appropriations made by the Congress direct to the various executive departments.

November pay rolls for these employees amounted to over \$1,000,-000. Their hourly earnings averaged 60 cents. The number of workers shown above includes only employees working on contracts awarded since July 1, 1934.

Whenever a contract is awarded by a Government department, the Bureau of Labor Statistics is immediately notified on post-card form of the name and address of the contractor. Schedules are then mailed to the contractor, who returns his report to the Bureau showing the number of men on his pay rolls, the amount of the pay rolls, the number of man-hours worked, and the value of orders placed for each of the different kinds of materials he has purchased.

The following tables show information concerning such work on construction projects on which work started since July 1. The Bureau has no data for projects that were under way previous to July 1, 1934.

Table 35 shows employment, pay rolls, and man-hours worked on construction projects started subsequent to July 1, 1934, financed from direct appropriations to the various Government agencies.

**Table 35.—Employment and Pay Rolls for Construction Projects Financed From Regular Governmental Appropriations for November 1934, by Type of Projects**

[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 orders placed
All projects.....	18, 211	\$1, 014, 945	1, 690, 488	\$0. 600	\$3, 334, 648
Building construction.....	5, 181	306, 484	407, 540	.752	384, 123
Public roads.....	4, 023	235, 776	410, 661	.574	291, 289
River, harbor, and flood control.....	6, 930	365, 253	716, 507	.510	342, 140
Streets and roads.....	903	34, 680	62, 684	.553	58, 159
Naval vessels.....	639	48, 802	52, 561	.928	2, 216, 575
Forestry.....	6	107	167	.641	92
Water and sewage.....	177	5, 980	10, 793	.554	10, 665
Miscellaneous.....	352	17, 863	29, 575	.604	31, 605

Of more than 18,000 workers engaged on these Federal construction projects, nearly 7,000 were working on river, harbor, and flood control projects and over 5,000 on building construction. Hourly earnings ranged from 51 cents in the case of river, harbor, and flood control work to 93 cents for workers on naval vessels.

Table 36 shows for the month of November employment, pay rolls, and man-hours worked on construction projects started since July 1, which are financed from regular governmental appropriations, by geographic divisions.

**Table 36.—Employment and Pay Rolls for Construction Projects Financed from Regular Governmental Appropriations for November 1934, by Geographic Divisions**

[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
All divisions.....	18, 211	\$1, 014, 945	1, 690, 488	\$0. 600	<sup>1</sup> \$3, 334, 648
New England.....	722	48, 201	66, 061	.730	127, 620
Middle Atlantic.....	1, 352	90, 786	141, 480	.642	2, 090, 571
East North Central.....	2, 928	158, 915	223, 546	.711	76, 010
West North Central.....	930	42, 360	76, 513	.554	33, 003
South Atlantic.....	2, 131	117, 011	181, 680	.644	207, 023
East South Central.....	2, 658	126, 990	265, 214	.479	63, 248
West South Central.....	4, 015	222, 948	423, 010	.527	289, 294
Mountain.....	1, 222	78, 363	120, 399	.651	28, 467
Pacific.....	1, 515	92, 987	123, 293	.754	104, 852
Outside continental United States.....	738	36, 384	69, 292	.525	23, 271

<sup>1</sup> Includes \$291,289 estimated value of orders placed for public road projects which cannot be charged to any specific geographic divisions.

Over 4,000 men were employed in the West South Central States and nearly 3,000 in the East North Central States. Average hourly earnings varied from 48 cents in the East South Central States to 75 cents in the Pacific States.

Table 37 shows for the months August to November inclusive, employment, pay rolls, and man-hours worked on construction projects starting since July 1, which are financed from direct governmental appropriations.

**Table 37.—Employment and Pay Rolls for Construction Projects Financed From Regular Governmental Appropriations Through November 1934**

[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
August.....	5,601	\$329,440	557,747	\$0.591	\$150,506
September.....	9,800	493,363	773,685	.638	842,292
October.....	13,593	689,604	1,103,523	.625	982,835
November.....	18,211	1,014,945	1,690,488	.600	3,334,648

Employment on these construction projects has increased more than threefold since August. November pay rolls were more than three times as great as August pay rolls.

The value of material orders placed during the 4 months amounted to over \$5,000,000.

Table 38 shows the value of material orders placed during the month ending November 15 for use on construction projects on which work has started since July 1, financed from direct governmental appropriations, by type of material.

**Table 38.—Material Orders Placed for Use on Construction Projects Financed From Regular Governmental Appropriations**

[Subject to revision]

Type of material	Value of material orders placed	
	From July 1 to Oct. 15, 1934	During period Oct. 15 to Nov. 15
All material.....	\$1,825,127	\$3,334,648
Bolts, nuts, rivets, etc.....	1,047	12,482
Brick and hollow tile.....	28,614	13,023
Cast-iron pipe and fittings.....	7,694	5,324
Cement and lime.....	106,147	120,322
Coal.....	9,366	5,280
Concrete products.....	22,797	12,033
Copper products.....	8,948	26,325
Cordage and twine.....	3,167	1,709
Crushed stone.....	28,114	42,868
Electric wiring and fixtures.....		20,482
Electrical machinery and supplies.....	97,596	11,692
Elevators and parts.....		3,701
Engines, turbines, tractors.....		24,768
Explosives.....	2,017	6,304
Foundry and machine-shop products, not elsewhere classified.....	133,128	100,567
Glass.....		1,907



**Table 38.—Material Orders Placed for Use on Construction Projects Financed From Regular Governmental Appropriations—Continued**

Type of material	Value of material orders placed	
	From July 1 to Oct. 15, 1934	During period Oct. 15 to Nov. 15
Hardware, miscellaneous.....	\$25, 734	\$10, 704
Heating and ventilating equipment.....	9, 304	33, 885
Linoleum.....		3, 639
Lumber and timber products.....	385, 747	153, 739
Machine tools.....		2, 480
Marble, granite, slate, and other stone products.....	37, 925	55, 390
Metal doors, shutters, window sash and frames, molding, and trim.....		7, 035
Motor vehicles and equipment.....		1, 952
Nails and spikes.....	7, 541	4, 986
Paints and varnishes.....	31, 362	16, 798
Paving mixtures.....	17, 510	22, 577
Petroleum products.....	37, 259	79, 932
Planing-mill products.....		19, 885
Plumbing supplies.....	47, 545	33, 437
Pumps and pumping equipment.....	10, 319	39, 111
Refrigerating equipment.....		15, 843
Roofing materials.....	48, 584	4, 199
Sand and gravel.....	44, 874	64, 989
Sheet-metal products, not elsewhere classified.....	10, 767	28, 502
Steel-works and rolling-mill products, not elsewhere classified.....	462, 696	130, 974
Structural and reinforcing steel.....		2, 111, 650
Tools, other than machine tools.....	2, 966	4, 910
Wall plaster, wall board, and insulating board.....	47, 689	3, 454
Waterproofing materials.....		4, 997
Wire products, not elsewhere classified.....	7, 200	23, 586
Other.....	141, 470	47, 218

Purchase orders were placed during the month ending November 15 for materials to cost over \$3,300,000. More than two-thirds of this amount was accounted for by structural and reinforcing steel orders. Total material orders to date on this program have an aggregate of over \$5,000,000.

### *Wage-Rate Changes in American Industries*

#### *Manufacturing Industries*

Table 39 presents information concerning wage-rate adjustments occurring between October 15 and November 15, 1934, as shown by reports received from 25,507 manufacturing establishments employing 3,554,573 workers in November.

Seventy establishments in 30 industries reported wage-rate increases averaging 7.7 percent and affecting 5,475 employees. One establishment each in seven industries reported decreases which averaged 10.9 percent and affected 123 workers.

Four establishments in the paper and pulp industry gave an average increase of 5 percent to 1,160 workers. Ten newspaper establishments reported an average increase of 8.2 percent affecting 1,034 employees. One women's clothing manufacturing establishment gave an increase of 7.5 percent to 669 workers. Eight foundry and machine-shop establishments gave an average increase of 5 percent to 427 employees. The increases in each of the remaining industries affected 371 employees or less.

**Table 39.—Wage-Rate Changes in Manufacturing Industries During Month Ending Nov. 15, 1934**

Industry	Estab-lish-ments reporting	Total number of em-ployees	Number of establish-ments reporting—			Number of employees having—		
			No wage-rate changes	Wage-rate in-creases	Wage-rate de-creases	No wage-rate changes	Wage-rate in-creases	Wage-rate de-creases
All manufacturing industries.....	25,507	3,554,573	25,430	70	7	3,548,975	5,475	123
Percentage of total.....	100.0	100.0	99.7	0.3	(1)	99.8	0.2	(1)
Iron and steel and their products, not including machinery:								
Blast furnaces, steel works and rolling mills.....	238	247,535	238			247,535		
Bolts, nuts, washers, and rivets.....	59	8,726	59			8,726		
Cast-iron pipe.....	54	9,353	54			9,353		
Cutlery (not including silver and plated cutlery) and edge tools.....	168	13,950	164	4		13,843	107	
Forgings, iron and steel.....	96	9,540	95	1		9,453	87	
Hardware.....	110	24,987	109	1		24,979	8	
Plumbers' supplies.....	86	9,500	85	1		9,495	5	
Steam and hot-water heating apparatus and steam fittings.....	95	21,426	94	1		21,415	11	
Stoves.....	210	25,014	210			25,014		
Structural and ornamental metal work.....	297	20,024	295	2		19,984	40	
Tin cans and other tinware.....	75	10,966	75			10,966		
Tools (not including edge tools, machine tools, files, and saws).....	139	10,309	137	1	1	10,302	3	4
Wirework.....	108	10,843	108			10,843		
Machinery, not including transportation equipment:								
Agricultural implements.....	84	21,970	84			21,970		
Cash registers, adding machines, and calculating machines.....	30	16,859	30			16,859		
Electrical machinery, apparatus, and supplies.....	409	123,103	408	1		123,076	27	
Engines, turbines, tractors, and water wheels.....	108	35,907	108			35,907		
Foundry and machine-shop products.....	1,666	144,682	1,653	8		144,255	427	
Machine tools.....	214	22,310	214			22,310		
Radios and phonographs.....	53	38,376	58			38,376		
Textile machinery and parts.....	185	16,861	184	1		16,850		11
Typewriters and parts.....	14	15,796	14			15,796		
Transportation equipment:								
Aircraft.....	33	3,989	33			3,989		
Automobiles.....	358	226,493	358			226,493		
Cars, electric- and steam-railroad.....	68	12,110	68			12,110		
Locomotives.....	11	4,759	11			4,759		
Shipbuilding.....	114	31,809	114			31,809		
Railroad repair shops:								
Electric railroad.....	358	18,752	354	4		18,490	262	
Steam railroad.....	582	73,453	582			73,453		
Nonferrous metals and their products:								
Aluminum manufactures.....	35	6,971	34	1		6,921	50	
Brass, bronze, and copper products.....	304	39,306	304			39,306		
Clocks and watches and time-recording devices.....	28	11,529	28			11,529		
Jewelry.....	175	10,973	173	2		10,952	21	
Lighting equipment.....	75	3,844	75			3,844		
Silverware and plated ware.....	68	9,548	68			9,548		
Smelting and refining—copper, lead, and zinc.....	41	13,692	41			13,692		
Stamped and enameled ware.....	220	23,565	220			23,565		
Lumber and allied products:								
Furniture.....	593	56,002	587	5	1	55,847	109	46
Lumber:								
Millwork.....	653	26,968	653			26,968		
Sawmills.....	674	74,712	674			74,712		
Turpentine and rosin.....	34	2,565	34			2,565		

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

**Table 39.—Wage-Rate Changes in Manufacturing Industries During Month Ending Nov. 15, 1934—Continued**

Industry	Estab- lish- ments report- ing	Total number of em- ployees	Number of establish- ments reporting—			Number of employees having—		
			No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases
Stone, clay, and glass products:								
Brick, tile, and terra cotta.....	544	19,881	543	1	-----	19,691	190	-----
Cement.....	140	17,989	140	-----	-----	17,989	-----	-----
Glass.....	178	50,474	178	-----	-----	50,474	-----	-----
Marble, granite, slate, and other products.....	263	5,105	263	-----	-----	5,105	-----	-----
Pottery.....	127	19,819	126	1	-----	19,795	24	-----
Textiles and their products:								
Fabrics:								
Carpets and rugs.....	33	15,975	33	-----	-----	15,975	-----	-----
Cotton goods.....	687	277,781	687	-----	-----	277,781	-----	-----
Cotton small wares.....	125	10,458	125	-----	-----	10,458	-----	-----
Dyeing and finishing textiles.....	161	34,400	161	-----	-----	34,400	-----	-----
Hats, fur-felt.....	55	7,347	55	-----	-----	7,347	-----	-----
Knit goods.....	488	122,112	487	1	-----	122,099	13	-----
Silk and rayon goods.....	279	48,544	279	-----	-----	48,544	-----	-----
Woolen and worsted goods.....	524	115,878	521	2	1	115,673	172	33
Wearing apparel:								
Clothing, men's.....	1,551	108,665	1,551	-----	-----	108,665	-----	-----
Clothing, women's.....	775	42,589	774	1	-----	41,920	669	-----
Corsets and allied garments.....	37	6,057	37	-----	-----	6,057	-----	-----
Men's furnishings.....	85	8,262	85	-----	-----	8,262	-----	-----
Millinery.....	148	7,587	148	-----	-----	7,587	-----	-----
Shirts and collars.....	165	25,315	165	-----	-----	25,315	-----	-----
Leather and its manufactures:								
Boots and shoes.....	356	107,642	356	-----	-----	107,642	-----	-----
Leather.....	175	33,736	174	1	-----	33,365	371	-----
Food and kindred products:								
Baking.....	1,136	68,542	1,134	2	-----	68,530	12	-----
Beverages.....	561	26,858	559	1	1	26,809	39	10
Butter.....	328	4,640	328	-----	-----	4,640	-----	-----
Canning and preserving.....	753	53,498	748	5	-----	53,390	108	-----
Confectionery.....	334	44,612	333	1	-----	44,545	67	-----
Flour.....	421	17,125	419	2	-----	17,041	84	-----
Ice cream.....	379	9,232	379	-----	-----	9,232	-----	-----
Slaughtering and meat pack- ing.....	307	118,519	305	2	-----	118,199	320	-----
Sugar, beet.....	70	18,992	70	-----	-----	18,992	-----	-----
Sugar refining, cane.....	16	10,710	16	-----	-----	10,710	-----	-----
Tobacco manufactures:								
Chewing and smoking to- bacco and snuff.....	40	10,175	40	-----	-----	10,175	-----	-----
Cigars and cigarettes.....	239	51,570	239	-----	-----	51,570	-----	-----
Paper and printing:								
Boxes, paper.....	733	37,985	733	-----	-----	37,985	-----	-----
Paper and pulp.....	459	110,408	455	4	-----	109,248	1,160	-----
Printing and publishing:								
Book and job.....	1,538	63,586	1,535	2	1	63,557	19	10
Newspapers and period- icals.....	577	53,859	567	10	-----	52,825	1,034	-----
Chemicals and allied products, and petroleum refining:								
Other than petroleum refin- ing:								
Chemicals.....	122	25,309	122	-----	-----	25,309	-----	-----
Cottonseed—oil, cake, and meal.....	100	5,622	100	-----	-----	5,622	-----	-----
Druggists' preparations.....	74	9,430	73	1	-----	9,416	14	-----
Explosives.....	34	4,567	34	-----	-----	4,567	-----	-----
Fertilizers.....	301	10,792	301	-----	-----	10,792	-----	-----
Paints and varnishes.....	643	18,276	643	-----	-----	18,276	-----	-----
Rayon and allied prod- ucts.....	30	46,211	30	-----	-----	46,211	-----	-----
Soap.....	111	17,037	111	-----	-----	17,037	-----	-----
Petroleum refining.....	147	41,452	145	1	1	41,421	22	9
Rubber products:								
Rubber boots and shoes.....	11	17,823	11	-----	-----	17,823	-----	-----
Rubber goods, other than boots, shoes, tires, and in- ner tubes.....	186	23,929	186	-----	-----	23,929	-----	-----
Rubber tires and inner tubes.....	34	39,121	34	-----	-----	39,121	-----	-----

## Nonmanufacturing Industries

IN TABLE 40 are shown data relating to changes in wage rates reported to the Bureau by cooperating establishments in 17 non-manufacturing industries for the period from October 15 to November 15, 1934.

Establishments in 9 industries reported wage-rate increases. Of these, 49 retail trade establishments gave wage-rate increases averaging 6 percent and affecting 571 workers, while 6 establishments in the electric-railroad and motor-bus operation and maintenance industry reported an average 5 percent increase to 562 employees. The number of workers affected by increases in the remaining 7 industries ranged from 8 to 355 and totaled 909.

Eleven establishments in 4 industries reported wage-rate decreases affecting 122 employees.

Table 40.—Wage-Rate Changes in Nonmanufacturing Industries During Month Ending Nov. 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	84,294	160	—	—	84,294	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Bituminous coal mining.....	1,462	249,114	1,462	—	—	249,114	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Metalliferous mining.....	279	29,012	279	—	—	29,012	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Quarrying and nonmetallic mining.....	1,126	32,959	1,126	—	—	32,959	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Crude-petroleum producing.....	237	24,808	235	2	—	24,527	281	—
Percentage of total.....	100.0	100.0	99.2	.8	—	98.9	1.1	—
Telephone and telegraph.....	8,220	260,581	8,220	—	—	260,581	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Electric light and power and manu- factured gas.....	2,706	240,276	2,670	36	—	239,921	355	—
Percentage of total.....	100.0	100.0	98.7	1.3	—	99.9	.1	—
Electric-railroad and motor-bus op- eration and maintenance.....	537	132,174	531	6	—	131,612	562	—
Percentage of total.....	100.0	100.0	98.9	1.1	—	99.6	.4	—
Wholesale trade.....	16,872	300,297	16,844	24	4	300,082	174	41
Percentage of total.....	100.0	100.0	99.8	.1	(1)	99.9	.1	(1)
Retail trade.....	61,578	948,497	61,524	49	5	947,886	571	40
Percentage of total.....	100.0	100.0	99.9	.1	(1)	99.9	.1	(1)
Hotels.....	2,448	139,762	2,448	—	—	139,762	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Laundries.....	1,318	69,344	1,318	1	1	69,267	55	22
Percentage of total.....	100.0	100.0	99.8	.1	.1	99.9	.1	(1)
Dyeing and cleaning.....	677	15,705	675	1	1	15,681	5	19
Percentage of total.....	100.0	100.0	99.7	.1	.1	99.8	(1)	.1
Banks.....	3,049	98,118	3,046	3	—	98,087	31	—
Percentage of total.....	100.0	100.0	99.9	.1	—	100.0	(1)	—
Brokerage.....	401	11,500	401	—	—	11,500	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Insurance.....	1,091	69,611	1,091	—	—	69,611	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Real estate.....	926	21,561	924	2	—	21,553	8	—
Percentage of total.....	100.0	100.0	99.8	.2	—	100.0	(1)	—

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