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TREND OF EMPLOYMENT

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TREND OF EMPLOYMENT

Trend of Employment, October 1934

THE 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

Factory employment increased 3.8 percent from September to October and factory pay rolls increased 4.8 percent over the month interval. These increases reflected, to a large extent, the settlement of labor difficulties in textile plants. Altogether 50 manufacturing industries reported gains in employment from September to October. Sixty of the ninety industries surveyed reported gains in pay rolls.

Unusual conditions affecting employment, which prevailed in October, were: The settlement of strikes (mentioned above) in the woolen and worsted goods, cotton goods, silk and rayon goods, dyeing and finishing textiles, cotton small wares, and knit-goods industries; the completion of car-building (electric and steam railroad) orders financed through P. W. A. loans; and the falling off in the slaughtering of drought cattle.

The general indexes of employment and pay rolls for October 1934 are 78.7 and 60.8, respectively. A comparison of these indexes with those of October 1933 shows a loss over the year interval of 1.1 percent in employment and a gain of 2.4 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 October from 25,508 establishments employing 3,639,095 workers whose weekly earnings were \$68,834,960 during the pay period ending nearest October 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 largest percentage gains in both employment and pay rolls from September to October were seasonal increases in the beet-sugar refining industry of 159.3 percent and 112.6 percent, respectively. The resumption of plant operation following the settlement of the strike in certain textile industries was reflected in the following gains in employment; woolen and worsted goods, 90.4 percent; cotton

goods, 81.9 percent; silk and rayon goods, 30.4 percent; dyeing and finishing textiles, 17.2 percent; cotton small wares, 15.5 percent; and knit goods, 8.8 percent. The increases in pay rolls in these industries were, in every instance, larger than the gains in employment. The increase of 11.4 percent in employment in the cottonseed oil-cake-meal industry was due to seasonal activity, as was the 3.8 percent gain in the confectionery industry. Other industries in which substantial gains in employment were reported were: Jewelry, 8.1 percent; agricultural implements, 7.6 percent; aluminum, 7.5 percent; soap, 7.2 percent; and men's furnishings, 5.6 percent. Increases in employment ranging from 4 to 4.8 percent were reported in the lighting equipment, druggists' preparations, pottery, smelting and refining, copper-lead-zinc, and millwork industries. In the remaining 30 industries in which employment increased over the month interval, the most pronounced gains were as follows: Stoves, 3.9 percent; iron and steel forgings, 3.8 percent; paper boxes and clocks, 3.7 percent each; plumbers' supplies, 3.3 percent; cane-sugar refining, 3.1 percent; and typewriters and furniture, 2.8 percent each.

In the 40 industries in which decreases in employment were reported from September to October, a substantial number of the declines were seasonal. The most pronounced of these seasonal decreases in employment were as follows: Canning and preserving, 32.8 percent; ice cream, 10.6 percent; fur-felt hats, 9.9 percent; Millinery, 9.5 percent; tin cans, 7.1 percent; marble-slate-granite, 7.7 percent; automobiles, 7.3 percent; cement, 6.1 percent; beverages, 5.6 percent; fertilizer, 3.7 percent; boots and shoes, 3.7 percent; and men's clothing, 3 percent. Employment in the steam- and electric-car building industry decreased 18.4 percent due primarily to the completion of orders financed through P. W. A. loans. Employment in slaughtering and meat packing decreased 3 percent due to the falling off in the slaughtering of drought cattle. Establishments in the aircraft industry reported a net decline of 10.5 percent in employment from September to October. Other declines in employment in industries of major importance were steam-railroad repair shops, 3.4 percent; structural ironwork, 2.7 percent; glass, 1.4 percent; chemicals and electrical machinery, 1.3 percent each; machine tools, 0.8 percent; and saw-mills and foundries, 0.6 percent each.

Comparing the level of employment and pay rolls in the 90 separate industries in October 1934 with October 1933, 40 industries showed increased employment over the year interval and 53 industries showed increased pay rolls.

Dividing the manufacturing industries into "durable" and "non-durable" goods groups, the former group showed a decrease of 1.2 percent in employment from September to October and an increase of 1.5 percent in pay rolls. The latter group showed gains in employment

and pay rolls of 7.7 and 7.4 percent, respectively. The October employment and pay-roll indexes were 63.4 and 46.1, respectively, for the "durable" goods group and 95.1 and 79.6, 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 gained 1 percent from September to October and 3.6 percent from October 1933 to October 1934. Gains over the month interval were shown in 63 of the 90 individual industries surveyed and ranged from 0.2 to 18.8 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 September and October 1934 showed an increase over the month interval for all manufacturing industries combined of 2.7 percent in average hours worked per week and no change in average hourly earnings. Fifty-eight 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, which follows, are shown indexes of employment and pay rolls in October 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 September 1934 and October 1933. Per capita weekly earnings in October 1934, together with percentage changes from the previous month and from October 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 October 1934 and average hourly earnings, together with percentage changes from September 1934 and October 1933, are likewise presented for manufacturing as a whole and for each industry for which man-hour data covering at least 20 percent of the total employees in the industry were received.

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

Industry	Employment			Pay roll			Per capita weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	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	Octo-ber 1933		Sep-tem-ber 1934	Octo-ber 1933		Sep-tem-ber 1934	Octo-ber 1933		Sep-tem-ber 1934	Octo-ber 1933		Sep-tem-ber 1934	Octo-ber 1933
All industries ⁴	78.7	+3.8	-1.1	60.8	+4.8	+2.4	\$18.92	+1.0	+3.6	34.5	+2.7	-3.3	Cents ² 55.4	(³)	+7.7
Iron and steel and their products, not including machinery.	66.0	(³)	-5.4	42.8	+4.1	-10.1									
Blast furnaces, steel works, and rolling mills.....	65.4	+1	-6.8	39.2	+4.9	-18.3	16.30	+4.8	-12.4	25.1	+4.6	-23.9	64.8	-0.2	+14.6
Bolts, nuts, washers, and rivets.....	72.5	+1.1	-13.9	43.9	+10.9	-19.4	15.41	+9.8	-6.1	29.2	+15.0	-11.2	52.8	-4.3	+5.4
Cast-iron pipe.....	50.8	-2.4	+7.4	27.5	-2.5	+18.5	14.27	-1	+10.4	29.2	-7	+15.2	48.3	+6	-1.1
Cutlery (not including silver and plated cutlery), and edge tools.....	78.1	+1.9	-5	55.7	+4.7	+2.8	19.50	+2.7	+3.2	36.8	+2.8	-2.5	53.1	(³)	+8.4
Forgings, iron and steel.....	49.3	+3.8	+4.4	31.4	+7.7	-6	18.35	+3.7	-4.4	30.8	+4.1	-13.7	59.5	-3	+6.9
Hardware.....	45.8	-1	-21.3	30.6	+5.1	-21.7	16.01	+5.1	-3	31.4	+4.3	-9.7	60.5	+4	+10.7
Plumbers' supplies.....	61.6	+3.3	-11.4	36.2	+16.7	-3.2	18.36	+13.0	+9.4	33.4	+12.8	+1.2	54.8	+2	+6.6
Steam and hot-water heating apparatus and steam fittings.....	49.6	+1.7	-10.5	32.4	+5.8	+5.5	21.18	+4.0	+18.2	35.1	+2.9	-1	60.4	+7	+10.2
Stoves.....	95.2	+3.9	-1.0	72.7	+10.5	+5.1	20.96	+6.3	+6.5	37.9	+6.2	-3.9	55.0	+4	+9.0
Structural and ornamental metalwork.....	57.0	-2.7	+4.4	40.6	+2	+13.1	19.92	+3.0	+8.1	34.0	+2.7	-1.2	58.7	+2	+2.6
Tin cans and other tinware.....	93.9	-7.1	+10.5	82.5	-14.2	+9.1	18.36	-7.6	-1.4	35.0	-7.7	-4.5	52.4	+8	+3.9
Tools (not including edge tools, machine tools, files, and saws).....	57.7	+8	-1.9	47.4	+7	+5.1	18.99	-2	+7.2	34.5	-2.0	-5.3	54.9	+2.2	+14.5
Wirework.....	121.1	+7	-2.1	95.4	+3.8	-3	18.05	+3.0	+1.5	32.7	+3.8	+9.0	54.6	-7	+6.1
Machinery, not including transportation equipment ⁴.	77.9	-1	+6.7	57.1	+2.7	+13.7									
Agricultural implements.....	72.9	+7.6	+39.1	74.4	+11.6	+57.0	21.75	+3.6	+12.2	37.5	+3.0	+2.2	58.1	+5	+12.3
Cash registers, adding machines, and calculating machines.....	106.7	+7	+14.9	78.7	-7.5	+15.1	24.32	-8.1	-1	35.2	-8.3	-7.5	69.5	-6	+6.8
Electrical machinery, apparatus, and supplies.....	65.0	-1.3	+7.3	49.3	+2.8	+18.8	21.21	+4.1	+10.5	34.0	+4.9	+2.4	61.8	+2	+8.9
Engines, turbines, tractors, and water wheels.....	72.3	+1.7	+35.4	48.4	+5.0	+52.7	24.42	+3.2	+13.1	37.9	+3.0	+8.0	64.4	+2	+4.8
Foundry and machine-shop products.....	66.4	-6	+4.4	47.6	+2.1	+9.9	20.14	+2.7	+5.7	33.9	+3.4	-4	59.5	-5	+7.8
Machine tools.....	69.1	-8	+28.0	50.3	-1.1	+27.0	21.83	-3	-6	35.7	-6	-6.1	61.0	(³)	+4.8
Radio and phonographs.....	223.6	+1.7	-6.1	138.8	+9.3	-2.8	19.87	+7.6	+3.7	35.9	+9.1	-1.1	52.7	-1.1	+9.9
Textile machinery and parts.....	60.8	-2.3	-21.9	44.8	-1.3	-31.2	20.37	+1.0	-11.1	33.0	-6	-13.3	61.8	+1.6	+2.4
Typewriters and parts ⁴	104.1	+2.8	+34.1	92.5	-(³)	+53.4	22.05	-2.8	+14.0	38.5	-3.7	+2	57.3	+1.1	+14.7

Transportation equipment.....	68.4	-7.3	+15.7	47.2	-9.1	+9.0													
Aircraft.....	265.0	-10.5	-17.2	234.9	-8.1	-15.6	25.14	+2.7	+1.9	38.5	-3	+7	66.6	+2.6	+5.4				
Automobiles.....	74.9	-7.3	+16.7	49.1	-9.6	+6.5	21.94	-2.5	-8.8	34.7	+8.8	-14.2	73.2	+13.3	+29.6				
Cars, electric- and steam-railroad.....	34.1	-18.4	+22.2	31.6	-13.9	+30.6	19.80	+5.7	+6.9	32.6	+6.2	+2.3	61.0	-7	+4.3				
Locomotives.....	38.0	+7	+68.1	17.0	-2.7	+100.0	21.91	-3.3	+18.3	35.2	-1.4	+16.5	62.2	-2.0	+2.5				
Shipbuilding.....	71.2	-2	+7.7	56.2	-1.4	+18.3	23.07	-1.2	+10.2	30.1	(?)	-2.3	77.1	+4	+14.9				
Railroad repair shops.....	53.9	-3.2	-2.0	46.9	+2.9	-4.1													
Electric railroad.....	65.1	-8	-1.1	57.3	+7	+5.7	26.35	+1.5	+6.6	41.4	+7	-1.2	62.9	+5	+7.8				
Steam railroad.....	53.1	-3.4	-1.8	46.2	+2.9	-4.9	24.21	+6.6	-2.8	38.5	+7.5	-3.2	63.0	-3	+1.9				
Nonferrous metals and their products.....	75.1	+2.6	-7	57.5	+6.5	+6.9													
Aluminum manufactures.....	61.8	+7.5	-25.7	51.3	+24.0	-17.5	19.06	+15.3	+11.1	38.0	+6.1	+27.4	53.3	+2	+13.0				
Brass, bronze, and copper products.....	71.0	+2	-8.4	49.5	+1.6	-5.7	19.59	+1.3	+3.3	33.9	+9	-4.2	57.9	+1.0	+10.5				
Clocks and watches and time-recording devices.....	75.1	+3.7	+17.5	61.8	+4.4	+19.3	19.10	+6	+1.5	39.7	+1.3	-7.5	48.1	-6	+6.7				
Jewelry.....	79.6	+8.1	+14.4	65.4	+13.5	+20.4	20.09	+5.0	+5.4	38.8	+4.9	-1.3	50.5	-4	+6.4				
Lighting equipment.....	67.1	+4.1	+8.9	56.3	+8.3	+20.6	19.76	+3.9	+10.8	38.1	+3.5	+2.5	52.8	+4	+7.9				
Silverware and plated ware.....	70.6	+1.5	+4.0	53.8	+3.3	+6.3	20.68	+1.8	+2.1	36.7	+1.9	-2.9	56.1	-4	+6.5				
Smelting and refining—copper, lead, and zinc.....	73.1	+4.7	+14.2	45.9	+7.6	+24.1	20.56	+2.7	+8.6	37.6	+3.6	+3.0	54.4	-7	+7.2				
Stamped and enameled ware.....	82.9	-1.8	-11.1	70.4	+5.5	+5.7	17.90	+7.4	+19.0	35.3	+7.3	+11.4	50.7	+4	+11.1				
Lumber and allied products.....	49.6	+6	-10.1	35.2	+3.5	-7.6													
Furniture.....	66.8	+2.8	-14.9	47.5	+6.4	-13.6	16.61	+3.5	+1.2	36.8	+3.4	-6.2	44.3	-4	+5.8				
Lumber:																			
Millwork.....	36.3	+4.8	-6.2	24.1	+10.6	+2.6	16.01	+5.5	+9.7	36.0	+7.5	+5.7	44.7	-1.3	+3.1				
Sawmills.....	33.9	-6	-6.2	22.6	+1.2	-3.0	14.74	+1.8	+3.7	33.7	+1.5	-2.6	44.3	+7	+5.6				
Turpentine and rosin.....	89.3	-7.1	-14.1	45.1	-13.6	-6.6	11.89	-7.0	+8.4										
Stone, clay, and glass products.....	52.0	-1.7	+8	35.6	+2.6	+6.0													
Brick, tile, and terra cotta.....	29.9	-1.7	-6.0	16.9	+4.8	+13.4	14.64	+6.5	+19.5	32.1	+2.6	+1.2	44.1	+1.1	+15.1				
Cement.....	50.7	-6.1	+22.5	32.4	-4.5	+31.2	18.98	+1.8	+6.7	33.0	+1.9	+3.5	57.6	(?)	+6.9				
Glass.....	86.1	-1.4	+6.2	69.4	+3.0	+9.3	18.83	+4.4	+3.2	33.2	+3.1	-8	56.8	+5	+5.8				
Marble, granite, slate, and other products.....	29.7	-7.7	-24.4	18.6	-8.1	-25.3	20.32	-5	-1.4	31.1	+3	-5.6	66.0	-5	+10.2				
Pottery.....	69.2	+4.5	-6	46.3	+12.5	-1.7	17.29	+7.8	-1.3	33.7	+7.0	-15.4	50.4	+1.4	+15.7				
Textiles and their products.....	92.3	+26.3	-5.5	74.7	+29.9	-3.5													
Fabrics:																			
Carpets and rugs.....	89.7	+44.7	-7.2	73.1	+48.9	-5.7													
Cotton goods.....	63.4	-1.8	-19.8	46.3	-3	-28.9	16.72	+1.5	-11.5	29.1	-3	-23.7	56.7	+4	+18.3				
Cotton small wares.....	94.5	+81.9	-6.2	78.6	+94.7	-2.7	13.21	+7.1	+3.8	34.9	+5.4	+9	38.0	+1.9	+3.4				
Dyeing and finishing textiles.....	82.3	+15.5	-5.7	69.8	+25.0	-9	16.38	+8.3	+5.4	36.2	+12.8	+3.1	45.2	-2.2	+4.9				
Hats, fur-felt.....	106.7	+17.2	+21.9	83.0	+9.8	+21.7	17.81	-6.3	(?)	34.2	-3.4	-7.1	52.2	-2.4	+6.6				
Knit goods.....	75.6	-9.9	-9.7	60.5	-23.4	-27.8	17.97	-14.9	-20.2	24.5	-11.6	-10.0	70.1	-1.3	+7.5				
Silk and rayon goods.....	109.5	+8.8	-4.1	107.1	+17.7	+8	16.64	+8.2	+5.2	34.9	+7.1	-1.1	47.9	+1.1	+7.4				
Woolen and worsted goods.....	75.9	+30.4	-4.2	63.7	+55.0	+3.7	15.47	+18.8	+8.0	33.8	+19.9	+1.5	45.7	-1.9	+6.7				
Wearing apparel.....	68.1	+90.4	-24.9	46.8	+92.7	-29.6	15.59	+1.2	-6.3	31.5	+2.3	-8.9	49.6	-8	+3.8				
Clothing, men's.....	94.4	-1.2	-1.5	73.4	+3.5	+1.0													
Clothing, women's.....	86.8	-3.0	-1.1	62.6	+6	(?)	16.90	+3.7	+1.2	27.4	+3.4	-6.6	60.7	-2	+10.4				
Corsets and allied garments.....	121.7	+6	+2.6	94.8	+11.3	+3.9	19.52	+10.6	+1.5										
Men's furnishings.....	89.2	+7	+5.3	79.4	-2.0	+5.4	15.43	-2.7	+6	31.0	-6.1	-11.0	47.4	(?)	+3.3				
Millinery.....	107.0	+5.6	-2.0	78.6	+16.5	-3.0	14.54	+10.3	-1.0	33.6	+6.3	+6.5	40.7	+1.5	+15.4				
Shirts and collars.....	68.8	-9.5	-11.2	54.8	-27.4	-7.1	19.17	-19.8	+5.0										
Leather and its manufactures.....	103.4	-1	-8.9	99.8	-7.1	-11.1	13.24	+7.2	+7.8	33.6	+5.3	+5.1	38.6	(?)	+5.8				
Boots and shoes.....	83.3	-2.8	-6.3	64.3	-7.1	-11.1													
Leather.....	82.3	-3.7	-6.8	60.4	-10.7	-13.8	15.48	-7.3	-7.6	30.7	-7.5	-20.1	50.9	-1.0	+6.9				
	87.8	+1.1	-3.9	76.8	+4.4	-2.5	20.32	+3.3	+1.6	36.0	+2.0	-3.3	55.6	+1.5	+7.3				

See footnotes at end of table.

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

Industry	Employment			Pay roll			Per capita weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	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	Octo-ber 1933		Sep-tem-ber 1934	Octo-ber 1933		Sep-tem-ber 1934	Octo-ber 1933		Sep-tem-ber 1934	Octo-ber 1933		Sep-tem-ber 1934	Octo-ber 1933
Food and kindred products	119.5	-6.0	+3.1	103.3	-5.5	+13.4							<i>Cents</i>		
Baking	116.1	+3	+3.4	98.3	-1.3	+8.5	21.37	-1.6	+3.1	39.4	-2.0	-3.4	53.9	+0.4	+8.3
Beverages	166.8	-5.6	+10.8	156.2	-6.5	+18.4	28.01	-1.0	+6.8	37.7	-8	-7.1	73.8	-1	+16.8
Butter	77.7	-4.2	-5.2	58.3	-3.4	-8.5	20.24	+8	-3.4						
Canning and preserving	137.3	-32.8	-13.4	134.4	-32.6	+1.4	12.23	+2	+35.3	32.9	-2.7	-6	36.8	+3.4	+13.1
Confectionery	96.6	+3.8	-3.0	84.1	+1.9	+4.6	16.14	-1.8	+7.8	37.4	-8	+3.5	42.4	+5	+6.0
Flour	80.5	+3	+7.8	68.5	-2	+14.4	21.64	-4	+6.3	39.4	(?)	+1.2	54.8	-2	+5.8
Ice cream	69.1	-10.6	+1.6	54.5	-9.8	+3.6	25.17	+9	+2.6	43.3	-5.3	-5	57.1	+5.9	+5
Slaughtering and meat packing	117.6	-3.0	+15.9	107.0	-2.0	+37.7	22.82	+1.1	+19.0	41.0	-4.9	+4.6	54.8	+6.0	+14.0
Sugar, beet	199.5	+159.3	-11.6	124.3	+112.6	-18.8	16.06	-18.0	-8.2	38.0	-9.3	-26.8	43.2	-12.4	+15.4
Sugar refining, cane	90.9	+3.1	+4	74.0	+2.2	+6.2	20.99	-8	+5.7	36.3	-2.9	+8	54.8	+9	+4.0
Tobacco manufactures	65.3	+9	+1.1	49.0	-2.6	-4.3									
Chewing and smoking tobacco and snuff	73.5	-3	-6.5	63.9	-7.0	-7.3	13.26	-6.6	-8	32.9	-5.2	-9.4	40.4	-1.7	+7.7
Cigars and cigarettes	64.2	+1.2	+2.1	47.1	-1.6	-3.9	13.10	-2.8	-6.0	35.1	-3.0	-7.5	37.2	-8	+1.9
Paper and printing	96.4	+1.2	+2.0	82.7	+3.0	+3.8									
Boxes, paper	89.7	+3.7	-2.1	82.6	+6.2	+9.3	18.19	+2.3	+11.8	37.0	+3.1	+2.4	49.0	-6	+10.2
Paper and pulp	106.6	+1.1	+2.4	83.2	+4.6	+7.4	19.61	+3.5	+5.0	37.2	+3.3	-4.0	52.5	(?)	+11.3
Printing and publishing:															
Book and job	87.0	+8	+4.9	73.7	+1.9	+12.3	26.29	+1.1	+7.2	35.7	+3	+3.9	72.8	+7	+4.4
Newspapers and periodicals	99.2	+7	+1.2	89.9	+2.0	+6.5	32.97	+1.3	+5.4	37.1	(?)	-1.2	84.9	+1.4	+6.8
Chemicals and allied products, and petroleum refining	109.5	+1.8	+4	91.4	+1.7	+6.9									
Other than petroleum refining	108.7	+1.0	-5	89.4	+1.7	+6.0									
Chemicals	106.6	-1.3	+3.3	92.0	-1	+7.4	24.09	+1.2	+4.1	39.1	+3.4	-2	61.9	-3.1	+3.6
Cottonseed—oil, cake, and meal	109.3	+11.4	-19.0	101.0	+9.8	-15.8	10.38	-1.3	+4.5	47.7	+12.5	+15.6	21.9	-12.4	-11.4
Druggists' preparations	107.3	+4.2	+7.5	96.7	+4.8	+6.3	19.59	+6	-1.0	39.2	+1.8	+3.4	50.2	-1.6	+1.3
Explosives	91.8	-1.5	-9	72.5	+4.2	+5.2	22.38	+5.8	+6.4	34.6	+4.5	-3.0	62.1	-5	+4.4
Fertilizers	91.5	-3.7	+5.5	73.5	-6.4	+7.5	12.46	-2.9	+7.0	34.2	+6	-9.7	36.3	-3.2	+19.5

Paints and varnishes.....	99.6	+ .8	+6.0	78.1	+3.0	+10.5	21.55	+2.2	+4.3	37.9	+2.7	-3.1	56.9	- .5	+6.7
Rayon and allied products.....	307.0	+ .5	-7.3	217.2	+ .8	- .5	18.79	+ .2	+7.2	36.4	(²)	-4.1	51.6	+ .2	+11.8
Soap.....	105.7	+7.2	+3.9	94.6	+8.4	+16.6	21.83	+1.1	+12.0	36.6	-5.7	-5.1	58.9	+7.9	+16.8
Petroleum refining.....	112.9	+ (6)	+3.8	97.9	+1.7	+9.5	27.18	+1.6	+5.6	34.9	+2.9	-1.8	75.7	- .9	+9.2
Rubber products	77.4	-1.3	-12.7	55.3	+3.9	-7.3									
Rubber boots and shoes.....	54.7	-3.1	-14.4	50.3	- .3	-14.2	17.88	+2.9	+3.5	33.4	+2.1	-2.3	50.5	+3.3	+6.0
Rubber goods, other than boots, shoes, tires, and inner tubes.....	113.1	- .4	-18.9	88.1	+5.2	-14.6	18.08	+5.6	+5.4	35.2	+6.0	-2.7	51.1	- .4	+7.0
Rubber tires and inner tubes.....	69.4	-1.5	-7.1	49.6	+4.3	- .2	22.76	+6.0	+7.7	28.6	+2.1	-6.6	79.9	+ .9	+15.3

¹ 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.

² Weighted.

³ No change.

⁴ Data for July, August, and September revised. Corrected tabulation follows.

⁵ Less than $\frac{1}{10}$ of 1 percent.

Industry and month	Employment			Pay roll			Per capita weekly earnings			Average hours worked per week			Average hourly earnings		
	Index	Percentage change from—		Index	Percentage change from—		Average	Percentage change from—		Average	Percentage change from—		Average	Percentage change from—	
		Pre- vious month	Same month 1933		Pre- vious month	Same month 1933		Pre- vious month	Same month 1933		Pre- vious month	Same month 1933		Pre- vious month	Same month 1933
Machinery, not including transportation equipment:															
July.....	79.0	-2.2	+36.0	58.5	-5.0	+49.6									
August.....	78.9	- .1	+22.3	58.1	- .7	+33.6									
September.....	78.0	-1.1	+11.7	55.6	-4.3	+19.3									
Typewriters and parts:															
July.....	96.8	+50.1	+75.4	84.8	+58.7	+136.2	\$21.85	+5.8	+35.0	38.9	+4.0	-0.8	56.1	+1.4	+33.4
August.....	99.7	+3.0	+49.9	86.6	+2.1	+77.1	21.66	- .9	+13.3	38.4	-1.3	+2.8	56.4	+ .5	+14.6
September.....	101.3	+1.6	+39.1	92.5	+6.8	+70.7	22.78	+5.1	+22.7	40.0	+4.4	+9.3	56.9	+ .7	+12.9
All Industries:															
July.....	78.7	-2.8	+10.1	60.5	-6.6	+19.1	18.60	-3.9	+8.3	33.4	-4.3	-19.5	55.6	+ .9	+31.4
August.....	79.6	+1.0	+4.1	62.2	+2.8	+9.5	18.89	+1.7	+5.2	33.9	+1.8	-10.1	55.7	- .2	+15.7
September.....	75.8	-4.7	-5.2	58.0	-6.8	-1.9	18.55	-2.2	+3.5	33.3	-2.1	-6.7	55.9	+ .7	+9.4

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

IN THE following table are presented the estimated number of wage earners and weekly pay rolls in all manufacturing industries combined and in the 14 groups into which these manufacturing industries have been classified, for the years 1919 to 1933, inclusive, and for the first 10 months of 1934. These estimates have been computed by multiplying the weighting factors of the several groups of industries (number employed or weekly pay roll in the index base period 1923-25) by the Bureau's index numbers of employment or pay rolls (which have been adjusted to conform with census trends over the period 1919-31) and dividing by 100. Data are not available for all groups over the entire period shown. The totals for all manufacturing industries combined, however, have been adjusted to include all groups. The estimated total employment and weekly pay rolls for all manufacturing industries combined do not include the manufactured-gas industry (which is included in the Bureau's electric light and power and manufactured-gas industry) or the motion-picture industry.

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

Year and month	Total manu- facturing	Iron and steel and their products	Machinery, not includ- ing trans- portation equipment	Transpor- tation equipment	Railroad repair shops	Nonferrous metals and their prod- ucts
	Employment					
1919 average.....	8,983,900	858,600	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.....	8,285,400	834,900	897,800	495,100	428,900	(1)
1928.....	8,285,800	829,800	922,500	541,900	404,000	(1)
1929.....	8,785,600	881,000	1,105,700	583,200	398,200	(1)
1930.....	7,668,400	766,200	918,700	451,800	353,800	(1)
1931.....	6,484,300	598,400	687,000	373,800	309,000	209,000
1932.....	5,374,200	458,100	494,600	315,700	257,400	164,200
1933.....	5,778,400	503,400	517,100	305,600	250,600	175,200
1934: January.....	6,146,000	545,500	614,700	401,200	254,500	190,200
February.....	6,514,200	572,200	640,100	477,300	257,400	200,400
March.....	6,770,100	601,400	674,400	526,300	267,600	212,200
April.....	6,897,800	623,700	705,100	558,400	278,700	217,300
May.....	6,904,300	646,000	713,900	560,100	287,300	219,900
June.....	6,791,700	656,400	709,500	535,900	288,300	214,500
July.....	6,593,500	603,900	693,700	494,800	281,100	206,600
August.....	6,666,200	589,300	692,800	469,400	266,100	207,400
September.....	6,351,900	567,000	684,900	415,900	268,500	206,900
October.....	6,594,300	567,900	684,000	385,400	259,900	212,200

¹ Comparable data not available.

TABLE 2.—ESTIMATED NUMBER OF WAGE EARNERS AND WEEKLY WAGES IN ALL MANUFACTURING INDUSTRIES COMBINED AND IN INDUSTRY GROUPS—YEARLY AVERAGES 1919 TO 1933, INCLUSIVE, AND MONTHS, JANUARY TO OCTOBER 1934, INCLUSIVE—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, 394, 000	6, 185, 000	3, 826, 000
March.....	131, 852, 000	12, 650, 000	13, 199, 000	14, 546, 000	6, 578, 000	4, 163, 000
April.....	136, 962, 000	14, 006, 000	14, 311, 000	15, 871, 000	7, 188, 000	4, 317, 000
May.....	136, 575, 000	15, 115, 000	14, 713, 000	15, 148, 000	7, 297, 000	4, 441, 000
June.....	131, 839, 000	15, 436, 000	14, 571, 000	13, 444, 000	7, 297, 000	4, 243, 000
July.....	123, 011, 000	11, 737, 000	13, 838, 000	11, 258, 000	6, 931, 000	3, 928, 000
August.....	126, 603, 000	11, 219, 000	13, 744, 000	12, 033, 000	6, 578, 000	3, 890, 000
September.....	118, 089, 000	10, 134, 000	13, 152, 000	8, 934, 000	6, 185, 000	3, 958, 000
October.....	123, 734, 000	10, 554, 000	13, 507, 000	8, 125, 000	6, 361, 000	4, 214, 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	Entire 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, 900
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	685, 500	452, 800	1, 191, 100	277, 200
October.....	455, 500	182, 200	991, 700	447, 600	1, 503, 900	269, 500

¹ Comparable data not available.

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

Year and month	Lumber and allied products	Stone, clay, and glass products	Textiles and their products			Leather and its manufactures
			Fabrics	Wearing apparel	Entire 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	8,925,000	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	13,947,000	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	16,437,000	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	21,053,000	5,093,000
July.....	5,853,000	3,205,000	13,117,000	5,716,000	19,798,000	5,393,000
August.....	6,205,000	3,098,000	13,178,000	7,297,000	21,571,000	5,498,000
September.....	6,279,000	3,081,000	10,001,000	7,328,000	18,214,000	4,834,000
October.....	6,520,000	3,161,000	14,889,000	7,587,000	23,662,000	4,492,000

Year and month	Foods and kindred products	Tobacco manufactures	Paper and printing	Chemicals and allied products	Rubber products
Employment					
1919 average.....	733,600	157,000	510,100	(1)	(1)
1920.....	713,000	154,000	549,100	(1)	(1)
1921.....	626,400	149,900	467,100	(1)	(1)
1922.....	651,400	146,400	489,400	(1)	(1)
1923.....	681,900	146,300	527,400	342,700	137,800
1924.....	657,800	136,700	529,200	322,200	123,200
1925.....	664,400	132,100	537,100	334,200	141,800
1926.....	664,400	125,700	553,600	355,100	141,200
1927.....	679,400	129,300	553,500	346,700	142,000
1928.....	707,100	125,600	558,300	342,500	149,200
1929.....	753,500	116,100	591,500	384,800	149,100
1930.....	731,100	108,300	574,100	364,700	115,500
1931.....	650,500	99,700	511,800	316,800	99,200
1932.....	577,100	88,600	451,700	279,700	87,800
1933.....	631,000	82,700	458,400	315,400	99,300
1934: January.....	628,700	75,400	490,700	359,200	110,100
February.....	627,800	85,900	494,500	368,300	113,600
March.....	643,100	89,100	497,600	375,600	117,000
April.....	649,500	89,500	505,100	377,400	120,900
May.....	665,400	84,800	509,300	353,500	119,700
June.....	702,600	86,400	503,000	348,100	115,000
July.....	735,800	84,600	496,000	350,800	112,700
August.....	816,100	90,100	498,200	356,000	108,400
September.....	849,700	89,500	506,100	361,800	105,300
October.....	798,300	90,400	512,000	364,600	103,900

¹ Comparable data not available.

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

Year and month	Foods and kindred products	Tobacco manufactures	Paper and printing	Chemicals and allied products	Rubber products
	Weekly pay rolls				
1919.....	\$14, 879, 000	\$2, 386, 000	\$10, 873, 000	(1)	(1)
1920.....	16, 698, 000	2, 772, 000	14, 729, 000	(1)	(1)
1921.....	14, 333, 000	2, 325, 000	12, 259, 000	(1)	(1)
1922.....	14, 142, 000	2, 206, 000	12, 762, 000	(1)	(1)
1923.....	15, 296, 000	2, 317, 000	14, 304, 000	\$8, 499, 000	\$3, 500, 000
1924.....	15, 155, 000	2, 213, 000	14, 797, 000	8, 013, 000	3, 223, 000
1925.....	15, 268, 000	2, 147, 000	15, 506, 000	8, 444, 000	3, 676, 000
1926.....	15, 503, 000	2, 049, 000	16, 478, 000	9, 055, 000	3, 707, 000
1927.....	15, 838, 000	2, 025, 000	16, 501, 000	8, 978, 000	3, 810, 000
1928.....	16, 388, 000	1, 916, 000	16, 691, 000	8, 997, 000	4, 069, 000
1929.....	17, 344, 000	1, 819, 000	17, 771, 000	10, 068, 000	3, 986, 000
1930.....	16, 593, 000	1, 617, 000	17, 036, 000	9, 334, 000	2, 934, 000
1931.....	14, 173, 000	1, 336, 000	14, 461, 000	7, 643, 000	2, 165, 000
1932.....	11, 308, 000	1, 052, 000	11, 126, 000	5, 861, 000	1, 555, 000
1933.....	11, 604, 000	944, 000	10, 299, 000	6, 179, 000	1, 740, 000
1934: January.....	12, 301, 000	886, 000	11, 045, 000	7, 035, 000	2, 036, 000
February.....	12, 352, 000	1, 012, 000	11, 297, 000	7, 257, 000	2, 261, 000
March.....	12, 522, 000	1, 019, 000	11, 550, 000	7, 417, 000	2, 445, 000
April.....	12, 663, 000	1, 028, 000	11, 847, 000	7, 683, 000	2, 546, 000
May.....	13, 296, 000	1, 030, 000	11, 981, 000	7, 352, 000	2, 438, 000
June.....	14, 008, 000	1, 057, 000	11, 728, 000	7, 333, 000	2, 306, 000
July.....	14, 571, 000	1, 052, 000	11, 491, 000	7, 381, 000	2, 147, 000
August.....	16, 022, 000	1, 097, 000	11, 654, 000	7, 487, 000	2, 039, 000
September.....	16, 661, 000	1, 119, 000	11, 937, 000	7, 479, 000	1, 946, 000
October.....	15, 738, 000	1, 090, 000	12, 293, 000	7, 605, 000	2, 022, 000

¹ Comparable data not available.

Index Numbers of Employment and Pay Roll Totals in Manufacturing Industries

GENERAL index numbers of factory employment and pay rolls by months, from January 1919 to October 1934, inclusive, together with average indexes for each of the years from 1919 to 1933, inclusive, and for the 10-month period, January to October 1934, inclusive, based on the 3-year average, 1923–25, as 100, are shown in the following table. A chart of these indexes also follows.

EMPLOYMENT & PAY ROLLS *in the* MANUFACTURING INDUSTRIES

3 year average 1923-1925=100

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

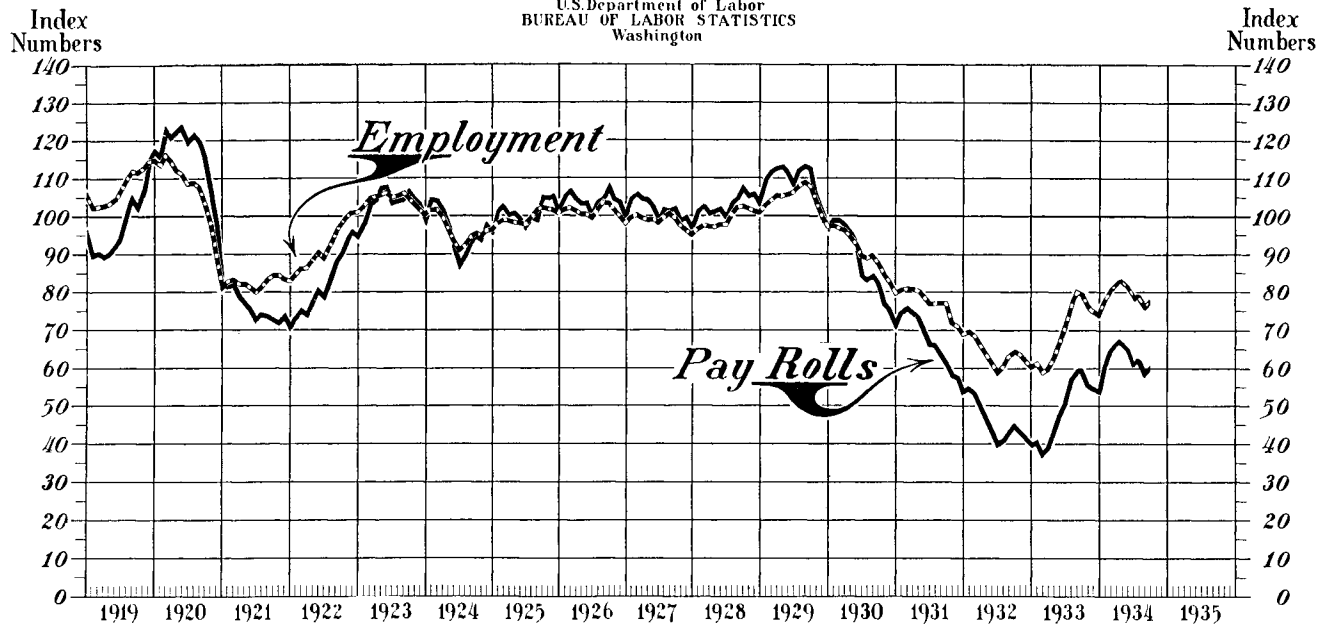


TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND PAY-ROLL TOTALS IN MANUFACTURING INDUSTRIES BY MONTHS—JANUARY 1919 TO OCTOBER 1934, INCLUSIVE

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

Month	Employment															
	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	105.3	114.9	81.0	82.5	100.7	100.2	96.3	100.5	98.2	95.0	100.8	97.3	79.6	68.7	60.2	73.3
February.....	102.0	113.7	82.6	84.6	102.5	101.5	98.1	101.5	99.7	96.5	102.9	97.4	80.3	69.5	61.1	77.7
March.....	102.4	116.0	83.2	85.9	104.6	101.7	98.8	102.1	100.2	97.6	104.1	96.9	80.7	68.4	58.8	80.8
April.....	102.5	114.5	82.1	85.8	105.0	99.9	98.7	101.4	99.6	97.1	105.3	96.3	80.7	66.1	59.9	82.3
May.....	103.1	112.0	81.9	87.9	105.3	96.8	98.1	100.4	99.1	97.0	105.3	94.8	80.1	63.4	62.6	82.4
June.....	104.3	111.1	81.0	89.8	106.0	93.8	98.0	100.3	99.1	97.8	105.6	92.9	78.4	61.2	66.9	81.0
July.....	106.9	108.5	79.8	88.2	104.9	91.0	97.8	99.4	98.1	97.7	106.1	89.5	77.0	58.9	71.5	78.7
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	102.6	107.7	87.7	74.4	64.4	79.6	78.7
November.....	112.6	97.4	84.2	99.0	103.2	94.8	101.8	101.4	97.4	101.7	103.6	84.6	71.8	63.4	76.2	-----
December.....	114.4	89.7	83.3	100.5	101.4	96.1	101.5	100.0	96.1	101.2	99.8	82.3	71.0	62.1	74.4	-----
Average....	107.2	106.2	82.3	90.6	104.1	96.5	99.4	101.2	98.9	95.9	104.8	91.5	77.4	64.1	69.0	79.0
Month	Pay rolls															
	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	95.3	117.2	82.8	69.6	94.6	98.8	95.4	100.9	98.4	96.0	102.3	95.9	70.0	53.5	39.5	54.0
February.....	89.6	115.5	81.3	72.4	97.9	104.1	100.8	105.0	104.4	101.2	109.3	98.8	74.3	54.6	40.2	60.6
March.....	90.0	123.7	81.7	74.9	102.5	104.1	102.4	106.5	105.7	102.5	111.6	98.8	75.6	53.1	37.1	64.8
April.....	89.2	120.9	79.0	73.8	103.8	101.8	100.0	104.4	104.5	100.5	112.6	97.7	74.4	49.5	38.8	67.3
May.....	90.0	122.4	77.3	77.2	107.3	97.5	100.7	103.1	104.0	101.3	112.9	95.4	73.4	46.8	42.7	67.1
June.....	92.0	124.2	75.4	80.5	107.5	92.4	98.7	103.3	102.4	101.7	111.2	92.3	69.7	43.4	47.2	64.8
July.....	94.8	119.3	71.7	78.5	103.3	85.7	96.8	99.0	98.5	99.0	107.2	84.3	66.2	39.8	50.8	60.5
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	42.9	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	60.8
November.....	106.7	107.0	71.7	93.4	104.5	93.7	104.6	104.1	98.5	105.0	104.1	76.8	58.1	42.9	55.5	-----
December.....	114.0	98.0	73.3	95.7	102.9	97.6	105.2	103.5	99.5	105.6	100.7	75.2	57.6	41.5	54.5	-----
Average....	97.4	117.1	76.2	81.3	103.3	96.1	100.6	103.8	101.8	102.4	109.1	88.7	67.5	46.1	48.5	62.0

¹ Revised.² Average for 10 months.

For comparative purposes the Bureau has computed the group and general index numbers of employment and pay rolls for October 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 4, which follows.

TABLE 4.—INDEXES OF EMPLOYMENT AND PAY ROLLS IN 14 MAJOR MANUFACTURING GROUPS, 2 SUBGROUPS, AND ALL MANUFACTURING COMBINED, FOR OCTOBER 1934

[Average for 1926=100]

Group	Employment index	Pay-roll index
Total manufacturing.....	73.1	54.6
Iron and steel and their products, not including machinery.....	69.2	42.3
Machinery, not including transportation equipment.....	68.7	40.9
Transportation equipment.....	65.7	44.8
Railroad repair shops.....	50.2	42.9
Nonferrous metals and their products.....	72.4	54.1
Lumber and allied products.....	47.1	31.2
Stone, clay, and glass products.....	51.9	34.5
Textiles and their products.....	82.5	64.5
Fabrics.....	86.5	69.5
Wearing apparel.....	72.8	54.8
Leather and its manufactures.....	78.8	55.4
Food and kindred products.....	110.2	94.7
Tobacco manufactures.....	73.0	56.5
Paper and printing.....	92.4	76.7
Chemicals and allied products and petroleum refining.....	99.5	83.2
Rubber products.....	78.4	58.7

Employment in Nonmanufacturing Industries in October 1934

INCREASES in employment from September to October were reported in 8 of the 17 nonmanufacturing industries surveyed monthly by the United States Bureau of Labor Statistics and gains in pay rolls were reported in 13. Data for the building-construction industry are not presented here, but are shown in detail under the section "Building construction."

There were increases of 1.4 percent in employment in bituminous-coal mining and 2.7 percent in anthracite mining reflecting seasonal demands. The gain of 2.4 percent in employment in metalliferous mining was due to the resumption of operations in one locality, following the settlement of labor difficulties. Combined reports received from 62,022 retail trade establishments employing 928,940 workers in October showed an increase of 1.5 percent in employment. The gains in retail trade were confined largely to the group of establishments composed of department, variety, and general merchandising stores and mail order houses. This group showed an increase of 3 percent in employment from September to October. Employment in the remaining 57,153 retail trade establishments increased 0.4 percent from September to October.

In the 9 industries in which decreased employment was reported, the largest decline (5 percent) was in brokerage establishments, which have reported decreases in employment for a number of months. The remaining decreases ranged from a seasonal drop of 2.9 percent in the quarrying and nonmetallic mining industry to less than one-tenth of 1 percent in the power and light industry. Employment in the crude-petroleum industry declined 2.8 percent over the month interval and the laundry industry, reflecting seasonal recessions, reported 1.4 percent fewer employees in October than September.

The decreases in the remaining industries were: Telephone and telegraph, 0.9 percent; banks 0.5 percent; electric-railroad operation and maintenance, 0.4 percent; and hotels, 0.2 percent. The decrease in the last-named industry was due to the closing of summer-resort hotels. Employment in hotels other than resort hotels showed a gain of 1.2 percent from September to October.

In table 1, which follows, are shown indexes of employment and pay rolls, per capita weekly earnings, average hours worked per week, and average hourly earnings in October 1934 for 13 of the nonmanufacturing industries surveyed monthly by the Bureau of Labor Statistics, together with percentage changes from September 1934 and October 1933. Per capita weekly earnings in banks, brokerage, insurance, and real estate, together with percentage changes from September 1934 and October 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 1.—EMPLOYMENT, WEEKLY PAY ROLLS, PER CAPITA WEEKLY EARNINGS, AVERAGE HOURS WORKED PER WEEK, AND AVERAGE HOURLY EARNINGS IN NONMANUFACTURING INDUSTRIES IN OCTOBER 1934, AND COMPARISON WITH SEPTEMBER 1934 AND OCTOBER 1933

Industry	Employment			Pay roll			Per capita weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index October 1934 (average 1929 = 100)	Percentage change from—		Index October 1934 (average 1929 = 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-tember 1934	Octo-ber 1933		Sep-tember 1934	Octo-ber 1933		Sep-tember 1934	Octo-ber 1933		Sep-tember 1934	Octo-ber 1933		Sep-tember 1934	Octo-ber 1933
Coal mining:													<i>Cents</i>		
Anthracite.....	58.5	+2.7	+2.8	48.3	+2.6	-21.6	\$24.04	-(3)	-23.7	29.1	-0.3	-27.9	82.5	-0.8	+2.5
Bituminous.....	79.3	+1.4	+16.6	57.6	+12.1	+30.6	18.80	+10.6	+11.9	26.2	+11.5	-9.3	71.4	-3	+23.8
Metalliferous mining.....	43.3	+2.4	+6.4	28.2	+9.2	+8.9	21.23	+6.6	+2.4	35.8	+3.2	-8.3	58.2	+3.2	+11.6
Quarrying and nonmetallic mining.....	51.8	-2.9	-2.6	32.1	-8	+2.9	15.90	+2.3	+5.8	33.4	+3.1	-1.5	48.2	-2	+9.0
Crude-petroleum producing.....	79.5	-2.8	+12.6	60.8	+1.8	+21.4	27.83	+4.7	+7.7	35.5	+3.5	+3	74.8	+7	+3.5
Public utilities:															
Telephone and telegraph.....	70.3	-9	+2.3	74.9	+3.7	+11.8	28.22	+4.6	+9.2	38.5	+1.0	+3.4	74.9	+3.3	+7.9
Electric light and power and manufactured gas.....	85.8	-(2)	+4.4	80.6	+1.6	+5.8	29.79	+1.6	+1.3	39.3	+5.6	+4	75.7	-3.7	+3.6
Electric-railroad and motor-bus operation and maintenance.....	72.2	-4	+2.3	63.0	+9	+5.4	27.87	+1.3	+3.1	44.9	+1.4	-2.1	61.7	(3)	+9.3
Trade:															
Wholesale.....	86.2	+1.1	+3.2	68.3	+1.4	+3.5	26.49	+3	+3	40.9	+1.0	-4	64.1	-5	-2
Retail.....	88.9	+1.5	-8	72.6	+2.6	+4	20.41	+1.1	+1.2	40.7	+1.0	+2.1	52.5	+(3)	+1.3
Hotels (cash payments only) ⁴	84.2	-2	+9.4	65.3	+1.6	+16.2	13.41	+1.7	+6.3	47.1	+2	-5.7	27.8	+7	+11.9
Laundries.....	81.7	-1.4	+5	64.8	-1.7	+3.7	14.89	-2	+3.1	39.1	-8	+2.9	37.6	+5	+5
Dyeing and cleaning.....	80.3	+4	-1.6	59.1	+2	+3.0	18.11	-2	+4.7	40.4	-1.2	-1.8	44.7	+9	+6.5
Banks.....	(5)	-5	+4	(5)	-3	+1.6	31.39	+2	+1.2	(5)	(5)	(5)	(5)	(5)	(5)
Brokerage.....	(5)	-5.0	-27.6	(5)	-5.9	-29.7	34.04	-1.0	-3.0	(5)	(5)	(5)	(5)	(5)	(5)
Insurance.....	(5)	+7	+1.9	(5)	+4.1	+8.5	35.33	+3.3	+6.5	(5)	(5)	(5)	(5)	(5)	(5)
Real estate.....	(5)	+6	+3.4	(5)	+1.6	+3.5	20.90	+1.0	+1	(5)	(5)	(5)	(5)	(5)	(5)

¹ 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.

² Less than 1/10 of 1 percent.

³ No change.

⁴ The additional value of board, room, and tips cannot be computed.

⁵ Not available.

Indexes of Employment and Pay-Roll Totals for Nonmanufacturing Industries

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

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

TABLE 2.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR **NONMANUFACTURING** INDUSTRIES, JANUARY 1931 TO OCTOBER 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	58.6	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	-----	79.5	51.0	47.8	-----	81.1	69.4	74.8	-----	54.6	38.0	50.7	-----
December.....	79.8	62.3	54.5	-----	78.4	56.2	44.3	-----	81.2	70.0	75.4	-----	52.3	37.7	50.8	-----
Average.....	80.5	62.5	51.7	59.3	75.4	53.7	45.8	56.8	83.2	67.4	67.9	76.7	57.5	35.6	37.8	53.5
	Metalliferous mining								Quarrying and nonmetallic mining							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	68.3	49.3	32.4	39.6	55.0	29.7	18.1	25.4	64.4	48.9	35.1	39.7	50.4	30.2	18.1	21.3
February.....	65.3	46.9	31.5	40.3	54.6	27.8	17.8	26.0	66.6	47.4	34.8	38.8	54.4	29.6	17.4	21.0
March.....	63.5	45.0	30.0	39.8	52.8	26.5	17.4	25.9	70.0	46.0	35.1	42.0	58.2	28.7	17.8	24.1
April.....	63.9	43.3	29.4	41.7	51.4	25.0	16.4	27.2	76.1	48.6	39.3	48.7	62.6	30.0	20.2	29.9
May.....	62.4	38.3	30.0	40.8	49.8	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.....	55.6	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	-----	35.1	18.7	25.6	-----	59.3	49.4	51.1	-----	43.3	27.1	28.2	-----
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	41.1	44.8	21.6	20.6	26.3	67.4	49.0	44.9	49.6	53.4	29.1	24.7	30.2

See footnotes at end of table.

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

Month	Crude-petroleum producing								Telephone and telegraph							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	74.8	54.9	57.2	73.2	71.5	46.5	39.9	53.0	90.5	83.0	74.6	70.2	96.3	89.1	71.7	69.0
February.....	73.2	54.4	57.0	72.4	70.0	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	86.0	78.1	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	-----	52.0	42.4	50.3	-----	83.5	75.5	68.9	-----	89.7	74.3	67.7	-----
December.....	58.2	57.2	75.0	-----	54.9	41.7	53.2	-----	83.1	74.8	69.4	-----	92.7	73.5	67.7	-----
Average.....	65.7	55.3	62.2	77.5	61.7	44.1	44.1	56.4	86.6	79.1	70.4	70.4	93.7	81.1	68.2	71.2
Month	Electric light and power and manufac- tured gas								Electric-railroad and motor-bus operation and maintenance ¹							
	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	60.4	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	-----	93.8	73.2	74.5	-----	81.5	71.8	71.0	-----	79.7	61.7	59.4	-----
December.....	90.3	78.4	81.8	-----	91.2	73.2	74.4	-----	79.9	71.4	70.8	-----	77.8	61.9	59.6	-----
Average.....	95.6	83.0	78.8	83.7	96.7	79.8	72.0	77.7	84.7	75.5	70.0	72.2	83.4	68.0	58.9	62.3
Month	Wholesale trade								Retail trade							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	89.5	81.8	75.3	82.4	87.5	74.1	61.7	63.9	90.0	84.3	76.9	84.6	89.4	78.0	62.7	68.8
February.....	88.2	80.9	74.1	83.0	88.4	72.5	58.6	64.6	87.1	80.5	73.4	83.8	86.7	73.7	58.4	67.7
March.....	87.4	79.8	73.1	83.6	89.1	71.3	57.1	65.7	87.8	81.4	71.4	87.2	87.5	73.4	55.1	69.5
April.....	87.4	78.9	73.3	83.9	85.2	68.9	56.0	66.8	90.1	81.6	78.6	88.2	88.3	72.7	60.4	71.5
May.....	87.1	77.9	74.0	84.6	84.7	69.7	57.4	66.3	89.9	80.9	77.0	88.8	88.0	71.1	59.5	71.8
June.....	87.1	77.0	75.7	84.1	84.1	66.2	57.3	66.5	89.1	79.4	78.3	88.2	87.6	68.2	60.5	71.6
July.....	86.8	76.6	76.9	84.0	83.3	64.7	59.1	67.6	83.9	74.6	74.6	83.3	83.3	63.3	58.1	69.5
August.....	86.5	76.4	79.7	84.3	82.1	63.2	60.8	66.4	81.8	72.6	78.1	81.8	80.3	60.7	62.7	67.3
September.....	86.1	77.1	82.1	85.3	81.4	63.1	62.3	67.4	86.6	77.8	86.0	87.6	83.5	64.6	69.2	70.8
October.....	85.2	77.8	83.5	86.2	79.9	63.9	66.0	68.3	89.8	81.3	89.6	88.9	84.6	67.1	72.3	72.6
November.....	84.1	77.6	83.4	-----	79.7	63.3	64.1	-----	90.9	81.7	91.6	-----	85.4	66.9	72.6	-----
December.....	83.7	77.0	83.3	-----	77.8	62.6	64.5	-----	106.2	95.2	105.4	-----	94.1	73.6	80.3	-----
Average.....	86.6	78.2	77.9	84.1	83.6	67.0	60.4	66.4	89.4	80.9	81.7	86.2	86.6	69.4	64.3	70.1
Month	Laundries ²								Dyeing and cleaning ³							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	94.3	88.2	78.6	78.5	90.7	80.0	60.7	61.7	82.1	75.8	67.4	68.1	73.7	62.4	44.2	46.8
February.....	93.7	86.3	77.5	78.4	89.6	76.7	58.1	61.7	80.7	74.4	65.6	68.1	71.2	59.0	40.2	46.3
March.....	93.2	85.4	76.1	79.2	89.6	75.0	55.4	62.7	81.3	74.4	65.8	72.4	71.7	58.5	38.9	51.7
April.....	94.3	85.4	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	68.9
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	66.7
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	47.4	59.1
November.....	89.8	79.4	78.4	-----	82.6	61.9	60.7	-----	83.2	72.0	76.1	-----	70.8	49.6	52.5	-----
December.....	88.8	79.1	78.4	-----	81.0	61.4	61.1	-----	78.4	69.5	70.5	-----	64.4	45.9	47.3	-----
Average.....	93.1	83.5	78.8	81.6	88.3	70.1	59.5	65.1	85.6	75.2	74.3	77.7	76.1	57.3	49.5	56.9

See footnotes at end of table.

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

Month	Hotels							
	Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934
January.....	95.0	83.2	73.8	81.5	91.0	73.9	55.7	60.8
February.....	96.8	84.3	73.8	84.8	93.7	73.9	55.9	65.2
March.....	96.8	84.0	72.4	86.4	93.4	72.4	53.5	66.6
April.....	95.9	82.7	71.9	86.6	89.9	69.6	51.7	68.5
May.....	92.5	80.1	71.9	85.7	87.7	67.0	51.8	65.9
June.....	91.6	78.0	73.6	86.2	85.4	63.8	52.3	66.2
July.....	93.3	78.4	75.6	86.3	85.2	61.8	53.3	65.6
August.....	92.8	77.6	77.1	86.2	83.8	59.6	54.0	64.5
September.....	90.6	77.0	78.7	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	-----	77.1	57.5	55.2	-----
December.....	83.1	73.2	77.6	-----	75.4	56.6	57.6	-----
Average.....	91.7	79.0	74.9	¹ 85.2	85.4	64.5	54.4	¹ 65.1

¹ Average for 10 months.² Not including electric-railroad car building and repairing; see transportation equipment and railroad repair-shop groups, manufacturing industries, table 1.³ Revised to conform with average shown by 1931 Census of Manufacturers.

Employment in Building Construction in October 1934

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

	Percent
Total employment.....	+3.4
Total pay rolls.....	+5.9
Total man-hours worked.....	+6.0
Average weekly earnings.....	+2.5
Average hours per week per man.....	+3.1
Average hourly earnings.....	— .4

The following table is based on returns made by 10,810 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 buildings 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 October the weekly pay roll for 86,761 workers amounted to \$2,059,302 as compared with \$1,943,942 earned by 83,944 workers employed by the identical firms in September.

In October the average weekly earnings were \$23.74, as compared with \$23.16 for September. 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 10,366 firms—95.9 percent of the 10,810 cooperating firms—gave the man-hours worked by the employees, namely, 2,394,850 in October as compared with 2,259,103 in September.

The average hours per week per man—29.8 in October and 28.9 in September—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—80.1 cents in October and 80.4 in September—were computed by dividing the pay roll of those firms which reported man-hours, by the number of man-hours.

EMPLOYMENT, PAY ROLLS, AVERAGE WEEKLY EARNINGS, AVERAGE HOURS PER WEEK PER MAN, AND AVERAGE HOURLY EARNINGS IN THE BUILDING-CONSTRUCTION INDUSTRY IN OCTOBER 1934, AND PERCENTAGES OF CHANGE FROM SEPTEMBER 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 ¹		Average hourly earnings ¹	
		Number October 1934	Percentage change from September 1934	Amount October 1934	Percentage change from September 1934	Amount October 1934	Percentage change from September 1934	Number October 1934	Percentage change from September 1934	October 1934	Percentage change from September 1934
All localities.....	10,810	86,761	+3.4	<i>Dollars</i> 2,059,302	+5.9	<i>Dollars</i> 23.74	+2.5	29.8	+3.1	<i>Cents</i> 80.1	-0.4
Alabama: Birmingham....	91	622	+11.3	10,872	+7.8	17.48	-9.4	28.3	-6.9	62.1	-2.5
California:											
Los Angeles.....	20	1,065	+9.1	24,162	+15.2	22.69	+5.6	33.6	+9.4	67.5	-3.6
San Francisco-Oakland.....	30	794	-28.4	19,562	-16.4	24.61	+16.8	28.6	+10.9	86.3	+5.6
Other localities.....	22	191	-29.0	4,242	-16.6	22.21	+17.5	28.0	+4.1	79.3	+13.0
The State.....	72	2,050	-12.9	47,966	-3.0	23.40	+11.4	31.1	+11.1	75.1	(²)
Colorado: Denver.....	199	625	+13.2	14,083	+17.2	22.53	+3.5	27.8	+1.8	81.4	+1.0
Connecticut:											
Bridgeport.....	115	615	+24.5	15,350	+34.9	24.96	+8.3	32.2	+2.2	78.1	+5.7
Hartford.....	257	1,126	+6.2	26,974	+9.0	23.96	+2.6	33.7	+1.8	70.7	+6
New Haven.....	160	907	+7.2	23,380	+4.7	25.78	-2.3	34.6	-4.9	74.8	+2.7
The State.....	532	2,648	+10.3	65,704	+12.4	24.81	+1.8	33.7	-9	73.7	+2.5
Delaware: Wilmington....	100	1,089	+4.3	22,228	+8.4	20.41	+3.9	31.7	+6.7	64.3	-2.7
District of Columbia.....	376	4,521	+4.0	133,034	+9.5	29.43	+5.3	33.4	+7.7	87.9	-2.7
Florida:											
Jacksonville.....	45	239	-4	4,145	+8.9	17.34	+9.3	29.1	+8.6	59.6	+8
Miami.....	68	1,225	+9.6	25,735	+25.0	21.01	+14.1	30.2	+7.1	69.5	+6.3
The State.....	113	1,464	+7.8	29,880	+22.5	20.41	+13.6	30.0	+7.5	67.9	+5.6
Georgia: Atlanta.....	134	854	-6.7	14,042	-3.4	16.44	+3.5	26.6	-7	61.5	+5.3
Illinois:											
Chicago.....	135	1,873	-12.1	54,038	-8.2	28.86	+4.5	(³)	(³)	(³)	(³)
Other localities.....	94	2,116	+38.9	40,792	+45.1	19.28	+4.4	(³)	(³)	(³)	(³)
The State.....	229	5,985	+9.1	94,830	+9.0	23.77	-1	(³)	(³)	(³)	(³)

See footnotes at end of table.

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

Locality	Number of firms reporting	Employment		Pay rolls		Average weekly earnings		Average hours per week per man ¹		Average hourly earnings ¹	
		Number October 1934	Percentage change from September 1934	Amount October 1934	Percentage change from September 1934	Amount October 1934	Percentage change from September 1934	Number October 1934	Percentage change from September 1934	October 1934	Percentage change from September 1934
Indiana:				<i>Dollars</i>		<i>Dollars</i>				<i>Cents</i>	
Evansville.....	60	554	+50.1	11,901	+71.3	21.48	+14.1	30.9	+16.2	69.5	-1.7
Fort Wayne.....	80	407	+65.4	8,178	+73.9	20.09	+5.1	32.7	+29.2	61.4	-18.7
Indianapolis.....	149	1,185	+2.2	28,532	+9.1	24.08	+6.7	31.0	+2.0	77.7	+4.9
South Bend.....	35	193	+6.0	4,013	+17.0	20.79	+10.3	28.9	+12.5	73.1	+2.0
The State.....	324	2,339	+19.6	52,624	+27.6	22.50	+6.7	31.1	+8.7	72.4	-1.5
Iowa: Des Moines.....	92	504	-3.8	11,496	-5.1	22.81	-1.3	29.2	+4.3	77.8	-5.5
Kansas: Wichita.....	63	351	+18.2	6,160	+14.4	17.55	-3.1	25.7	-5.2	68.3	+1.9
Kentucky: Louisville.....	146	841	+17.8	17,289	+23.5	20.56	+4.9	32.4	+6.9	64.9	-3
Louisiana: New Orleans.....	109	936	-19.4	17,651	-16.5	18.86	+3.6	30.2	+3.4	62.4	+2
Maine: Portland.....	88	319	-9.9	7,493	-8.9	23.49	+1.1	30.4	-1.6	77.3	+2.9
Maryland: Baltimore.....	111	2,565	+85.0	46,125	+80.9	17.98	-1.1	29.4	-1.7	60.8	-8.8
Massachusetts: All localities.....	689	5,583	+2.8	136,251	+1.9	24.40	-1.9	29.8	-2.3	82.0	+1.7
Michigan:											
Detroit.....	487	3,269	-3.4	84,016	+1.0	25.70	+4.6	31.3	-1.3	82.1	+5.8
Flint.....	48	177	-16.9	3,498	-28.8	19.76	-14.3	28.0	-14.9	70.7	+1.7
Grand Rapids.....	104	395	+16.9	7,329	+25.3	18.55	+7.2	31.2	+12.6	59.4	-4.7
The State.....	639	3,841	-2.4	94,843	+1.0	24.69	+3.4	31.1	-1.0	79.3	+4.2
Minnesota:											
Duluth.....	52	172	-16.9	3,770	-9.6	21.92	+8.8	30.3	+9.0	72.0	(?)
Minneapolis.....	207	1,682	-6.3	34,441	-10.3	21.77	-4.2	28.5	-8.9	75.7	+5.1
St. Paul.....	149	692	+6.8	17,167	+10.9	24.81	+3.9	31.1	+2.3	79.6	+1.3
The State.....	408	2,446	-3.9	55,378	-4.6	22.64	-1.7	29.4	-4.5	76.6	+3.9
Missouri:											
Kansas City.....	263	1,690	-2.1	43,064	+1.2	25.48	+3.3	28.2	+3.7	90.8	-1.5
St. Louis.....	562	2,813	-2.2	79,303	+4.4	28.19	+6.7	27.8	+8.2	101.3	-1.2
The State.....	825	4,503	-2.2	122,367	+3.2	27.17	+5.5	27.9	+6.5	97.3	-1.9
Nebraska: Omaha.....	155	639	+1.9	14,256	-1.4	22.31	-2.3	30.2	+2.7	74.0	-4.8
New York:											
New York City.....	536	8,324	+1.9	244,808	+2.1	29.41	+1.2	27.8	+1.5	105.7	-1.3
Other localities.....	354	9,313	-2.9	218,261	-1.3	23.44	+2.7	29.4	+1.4	79.7	+1.4
The State.....	890	17,637	-1.2	463,069	+1.9	26.26	+2.1	28.6	+1.1	91.7	+1.9
North Carolina: Charlotte.....	51	326	+7.9	6,671	+23.2	20.46	+14.2	30.8	+13.2	66.4	+1.9
Ohio:											
Akron.....	94	362	+7.1	8,584	+13.8	23.71	+6.3	30.8	+6.2	77.0	(?)
Cincinnati.....	418	1,815	+11.4	43,621	+12.1	24.03	+6	29.2	+3.2	82.3	-2.5
Cleveland.....	601	2,640	+10.2	70,568	+11.8	26.73	+15.3	27.2	+3.8	99.9	-1.7
Dayton.....	139	548	+24.5	11,613	+18.5	21.19	-4.9	28.7	-3.7	73.7	-1.5
Youngstown.....	86	466	+19.8	11,513	+32.0	24.71	+10.2	30.1	+11.9	82.1	-1.6
The State.....	1,338	5,831	+12.3	145,899	+13.9	25.02	+1.4	28.5	+4.0	88.2	-1.9
Oklahoma:											
Oklahoma City.....	89	401	-25.5	6,973	-28.1	17.39	-3.5	25.5	-5.9	67.8	+1.6
Tulsa.....	52	328	-4.4	5,689	-11.5	17.34	-7.4	28.0	-2.4	62.8	-5.3
The State.....	141	729	-17.3	12,662	-21.4	17.37	-5.1	26.6	-4.0	65.5	-1.7
Oregon: Portland.....	173	1,042	+8.8	21,579	+8.6	20.71	-1.1	25.2	-4.2	82.7	+3.6

See footnotes at end of table.

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

Locality	Number of firms reporting	Employment		Pay rolls		Average weekly earnings		Average hours per week per man ¹		Average hourly earnings ¹	
		Number October 1934	Percentage change from September 1934	Amount October 1934	Percentage change from September 1934	Amount October 1934	Percentage change from September 1934	Number October 1934	Percentage change from September 1934	October 1934	Percentage change from September 1934
Pennsylvania: *				<i>Dollars</i>		<i>Dollars</i>				<i>Cents</i>	
Erie area.....	22	220	-28.4	3,496	-17.2	13.45	+15.6	19.8	+28.6	63.6	-8.4
Philadelphia area.....	375	3,542	+4.3	79,013	+11.4	22.31	+6.8	31.1	+10.3	73.7	-2.3
Pittsburgh area.....	203	1,621	+3.6	43,114	+3.2	29.68	+3.3	32.0	+5.6	83.7	-6.1
Reading area.....	40	254	-7.0	5,351	-4.9	21.07	+2.2	31.4	+4.7	87.1	-2.8
Scranton area.....	32	223	+16.9	5,102	+18.5	22.33	+1.2	31.2	+2.6	78.1	-1.9
Other areas.....	293	2,160	+11.5	46,531	+16.3	21.57	+4.4	33.5	+8.8	64.7	-5.7
The State.....	925	8,065	+4.3	187,657	+9.8	23.27	+4.7	31.6	+9.7	74.8	-3.6
Rhode Island: Providence	231	1,433	+13.7	34,224	+23.1	23.88	+8.3	32.8	+5.5	73.3	+3.2
Tennessee:											
Chattanooga.....	35	165	-21.4	2,354	-27.5	14.27	-7.6	22.8	-10.2	62.5	+2.6
Knoxville.....	38	368	-12.4	5,554	-22.1	15.09	-11.1	24.8	-10.1	80.7	-1.5
Memphis.....	70	373	+13.7	7,371	+27.7	19.76	+12.3	27.9	+5.3	70.9	+6.6
Nashville.....	83	800	+1.1	14,226	+16.8	17.78	+15.5	27.7	+4.5	64.3	+10.5
The State.....	226	1,706	-2.5	29,505	+4.1	17.29	+6.7	26.6	(²)	64.9	+6.6
Texas:											
Dallas.....	191	679	+1.2	11,802	+10.2	17.38	+8.8	27.0	+10.7	64.6	+1.5
El Paso.....	24	93	+4.5	1,598	-17.2	17.18	-20.8	25.1	-14.3	63.5	-7.3
Houston.....	190	1,192	+8.4	23,093	+14.6	19.37	+5.8	28.2	+2.5	69.4	+3.0
San Antonio.....	91	311	+3.3	4,537	+3.1	14.59	-2.9	24.8	-4	58.9	-2.5
The State.....	496	2,275	+5.3	41,030	+10.0	18.04	+4.5	27.2	+3.8	66.6	+1.2
Utah: Salt Lake City....	129	253	-10.3	5,002	-17.1	19.77	-7.6	24.3	-7.3	79.6	-2.1
Virginia:											
Norfolk-Portsmouth....	75	419	-2.3	8,019	+3.1	19.14	+5.6	30.2	+6.0	63.3	-1.5
Richmond.....	120	981	+3.7	21,704	+10.8	22.12	+6.8	33.3	+7.8	66.6	-1.6
The State.....	196	1,400	+1.8	29,723	+8.6	21.23	+6.6	32.4	+7.6	65.6	-1.5
Washington:											
Seattle.....	159	655	-33.5	13,363	-35.9	20.40	-3.7	21.9	-2.2	93.1	-1.7
Spokane.....	52	177	-15.3	4,207	-19.2	23.77	-4.5	28.2	+7	84.3	-5.4
Tacoma.....	81	206	+26.4	4,231	+20.5	20.54	-4.6	23.1	-5.3	89.0	+1.9
The State.....	292	1,038	-23.5	21,801	-26.3	21.00	-3.7	23.2	-1.3	90.5	-2.5
West Virginia: Wheeling..	56	304	+16.9	5,355	+9.4	17.62	-6.4	28.5	-3.4	61.8	-3.1
Wisconsin: All localities..	151	1,995	+7.6	40,553	+11.4	20.36	+5.7	32.9	+1.9	61.7	+2.2

¹ Averages computed from reports furnished by 10,366 firms.

² No change.

³ Data not available.

⁴ Includes both Kansas City, Mo., and Kansas City, Kans.

⁵ Includes Covington and Newport, Ky.

⁶ Each separate area includes from 2 to 8 counties.

Trend of Employment in October 1934, by States

FLUCTUATIONS in employment and pay-roll totals, in October 1934, as compared with September 1934, in certain industrial groups are shown by States in the following table. These tabulations have been prepared from data secured directly from reporting establishments and from information supplied by cooperating State agencies.

The combined total of all groups does not include building-construction data, which are shown by city and State totals in the section, Building construction. In addition to the combined total of all groups, the trend of employment and pay rolls in the manufacturing, public utility, hotel, wholesale trade, retail trade, bituminous-coal mining, crude-petroleum producing, quarrying and nonmetallic mining, metalliferous mining, laundry, dyeing and cleaning, and banks, brokerage, insurance, real-estate groups is presented. In this State compilation, the totals of the telephone and telegraph, power and light, and electric-railroad operation groups have been combined and are presented as one group—Public utilities.

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

The anthracite-mining industry, which is confined entirely to the State of Pennsylvania, showed increases from September to October of 2.7 percent in employment and 2.6 percent in pay rolls. These percentages are based on reports received from 160 mines, which employed in October 81,195 workers whose earnings in 1 week ending nearest the 15th were \$1,952,146.

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

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN SEPTEMBER AND OCTOBER 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 October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934	Number of establishments	Number on pay roll October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934
Alabama.....	1,339	73,320	+14.2	\$1,030,446	+14.3	253	48,847	+23.3	\$626,825	+22.7
Arizona.....	590	15,062	+3.0	303,392	+3.4	45	2,294	-3.6	42,349	-1.1
Arkansas.....	<i>1,741</i>	<i>85,803</i>	<i>+</i>	<i>370,441</i>	<i>+1.4</i>	<i>319</i>	<i>16,456</i>	<i>-</i>	<i>234,716</i>	<i>+4.4</i>
California.....	<i>1,632</i>	<i>224,708</i>	<i>-1.9</i>	<i>5,480,480</i>	<i>+1.4</i>	<i>845</i>	<i>118,117</i>	<i>-5.2</i>	<i>2,712,678</i>	<i>+1.7</i>
Colorado.....	1,381	48,813	+9.0	999,419	+6.3	175	18,359	+21.7	335,753	+11.9
Connecticut.....	2,454	172,667	+8.6	3,405,570	+6.2	751	135,876	+10.0	2,532,228	+8.3
Delaware.....	239	14,097	-8.6	280,358	-2.7	77	9,592	-12.6	173,339	-6.0
Dist. of Columbia.....	980	36,383	+3.2	851,692	+4.3	50	3,201	-2.3	104,332	-4.9
Florida.....	1,336	39,668	+6.9	657,830	+7.6	238	18,530	+3.7	265,677	+7.8
Georgia.....	1,751	94,843	+27.9	1,384,093	+26.4	376	68,364	+42.6	874,777	+46.4
Idaho.....	546	12,193	+3.3	230,633	+3.5	67	4,829	+7.2	90,667	+10.0
Illinois.....	<i>4,673</i>	<i>468,422</i>	<i>-</i>	<i>10,235,566</i>	<i>+5.2</i>	<i>2,082</i>	<i>286,749</i>	<i>-9</i>	<i>5,923,634</i>	<i>+2.4</i>
Indiana.....	3,001	167,651	-3.6	3,251,221	+9	681	115,248	-4.8	2,163,848	+9
Iowa.....	2,254	62,770	-1	1,250,908	-2.1	437	30,085	-2.1	576,583	-3.7
Kansas.....	<i>2,218</i>	<i>62,244</i>	<i>-6</i>	<i>1,545,464</i>	<i>+3.0</i>	<i>452</i>	<i>33,662</i>	<i>+3.6</i>	<i>769,284</i>	<i>+6.9</i>
Kentucky.....	1,739	91,277	-9	1,585,159	+4.4	329	34,707	-2.5	550,666	+2.5
Louisiana.....	1,176	46,117	+6	764,208	+2.2	248	25,120	+1.7	349,889	+2.4
Maine.....	921	50,233	-2	888,699	+6	283	40,427	+8	672,805	+1.3
Maryland.....	<i>1,478</i>	<i>98,074</i>	<i>-4</i>	<i>1,867,869</i>	<i>-2.6</i>	<i>618</i>	<i>64,430</i>	<i>-1.6</i>	<i>1,110,588</i>	<i>-3.6</i>
Massachusetts.....	<i>4,594</i>	<i>428,027</i>	<i>+9.8</i>	<i>8,783,151</i>	<i>+5.6</i>	<i>1,589</i>	<i>227,997</i>	<i>+19.6</i>	<i>4,165,094</i>	<i>+11.8</i>
Michigan.....	3,662	318,762	-4.3	7,018,020	-6.6	1,052	257,179	-2.6	5,221,718	-10.5
Minnesota.....	2,692	94,896	-1.5	2,065,485	+2.0	419	40,203	-3.5	833,526	+4.0
Mississippi.....	683	18,722	+2.2	272,712	+3.4	116	11,637	+4.1	153,053	+4.6
Missouri.....	4,873	171,528	-3.0	3,613,258	-6	891	78,893	-4.9	1,521,234	-3.1
Montana.....	871	17,824	+35.5	433,157	+42.4	104	5,415	+44.5	123,040	+52.1
Nebraska.....	1,678	38,997	+5.6	821,681	+4.5	174	15,894	+12.2	339,190	+8.5
Nevada.....	280	3,652	+4.3	90,007	+5.7	32	1,020	+21.7	25,600	+26.7
New Hampshire.....	803	46,606	+54.6	806,724	+38.7	209	39,150	+75.4	641,471	+56.8
New Jersey.....	3,750	284,910	-2	6,021,027	+3.3	<i>7,717</i>	<i>209,581</i>	<i>-9</i>	<i>4,493,281</i>	<i>-3</i>
New Mexico.....	412	6,822	+1	129,684	+5.7	34	654	+1.1	10,760	+5.1
New York.....	19,819	808,315	+6	19,975,001	+8	<i>1,905</i>	<i>378,019</i>	<i>+8</i>	<i>8,703,602</i>	<i>-1</i>
North Carolina.....	1,325	137,748	+24.6	1,906,788	+29.2	586	126,339	+27.0	1,719,699	+32.4
North Dakota.....	624	6,900	+2.7	153,673	+3.8	54	934	-1.8	22,436	+3.0
Ohio.....	9,908	516,075	+9	10,475,305	+5.1	2,627	354,603	+1.2	6,982,263	+6.6
Oklahoma.....	1,918	41,350	-1.5	831,675	+1.3	180	10,997	-1.4	207,477	-8
Oregon.....	1,487	46,153	-9.2	975,764	-1.9	281	23,643	-17.0	457,217	-6.6
Pennsylvania.....	10,335	777,116	+1.6	15,827,920	+4.8	<i>2,042</i>	<i>413,386</i>	<i>+1.8</i>	<i>7,708,199</i>	<i>+6.7</i>
Rhode Island.....	1,315	82,692	+45.2	1,599,953	+39.2	432	61,870	+70.7	1,094,073	+69.3
South Carolina.....	740	61,135	+43.4	815,183	+45.2	211	53,581	+51.9	689,087	+56.8
South Dakota.....	569	9,176	+1.4	217,109	+3.0	32	2,268	+4.7	46,291	+8.4
Tennessee.....	1,527	87,817	+2.6	1,397,067	+5.1	350	60,056	+3.6	894,927	+6.1
Texas.....	<i>1,429</i>	<i>77,928</i>	<i>+1.0</i>	<i>1,760,401</i>	<i>+2</i>	<i>470</i>	<i>41,678</i>	<i>+4</i>	<i>896,424</i>	<i>+1</i>
Utah.....	724	19,790	+2.9	411,857	+5.4	115	6,537	-1.8	116,252	-4.0
Vermont.....	585	14,910	+10.8	272,532	+3.5	149	8,056	+23.0	138,009	+12.2
Virginia.....	2,316	91,233	-1.3	1,585,836	+1.7	482	58,528	-1.3	953,351	+7
Washington.....	3,610	94,901	-3.0	2,028,725	+6	531	45,173	-6.4	867,203	-1.9
West Virginia.....	1,351	143,089	+3	2,750,200	+8.5	278	51,797	+2	948,819	+8.2
Wisconsin.....	<i>1,030</i>	<i>164,845</i>	<i>+1</i>	<i>3,052,577</i>	<i>+5.5</i>	<i>762</i>	<i>120,660</i>	<i>+2</i>	<i>2,344,348</i>	<i>+5.9</i>
Wyoming.....	417	8,969	+10.2	226,138	+12.2	50	2,411	+30.2	54,558	+23.7

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

² Includes banks, insurance, and office employment.

³ Includes building and contracting.

⁴ Includes construction, municipal, agricultural, and office employment, amusement and recreation, professional, and transportation services.

⁵ Weighted percentage change.

⁶ Includes laundries.

⁷ Includes laundering and cleaning, but does not include food, canning, and preserving.

Includes construction, but does not include hotels and restaurants, and public works.

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

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

State	Wholesale trade					Retail trade				
	Number of establishments	Number on pay roll October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934	Number of establishments	Number on pay roll October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934
Alabama.....	122	2,517	+1.7	\$61,208	+2.0	721	6,818	+2.6	\$117,891	+1.6
Arizona.....	72	1,931	+16.0	28,194	+10.8	315	3,833	+5.1	72,475	+4.2
Arkansas.....	68	1,015	— .2	28,802	— .1	248	2,693	+2.3	42,715	+1.6
California.....	106	5,753	—1.7	161,487	+ .7	123	26,294	+ .8	543,365	— .2
Colorado.....	151	3,407	— .8	86,739	—1.4	627	10,418	+2.0	196,721	+ .9
Connecticut.....	211	5,220	+23.7	108,732	+5.7	1,172	15,797	+2.0	328,713	+1.7
Delaware.....	17	591	+1.4	13,482	+5.0	89	1,543	+3.7	30,813	+3.4
Dist. of Columbia.....	55	1,124	—4.3	34,018	+ .8	754	14,704	+7.5	299,768	+6.7
Florida.....	228	5,278	+40.0	83,216	+16.7	552	7,002	+3.6	126,924	+5.4
Georgia.....	113	1,666	+3.7	39,682	+4.0	915	10,612	+1.5	175,677	+1.1
Idaho.....	72	1,120	—19.7	20,017	—1.6	291	2,620	+3.1	47,315	+4.4
Illinois.....	412	13,849	+ .4	374,487	+2.8	1,638	60,026	+1.2	1,204,373	+4.8
Indiana.....	386	6,540	—1.6	159,303	— .7	1,458	22,347	— .5	434,247	— .1
Iowa.....	184	3,534	+1.5	87,107	+1.5	998	14,548	+2.4	261,521	+2.9
Kansas.....	173	3,347	+2.1	72,543	—1.8	1,142	10,157	+1.2	177,835	+ .9
Kentucky.....	163	2,223	— .3	48,789	— .5	667	9,135	+1.2	163,243	+3.4
Louisiana.....	200	3,176	—1.8	72,718	+2.3	514	8,333	— .6	139,495	+1.9
Maine.....	101	1,615	— .3	38,568	+ .8	277	2,904	— .3	56,521	+2.2
Maryland.....	189	2,863	+2.1	72,231	+4.7	505	14,548	+3.6	273,416	+4.1
Massachusetts.....	378	18,771	— .7	494,694	— .1	4,484	70,067	+ (9)	1,389,918	+ .7
Michigan.....	332	6,552	+2.5	168,636	+3.0	1,766	34,185	—5.0	729,496	—3.3
Minnesota.....	332	9,080	+1.0	238,137	+1.5	1,471	20,374	+ .6	403,221	— .8
Mississippi.....	77	1,293	— .8	25,229	+1.8	243	2,590	+2.5	38,793	+3.8
Missouri.....	1,138	16,039	— .8	411,966	— .7	2,157	35,512	—4.0	749,867	— .5
Montana.....	110	1,316	+12.6	31,806	+3.4	420	3,776	+3.0	82,857	+3.2
Nebraska.....	195	3,586	— .2	94,573	—1.2	1,058	10,377	+2.5	188,795	+2.4
Nevada.....	51	301	(10)	9,760	—2.9	119	958	+ .1	21,318	+1.7
New Hampshire.....	39	469	—1.7	12,559	— .4	327	3,163	— .8	59,135	—4.1
New Jersey.....	229	4,252	+ .2	123,557	+1.3	1,859	21,693	+3.6	484,785	+4.0
New Mexico.....	36	298	—2.0	7,488	+2.8	226	1,816	+2.3	33,569	+4.4
New York.....	3,716	65,708	— .1	2,034,101	— .4	10,976	175,771	+2.6	4,068,560	+4.1
North Carolina.....	65	844	+1.9	22,269	+5.4	481	5,433	+9.7	79,459	+9.9
North Dakota.....	121	564	— .2	13,172	+2.4	190	2,525	+3.5	55,728	—2.1
Ohio.....	1,090	16,453	— .7	430,606	+1.4	4,956	67,790	+ .9	1,284,402	+1.5
Oklahoma.....	190	2,945	—1.6	70,239	— .3	1,041	10,123	+2.7	179,677	+4.4
Oregon.....	249	4,105	+ .7	106,378	+3.7	663	9,735	+2.1	192,966	+1.8
Pennsylvania.....	1,546	19,901	+ .5	548,515	+1.2	3,923	70,636	+4.2	1,400,154	+4.3
Rhode Island.....	94	1,758	+ .5	46,862	+ .7	627	9,774	+2.0	189,355	+2.5
South Carolina.....	71	927	+ .7	21,787	+1.7	334	3,827	+5.2	53,270	+4.3
South Dakota.....	55	595	+ .8	13,883	+1.6	283	2,252	+3.1	45,259	+3.6
Tennessee.....	215	3,288	— .6	71,694	+1.2	576	10,518	+2.1	183,967	+4.4
Texas.....	82	4,583	+2.7	109,479	+2.7	321	11,808	+5.4	803,420	+3.1
Utah.....	104	1,128	+1.2	31,467	+3.8	358	3,784	+2.1	74,133	+1.8
Vermont.....	30	540	+ .4	11,805	—2.2	151	1,901	—2.2	36,286	—1.8
Virginia.....	200	3,928	—8.4	80,211	—1.1	1,245	12,015	+2.5	219,249	+3.5
Washington.....	817	13,473	+2.6	349,472	+7.1	1,858	19,123	+1.0	384,587	+1.2
West Virginia.....	115	1,796	— .5	46,198	+ .7	339	4,337	+5.7	76,037	+2.1
Wisconsin.....	45	1,571	— .6	43,931	+ .2	53	11,392	+6.4	155,855	+6.4
Wyoming.....	29	263	(10)	7,455	+3.4	209	1,409	—1.5	29,861	— .9

* Less than 1/10 of 1 percent.

(10) No change.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS
IN SEPTEMBER AND OCTOBER 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 October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934	Number of establishments	Number on pay roll October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934
Alabama.....	16	651	-10.5	\$7,295	-17.9	9	1,072	-10.3	\$12,286	-4.2
Arizona.....	—	—	—	—	—	22	3,733	-1.4	88,229	+3.5
Arkansas.....	4	127	+2.4	1,192	-4.8	—	—	—	—	—
California.....	43	1,132	+2.5	22,281	+14.3	36	2,663	-14.6	67,169	-11.0
Colorado.....	5	20	-13.0	279	-10.0	14	1,015	-1.5	28,638	+5.7
Connecticut.....	25	403	+19.9	5,939	+5.5	—	—	—	—	—
Delaware.....	—	—	—	—	—	—	—	—	—	—
Dist. of Columbia.....	—	—	—	—	—	—	—	—	—	—
Florida.....	16	878	-2	10,371	-4.7	—	—	—	—	—
Georgia.....	26	1,545	+6.3	14,797	+3.9	—	—	—	—	—
Idaho.....	—	—	—	—	—	8	1,947	-3.7	42,773	-4.7
Illinois.....	17	405	+6.0	7,398	+23.3	—	—	—	—	—
Indiana.....	75	1,547	-1.9	26,618	+9.0	—	—	—	—	—
Iowa.....	25	381	-4.3	7,566	+14.0	—	—	—	—	—
Kansas.....	53	1,318	+2.0	26,498	-8	16	835	-24.0	11,239	-29.6
Kentucky.....	35	1,372	(10)	14,992	-6	—	—	—	—	—
Louisiana.....	6	625	+1.8	8,396	+7	—	—	—	—	—
Maine.....	10	527	-2.8	11,728	+3.6	—	—	—	—	—
Maryland.....	8	225	-6.3	3,303	-7.6	—	—	—	—	—
Massachusetts.....	18	461	-3.6	9,625	-8.2	—	—	—	—	—
Michigan.....	49	1,694	-6.2	29,406	-5.5	40	4,822	-6.4	75,681	+4
Minnesota.....	23	303	-15.1	5,064	-8.5	26	1,738	-3.9	35,064	+4.8
Mississippi.....	10	133	-37.6	1,840	-35.7	—	—	—	—	—
Missouri.....	48	1,297	+4.8	17,920	+8.0	13	1,763	+2.0	19,398	+1.4
Montana.....	8	88	+23.9	1,467	+20.2	16	2,691	+1030.7	73,912	+1174.6
Nebraska.....	9	219	+33.5	2,738	+39.1	—	—	—	—	—
Nevada.....	—	—	—	—	—	15	608	+2.5	15,747	+2
New Hampshire.....	10	326	+6	8,335	+1.0	3	26	+44.4	409	+15.5
New Jersey.....	34	653	+3.5	13,207	+11.4	5	992	-2.5	18,531	-1.4
New Mexico.....	—	—	—	—	—	—	—	—	—	—
New York.....	76	2,480	-3.1	49,846	-6.4	—	—	—	—	—
North Carolina.....	10	232	-24.4	2,690	-37.6	—	—	—	—	—
North Dakota.....	—	—	—	—	—	—	—	—	—	—
Ohio.....	138	3,656	-6.5	56,621	-3.1	—	—	—	—	—
Oklahoma.....	16	161	+1.3	1,568	-6.2	31	757	-44.5	8,547	-52.0
Oregon.....	—	—	—	—	—	4	87	-1.1	1,581	-7.8
Pennsylvania.....	145	5,158	-5.8	82,523	+2.5	—	—	—	—	—
Rhode Island.....	—	—	—	—	—	—	—	—	—	—
South Carolina.....	5	187	-1.1	2,079	+3.6	—	—	—	—	—
South Dakota.....	6	75	+27.1	1,283	+56.5	—	—	—	—	—
Tennessee.....	24	816	+1.2	9,387	+5.3	4	322	+6	6,857	+6.4
Texas.....	22	980	-11.7	20,553	-22.6	—	—	—	—	—
Utah.....	8	118	-29.3	2,021	-10.1	13	2,245	+1.3	51,707	+8.7
Vermont.....	38	1,948	-1	35,400	-11.6	—	—	—	—	—
Virginia.....	30	1,084	-9.2	13,061	-3.8	—	—	—	—	—
Washington.....	16	320	-36.5	4,597	-45.9	—	—	—	—	—
West Virginia.....	17	768	+4.5	9,922	+24.4	—	—	—	—	—
Wisconsin.....	12	230	-27.9	3,834	-19.6	(11)	745	+3.8	16,008	+10.8
Wyoming.....	—	—	—	—	—	—	—	—	—	—

¹⁰ No change.

¹¹ Not available.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN SEPTEMBER AND OCTOBER 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	Bituminous-coal mining					Crude-petroleum producing				
	Number of establishments	Number on pay roll October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934	Number of establishments	Number on pay roll October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934
Alabama.....	56	8,994	-1.7	\$129,471	+8.8					
Arizona.....										
Arkansas.....						9	513	-1.9	\$12,950	+3.3
California.....						26	3,142	-4	95,079	+1.6
Colorado.....	48	5,205	+18.6	110,005	+19.8					
Connecticut.....										
Delaware.....										
Dist. of Columbia.....										
Florida.....										
Georgia.....										
Idaho.....										
Illinois.....	31	8,008	+1.9	186,187	+10.3	9	204	-3.8	4,535	+3.1
Indiana.....	53	5,772	+1.0	121,452	+8.4	4	22	-15.4	362	+2.8
Iowa.....	18	1,568	+9.6	28,091	+17.2					
Kansas.....	23	2,248	+2.2	49,591	+19.2	26	1,720	-6	42,190	+6.2
Kentucky.....	150	31,933	+3	570,174	+8.8	3	240	+3.9	3,663	+9.4
Louisiana.....						6	214	+1.4	6,175	-8
Maine.....										
Maryland.....	16	1,442	+5.7	23,711	+15.6					
Massachusetts.....										
Michigan.....	3	666	+49.0	13,266	+55.7					
Minnesota.....										
Mississippi.....										
Missouri.....	19	1,639	+3.0	25,633	+14.3					
Montana.....	10	1,028	+18.4	29,916	+31.4	4	37	-14.0	1,070	-8
Nebraska.....										
Nevada.....										
New Hampshire.....										
New Jersey.....										
New Mexico.....	12	1,652	+4	33,722	+14.3	4	78	-7.1	2,070	+14.5
New York.....						5	268	-11.3	6,024	-2.7
North Carolina.....										
North Dakota.....	7	644	+32.0	14,613	+46.5					
Ohio.....	73	14,231	+3.8	253,946	+15.9	6	69	+13.1	879	+10.2
Oklahoma.....	17	816	+14.9	16,211	+19.4	59	5,874	-3	145,946	+4.8
Oregon.....										
Pennsylvania.....	410	75,372	-4	1,864,598	+12.5	18	639	-5.1	15,165	-3.5
Rhode Island.....										
South Carolina.....										
South Dakota.....										
Tennessee.....	14	2,795	+1.5	41,960	+5.5					
Texas.....	5	366	-1.1	6,472	+5.9	14	8,109	-1	275,441	+9
Utah.....	16	2,128	+32.1	56,130	+44.3					
Vermont.....										
Virginia.....	21	4,433	-8	75,964	+15.7					
Washington.....	14	1,170	+7.5	30,468	+24.3					
West Virginia.....	364	74,484	+7	1,444,005	+10.3	7	347	-8.2	7,547	-8
Wisconsin.....										
Wyoming.....	33	3,682	+9.6	104,905	+14.6	9	257	-5.5	7,904	+2.1

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN SEPTEMBER AND OCTOBER 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 October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934	Number of establishments	Number on pay roll October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934
Alabama.....	89	1,874	-0.4	\$41,583	+3.7	21	1,175	+1.1	\$10,019	+2.8
Arizona.....	69	1,598	+2.8	39,127	+2.8	18	506	+5.2	7,330	+5.7
Arkansas.....	<i>32</i>	<i>1,416</i>	+1.7	<i>33,287</i>	-0.5	<i>26</i>	<i>795</i>	-2.0	<i>7,104</i>	+1.0
California.....	37	<i>35,385</i>	+2	<i>1,022,663</i>	+4.9	<i>183</i>	<i>9,790</i>	-1.7	<i>152,239</i>	-1.4
Colorado.....	205	5,800	-2.3	150,575	+3.8	54	1,485	-1.6	22,835	-1.7
Connecticut.....	132	9,969	-2	306,467	-2.0	31	1,350	+2.8	18,435	+3.6
Delaware.....	29	1,178	-8	33,713	+4.1	4	269	-7	3,648	+2.8
Dist. of Columbia.....	17	9,013	-3	254,545	+7.3	45	4,292	+6.0	67,876	+7.6
Florida.....	184	4,849	+4	121,705	+5.9	64	1,202	+8.5	12,474	+11.9
Georgia.....	186	7,285	+1	197,250	+4.6	34	1,431	+2.2	11,957	+3.2
Idaho.....	57	829	+1.1	16,767	+7	20	416	-3.5	4,961	+4
Illinois.....	87	<i>72,840</i>	-(*)	<i>2,102,654</i>	+4.0	<i>13,239</i>	<i>15,996</i>	-1.9	<i>241,648</i>	+7.3
Indiana.....	134	9,265	-3.4	232,143	+2	64	2,983	+4.1	31,525	+2.4
Iowa.....	474	9,268	-2	216,138	+3.1	58	2,551	+6.2	23,795	+1.8
Kansas.....	<i>13,161</i>	<i>7,088</i>	-1.8	<i>171,232</i>	-1.6	<i>29</i>	<i>647</i>	+2.2	<i>6,588</i>	+7.5
Kentucky.....	285	6,652	-5	154,349	+1.3	33	1,986	+6	20,743	+7.3
Louisiana.....	152	5,890	-1.0	145,884	+2.6	18	1,817	+8	21,870	+3.9
Maine.....	170	3,017	+1.0	80,139	+4	24	674	-33.7	8,596	-33.9
Maryland.....	89	<i>11,892</i>	-(*)	<i>335,513</i>	-3.6	20	<i>666</i>	+5.4	<i>8,255</i>	+5.5
Massachusetts.....	<i>13,128</i>	<i>46,326</i>	-2	<i>1,314,049</i>	-1.2	67	<i>6,041</i>	+5.3	<i>87,055</i>	+8.3
Michigan.....	410	29,459	-1.5	908,714	+3.1	96	5,452	+3.0	69,618	+4.0
Minnesota.....	235	12,884	+3	339,784	+1.7	72	3,411	-1.5	41,245	+7
Mississippi.....	191	2,009	-1.0	41,283	+3.1	17	490	-1.6	3,864	+6.3
Missouri.....	286	21,086	+1	581,490	+4.6	89	5,186	+4.2	62,779	+7.2
Montana.....	113	2,179	+6.6	65,869	+14.2	37	613	-1.0	8,916	-1.5
Nebraska.....	356	5,624	-7	143,266	+2.9	36	1,601	+5.9	16,937	+6.5
Nevada.....	38	380	-3.6	12,012	-2.3	18	300	-9.9	4,130	-8.3
New Hampshire.....	141	2,328	+1.0	63,579	-3.2	19	355	-47.9	4,049	-45.4
New Jersey.....	266	21,358	-8	659,749	+4.9	89	4,353	-16.8	53,340	-13.0
New Mexico.....	53	627	+2	13,062	+3.6	17	373	-1.6	3,761	-3
New York.....	875	123,342	-5	3,975,948	+9	222	29,302	+1.2	461,502	+3.3
North Carolina.....	93	1,946	-4	43,477	+7.3	37	1,505	-1.4	13,399	-6
North Dakota.....	182	1,388	-4.2	33,657	+2.8	17	286	+6.3	2,933	+5.2
Ohio.....	430	35,780	-8	972,064	+1.9	130	9,262	+2.5	120,499	+2.5
Oklahoma.....	269	6,492	-2.4	155,028	-3	48	1,493	-1.2	16,211	+7
Oregon.....	183	5,741	-1.2	162,094	+3.7	64	1,459	+1	18,636	+2.3
Pennsylvania.....	<i>715</i>	<i>56,201</i>	+3	<i>1,576,900</i>	+1.3	157	10,089	-5	134,932	+1.7
Rhode Island.....	47	5,624	-1.0	167,136	-1.2	11	358	-8.7	5,205	-3.9
South Carolina.....	76	1,669	-6	37,385	+4.6	13	301	+2.7	2,700	+1.4
South Dakota.....	129	1,081	-2.3	26,911	+3.7	21	348	+2.4	4,125	+4.0
Tennessee.....	247	4,904	-1.9	114,189	+4.4	37	2,474	+3	21,485	+1.0
Texas.....	<i>373</i>	<i>8,728</i>	+8	<i>222,897</i>	-1.6	<i>55</i>	<i>2,407</i>	+3	<i>32,187</i>	+6
Utah.....	70	1,956	+4.7	41,184	+7.4	14	504	-4	6,512	-2.4
Vermont.....	126	1,526	+1.1	36,468	-3	17	459	-1.4	5,018	-1
Virginia.....	178	5,993	-2.2	150,916	+3.3	35	2,128	-4.2	23,096	-3.0
Washington.....	198	9,921	-2.3	283,571	+5	88	2,720	-2.4	31,981	-3.1
West Virginia.....	119	6,873	-3.8	174,068	+3.0	36	1,202	-2.7	13,202	+1.2
Wisconsin.....	<i>14,41</i>	<i>10,394</i>	-8	<i>354,797</i>	+2.6	<i>42</i>	<i>1,416</i>	-2.2	<i>(1)</i>	-
Wyoming.....	49	493	+2	12,133	+6.1	12	103	-4.6	1,393	-6

* Less than 1/10 of 1 percent.

¹³ Includes steam railways.

¹¹ Not available.

¹² Includes restaurants.

¹⁴ Includes railways and express.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN SEPTEMBER AND OCTOBER 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 October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934	Number of establishments	Number on pay roll October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934
Alabama.....	15	720	+2.1	\$6,569	+1.0	6	95	-4.0	\$1,358	+0.7
Arizona.....	11	313	+4.0	3,966	+5.6	3	22	-8.3	385	+1.3
Arkansas.....	14	452	+1.8	4,725	+3.3	6	79	-1.2	1,157	-12.3
California.....	15 60	8,688	-1.8	84,839	+1.8					
Colorado.....	34	1,465	-3.1	19,537	-2.7	19	268	-5.0	4,976	-8.5
Connecticut.....	43	1,682	-1.7	26,992	-2.6	15	333	-1.2	7,106	-4.5
Delaware.....	4	315	-2.2	5,282	-2.6					
Dist. of Columbia.....	17	2,590	+4	39,261	-3.1	3	80	-4.8	1,443	-1.4
Florida.....	21	1,009	+4.0	10,267	+7.2	7	77	+5.5	1,182	+8.2
Georgia.....	24	2,354	-3.1	26,283	-4.8	12	207	-1.0	2,669	-2
Idaho.....	13	270	-3.2	4,320	-1.3					
Illinois.....	15 73	3,491	+3.6	56,674	+4.3					
Indiana.....	44	1,895	-2.5	25,361	-3.8	41	646	-2	10,911	-1.3
Iowa.....	32	1,189	-1.7	15,851	-2.4	9	156	-6	2,767	-3.9
Kansas.....	15 45	967	-2.8	12,871	-4.2					
Kentucky.....	40	1,648	-3.2	22,875	-2.8	9	292	-1.7	4,081	-4.5
Louisiana.....	7	348	-3.9	4,905	-2.7	6	115	-1.7	1,456	-3.0
Maine.....	29	604	-11.2	8,501	-15.1	7	189	-1.6	3,552	-4.2
Maryland.....	22	1,749	-1.9	26,180	-5	11	259	+1.8	4,752	+5.6
Massachusetts.....	128	5,283	-6	86,748	-1.1	79	2,227	-2.8	39,840	-5.4
Michigan.....	68	3,369	-2.6	47,905	-3.0	33	1,045	-5.1	20,230	-6.9
Minnesota.....	40	1,657	-1.1	26,028	-2	16	470	-4.9	7,929	-3.3
Mississippi.....	7	307	-1.3	3,324	(10)	6	68	(10)	1,011	-2.9
Missouri.....	53	2,996	-9	39,707	-8	23	1,123	-2.9	18,373	-4.5
Montana.....	15	388	(10)	6,474	+2	8	54	+1.9	1,066	-7.7
Nebraska.....	15	878	-1.3	12,274	+8	12	240	-6.2	4,239	-8.5
Nevada.....	3	48	+2.1	896	-7					
New Hampshire.....	19	323	-5.8	4,751	-8.2	4	68	(10)	1,202	-4.4
New Jersey.....	50	5,478	-2.8	98,437	-3.2	19	452	+3.4	10,254	+3.8
New Mexico.....	4	196	-1.5	3,218	+3.5					
New York.....	93	7,329	+2	125,037	-(9)	58	1,056	-1.9	22,021	(9)
North Carolina.....	13	696	-2.3	7,460	-3.0	9	150	+1.4	2,018	+4
North Dakota.....	12	261	+8	4,001	+4.8					
Ohio.....	75	3,774	-2.2	59,047	-5	76	2,230	-1.4	42,195	-3.5
Oklahoma.....	23	958	-1.9	11,950	-4.6	13	202	+3.6	2,711	-2.2
Oregon.....	13	418	+3.2	6,685	+1	9	95	-2.1	1,856	-4.5
Pennsylvania.....	38	2,714	-1.0	41,538	-4	48	1,867	+1.2	34,497	+2.9
Rhode Island.....	21	1,107	-2.8	19,069	-1.7	7	430	+6.2	8,072	+7.0
South Carolina.....	10	445	-7	3,965	-3.6	9	78	+2.6	1,118	+6.7
South Dakota.....	7	145	-7	1,791	-8	3	39	+8.3	718	+11.1
Tennessee.....	14	1,348	-1.7	12,872	-2.3	12	205	-4.7	2,636	-5.8
Texas.....	39	2,321	+3	28,537	-1.0	24	673	-1.8	11,308	-2.9
Utah.....	12	665	+1.4	9,667	+1	11	111	-3.5	2,075	-4.4
Vermont.....	8	129	-8.5	1,527	-7.7	6	86	-10.4	1,305	-6.2
Virginia.....	22	1,090	-1.5	13,192	-2.4	35	463	-1.3	7,182	+7
Washington.....	18	757	-3.6	13,402	-3.5	14	259	-3.0	4,765	-10.9
West Virginia.....	17	581	-1.5	7,786	-1.1	9	244	+1.2	3,495	-3.1
Wisconsin.....	15 28	949	-1.7	13,046	-1.5					
Wyoming.....	8	165	-3.5	2,866	-2.6	3	20	(10)	426	(10)

¹ Less than $\frac{1}{2}$ of 1 percent.

¹⁰ No change.

¹¹ Includes dyeing and cleaning.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN SEPTEMBER AND OCTOBER 1934, BY STATES—Continued

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State	Banks, brokerage, insurance, and real estate				
	Number of establishments	Number on pay roll October 1934	Percentage change from September 1934	Amount of pay roll (1 week) October 1934	Percentage change from September 1934
Alabama.....	31	557	-0.5	\$15,941	+0.5
Arizona.....	33	804	+6.5	20,953	+1.2
Arkansas.....	21	249	-8	6,110	-2
California.....	1,167	22,916	-5	744,852	-3
Colorado.....	48	1,347	-1	42,839	-1.9
Connecticut.....	74	2,037	-3	70,958	-8
Delaware.....	15	493	-2	17,647	-3
District of Columbia.....	39	1,379	+7	50,449	+9
Florida.....	26	843	+8	26,014	+5
Georgia.....	65	1,379	+1.5	41,001	+3
Idaho.....	16	139	(¹⁰)	3,416	-(⁹)
Illinois.....	110	11,272	-2	392,822	+1
Indiana.....	61	1,396	-1.2	45,451	-1
Iowa.....	19	995	-1.7	31,489	-1.4
Kansas.....	¹⁶ 48	<i>859</i>	-4	30,820	+8
Kentucky.....	25	889	-1.4	31,584	+3
Louisiana.....	19	357	-6	13,470	-1.2
Maine.....	20	276	(¹⁰)	8,289	+11.1
Maryland.....	39	1,236	+2.2	41,397	+1.3
Massachusetts.....	¹⁶ 227	7,684	+9	<i>223,008</i>	+(⁹)
Michigan.....	198	7,128	-1.1	222,995	-4
Minnesota.....	58	4,776	-2	134,887	+5
Mississippi.....	16	195	(¹⁰)	4,315	-5
Missouri.....	156	5,994	+1	164,891	+3
Montana.....	26	239	-4.0	6,774	-2.3
Nebraska.....	23	578	-2	19,669	+1
Nevada.....	3	13	(¹⁰)	444	+9
New Hampshire.....	35	424	-2.1	11,643	+11.5
New Jersey.....	152	13,854	+3.4	465,139	+22.2
New Mexico.....	19	125	-1.6	3,366	+1.2
New York.....	1,141	69,668	-8	2,159,977	-7
North Carolina.....	31	603	-3	16,317	+1.0
North Dakota.....	38	270	-4	6,563	-8
Ohio.....	307	8,227	-9	272,783	+1
Oklahoma.....	31	532	-9	16,110	-2
Oregon.....	19	806	-2	27,423	+(⁹)
Pennsylvania.....	¹⁶ 721	<i>21,068</i>	-4	<i>657,006</i>	+1
Rhode Island.....	74	1,738	-5	69,733	+(⁹)
South Carolina.....	11	122	-8	3,792	-7
South Dakota.....	32	251	-2.3	6,210	-1.3
Tennessee.....	34	1,091	(¹⁰)	37,093	(¹⁰)
Texas.....	61	1,941	(¹⁰)	51,600	+4
Utah.....	24	607	-1.6	20,360	-1
Vermont.....	30	235	+9	6,764	-2
Virginia.....	68	1,571	-4	49,614	-4
Washington.....	54	1,969	+2.0	58,370	+1.1
West Virginia.....	50	660	-6	19,101	-1.6
Wisconsin.....	41	1,098	-1.2	37,273	+(⁹)
Wyoming.....	13	118	-8	3,559	-1.5

⁹ Less than 1/10 of 1 percent.

¹⁰ No change.

¹⁶ Does not include brokerage and real estate.

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

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

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

**FLUCTUATIONS IN EMPLOYMENT AND PAY ROLLS IN OCTOBER 1934 AS COMPARED
WITH SEPTEMBER 1934**

Cities	Number of establishments reporting in both months	Number on pay roll		Percentage change from September 1934	Amount of pay roll (1 week)		Percentage change from September 1934
		September 1934	October 1934		September 1934	October 1934	
New York City.....	16,329	629,290	635,309	+1.0	\$15,991,313	\$16,240,533	+1.6
Chicago, Ill.....	4,018	346,758	340,634	-1.8	8,074,936	8,196,287	+1.5
Philadelphia, Pa.....	2,950	202,910	210,777	+3.9	4,504,988	4,753,371	+5.5
Detroit, Mich.....	1,604	157,438	132,870	-15.6	3,756,177	3,653,177	-2.7
Los Angeles, Calif.....	2,603	108,547	109,427	+0.8	2,519,174	2,589,139	+2.8
Cleveland, Ohio.....	2,270	124,587	126,570	+1.6	2,603,513	2,773,640	+6.5
St. Louis, Mo.....	2,712	125,502	122,176	-2.7	2,590,253	2,584,754	-0.2
Baltimore, Md.....	1,362	84,410	84,016	-0.5	1,622,240	1,598,058	-1.5
Boston, Mass.....	3,450	144,254	144,672	+0.3	3,292,658	3,278,039	-0.4
Pittsburgh, Pa.....	1,565	121,141	123,637	+2.1	2,435,068	2,579,931	+5.9
San Francisco, Calif.....	1,595	60,609	61,798	+2.0	1,478,449	1,537,182	+4.0
Buffalo, N. Y.....	1,021	61,741	59,854	-3.1	1,310,632	1,278,905	-2.4
Milwaukee, Wis.....	866	64,783	64,824	+0.1	1,384,016	1,420,627	+2.6

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 1,066,361 on September 15, 1934, to 999,258 (preliminary) on October 15, 1934, or 0.7 percent. Data are not yet available concerning total compensation of employees for October 1934. The latest pay-roll information available shows a decrease from \$128,261,020 in August 1934 to \$121,368,674 in September 1934, or 5.4 percent.

The monthly trend of employment from January 1923 to October 1934 on class I railroads—that is, all roads having operating revenues of \$1,000,000 or over—is shown by index numbers published in the following table. These index numbers, constructed by the Interstate Commerce Commission, are based on the 3-year average, 1923-25 as 100, and cover all employees.

INDEXES OF EMPLOYMENT ON CLASS I STEAM RAILROADS IN THE UNITED STATES, JANUARY 1923 TO OCTOBER 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	57.3
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	-----
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	56.9

¹ Preliminary.

² Average for 10 months.

Source: Interstate Commerce Commission.

Employment and Pay Rolls in the Federal Service, October 1934

THE number of employees in the executive departments of the United States Government in October 1934 totaled 1,668 more than the number in September 1934, and 85,570 more than the number in October 1933.

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

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

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

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

Item	District of Columbia			Outside the District			Entire service		
	Perma- nent	Tempo- rary ¹	Total	Perma- nent	Tempo- rary ¹	Total	Perma- nent	Tempo- rary ¹	Total
Number of employees:									
October 1933.....	64,846	6,386	71,232	461,155	65,548	526,703	526,001	71,934	597,935
September 1934.....	83,931	8,626	92,557	501,822	87,468	589,290	585,753	96,084	681,837
October 1934.....	84,891	8,431	93,322	502,157	88,026	590,183	587,048	96,457	683,505
Gain or loss:									
October 1933 to October 1934.....	+20,045	+2,045	+22,090	+41,002	+22,478	+63,480	+61,047	+24,523	+85,570
September 1934 to October 1934.....	+960	-195	+765	+335	+568	+903	+1,295	+373	+1,668
Percentage change:									
October 1933 to October 1934.....	+30.91	+32.02	+31.01	+8.89	+34.29	+12.05	+11.61	+34.09	+14.31
September 1934 to October 1934.....	+1.14	-2.26	+0.83	+0.07	+0.65	+0.15	+0.22	+0.39	+0.24
Labor turn-over, October 1934:									
Additions ²	2,209	1,417	3,626	7,169	23,281	30,450	9,378	24,698	34,076
Separations ²	1,237	1,612	2,849	6,837	22,422	29,259	8,074	24,034	32,108
Turn-over rate per 100.....	1.47	16.61	3.07	1.36	25.57	4.96	1.38	24.96	4.70

¹ Not including field employees of the Post Office Department.² Not including employees transferred within the Government service as such transfers should not be regarded as labor turn-over.

Comparing October 1934 with September 1934, there was an increase of 1.1 percent in the number of permanent employees in the District of Columbia, but a decrease of 2.3 percent in the number of temporary employees, making a net gain of less than 1 percent in total employment. Comparing October 1934 with the same month of the previous year, the number of permanent employees in the executive departments increased more than 30 percent. Temporary employees increased 32 percent over the same period. Outside the District of Columbia total employment in the executive departments increased 0.15 percent comparing October with September 1934, and 12.05 percent comparing October 1934 with October 1933.

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

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

Months	District of Columbia	Outside District of Columbia	Total	Months	District of Columbia	Outside District of Columbia	Total
January.....	78,045	530,094	608,139	June.....	87,196	573,898	661,094
February.....	79,913	531,839	611,752	July.....	87,978	583,531	671,509
March.....	81,569	541,990	623,559	August.....	91,065	585,772	676,837
April.....	83,850	560,258	644,108	September.....	92,557	589,290	681,837
May.....	85,939	573,147	659,086	October.....	93,322	590,183	683,505

Over the 10-month period employment in the executive departments in the city of Washington increased 19.6 percent, while such employment outside the District increased 11.3 percent.

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

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

Branch of service	Number of employees		Amount of pay roll	
	September	October	September	October
Executive service.....	681,837	683,505	\$99,152,554	\$101,888,573
Military service.....	269,489	270,490	20,855,093	19,945,777
Judicial service.....	1,777	1,846	486,410	453,217
Legislative service.....	3,721	3,700	976,516	975,851
Total.....	956,824	959,541	121,470,573	123,263,417

Slight increases over the month were shown in executive, military, and judicial services. There was a small decrease in the legislative service comparing October with September.

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

TABLE 4.—NUMBER OF EMPLOYEES AND AMOUNTS OF PAY ROLLS FOR ALL BRANCHES OF THE UNITED STATES GOVERNMENT BY MONTHS, DECEMBER 1933 THROUGH OCTOBER 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	94,636,232	268,257	20,391,629	1,750	434,736	3,713	978,908
August.....	676,837	97,919,636	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

Employment Created by Public Works Administration Fund, October 1934

THERE were nearly 510,000 employees working at the site of Public Works Administration construction projects during the month ending October 15, 1934. This construction is financed wholly or in part from the Public Works Administration fund. Pay rolls for these workers totaled nearly \$30,000,000.

Employment on Construction Projects, By Type of Project

TABLE 1 shows, by type of project, employment, pay rolls, and man-hours worked during the month of October ¹ 1934 on Federal projects financed by the Public Works Administration fund.

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

[Subject to revision]

Type of project	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Building construction.....	27, 105	\$1, 771, 498	2, 218, 291	\$0. 799	\$2, 562, 590
Public roads.....	192, 498	7, 513, 176	14, 837, 396	. 506	13, 680, 000
River, harbor, and flood control.....	57, 034	3, 976, 176	6, 002, 868	. 662	6, 900, 810
Streets and roads ¹	14, 256	655, 584	1, 261, 487	. 520	525, 228
Naval vessels.....	19, 274	2, 412, 961	2, 852, 746	. 846	2, 105, 213
Reclamation.....	18, 018	1, 689, 292	2, 740, 846	. 616	5, 321, 163
Forestry.....	4, 528	281, 152	410, 114	. 686	128, 341
Water and sewerage.....	1, 218	65, 307	99, 310	. 658	110, 878
Miscellaneous.....	15, 129	1, 289, 023	2, 122, 122	. 607	1, 284, 057
Total.....	349, 060	19, 654, 169	32, 545, 180	. 604	32, 618, 280

¹ Other than those reported by the Bureau of Public Roads.

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

During the month ending October 15 there were nearly 350,000 people working at the site of Federal Public Works Administration construction projects. This is a decrease of 40,000 as compared with September. Road building accounted for a decrease of 38,000, comparing October with September, and there were increases in employment on river, harbor, and flood-control work, naval vessels, reclamation projects, and water and sewerage work. Of the 350,000 employees working on Federal construction projects, more than 192,000 were engaged in road work. Fifty-seven thousand employees were working on river, harbor, and flood-control projects, and 27,000 on building construction.

There was a great difference in the hourly earnings of men engaged in the different types of construction. Road workers earned 50 cents per hour while workers on naval vessels earned 84 cents per hour.

During the month of October purchase orders were placed for material valued at over \$32,600,000.

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

¹ Whenever the month of October is spoken of in this study it is assumed to mean the month ending Oct. 15.

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

[Subject to revision]

Type of project	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Building construction.....	44,815	\$2,857,797	3,273,261	\$0.873	\$5,932,753
Streets and roads.....	23,020	1,112,694	1,736,883	.641	2,085,173
Water and sewerage.....	37,842	2,133,398	3,086,785	.691	3,434,850
Railroad construction.....	24,787	1,472,818	2,758,554	.534	628,757
Miscellaneous.....	1,237	67,962	95,979	.708	662,015
Total.....	131,701	7,644,669	10,951,462	.698	12,743,548

Non-Federal construction projects are financed by allotments made from the Public Works Administration fund to a State or political subdivisions thereof, or in some cases, to commercial firms. In the case of allotments to States and their political subdivisions, the Public Works Administration makes a direct grant of 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 cases this 70 percent is obtained as a loan from the Public Works Administration; in other cases, the loan is procured from outside sources. Where the loan is made by the Public Works Administration it bears interest and must be repaid within a given period.

No grants are made to commercial firms. Commercial allotments consist entirely of loans. By far the largest part of the commercial allotments have been made to railroads. Railroad work falls under three headings: First, construction, such as electrification, laying of rails and ties, repairs to buildings, etc.; second, building and repairing of locomotives, and passenger and freight cars in railroad shops; third, the building of locomotives and passenger and freight cars in commercial shops.

Data concerning employment on railroad construction projects is shown in table 2. Employment in railroad car and locomotive shops is shown in table 5, page 38. Employment in commercial car and locomotive shops is shown in table 6, page 38.

During the month of October there were more than 131,000 workers employed at the site of non-Federal Public Works Administration construction projects. This is an increase of more than 4,000 as compared with September. These employees were paid over \$7,600,000 for their month's work. Their earnings averaged 70 cents per hour. Average hourly earnings ranged from 53 cents per hour in railroad construction to over 87 cents per hour in building construction.

Orders were placed during October for material to cost over \$12,700,000.

Employment on Construction Projects, by Geographic Divisions

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

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

[Subject to revision]

Geographic division	Wage earners		Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
	Number employed	Weekly average				
New England.....	15,657	15,178	\$1,047,771	1,568,946	\$0.668	\$723,716
Middle Atlantic.....	38,304	37,058	2,283,589	3,620,889	.631	1,459,604
East North Central.....	42,953	41,690	2,490,467	3,742,709	.668	1,579,346
West North Central.....	51,377	49,142	2,270,342	3,890,768	.584	1,996,664
South Atlantic.....	52,717	50,200	3,173,905	5,183,645	.612	3,008,779
East South Central.....	40,563	39,691	1,944,679	4,028,543	.483	928,676
West South Central.....	42,836	41,149	1,712,351	3,512,177	.488	1,772,187
Mountain.....	35,717	34,183	2,660,382	4,050,263	.657	5,975,212
Pacific.....	20,821	20,032	1,669,757	2,142,287	.779	1,154,222
Total continental United States ¹	341,205	328,583	19,290,709	31,767,737	.607	\$2,284,027
Outside continental United States.....	7,855	6,834	363,406	777,443	.468	334,253
Grand total.....	349,060	335,417	19,654,169	32,545,180	.604	\$2,618,280

¹ Includes data for 269 wage earners which cannot be charged to any specific geographic division.

² Includes \$13,680,000, estimated value of material orders placed for public-road projects which cannot be charged to any specific geographic division.

Disbursements for pay rolls in the South Atlantic States during October totaled over \$3,000,000. In the Mountain States the total was over \$2,600,000. Hourly earnings averaged 48 cents in the East South Central States and 78 cents in the Pacific States. The East South Central and the West South Central were the only geographic divisions where earnings averaged less than 50 cents per hour.

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

TABLE 4.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON NONFEDERAL PROJECTS FINANCED FROM THE PUBLIC WORKS ADMINISTRATION FUND, DURING OCTOBER 1934, BY GEOGRAPHIC DIVISION

[Subject to revision]

Geographic division	Wage earners		Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
	Number employed	Weekly average				
New England.....	19,830	16,691	\$1,158,599	1,752,853	\$0.661	\$1,637,745
Middle Atlantic.....	20,414	17,726	1,368,812	1,739,908	.737	2,870,989
East North Central.....	19,230	16,260	1,272,448	1,625,670	.834	2,381,408
West North Central.....	16,089	13,788	799,376	1,025,773	.779	2,070,025
South Atlantic.....	27,971	24,774	1,685,914	2,825,769	.597	1,645,217
East South Central.....	5,783	5,061	298,013	494,249	.603	486,864
West South Central.....	6,417	5,343	267,134	453,044	.583	589,144
Mountain.....	5,628	4,390	275,025	394,145	.698	502,805
Pacific.....	10,008	8,297	500,802	701,269	.714	643,894
Total continental United States.....	131,370	112,340	7,626,123	10,917,680	.698	12,727,791
Outside continental United States.....	331	298	18,546	33,782	.549	15,757
Grand total.....	131,701	112,638	7,644,669	10,951,462	.699	12,743,548

Comparing October with September increases in employment were shown in the following geographic divisions: East North Central, West North Central, South Atlantic, East South Central, West South Central, and Pacific. The West South Central States showed the lowest average hourly earnings, 58.3 cents. The highest earnings were registered in the East North Central States.

Table 5 shows employment, pay rolls, and man-hours worked in car and locomotive shops operated by railroads on work financed from the Public Works Administration fund during October 1934.

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

[Subject to revision]

Geographic division	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
New England.....	467	\$49,590	74,647	\$0.664	\$22,979
Middle Atlantic.....	4,305	247,818	387,357	.640	203,354
East North Central.....	3,379	304,770	477,411	.638	145,405
West North Central.....	1,167	60,765	95,782	.637	33,024
South Atlantic.....	1,143	60,765	95,439	.617	235,180
East South Central.....	2,682	219,850	361,996	.607	11,166
West South Central.....	1,870	90,618	149,508	.606	53,032
Mountain.....	747	27,617	43,929	.629	19,453
Pacific.....	3,134	141,519	224,332	.631	65,371
Total.....	18,894	1,203,520	1,913,401	.629	788,973

Comparing October with September, there was a decrease of nearly 3,000 workers engaged in building railroad cars and locomotives in railroad shops receiving Public Works Administration allotments. There was a difference of only 6 cents per hour comparing the geographic division showing the highest average earnings with the geographic division showing the lowest average earnings per hour.

Table 6 shows employment, pay rolls, and man-hours worked in commercial car and locomotive shops on contracts financed from the Public Works Administration fund during October 1934, by geographic divisions.

TABLE 6.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED IN COMMERCIAL CAR AND LOCOMOTIVE SHOPS ON CONTRACTS FINANCED FROM THE PUBLIC WORKS ADMINISTRATION FUND DURING OCTOBER 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
New England.....	462	\$22,527	38,723	\$0.582
Middle Atlantic.....	4,379	428,895	651,739	.658
East North Central.....	1,711	182,032	267,179	.681
West North Central.....	870	68,741	134,608	.511
South Atlantic.....	722	75,687	115,324	.656
Total.....	8,144	777,882	1,207,573	.644

Of the 8,100 employees working in commercial shops receiving Public Works Administration orders, more than 4,300 were working in the Middle Atlantic States. Earnings average 51 cents per hour in the West North Central States and 68 cents per hour in the East North Central States.

Table 7 shows the value of materials for which orders have been placed since the beginning of the Public Works Administration program in August 1933 to October 15, 1934, inclusive.

TABLE 7.—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 Sept. 15, 1934	During month ending Oct. 15, 1934
Aircraft (new).....	\$4, 284, 890
Airplane parts.....	4, 438, 104	\$15, 662
Aluminum manufactures.....	101, 894	23, 772
Ammunition and related products.....	592, 462	57, 540
Asbestos.....	52, 684	2, 862
Awnings, tents, canvas, etc.....	147, 590	6, 629
Belting, miscellaneous.....	18, 146	9, 177
Boat building, steel and wooden (small).....	782, 896	319, 473
Bolts, nuts, washers, etc.....	1, 781, 948	99, 214
Carpets and rugs.....	36, 259	6, 612
Carriages and wagons.....	28, 356	537
Cast-iron pipe and fittings.....	7, 490, 011	1, 149, 990
Cement.....	60, 603, 504	8, 989, 115
Chemicals.....	183, 727	5, 273
Clay products.....	5, 719, 817	992, 327
Coal.....	602, 263	120, 860
Compressed and liquefied gases.....	158, 684	25, 449
Concrete products.....	7, 446, 364	1, 000, 343
Copper products.....	362, 948	34, 496
Cordage and twine.....	180, 816	14, 692
Cork products.....	41, 894	4, 771
Cotton goods.....	70, 312	508
Creosote.....	446, 947	22, 214
Crushed stone.....	19, 577, 643	2, 030, 067
Doors, shutters, and window sash and frames, molding and trim (metal).....	1, 978, 295	244, 248
Electrical machinery, apparatus, and supplies.....	22, 199, 127	1, 301, 669
Elevators and parts.....	63, 963	25, 861
Engines, turbines, tractors, water wheels, and windmills.....	3, 215, 491	414, 223
Explosives.....	2, 158, 159	169, 461
Felt goods.....	155, 867	3, 951
Firearms.....	748, 941	40
Forgings, iron and steel.....	2, 833, 674	79, 276
Foundry and machine-shop products, not elsewhere classified.....	56, 423, 062	4, 906, 702
Furniture, including store and office fixtures.....	797, 330	65, 653
Glass.....	307, 379	32, 926
Hardware, miscellaneous.....	2, 113, 017	204, 892
Instruments, professional and scientific.....	1, 365, 837	56, 009
Jute goods.....	37, 556	3, 830
Lighting equipment.....	1, 167, 326	25, 708
Lime.....	115, 400	18, 733
Linoleum.....	12, 737	1, 610
Locomotives, other than steam.....	512, 766	4, 446, 856
Locomotives, steam.....	6, 837, 064
Lumber and timber products.....	25, 755, 401	2, 185, 036
Machine tools.....	3, 382, 678	192, 693
Marble, granite, slate, and other stone products.....	6, 837, 018	1, 390, 851
Mattresses and bed springs.....	14, 889	882
Meters (gas, water, etc.) and gas generators.....	143, 245	25, 316
Minerals and earths, ground or otherwise treated.....	95, 797	1, 894
Motor vehicles, passenger.....	319, 167	4, 552
Motor vehicles, trucks.....	631, 821	131, 664
Nails and spikes.....	501, 051	55, 337
Nonferrous-metal alloys, nonferrous-metal products, except aluminum, not elsewhere classified.....	822, 220	67, 216
Paints and varnishes.....	1, 163, 612	83, 244

TABLE 7.—VALUE OF MATERIAL ORDERS PLACED ON PUBLIC-WORKS PROJECTS, BY TYPE OF MATERIAL—Continued

[Subject to revision]

Type of material	Value of material orders placed	
	From beginning of program to Sept. 15, 1934	During month ending Oct. 15, 1934
Paper products.....	\$25, 479	\$4, 143
Paving materials and mixtures.....	8, 556, 281	921, 526
Petroleum products.....	15, 003, 050	1, 623, 877
Photographic apparatus and materials.....	143, 821	7, 303
Planing-mill products.....	2, 562, 150	255, 656
Plumbing supplies.....	4, 489, 485	488, 099
Pumps and pumping equipment.....	5, 848, 588	431, 911
Radio apparatus and supplies.....	576, 879	6, 003
Rail fastenings, excluding spikes.....	4, 867, 824	32, 907
Rails, steel.....	17, 663, 365	208, 639
Railway cars, freight.....	34, 644, 651	-----
Railway cars, mail and express.....	420, 443	-----
Railway cars, passenger.....	7, 152, 435	-----
Refrigerators and refrigerator cabinets, including mechanical refrigerators.....	552, 107	9, 689
Roofing, built-up and roll; asphalt shingles; roof coatings, other than paint.....	1, 327, 646	120, 385
Rubber goods.....	216, 957	19, 546
Sacks and bags.....	16, 225	963
Sand and gravel.....	32, 945, 299	4, 169, 458
Sheet-metal work.....	1, 789, 091	151, 887
Smelting and refining lead.....	115, 774	8, 168
Smelting and refining zinc.....	17, 511	472
Springs, steel.....	568, 139	3, 819
Steam and hot-water heating apparatus.....	2, 808, 481	333, 319
Steam and other packing, pipe and boiler covering, and gaskets.....	432, 024	78, 774
Steel-works and rolling-mill products, other than steel rails, including structural and ornamental metal work.....	74, 184, 292	5, 658, 582
Stoves and ranges (other than electric) and warm-air furnaces.....	137, 528	5, 431
Switches, railway.....	773, 719	912
Theatrical scenery and stage equipment.....	25, 900	4, 201
Tools, other than machine tools.....	2, 928, 604	261, 521
Upholstering materials, not elsewhere classified.....	84, 399	1, 952
Wall plaster, wall board, insulating board, and floor composition.....	992, 207	153, 798
Waste.....	21, 291	1, 981
Window and door screens and weather strip.....	69, 257	1, 551
Window shades and fixtures.....	44, 752	2, 381
Wire, drawn from purchased rods.....	2, 312, 688	89, 882
Wirework, not elsewhere classified.....	582, 954	132, 712
Wrought pipe, welded and heavy riveted.....	259, 662	148, 582
Other.....	22, 577, 863	4, 181, 788
Total.....	505, 607, 830	50, 593, 683

Materials valued at more than \$555,000,000 have been purchased since the beginning of the Public Works Administration construction program. Practically all types of manufacturing have profited by these material orders. For example, the cement manufacturers have received orders valued at nearly \$70,000,000; foundry and machine shops have received orders totaling over \$60,000,000; steel mill orders have amounted to over \$97,000,000.

During October orders were placed for materials valued at more than \$50,000,000. It is estimated that the fabrication of materials for which orders were placed during October will create 113,000 man-months of labor. The manufacture of materials for which orders have been placed since the beginning of the program will create nearly 1,500,000 man-months of labor. This accounts only for the labor in the fabrication of material in the form in which it is

to be used. For example, only labor in manufacturing brick is counted, not the labor in taking the clay from the pits or in hauling the clay and other materials used in the brick plant. In fabricating steel rails only the labor in the rolling mill is counted, not labor created in mining, smelting, and transporting 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 material, blanks are sent to each firm receiving a material order from the United States Government to be financed from the public-works fund, asking them to estimate the number of man-hours of labor created in their plant in manufacturing the material 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 8 shows employment, pay rolls, and man-hours worked by employees since the inception of the public-works program in August 1933 to October 1934, inclusive.

TABLE 8.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED DURING AUGUST 1933 TO OCTOBER 1934 ON PROJECTS FINANCED FROM THE PUBLIC WORKS ADMINISTRATION FUND, BY MONTHS

[Subject to revision]

Month	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
1933					
August.....	4,699	\$280,040	539,454	\$0.519	\$202,100
September.....	33,836	1,961,496	3,920,009	.500	1,622,365
October.....	121,403	7,325,313	14,636,603	.500	1 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	23,522,929
February.....	295,741	15,246,423	28,938,177	.527	24,565,004
March.....	292,696	15,636,545	29,171,634	.536	2 69,334,408
April.....	371,234	17,907,842	31,559,966	.567	2 66,639,862
May.....	491,166	25,076,908	44,912,412	.558	2 49,720,378
June.....	592,057	32,783,533	58,335,119	.562	2 57,589,895
July.....	624,286	33,829,858	59,436,314	.569	2 49,299,174
August.....	602,581	35,142,770	59,943,328	.586	2 46,961,648
September.....	549,910	31,720,317	51,699,495	.614	2 44,487,057
October.....	507,799	29,280,240	46,617,616	.628	2 50,593,683
Total.....		290,649,309	515,097,247	.564	556,201,513

1 Includes orders placed for naval vessels prior to October 1933.

2 Includes orders placed by railroads for new equipment.

During the 15-month period covered by the Public Works Administration, over \$290,000,000 has been paid out for labor on the job, and purchase orders have been placed for material to cost over \$556,000,000. Earnings for the workers at the site of the construction project have averaged over 56 cents per hour over the 15-month period.

Rates of Wages, Railroad Construction Employees

DURING the early spring of 1934 the Public Works Administration began allotting money to various railroads for construction projects. From these funds the railroads purchased material for the use of such construction projects as replacing rails and ties, electrifying right-of-ways, etc. These loans created work which would otherwise have been deferred for some time.

Table 9 shows average rates paid by railroads to employees performing construction work financed from Public Works Administration fund, by occupation and by geographic division.

TABLE 9.—AVERAGE RATES PAID BY RAILROADS TO EMPLOYEES PERFORMING WORK IN CONNECTION WITH IMPROVEMENTS TO WAYS FROM PUBLIC WORKS FUNDS, BY OCCUPATION AND GEOGRAPHIC DIVISION

Geographic division	Rate in force prior to July 1, 1934			Rate in force subsequent to July 1, 1934			Rate in force subsequent to July 1, 1934		
	Basic rate	Rate in force prior to July 1, 1934	Rate in force subsequent to July 1, 1934	Basic rate	Rate in force prior to July 1, 1934	Rate in force subsequent to July 1, 1934	Basic rate	Rate in force prior to July 1, 1934	Rate in force subsequent to July 1, 1934
	Gang foremen (section laborers)			Gang foremen (extra gang and worktrain laborers)			Assistant gang foremen (section laborers)		
	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Hourly	Hourly	Hourly
New England.....	\$141.72	\$127.55	\$131.09	\$146.39	\$131.75	\$135.41	\$0.550	\$0.495	\$0.509
Middle Atlantic.....	142.73	128.46	132.03	146.64	131.98	135.64	.544	.490	.503
East North Central.....	126.17	113.55	116.71	137.62	123.86	127.30	.547	.492	.506
West North Central.....	120.90	108.81	111.83	142.00	127.80	131.35	.518	.466	.479
South Atlantic.....	141.63	127.47	131.01	148.00	133.20	136.90	.540	.486	.500
East South Central.....	123.84	111.46	114.55	137.70	123.93	127.37			
West South Central.....	133.25	119.93	123.26	130.07	117.06	120.31	.420	.378	.389
Mountain.....	129.45	116.51	119.74	143.13	128.82	132.40	.534	.481	.494
Pacific.....	130.92	117.83	121.10	142.14	127.93	131.48	.537	.483	.497
United States.....	130.77	117.69	120.96	143.94	129.55	133.14	.542	.488	.501
	Laborers (section)			Laborers (extra gang and worktrain)			Carpenters		
	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly
New England.....	\$0.402	\$0.362	\$0.372	\$0.393	\$0.354	\$0.364	\$0.684	\$0.616	\$0.633
Middle Atlantic.....	.409	.368	.378				.702	.632	.649
East North Central.....	.355	.320	.328	.351	.316	.325	.567	.510	.524
West North Central.....	.380	.342	.352	.351	.316	.325	.605	.545	.560
South Atlantic.....	.402	.362	.372	.222	.200	.205	.692	.623	.640
East South Central.....	.250	.225	.231	.250	.225	.231	.595	.536	.550
West South Central.....	.265	.239	.245	.250	.225	.231	.568	.511	.525
Mountain.....	.361	.325	.334	.356	.320	.329	.652	.587	.603
Pacific.....	.372	.335	.344	.354	.319	.327	.664	.598	.614
United States.....	.377	.339	.349	.346	.311	.320	.663	.597	.613
	Carpenter's helpers			Signalmen and signal maintainers (excluding foremen)			Assistant signalmen and assistant signal maintainers (excluding helpers)		
	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly
New England.....	\$0.795	\$0.718	\$0.735	\$0.795	\$0.718	\$0.735	\$0.538	\$0.484	\$0.498
Middle Atlantic.....	.821	.739	.759				.645	.581	.597
East North Central.....	.804	.724	.744	.804	.724	.744	.630	.567	.583
West North Central.....	.733	.660	.678	.733	.660	.678	.640	.576	.592
South Atlantic.....	.522	.470	.483	.820	.738	.759			
East South Central.....	.487	.438	.450						
West South Central.....	.430	.387	.398	.750	.675	.694	.490	.441	.453
Mountain.....	.511	.460	.473	.773	.696	.715	.670	.603	.620
Pacific.....	.511	.460	.473	.780	.702	.722	.690	.621	.638
United States.....	.508	.457	.470	.814	.733	.753	.600	.540	.555

¹ As computed by the Bureau on the basis of an 8-hour day and a 26-day month from hourly and daily wage rates

The data show average rates paid 24,000 wage earners in 9 occupations. Rates are shown as paid prior to July 1, 1934, and as paid subsequent to that date. There was considerable variation of rates in the different geographic divisions. For example, rates paid section laborers since July 1, 1934, ranged from 23 cents in the East South Central States to nearly 38 cents in the Middle Atlantic States. Monthly rates for gang foremen (section laborers) ranged from \$112 in the West North Central States to \$132 in the Middle Atlantic States.

Emergency Work Program

DURING the week ending October 25 more than 1,400,000 persons were given employment by the emergency work program of the Federal Emergency Relief Administration. This is an increase of 3.1 percent as compared with the last week in September. The amount of pay rolls for the week increased nearly 6 percent.

Table 1 shows the number of employees and the amounts of pay rolls for workers on the emergency work program for the weeks ending September 27 and October 25.

TABLE 1.—NUMBER OF EMPLOYEES AND AMOUNTS OF PAY ROLLS FOR WORKERS ON EMERGENCY WORK PROGRAM, SEPT. 27 AND OCT. 25, 1934

Geographic division	Number of employees week ending—		Amount of pay roll week ending—	
	Sept. 27	Oct. 25	Sept. 27	Oct. 25
New England.....	110,649	119,411	\$1,333,656	\$1,369,669
Middle Atlantic.....	171,974	211,796	2,911,195	3,458,329
East North Central.....	268,147	238,209	2,646,963	2,357,145
West North Central.....	220,649	258,620	1,613,626	2,088,821
South Atlantic.....	189,483	188,496	1,187,183	1,242,007
East South Central.....	115,396	81,442	539,814	440,939
West South Central.....	157,914	168,287	1,146,601	1,176,869
Mountain.....	64,945	58,605	762,313	647,223
Pacific.....	88,388	105,808	1,013,176	1,114,546
Total.....	1,387,540	1,430,674	13,154,527	13,895,548
Percentage change.....		+3.11		+5.63

Comparing the 2 weeks under discussion, the number of employees in the work program increased in 5 of the 9 geographic divisions. Disbursements for pay rolls increased in 6 of the 9 geographic divisions.

Table 2 shows the number of employees and amounts of pay rolls for those given employment by the emergency work program of the Federal Emergency Relief Administration, by months, from the inception of the program in March to October 1934, inclusive.

TABLE 2.—NUMBER OF EMPLOYEES AND AMOUNTS OF PAY ROLLS FOR WORKERS ON EMERGENCY WORK PROGRAM, BY MONTHS, 1934¹

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

¹ Revised.² Wage earners in this report represent the number that worked any part of the month. These employees are allowed to work each month till a certain specified maximum is earned, then replaced by other workers taken from the relief rolls.

At the present time, there are nearly 2,000,000 workers carried on the rolls of the Emergency Work program. This does not mean, however, that as many as 2,000,000 people 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.

Emergency Conservation Work

COMPARING October with September, there was an increase of over 56,000 in the civilian conservation camps throughout the country. The gain in enrolled personnel accounted for 54,600 of the total increase.

Table 1 shows employment and pay rolls for emergency conservation work during the months of September and October 1934, by type of work.

TABLE 1.—EMPLOYMENT AND PAY ROLLS IN THE EMERGENCY CONSERVATION WORK, SEPTEMBER AND OCTOBER 1934

Group	Number of employees		Amount of pay rolls	
	September	October	September	October
Enrolled personnel.....	294,969	349,624	\$9,211,878	\$10,918,765
Reserve officers.....	6,163	6,235	1,540,109	1,598,822
Educational advisers.....	1,098	1,101	176,362	176,609
Supervisory and technical ¹	² 33,555	² 34,934	4,094,620	4,285,700
Total.....	335,785	391,894	15,022,969	16,939,596

¹ Includes carpenters, electricians, and laborers.² 28,842 included in the table for executive service.³ 29,417 included in the table for executive service.

There was an increase of nearly \$2,000,000 in disbursements for pay rolls for Emergency Conservation Work comparing October with September. Increases for enrolled workers amounted to over \$1,700,000.

In addition to their pay, enrolled workers received free board, clothing, and medical attention.

Employment and pay roll data for emergency conservation work are collected by the Bureau of Labor Statistics from the War Department, Department of Agriculture, Treasury Department, and the Department of the Interior.

The pay of the enrolled workers 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 2 shows monthly totals of employees and pay rolls in emergency conservation work from the inception of the program in May 1933 to October 1934, inclusive.

TABLE 2.—MONTHLY TOTALS OF EMPLOYEES, AND PAY ROLLS IN THE EMERGENCY CONSERVATION WORK FROM MAY 1933 TO OCTOBER 1934

Month	Number of employees	Amount of pay roll	Month	Number of employees	Amount of pay roll
1933			1934		
May.....	191,380	\$6,388,760	January.....	331,594	\$13,581,506
June.....	283,481	9,876,780	February.....	321,829	13,081,393
July.....	316,109	11,482,262	March.....	247,591	10,792,319
August.....	307,100	11,604,401	April.....	314,664	13,214,018
September.....	242,968	9,759,628	May.....	335,871	14,047,612
October.....	294,861	12,311,033	June.....	280,271	12,641,401
November.....	344,273	14,554,695	July.....	389,104	16,032,734
December.....	321,701	12,951,042	August.....	385,340	16,863,826
			September.....	355,785	15,022,969
			October.....	391,894	16,939,595

Employment on this program has ranged from less than 192,000 to more than 391,000, the high point to date being reached in October 1934.

The pay roll for the 18-month period covered by the program amounted to \$230,645,874.

Employment on State Road Projects

There were over 240,000 men employed by the various State governments in building new roads and maintaining existing roads. This is 9,000 fewer than on the rolls in September.

Table 1 shows the number of employees engaged in building and maintaining State roads during the months of September and October 1934, by geographic divisions.

TABLE 1.—NUMBER OF EMPLOYEES ENGAGED IN THE CONSTRUCTION AND MAINTENANCE OF STATE ROADS, DURING SEPTEMBER AND OCTOBER 1934, BY GEOGRAPHIC DIVISIONS¹

Geographic division	New				Maintenance			
	Number of employees		Amount of pay rolls		Number of employees		Amount of pay rolls	
	Sep-tem-ber	Octo-ber	Sep-tem-ber	October	Sep-tem-ber	Octo-ber	Sep-tem-ber	October
New England.....	14, 071	20, 926	\$590, 852	\$764, 476	7, 465	6, 405	\$581, 196	\$509, 935
Middle Atlantic.....	5, 869	6, 601	342, 563	393, 366	60, 564	55, 479	2, 960, 348	2, 890, 043
East North Central.....	11, 487	12, 963	597, 790	655, 935	30, 887	23, 217	2, 113, 130	1, 531, 652
West North Central.....	6, 220	7, 625	231, 827	263, 424	17, 316	18, 067	972, 804	987, 239
South Atlantic.....	10, 169	9, 118	193, 789	177, 265	32, 318	29, 917	1, 375, 652	1, 294, 370
East South Central.....	2, 880	2, 452	119, 040	105, 777	12, 293	11, 010	432, 348	373, 152
West South Central.....	6, 282	5, 515	232, 419	244, 678	12, 419	10, 599	844, 957	754, 826
Mountain.....	2, 148	2, 887	132, 862	159, 485	8, 351	8, 435	576, 022	592, 978
Pacific.....	2, 739	2, 921	174, 858	170, 050	6, 710	6, 032	530, 457	563, 217
Total, continental United States.....	61, 865	71, 008	\$2,616,000	2, 934, 456	188, 323	169, 161	10, 386, 914	9, 497, 412
Percentage of change.....		+14.78		+12.17		-10.18		-8.56
Outside continental United States.....	0	0	0	0	83	74	9, 391	7, 870
Grand total.....	61, 865	71, 008	\$2,616,000	2, 934, 456	188, 406	169, 235	10, 396, 305	9, 505, 282

¹ Excluding employment furnished by projects financed from public-works funds.

² Revised.

During the month ending October 31, 71,000 workers were employed by State governments in building new roads wholly paid for from State funds. This is an increase of nearly 10,000 as compared with the previous month. The number of workers engaged in maintaining existing State roads, however, showed a decrease of more than 19,000 comparing the 2 months.

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

TABLE 2.—NUMBER OF EMPLOYEES ENGAGED IN THE CONSTRUCTION AND MAINTENANCE OF STATE ROADS, JANUARY TO OCTOBER 1934, INCLUSIVE¹

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

¹ Excluding employment furnished by projects financed from the public-works fund.

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

DURING the month ending October 15, over 17,400 workers were engaged on Reconstruction Finance Corporation construction projects. These men drew for their month's pay nearly \$1,600,000.

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

TABLE 1.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON PROJECTS FINANCED BY THE SELF-LIQUIDATING DIVISION OF THE RECONSTRUCTION FINANCE CORPORATION DURING OCTOBER 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
Railroad construction.....	19	\$1,041	2,046	\$0.509	\$349
Building construction.....	2,535	239,830	210,975	1.137	90,662
Bridges.....	5,621	420,870	505,041	.833	1,258,435
Reclamation.....	2,619	160,295	369,302	.434	63,706
Water and sewage.....	4,931	595,566	842,683	.707	393,872
Miscellaneous.....	1,787	179,394	251,799	.712	467,150
Total.....	17,482	1,596,996	2,181,846	.732	2,274,174

Nearly 2,200,000 man-hours of work were provided during October. Hourly earnings averaged 73 cents, ranging from 43 cents for reclamation projects to \$1.14 for building construction.

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

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

[Subject to revision]

Geographic divisions	Number of wage earners	Amount of pay roll	Number of man-hours worked	Average earnings per hour	Value of material orders placed
New England.....	0	0	0	0	0
Middle Atlantic.....	3,958	\$369,249	355,844	\$1.037	\$865,281
East North Central.....	284	34,223	33,164	1.031	8,253
West North Central.....	57	3,428	4,581	.748	0
South Atlantic.....	305	9,896	25,334	.391	5,335
East South Central.....	109	5,495	18,538	.296	349
West South Central.....	1,206	84,286	116,769	.722	29,212
Mountain.....	2,639	161,169	370,409	.435	63,706
Pacific.....	8,924	929,250	1,257,207	.739	1,302,038
Total.....	17,482	1,596,996	2,181,846	.732	2,274,174

More than 50 percent of the workers on Reconstruction Finance Corporation construction projects were employed in the Pacific States and over 20 percent in the Middle Atlantic States. There was a great difference in hourly earnings, comparing geographic divisions. The East South Central States averaged less than 30 cents per hour, and the Middle Atlantic and East North Central States over \$1.03 per hour.

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

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

[Subject to revision]

Month	Number of wage earners	Amount of pay roll	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

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

TABLE 4.—VALUE OF MATERIAL ORDERS PLACED FOR PROJECTS FINANCED BY THE SELF-LIQUIDATING DIVISION OF THE RECONSTRUCTION FINANCE CORPORATION, BY TYPE OF MATERIAL

Type of material	Value of material orders placed—	
	From Mar. to Sept. 15, 1934	During period ending Oct. 15, 1934
Belting, leather.....	\$1, 516	—
Bolts, nuts, rivets, etc.....	3, 805	\$3, 268
Cast-iron pipe and fittings.....	313, 926	11, 988
Cement.....	1, 013, 558	90, 001
Clay products.....	264, 587	8, 505
Coal.....	28, 347	7, 187
Compressed and liquefied gases.....	22, 728	2, 352
Concrete products.....	995, 601	99, 219
Copper products.....	519, 199	202, 706
Cordage and twine.....	5, 493	—
Crushed stone.....	50, 545	3, 816
Electrical machinery and supplies.....	824, 128	100, 571
Explosives.....	567, 142	81, 293
Felt goods.....	4, 446	—
Foundry and machine-shop products, not elsewhere classified.....	1, 108, 347	139, 427
Fuel oil.....	69, 099	1, 963
Gasoline.....	177, 950	30, 079
Glass.....	3, 617	—
Hardware, miscellaneous.....	549, 806	27, 246
Insulation materials.....	5, 738	3, 621
Lime.....	8, 180	—
Lubricating oils and greases.....	28, 846	2, 520
Lumber and timber products.....	845, 592	102, 364
Marble, granite, slate, and other stone products.....	64, 239	2, 636
Motor vehicles and supplies.....	88, 586	11, 015
Nails and spikes.....	8, 401	—
Paints and varnishes.....	7, 610	2, 720
Plumbing supplies.....	201, 142	31, 228
Pumps and pumping equipment.....	11, 244	—
Roofing.....	5, 629	—
Rubber goods.....	16, 669	3, 109
Sand and gravel.....	310, 587	35, 436
Sheet-metal work.....	25, 361	2, 773
Steam and hot-water heating apparatus.....	45, 403	—
Steel-works and rolling-mill products.....	4, 896, 158	1, 179, 897
Switches, railway.....	5, 703	2, 024
Tools.....	74, 961	2, 598
Wire.....	193, 331	3, 834
Wirework, not elsewhere classified.....	23, 224	—
Other.....	356, 419	78, 778
Total.....	13, 746, 863	2, 274, 174

During the 7-month period ending October 15, purchase orders were placed for materials valued at over \$16,000,000. Over \$6,000,000 was spent for steel-works and rolling-mill products and over \$1,000,000 each for cement and foundry and machine-shop products.

Employment on Construction Projects Financed from Regular Governmental Appropriations

At the request of the Secretary of Labor, the Director of Procurement has caused the following paragraph to be inserted in all Government contracts awarded after July 1, 1934:

The contractor will report monthly, and will cause all subcontractors to report in like manner, within 5 days after the close of each calendar month, on forms to be furnished by the Department of Labor, the number of persons on the respective pay rolls, the aggregate amount of such pay rolls, the man-hours worked, and the total expenditures for materials. He shall furnish to the Department of Labor the names and addresses of all subcontractors on the work at the earliest date practicable, provided that the foregoing shall be applicable only to work at the site of the construction project.

Whenever a contract is awarded by a Federal department, the Bureau of Labor Statistics is immediately notified, by the department making the award, of the name and address of the contractor. This information is supplied on post-card forms furnished by the Bureau. Blanks are then mailed to the Bureau showing the number of men employed, amount of pay rolls, number of man-hours worked, and the value of material orders placed. The primary contractor also notifies the Bureau on the same form of the name and address of all firms receiving subcontracts. Blanks are in turn mailed to each subcontractor doing work at the site of the construction project.

The following tables show data concerning work on construction projects on which work has started since July 1. Except for road projects, the Bureau has no information concerning employment on Federal construction projects financed from regular appropriations that were under way previous to July 1, 1934. For employment on construction projects financed from Public Works Administration funds, see pages 34 to 41.

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

TABLE 1.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON PROJECTS ON WHICH WORK HAS STARTED SINCE JULY 1 BY APPROPRIATIONS MADE DIRECT TO FEDERAL DEPARTMENTS BY THE CONGRESS, FOR OCTOBER 1934, BY TYPES OF PROJECTS

[Subject to revision]

Types of projects	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Building construction.....	5,766	\$323,610	433,877	\$0.746	\$417,589
Public roads.....	2,911	152,072	265,608	.573	206,872
River, harbors, and flood control.....	3,505	156,722	322,857	.485	99,419
Streets and roads.....	502	16,659	27,748	.600	11,408
Naval vessels.....	301	22,098	22,455	.984	226,606
Forestry.....	4	206	274	.751	54
Water and sewage.....	149	5,894	10,462	.563	6,978
Miscellaneous.....	455	12,343	20,242	.610	13,909
Total.....	13,593	689,604	1,103,523	.625	982,835

There were over 13,500 workers employed on construction projects financed by regular governmental appropriations. More than 40 percent of these men were employed on building construction, 3,500 on river, harbor, and flood-control work, and 2,900 on road building. The pay rolls for the month totaled \$689,000. More than 1,100,000 man-hours of labor were provided, and the men earned an average of 62.5 cents per hour. Earnings for river, harbor, and flood-control work averaged 49 cents per hour. In contrast, earnings of workers on naval vessels averaged 98 cents per hour.

Orders were placed by contractors working on these construction projects for material to cost over \$980,000.

Table 2 shows for the month of October 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 2.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON PROJECTS ON WHICH WORK HAS STARTED SINCE JULY 1 BY APPROPRIATIONS MADE DIRECT TO FEDERAL DEPARTMENTS BY THE CONGRESS, FOR OCTOBER 1934, BY GEOGRAPHIC DIVISIONS

[Subject to revision]

Geographic divisions	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
New England.....	415	\$23,077	37,841	\$0.742	\$234,638
Middle Atlantic.....	1,031	60,136	102,559	.586	12,795
East North Central.....	3,610	207,530	275,021	.755	227,106
West North Central.....	500	19,289	32,252	.597	20,469
South Atlantic.....	1,591	63,035	94,834	.665	95,187
East South Central.....	1,647	70,013	154,873	.452	25,916
West South Central.....	2,256	102,380	199,027	.514	84,446
Mountain.....	781	31,619	46,658	.678	9,128
Pacific.....	1,237	80,107	108,796	.736	63,331
Total continental United States.....	13,068	662,166	1,051,861	.630	1,979,888
Outside continental United States.....	525	27,438	51,662	.531	2,947
Grand total.....	13,593	689,604	1,103,523	.625	1,982,835

¹ Includes \$206,872 estimated value of orders placed for public-roads projects which cannot be charged to any specific geographic division.

Workers in the New England, East North Central, and the Pacific States earned over 70 cents per hour, and only one geographic division, the East South Central, earned less than 50 cents per hour.

Table 3 shows for the months of August, September, and October employment, pay rolls, and man-hours worked on construction projects starting since July 1, which are financed from regular governmental appropriations.

TABLE 3.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED, ON PROJECTS ON WHICH WORK STARTED SINCE JULY 1, BY APPROPRIATIONS MADE DIRECT TO FEDERAL DEPARTMENTS BY THE CONGRESS FROM AUGUST THROUGH OCTOBER 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

Comparing October with August, there was an increase of nearly 8,000 in the number of wage earners and over \$360,000 in monthly pay rolls.

Table 4 shows the value of materials for which orders were placed for construction projects on which work has started since July 1, financed from regular governmental appropriations, by type of material.

TABLE 4.—VALUE OF MATERIAL ORDERS PLACED FOR USE ON CONSTRUCTION PROJECTS FINANCED BY APPROPRIATIONS MADE DIRECT TO FEDERAL DEPARTMENTS BY THE CONGRESS, BY TYPES OF MATERIAL

Type of material	Value of material orders placed—	
	From July 15, to Sept. 15 1934	During period ending Oct. 15, 1934
Bolts, nuts, rivets, etc.....		\$1,047
Cast-iron pipe fittings.....	1,598	6,096
Cement.....	32,170	73,977
Clay products.....	13,219	15,395
Coal.....	5,923	3,443
Concrete products.....	2,331	20,466
Copper products.....		8,948
Cordage and twine.....	1,941	1,226
Crushed stone.....	2,515	25,599
Electrical machinery.....	10,748	86,848
Explosives.....		2,017
Foundry and machine-shop products, not elsewhere classified.....	24,848	108,280
Hardware.....	15,025	10,709
Insulation materials.....	30,780	16,909
Lumber and timber products.....	235,314	150,433
Marble, granite, slate, and other stone products.....	10,175	21,750
Nails and spikes.....	5,064	1,877
Paints and varnishes.....	14,884	16,478
Paving mixtures.....	7,270	10,240
Petroleum products.....	3,847	33,412
Plumbing supplies.....	20,893	26,552
Pumps and pumping equipment.....	2,117	8,202
Roofing materials.....	32,843	15,741
Sand and gravel.....	3,279	36,595
Sheet-metal works.....	2,818	7,940
Steam and hot-water heating apparatus.....	3,679	6,625
Steel-works and rolling-mill products.....	268,315	194,381
Tools, miscellaneous not elsewhere classified.....		2,966
Wire and wirework.....	3,369	3,831
Other.....	75,727	65,743
Total.....	842,292	982,835

During the 3-month period ending October 15, orders have been placed by contractors and Government agencies doing force-account work for materials to cost over \$1,800,000. Steel-works and rolling-mill products accounted for over one-fourth of this total.

Orders have been placed for lumber and timber products valued at over \$380,000.

Wage-Rate Changes in American Industries

Manufacturing Industries

THE following table presents information concerning wage-rate adjustments occurring between September 15 and October 15, 1934, as shown by reports received from 25,283 manufacturing establishments employing 3,600,140 workers in October.

One hundred and sixty-four establishments in 39 industries reported wage-rate increases averaging 8.1 percent and affecting 70,218 employees. Nine establishments in eight industries reported decreases which averaged 7.8 percent and affected 1,245 workers.

The outstanding wage-rate adjustment was an average increase of 8.1 percent received by 58,204 workers in 62 slaughtering and meat packing establishments.

Four paper and pulp establishments reported an average wage-rate increase of 9.3 percent to 1,643 employees, 1,400 workers in 1 soap manufacturing establishment received a 10-percent increase, 1,277 employees in 4 furniture manufacturing establishments received one of 9.9 percent, and 1,010 workers in 3 canning establishments were given an average increase of 10.8 percent. The increases in each of the remaining industries affected 897 employees or less.

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

Industry	Establishments reporting	Total number of employees	Number of establishments reporting—			Number of employees having—		
			No wage-rate changes	Wage-rate increases	Wage-rate decreases	No wage-rate changes	Wage-rate increases	Wage-rate decreases
All manufacturing industries.....	25, 283	3, 600, 140	25, 110	164	9	3, 528, 677	70, 218	1, 245
Percentage of total.....	100. 0	100. 0	99. 3	0. 6	(1)	98. 0	2. 0	(1)
Iron and steel and their products, not including machinery:								
Blast furnaces, steel works, and rolling mills.....	239	246, 415	237	1	1	246, 348	40	27
Bolts, nuts, washers, and rivets.....	59	8, 667	59	—	—	8, 667	—	—
Cast-iron pipe.....	51	9, 446	51	—	—	9, 446	—	—
Cutlery (not including silver and plated cutlery) and edge tools.....	165	13, 372	163	2	—	13, 334	38	—
Forgings, iron and steel.....	91	9, 145	91	—	—	9, 145	—	—
Hardware.....	110	20, 403	108	2	—	20, 380	23	—
Plumbers' supplies.....	89	9, 671	88	1	—	9, 664	7	—

¹ Less than 1/10 of 1 percent.

TABLE 1.—WAGE-RATE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH
ENDING OCTOBER 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
Iron and steel and their products— Continued.								
Steam and hot-water heating apparatus and steam fit- tings.....	93	21,360	93	-----	-----	21,360	-----	-----
Stoves.....	214	26,043	211	3	-----	25,524	519	-----
Structural and ornamental metalwork.....	291	19,129	287	4	-----	19,116	13	-----
Tin cans and other tinware. Tools (not including edge tools, machine tools, files, and saws).....	52	9,925	52	-----	-----	9,925	-----	-----
Wirework.....	139	10,055	138	1	-----	9,927	128	-----
Machinery, not including trans- portation equipment:	108	10,977	108	-----	-----	10,977	-----	-----
Agricultural implements.....	82	18,243	82	-----	-----	18,243	-----	-----
Cash registers, adding ma- chines, and calculating ma- chines.....	27	16,219	27	-----	-----	16,219	-----	-----
Electrical machinery, appara- tus, and supplies.....	418	122,234	417	1	-----	122,224	10	-----
Engines, turbines, tractors, and water wheels.....	107	36,603	107	-----	-----	36,603	-----	-----
Foundry and machine-shop products.....	1,655	145,191	1,655	9	1	144,663	202	326
Machine tools.....	207	21,726	205	2	-----	21,695	31	-----
Radios and phonographs.....	51	39,335	49	2	-----	38,824	511	-----
Textile machinery and parts.....	163	14,101	163	-----	-----	14,101	-----	-----
Typewriters and parts.....	13	11,651	13	-----	-----	11,651	-----	-----
Transportation equipment:								
Aircraft.....	34	6,546	34	-----	-----	6,546	-----	-----
Automobiles.....	341	224,460	341	-----	-----	224,460	-----	-----
Cars, electric- and steam- railroad.....	70	14,243	69	1	-----	14,114	129	-----
Locomotives.....	11	4,798	11	-----	-----	4,798	-----	-----
Shipbuilding.....	111	33,004	110	1	-----	32,878	126	-----
Railroad repair shops:								
Electric railroad.....	354	18,624	351	3	-----	18,604	20	-----
Steam railroad.....	588	78,132	588	-----	-----	78,132	-----	-----
Nonferrous metals and their prod- ucts:								
Aluminum manufactures.....	33	6,695	32	1	-----	6,441	254	-----
Brass, bronze, and copper products.....	308	37,292	303	4	1	36,941	347	4
Clocks and watches and time- recording devices.....	27	8,694	26	1	-----	8,684	10	-----
Jewelry.....	201	12,151	199	2	-----	11,916	235	-----
Lighting equipment.....	79	4,588	78	1	-----	4,577	11	-----
Silverware and plated ware. Smelting and refining—copper lead, and zinc.....	73	10,028	73	-----	-----	10,028	-----	-----
Stamped and enameled ware. Lumber and allied products:	43	16,122	43	-----	-----	16,122	-----	-----
Furniture.....	218	22,719	217	1	-----	22,595	124	-----
Lumber:	582	56,069	578	4	-----	54,792	1,277	-----
Millwork.....	624	25,350	624	-----	-----	25,350	-----	-----
Sawmills.....	649	74,711	649	-----	-----	74,711	-----	-----
Turpentine and rosin.....	30	1,814	30	-----	-----	1,814	-----	-----
Stone, clay, and glass products:								
Brick, tile, and terra cotta.....	522	18,231	522	-----	-----	18,231	-----	-----
Cement.....	116	15,849	116	-----	-----	15,849	-----	-----
Glass.....	178	49,075	178	-----	-----	49,075	-----	-----
Marble, granite, slate, and other products.....	255	4,982	255	-----	-----	4,982	-----	-----
Pottery.....	132	20,255	129	1	2	20,113	33	109
Textiles and their products:								
Fabrics:								
Carpets and rugs.....	27	11,763	27	-----	-----	11,763	-----	-----
Cotton goods.....	687	274,933	687	-----	-----	274,933	-----	-----
Cotton small wares.....	123	10,596	123	-----	-----	10,596	-----	-----
Dyeing and finishing textiles. Hats, fur-felt.....	182	42,541	182	-----	-----	42,541	-----	-----
Knit goods.....	47	7,496	47	-----	-----	7,496	-----	-----
Silk and rayon goods.....	501	120,643	499	1	1	120,004	624	15
Woolen and worsted goods.....	290	48,356	289	1	-----	48,320	36	36
	533	105,592	527	5	1	104,782	676	134

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

Industry	Establishments reporting	Total number of employees	Number of establishments reporting—			Number of employees having—		
			No wage-rate changes	Wage-rate increases	Wage-rate decreases	No wage-rate changes	Wage-rate increases	Wage-rate decreases
Textiles and their products—Con.								
Wearing apparel:								
Clothing, men's.....	1, 634	123, 635	1, 634	-----	-----	123, 635	-----	-----
Clothing, women's.....	763	45, 792	761	2	-----	45, 692	100	-----
Corsets and allied garments.....	40	6, 075	40	-----	-----	6, 075	-----	-----
Men's furnishings.....	92	9, 677	92	-----	-----	9, 677	-----	-----
Millinery.....	154	8, 782	154	-----	-----	8, 782	-----	-----
Shirts and collars.....	175	27, 509	174	1	-----	27, 068	441	-----
Leather and its manufactures:								
Boots and shoes.....	346	109, 151	346	-----	-----	109, 151	-----	-----
Leather.....	169	31, 814	169	-----	-----	31, 814	-----	-----
Food and kindred products:								
Baking.....	1, 152	70, 125	1, 149	3	-----	69, 952	173	-----
Beverages.....	549	29, 751	549	-----	-----	29, 751	-----	-----
Butter.....	322	4, 970	322	-----	-----	4, 970	-----	-----
Canning and preserving.....	763	78, 022	760	3	-----	77, 012	1, 010	-----
Confectionery.....	331	41, 090	328	3	-----	40, 744	346	-----
Flour.....	428	17, 695	428	-----	-----	17, 695	-----	-----
Ice cream.....	369	9, 824	369	-----	-----	9, 824	-----	-----
Slaughtering and meat packing.....	324	133, 364	262	62	-----	75, 160	58, 204	-----
Sugar, beet.....	53	21, 106	53	-----	-----	21, 106	-----	-----
Sugar refining, cane.....	16	10, 432	16	-----	-----	10, 432	-----	-----
Tobacco manufactures:								
Chewing and smoking tobacco and snuff.....	40	10, 135	40	-----	-----	10, 135	-----	-----
Cigars and cigarettes.....	246	52, 990	245	1	-----	52, 965	25	-----
Paper and printing:								
Boxes, paper.....	681	35, 889	680	1	-----	35, 847	42	-----
Paper and pulp.....	425	105, 076	421	4	-----	103, 433	1, 643	-----
Printing and publishing:								
Book and job.....	1, 487	59, 368	1, 475	12	-----	59, 072	296	-----
Newspapers and periodicals.....	555	53, 697	544	11	-----	52, 800	897	-----
Chemicals and allied products, and petroleum refining:								
Other than petroleum refining:								
Chemicals.....	126	25, 719	125	1	-----	25, 643	76	-----
Cottonseed—oil, cake, and meal.....	97	6, 204	97	-----	-----	6, 204	-----	-----
Druggists' preparations.....	74	9, 660	74	-----	-----	9, 660	-----	-----
Explosives.....	31	4, 375	31	-----	-----	4, 375	-----	-----
Fertilizers.....	316	11, 347	316	-----	-----	11, 347	-----	-----
Paints and varnishes.....	579	16, 361	575	4	-----	16, 200	161	-----
Rayon and allied products.....	30	43, 989	30	-----	-----	43, 989	-----	-----
Soap.....	110	17, 227	109	1	-----	15, 827	1, 400	-----
Petroleum refining.....	164	54, 147	163	1	-----	54, 131	16	-----
Rubber products:								
Rubber boots and shoes.....	6	8, 171	6	-----	-----	8, 171	-----	-----
Rubber goods, other than boots, shoes, tires, and inner tubes.....	196	30, 272	195	-----	1	29, 678	-----	594
Rubber tires and inner tubes.....	37	50, 436	37	-----	-----	50, 436	-----	-----

Nonmanufacturing Industries

DATA concerning wage-rate changes occurring between September 15 and October 15, 1934, reported by cooperating establishments in 17 nonmanufacturing industries are presented in table 2.

Increases averaging 11.8 percent and affecting 2,531 employees were reported by 5 metalliferous mining establishments, while 4 electric light and power establishments gave an average increase of

6.4 percent to 585 workers. The increases in the remaining industries affected 386 employees or less.

Decreases in wage-rates were reported by 25 wholesale trade establishments. These decreases averaged 10.2 percent and affected 679 workers. Twenty-one brokerage establishments reported an average decrease of 15.3 percent to 378 employees. The remaining wage-rate decreases which were reported were negligible.

TABLE 2.—WAGE-RATE CHANGES IN NONMANUFACTURING INDUSTRIES DURING MONTH ENDING OCT. 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	81,195	160	—	—	81,195	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Bituminous-coal mining.....	1,447	249,849	1,446	—	1	249,823	—	26
Percentage of total.....	100.0	100.0	99.9	—	0.1	100.0	—	(1)
Metalliferous mining.....	280	29,435	275	5	—	26,904	2,531	—
Percentage of total.....	100.0	100.0	98.2	1.8	—	91.4	8.6	—
Quarrying and nonmetallic mining.....	1,118	34,149	1,116	—	2	33,995	154	—
Percentage of total.....	100.0	100.0	99.8	0.2	—	99.5	0.5	—
Crude petroleum producing.....	249	23,995	248	1	—	23,990	5	—
Percentage of total.....	100.0	100.0	99.6	0.4	—	100.0	(1)	—
Telephone and telegraph.....	8,217	261,524	8,216	1	—	261,459	65	—
Percentage of total.....	100.0	100.0	100.0	(1)	—	100.0	(1)	—
Electric light and power and manu- factured gas.....	2,726	243,165	2,722	4	—	242,580	585	—
Percentage of total.....	100.0	100.0	99.9	0.1	—	99.8	0.2	—
Electric-railroad and motor-bus oper- ation and maintenance.....	527	133,153	520	7	—	132,767	386	—
Percentage of total.....	100.0	100.0	98.7	1.3	—	99.7	0.3	—
Wholesale trade.....	16,940	300,020	16,894	21	25	299,190	151	679
Percentage of total.....	100.0	100.0	99.7	0.1	0.1	99.7	0.1	0.2
Retail trade.....	62,022	928,940	61,986	31	5	928,753	140	47
Percentage of total.....	100.0	100.0	99.9	(1)	(1)	100.0	(1)	(1)
Hotels.....	2,517	142,678	2,517	—	—	142,678	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Laundries.....	1,383	73,758	1,379	1	3	73,629	62	67
Percentage of total.....	100.0	100.0	99.7	0.1	0.2	99.8	0.1	0.1
Dyeing and cleaning.....	744	18,175	740	1	3	18,115	5	55
Percentage of total.....	100.0	100.0	99.5	0.1	0.4	99.7	(1)	0.3
Banks.....	3,081	97,042	3,079	1	1	97,035	5	2
Percentage of total.....	100.0	100.0	99.9	(1)	(1)	100.0	(1)	(1)
Brokerage.....	407	12,242	386	—	21	11,864	—	378
Percentage of total.....	100.0	100.0	94.8	—	5.2	96.9	—	3.1
Insurance.....	1,091	70,202	1,091	—	—	70,202	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Real estate.....	974	24,189	970	2	2	24,155	27	7
Percentage of total.....	100.0	100.0	99.6	0.2	0.2	99.9	0.1	(1)

Less than $\frac{1}{10}$ of 1 percent.

