

UNITED STATES DEPARTMENT OF LABOR  
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# Trend of Employment

DECEMBER 1934



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(II)

# TREND OF EMPLOYMENT

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## Trend of Employment, December 1934

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

### Manufacturing Industries

FACORY employment increased 1.7 percent from November to December and pay rolls increased 6.2 percent. The employment increase is contrary to the movement shown in December in 12 of the 15 preceding years. Declines in pay rolls have been shown in 8 of the 15 preceding years. Forty-two of the 90 manufacturing industries surveyed reported gains in employment over the month interval and 62 industries reported increased pay rolls.

The general indexes of factory employment and pay rolls for December 1934 are 78.1 and 63.2, respectively. A comparison of these indexes with those of December 1933 shows increases over the year interval of 5 percent in employment and 16 percent in pay rolls. A similar comparison for the separate industries shows more employees in December 1934 in 63 industries and larger pay rolls in 76.

The average of the 12 monthly employment indexes of 1934 for all manufacturing industries combined was 14.2 percent higher than the average for 1933, and 22.9 percent above the average for 1932. A similar comparison for pay rolls shows that the 1934 average was 27.6 percent higher than the 1933 average and 34.3 percent higher than the 1932 average.

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 December from 25,322 establishments employing 3,637,978 workers, whose weekly earnings were \$71,778,392 during the pay period ending nearest December 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.

Increased activity in automobile plants, due to production of new models, was reflected in gains in that industry from November to December of 32.5 percent in employment and 48.9 percent in pay rolls, while the resulting demand for automobile hardware was a primary cause for the gains in the hardware industry of 11.1 percent in employment and 20 per cent in pay rolls. The gains of 25.7 percent in employment and 36.1 percent in pay rolls in the dyeing and finishing textiles industry were due primarily to the settlement of labor difficulties in this industry and more than offset the sharp declines reported in the preceding month.

Other important industries which showed gains in both employment and pay rolls were: Blast furnaces, steel works and rolling mills, foundries and machine shops, machine tools, woolen and worsted goods, cotton goods, silk and rayon goods, and boots and shoes.

The gains in factory employment and pay rolls were in both the durable and nondurable goods groups of industries, although the increases were much more pronounced in the durable goods group, in which gains of 3.4 percent in employment and 9.3 percent in pay rolls were shown. Employment increased 0.5 percent in the nondurable goods group and pay rolls increased 3.8 percent. The index numbers of employment and pay rolls for the durable and nondurable goods groups are presented in table 5.

Per capita weekly earnings in all manufacturing industries combined rose 4.4 percent from November 1934 to December 1934 and 10.4 percent from December 1933 to December 1934. Gains from November to December were shown in 71 of the 90 individual manufacturing industries surveyed and ranged from 0.2 percent to 15.4 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 November and December 1934 showed an increase over the month interval of 3.5 percent in average hours worked per week for all manufacturing industries combined and an increase of 0.9 percent in average hourly earnings. Seventy of the industries covered showed increases in average hours worked and 53 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 sur-

vey of manufacturing industries. Average hours worked per week and average hourly earnings are presented for only those manufacturing industries for which available information covers at least 20 percent of all the employees in the industry.

In table 1 are shown indexes of employment and pay rolls in December 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 November 1934 and December 1933. Per capita weekly earnings in December 1934, together with percentage changes from the previous month and from December 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 December 1934 and average hourly earnings, together with percentage changes from November 1934 and December 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, Pay Rolls, Hours, and Earnings in Manufacturing Industries, December 1934

Industry	Employment			Pay rolls			Per capita weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index December 1934 (3-year average 1923-35 = 100)	Percentage change from—		Index December 1934 (3-year average 1923-25 = 100)	Percentage change from—		Average in December 1934	Percentage change from—		Average in December 1934	Percentage change from—		Average in December 1934	Percentage change from—	
		No- vember 1934	De- cember 1933		No- vember 1934	De- cember 1933		No- vember 1934	De- cember 1933		No- vember 1934	De- cember 1933		No- vember 1934	De- cember 1933
All industries .....	78.1	+1.7	+5.0	63.2	+6.2	+16.0	Dollars 19.73	+4.4	+10.4	35.2	+3.2	+3.4	Cents 56.0	+1.1	+6.2
<b>Iron and steel and their products, not including machinery</b> .....	<b>66.6</b>	<b>+1.6</b>	<b>(3)</b>	<b>47.6</b>	<b>+7.7</b>	<b>+8.9</b>									
Blast furnaces, steel works, and rolling mills.....	66.9	+1.6	-0.1	46.5	+11.4	+8.1	19.12	+9.6	+8.2	29.1	+9.0	-3.3	66.2	+0.8	+11.3
Bolts, nuts, washers, and rivets.....	74.7	+3.5	-4.7	53.7	+19.5	+5.7	18.12	+15.4	+11.2	33.0	+15.8	+4.7	55.3	(3)	+6.6
Cast-iron pipe.....	48.5	-1.7	+3.2	27.4	+3.7	-4	15.57	+5.6	-3.5	31.2	+4.7	-8.3	49.9	+1.0	+4.5
Cutlery (not including silver and plated cutlery), and edge tools.....	76.6	-2.9	+4	57.6	+3	+4.9	20.69	+3.3	+4.3	37.5	+1.1	-1.1	55.1	+1.8	+6.5
Forgings, iron and steel.....	54.9	+7.8	+5.6	43.5	+21.4	+20.2	22.60	+12.6	+13.7	37.4	+10.7	+5.5	61.3	+2.3	+9.9
Hardware.....	50.4	+11.1	-17.4	41.1	+20.0	-8.9	19.42	+8.1	+10.3	35.7	+8.5	+9.7	54.4	(3)	-2.5
Plumbers' supplies.....	64.2	+2.3	+15.1	39.9	+6.0	+46.2	19.66	+3.6	+27.2	35.6	+4.4	+20.2	55.2	-7	+6.7
Steam and hot-water heating apparatus and steam fittings.....	48.6	-1.5	-10.7	31.4	-1.8	+1.9	20.81	-3	+14.1	34.9	-9	+4.1	59.1	+2	+9.0
Stoves.....	86.1	-8.3	+8.8	61.1	-8.8	+26.5	18.75	-6	+16.4	34.7	+6	+8.3	54.5	(3)	+6.9
Structural and ornamental metal work.....	57.6	-5	+9.3	39.2	-4.7	+14.6	19.05	-4.3	+4.6	32.3	-4.2	-1.3	59.0	-3	+6.3
Tin cans and other tinware.....	85.5	-4.6	-1.0	79.6	+3	-2.3	19.36	+5.1	-1.5	36.3	+3.4	-4.0	53.1	+1.5	+3.7
Tools (not including edge tools, machine tools, files, and saws).....	59.3	+2.2	+7	52.1	+7.7	+14.5	20.11	+5.3	+13.4	35.0	+6	+8	57.6	+5.1	+15.1
Wirework.....	126.1	+4.1	+6.1	107.2	+13.5	+17.0	19.47	+9.0	+10.1	34.7	+7.4	+13.7	55.9	+1.5	+10.5
<b>Machinery, not including transportation equipment</b> .....	<b>78.5</b>	<b>+1.8</b>	<b>+9.3</b>	<b>60.2</b>	<b>+5.2</b>	<b>+22.6</b>									
Agricultural implements.....	83.8	+5.3	+36.9	91.2	+6.4	+52.5	23.10	+1.0	+11.1	38.5	+1.0	+1.8	60.4	+3	+12.3
Cash registers, adding machines, and calculating machines.....	99.9	-6.4	+5.8	81.7	-1.9	+11.5	26.83	+4.8	+5.4	40.5	+6.0	-2	66.4	-1.0	+4.9
Electrical machinery, apparatus, and supplies.....	65.6	+4	+10.4	52.2	+4.5	+31.2	22.06	+4.1	+19.0	35.4	+3.5	+9.9	61.1	-8	+7.9
Engines, turbines, tractors, and water wheels.....	76.7	+4.3	+29.3	52.7	+5.3	+42.0	24.57	+9	+9.8	37.8	+3	+4.0	65.0	+6	+5.6
Foundry and machine-shop products.....	66.8	+1.3	+8.8	49.7	+6.5	+20.3	20.89	+5.1	+10.8	34.7	+4.8	+5.0	60.2	+7	+6.0
Machine tools.....	72.2	+2.9	+22.6	56.4	+7.2	+25.3	23.45	+4.1	+2.2	38.2	+4.1	-2.7	61.3	-2	+4.7
Radio and phonographs.....	207.9	-3.1	-5.2	132.0	+4	+2.8	19.86	+3.6	+8.7	35.2	+2.9	+11.9	56.5	+5	+9.6
Textile machinery and parts.....	62.5	+2.8	-16.6	50.9	+17.2	-16.0	22.17	+14.0	+1.5	36.8	+13.2	-6	60.3	+7	+1.1
Typewriters and parts.....	104.4	-1.6	+21.8	97.3	-5	+39.4	23.39	+1.1	+14.1	40.8	+1.0	+1.2	56.9	(3)	+12.9

<b>Transportation equipment.....</b>	<b>78.4</b>	<b>+26.0</b>	<b>+28.3</b>	<b>67.6</b>	<b>+39.7</b>	<b>54.7</b>													
Aircraft.....	269.4	+7.6	-19.9	233.4	+8.8	-19.1	25.02	+1.1	+8	36.7	-1.6	-7.2	71.9	+4.4	+10.3				
Automobiles.....	88.9	+32.5	+34.5	76.4	+48.9	+66.1	25.00	+12.4	+23.4	35.3	+14.6	+10.6	70.9	-1.9	+12.0				
Cars, electric- and steam-railroad.....	34.0	+4.9	+6.9	31.5	+5.0	+15.8	19.77	+2	+8.6	32.7	-1.2	+7	60.7	+1.2	+5.4				
Locomotives.....	36.5	-2.6	+76.3	16.6	-2	+112.8	22.28	+2.5	+20.1	35.1	+2.0	+14.0	63.5	+5	+6.3				
Shipbuilding.....	68.5	-1.1	-1.8	55.3	+2.5	+11.9	23.33	+3.6	+10.3	30.5	-3	-4.7	75.6	+1.7	+20.1				
<b>Railroad repair shops.....</b>	<b>52.0</b>	<b>+8</b>	<b>-2.8</b>	<b>44.4</b>	<b>(8)</b>	<b>-7</b>													
Electric railroad.....	65.5	-3	-1.8	58.4	+1.7	+2.8	26.77	+2.0	+4.8	44.7	+3.0	+1	60.0	+2	+5.2				
Steam railroad.....	51.0	+1.1	-2.9	43.5	(4)	-7	23.82	-1.1	+2.3	37.7	-1.8	+2	63.0	+6	+3.1				
<b>Nonferrous metals and their products.....</b>	<b>76.9</b>	<b>+1.2</b>	<b>+10.2</b>	<b>61.5</b>	<b>+4.6</b>	<b>+22.5</b>													
Aluminum manufactures.....	62.2	-4	-23.1	56.2	+4.4	-3.9	20.84	+4.8	+25.1	38.5	+4.1	+45.8	54.1	+7	+10.2				
Brass, bronze, and copper products.....	74.0	+2.8	+2.6	55.6	+8.4	+13.5	21.01	+5.4	+10.4	36.8	+5.4	+4.2	57.3	(3)	+8.3				
Clocks and watches and time-recording devices.....	79.0	+1.8	+35.5	65.8	+1.7	+43.0	19.24	-1	+5.8	39.7	-2.2	+1.3	48.5	+2.3	+5.1				
Jewelry.....	74.4	-3.2	+25.3	63.4	+5	+34.0	20.87	+3.8	+7.1	37.9	-1.0	-1.7	54.3	+4.2	+6.3				
Lighting equipment.....	69.8	+1.2	+11.9	60.1	+3.6	+19.7	20.35	+2.4	+7.1	39.5	+5.6	+4.7	52.4	-2.8	+1.2				
Silverware and plated ware.....	70.7	-1.4	+5.2	55.6	-1.9	+14.4	21.54	-6	+8.5	38.3	+1.3	+2.6	55.7	-1.8	+5.8				
Smelting and refining—copper, lead, and zinc.....	74.7	+2	+19.9	46.6	+5	+35.9	20.54	+3	+13.5	37.9	+1.3	+9.8	54.2	-9	+5.5				
Stamped and enameled ware.....	87.5	+4.2	+11.9	79.1	+10.0	+29.9	19.02	+5.5	+15.8	37.0	+3.1	+9.3	51.4	+2.4	+7.5				
<b>Lumber and allied products.....</b>	<b>47.8</b>	<b>-1.6</b>	<b>-4.0</b>	<b>33.3</b>	<b>-9</b>	<b>+7.4</b>													
Furniture.....	65.0	-2	-1.4	45.9	+3.2	+14.5	16.56	+3.4	+15.5	36.3	+3.1	+7.6	45.2	+4	+3.0				
Lumber:																			
Millwork.....	36.7	+1.0	+1.1	24.6	+2.5	+11.8	15.78	+1.5	+10.9	35.6	+2.3	+6.7	44.5	-4	+4.4				
Sawmills.....	31.6	-3.6	-5.1	20.0	-6.4	(2)	14.36	-3.0	+5.2	32.9	-9	-6	44.3	-1.8	+5.9				
Turpentine and rosin.....	92.9	+6	-13.7	50.2	+4.7	+2.7	13.02	+4.1	+19.0										
<b>Stone, clay, and glass products.....</b>	<b>50.1</b>	<b>-4.0</b>	<b>+2.2</b>	<b>34.4</b>	<b>-3.4</b>	<b>+11.0</b>													
Brick, tile, and terra cotta.....	28.0	-6.5	+3.3	15.3	-7.2	+20.5	14.14	-8	+15.8	31.4	-1.6	+2.7	44.9	+1.1	+11.3				
Cement.....	41.6	-13.7	+13.7	24.1	-18.1	+26.2	17.07	-5.1	+11.1	30.3	-5.0	+13.8	56.3	-2	+3.0				
Glass.....	87.4	-1.2	+5.4	71.9	-1	+11.6	19.42	+1.1	+6.0	34.4	+6	+1	56.6	+5	+5.2				
Marble, granite, slate, and other products.....	25.2	-11.8	-26.5	15.1	-12.3	-25.2	19.69	-6	+1.9	29.1	-3.0	-3.1	68.4	+2.4	+12.6				
Pottery.....	70.6	+1.3	+2.2	50.0	+4.8	+13.9	18.38	+3.5	+12.9	35.5	+4.1	-5.0	51.3	-2	+14.0				
<b>Textiles and their products.....</b>	<b>92.8</b>	<b>+2.1</b>	<b>+5.5</b>	<b>75.3</b>	<b>+5.9</b>	<b>+17.7</b>													
Fabrics:																			
Carpets and rugs.....	63.8	+6.3	-6.7	51.0	+16.9	+5.6	18.50	+10.1	+12.9	32.5	+9.4	(2)	56.9	+7	+14.5				
Cotton goods.....	96.0	+2.0	+2.0	81.2	+7.4	+12.5	13.41	+5.3	+10.4	35.5	+5.0	+7.7	37.7	+3	+2.0				
Cotton small wares.....	83.0	+3.2	+10.5	70.8	+9.3	+21.0	16.41	+5.9	+9.6	37.2	+7.8	+11.1	44.1	-1.6	-7				
Dyeing and finishing textiles.....	114.8	+25.7	+8.7	99.6	+36.1	+19.6	19.55	+8.2	+9.8	36.9	+2.2	+2.3	53.1	+6.4	+5.4				
Hats, fur-felt.....	77.0	+4.8	+1.9	71.3	+15.0	+8.2	20.99	+9.8	+6.1	29.0	+9.4	+9.4	73.7	+1.9	+18.6				
Knit goods.....	110.4	-1	+7.6	109.2	+1.2	+23.0	16.79	+1.3	+14.4	35.2	+9	+7.2	48.4	+6	+8.2				
Silk and rayon goods.....	76.3	+1.8	+1.9	64.9	+4.1	+17.4	15.55	+2.4	+15.1	34.5	+1.5	+13.0	45.2	+2	+4.4				
Woolen and worsted goods.....	85.6	+14.1	+10.7	66.6	+24.3	+19.6	17.74	+9.0	+8.2	36.9	+10.8	+8.6	48.1	-1.6	-1				
Wearing apparel.....	86.0	-4.0	+7.0	61.3	-4.4	+19.7													
Clothing, men's.....	79.1	-1.6	+2.4	52.6	+9	+18.5	15.46	+2.5	+14.7	25.1	+8	+4	61.7	+2.0	+16.1				
Clothing, women's.....	111.6	-3.4	+19.1	77.6	-4.6	+29.5	17.06	-1.3	+8.8										
Corsets and allied garments.....	89.3	(4)	+3.4	85.1	+5.5	+25.9	15.44	+5.6	+22.3	33.3	+7.4	+29.0	45.8	-4	-8				
Men's furnishings.....	108.4	-7.3	+25.8	77.7	-11.3	+39.2	14.20	-4.3	+10.7	31.6	-8.7	+8.7	42.4	+3.7	+14.8				
Millinery.....	55.9	-5.7	-15.9	44.1	-2.3	-6.8	17.94	+3.6	+11.1										
Shirts and collars.....	90.5	-10.6	-6.6	79.7	-18.9	+3.5	12.02	-9.3	+11.2	29.8	-12.4	+7.4	40.3	+4.1	+6.4				
<b>Leather and its manufactures.....</b>	<b>84.8</b>	<b>+3.9</b>	<b>+7.8</b>	<b>69.1</b>	<b>+13.3</b>	<b>+13.1</b>													
Boots and shoes.....	82.9	+3.9	+9.4	63.7	+16.7	+14.4	16.43	+12.4	+4.5	33.0	+11.9	-3.7	50.7	-8	+5.2				
Leather.....	92.7	+3.9	+2.1	86.5	+5.6	+9.8	20.88	+1.6	+7.6	37.3	+1.9	-1.9	56.1	-4	+5.5				

See footnotes at end of table.

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

Industry	Employment			Pay rolls			Per capita weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index December 1934 (3-year average 1923-25 = 100)	Percentage change from—		Index December 1934 (3-year average 1923-25 = 100)	Percentage change from—		Average in December 1934	Percentage change from—		Average in December 1934	Percentage change from—		Average in December 1934	Percentage change from—	
		No- vember 1934	De- cember 1933		No- vember 1934	De- cember 1933		No- vember 1934	De- cember 1933		No- vember 1934	De- cember 1933		No- vember 1934	De- cember 1933
							Dollars						Cents		
<b>Food and kindred products</b> .....	103.8	-4.8	+4.6	92.9	-3.3	+10.1									
Baking.....	115.4	-(4)	+7.1	98.7	+1	+10.2	21.43	+2	+2.9	39.7	+5	-2.9	54.0	(9)	+7.8
Beverages.....	148.7	-2.1	+5.8	135.0	-5.1	+3.2	27.33	-3.1	-2.5	35.8	-2.5	-6.4	75.5	-3	+3.0
Butter.....	72.3	-4.9	-7.7	53.0	-6.0	-10.0	19.40	-1.2	-2.7						
Canning and preserving.....	69.0	-22.0	+11.3	72.5	-17.2	+22.1	13.24	+6.2	+26.9	33.0	+4.8	+3.3	30.3	+2.3	+2.7
Confectionery.....	91.3	-2	+7.0	82.8	+8.1	+15.6	16.29	+8.3	+7.7	37.9	+7.4	+5.2	42.9	+1.4	+4.4
Flour.....	77.2	-7	+5.8	63.6	+5	+7.3	20.57	+1.1	+1.4	38.0	+1.3	+1.3	54.3	-5	+1.1
Ice cream.....	61.0	-4.0	+4.1	49.1	-2.2	+7.9	25.34	+1.8	+4.2	43.3	+9	+1	54.8	+1.5	+2.7
Slaughtering and meat packing.....	105.5	-3.5	+7.7	98.4	-2.3	+20.0	23.32	+1.2	+11.5	40.1	-2.0	+2.6	57.3	+3.8	+9.6
Sugar, beet.....	113.0	-40.2	-52.7	68.3	-53.6	-58.6	15.27	-22.3	-12.3	33.3	-32.5	-31.7	45.7	+11.5	+14.0
Sugar refining, cane.....	87.7	-6.3	+9.8	72.5	-4	+15.3	21.56	+6.3	+5.0	40.4	+7.4	+10.6	52.0	-2.3	-6.4
<b>Tobacco manufactures</b> .....	61.0	-3.3	-3	49.9	+2.3	+7.3									
Chewing and smoking tobacco and snuff.....	71.5	-3.1	-4.9	67.4	+8.4	+2.0	14.36	+11.8	+7.3	34.8	+7.7	+1.1	41.4	+3.8	+7.3
Cigars and cigarettes.....	60.6	-3.3	+3	47.7	+1.3	+8.2	14.10	+4.8	+7.9	36.5	+5.2	-2.1	39.0	+5	+8.0
<b>Paper and printing</b> .....	97.8	+8	+3.5	86.5	+4.5	+12.0									
Boxes, paper.....	88.5	-2.0	+6.9	82.7	+1.7	+19.9	19.12	+3.7	+12.4	37.9	+3.6	+4.9	50.6	+2	+6.9
Paper and pulp.....	108.3	+5	+7.1	84.2	+1.9	+17.1	19.56	+1.5	+9.6	37.1	+1.4	+4.5	52.7	(9)	+6.9
Printing and publishing:															
Book and job.....	89.3	+2.4	+2.5	80.1	+7.7	+12.5	27.41	+5.1	+9.8	37.3	+4.2	+4.3	73.5	+5	+5.8
Newspapers and periodicals.....	100.4	+6	-5	94.2	+4.2	+6.8	34.30	+3.6	+7.4	37.7	+2.4	+1.2	88.2	+1.6	+7.0
<b>Chemicals and allied products, and petroleum refining</b> .....	108.8	+2	+1.1	91.7	+9	+8.0									
Other than petroleum refining.....	108.3	+4	+1.5	89.9	+9	+7.7									
Chemicals.....	103.9	-4	+4	90.0	-8	+3.9	24.15	-4	+3.6	38.7	+3	-1.7	62.3	+2	+4.5
Cottonseed—oil, cake, and meal.....	91.4	+1.0	-18.5	86.9	+6.7	-7.8	10.80	+5.7	+13.4	45.0	+7	+15.9	24.2	+5.2	-3.3
Druggists' preparations.....	102.8	-2.6	-2	94.8	-2.1	+2.0	18.60	+5	+2.4	38.8	+1.8	+4.6	48.1	-1.0	+2.4
Explosives.....	90.6	-1.1	+3	70.7	-7	+12.8	22.29	+5	+12.7	34.4	-3	+1.3	64.8	+8	+3.7
Fertilizers.....	99.5	+9.1	+5.0	75.5	+8.4	+10.2	12.04	-7	+4.9	34.3	+9	-4.6	35.0	-1.7	+13.2
Paints and varnishes.....	99.5	-3	+10.4	78.1	-5	+13.5	21.87	-2	+2.9	37.9	-3	-4.4	57.6	(9)	+6.5
Rayon and allied products.....	329.5	+2.7	+2.3	240.1	+3.7	+8.7	19.35	+1.0	+6.1	38.1	+1.1	(3)	50.8	-2	+6.9
Soap.....	99.6	-4.8	+7.0	90.7	-2.0	+17.5	22.36	+2.9	+9.5	38.4	+1.6	-3.5	58.3	+1.4	+13.6
Petroleum refining.....	110.8	-1.0	-4	97.8	+1.1	+9.4	26.92	+2.2	+10.0	34.6	+1.5	-5	78.1	+6	+11.3



Rubber products.....	79.0	+3.1	-5.8	66.0	+13.6	+11.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Rubber boots and shoes.....	52.8	-2.1	-19.5	52.1	+4.5	-13.5	19.30	+6.7	+10.9	36.7	+6.4	+5.0	52.6	+2	+2.0	
Rubber goods, other than boots, shoes, tires, and inner tubes.....	115.1	+2.7	-8.1	92.5	+8.6	+1.8	18.81	+5.7	+11.0	36.9	+7.0	+2.8	51.1	-1.4	+6.0	
Rubber tires and inner tubes.....	71.9	+4.6	+1	60.0	+19.1	+26.8	26.62	+13.9	+26.9	33.4	+13.6	+13.2	80.7	+5	+12.1	

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

<sup>2</sup> Weighted.

<sup>3</sup> No change.

<sup>4</sup> Less than  $\frac{1}{10}$  of 1 percent.

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

IN TABLE 2 are presented the estimated number of wage earners and weekly pay rolls in all manufacturing industries combined and in the 14 major groups and 2 subgroups into which these manufacturing industries have been classified, for the years 1919 to 1934, inclusive, and for the 12 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

Year and month	Total manu- facturing	Iron and steel, and their products	Machinery, not includ- ing trans- portation equipment	Transpor- tation equipment	Railroad repair shops	Nonferrous metals and their prod- ucts
<b>Employment</b>						
1919 average.....	8,983,900	858,600	1,026,800	(1)	(1)	(1)
1920.....	9,065,600	926,300	1,131,700	(1)	(1)	(1)
1921.....	6,899,700	572,400	680,700	(1)	(1)	(1)
1922.....	7,592,700	722,500	717,400	(1)	(1)	(1)
1923.....	8,724,900	892,400	928,600	606,200	523,700	(1)
1924.....	8,083,700	833,700	835,400	524,500	464,900	(1)
1925.....	8,328,200	861,200	870,500	559,600	458,100	(1)
1926.....	8,484,400	880,200	946,700	558,600	460,700	(1)
1927.....	8,288,400	834,900	897,800	495,100	428,900	(1)
1928.....	8,285,800	829,800	922,500	541,900	404,000	(1)
1929.....	8,785,600	881,000	1,105,700	583,200	398,200	(1)
1930.....	7,668,400	766,200	918,700	451,800	353,800	(1)
1931.....	6,484,300	598,400	687,000	373,800	309,000	209,000
1932.....	5,374,200	458,100	494,600	315,700	257,400	164,200
1933.....	5,778,400	503,400	517,100	305,600	250,600	175,200
1934: January.....	6,146,000	545,500	614,700	401,200	254,500	190,200
February.....	6,514,200	572,200	640,100	476,700	257,400	200,400
March.....	6,770,100	601,400	674,400	526,300	267,600	212,200
April.....	6,906,100	623,700	705,100	560,100	278,700	217,300
May.....	6,912,600	646,000	713,900	561,800	287,300	219,900
June.....	6,799,900	656,400	709,500	538,700	288,300	214,500
July.....	6,593,500	603,900	693,700	498,100	281,100	206,600
August.....	6,666,200	589,300	692,800	471,700	266,100	207,400
September.....	6,351,900	567,000	684,900	418,100	268,500	206,900
October.....	6,569,500	567,000	684,000	361,800	259,900	212,200
November.....	6,435,000	568,700	684,000	350,500	248,800	214,800
December.....	6,544,400	572,200	689,300	441,800	250,700	217,300
<b>Weekly pay rolls</b>						
1919 average.....	\$198,145,000	\$23,937,000	\$24,534,000	(1)	(1)	(1)
1920.....	238,300,000	30,531,000	31,982,000	(1)	(1)	(1)
1921.....	155,008,000	14,049,000	16,450,000	(1)	(1)	(1)
1922.....	165,406,000	17,400,000	16,982,000	(1)	(1)	(1)
1923.....	210,065,000	25,442,000	24,618,000	\$18,532,000	\$14,856,000	(1)
1924.....	195,376,000	23,834,000	22,531,000	15,636,000	12,972,000	(1)
1925.....	204,665,000	24,680,000	23,843,000	17,478,000	12,847,000	(1)
1926.....	211,061,000	25,875,000	26,310,000	17,126,000	13,025,000	(1)
1927.....	206,980,000	24,289,000	25,095,000	15,450,000	12,475,000	(1)
1928.....	208,334,000	24,740,000	26,334,000	17,494,000	11,817,000	(1)
1929.....	221,937,000	26,568,000	31,761,000	18,136,000	12,255,000	(1)
1930.....	180,507,000	21,126,000	24,197,000	12,076,000	10,316,000	(1)
1931.....	137,256,000	13,562,000	15,135,000	9,008,000	8,366,000	\$4,622,000
1932.....	93,757,000	7,164,000	8,546,000	7,012,000	5,793,000	2,865,000
1933.....	98,623,000	8,925,000	8,975,000	6,799,000	5,652,000	3,039,000
1934: January.....	109,806,000	10,134,000	11,260,000	9,072,000	5,710,000	3,452,000
February.....	123,395,000	11,269,000	12,253,000	12,377,000	6,185,000	3,826,000
March.....	131,852,000	12,650,000	13,199,000	14,529,000	6,578,000	4,163,000
April.....	136,962,000	14,006,000	14,311,000	15,906,000	7,188,000	4,317,000
May.....	136,575,000	15,115,000	14,713,000	15,200,000	7,297,000	4,441,000
June.....	132,040,000	15,436,000	14,571,000	13,513,000	7,297,000	4,243,000
July.....	123,011,000	11,737,000	13,838,000	11,361,000	6,931,000	3,928,000
August.....	126,603,000	11,219,000	13,744,000	12,119,000	6,578,000	3,899,000
September.....	118,089,000	10,134,000	13,152,000	9,003,000	6,185,000	3,958,000
October.....	124,138,000	10,564,000	13,483,000	8,555,000	6,347,000	4,214,000
November.....	121,085,000	10,899,000	13,531,000	8,332,000	6,022,000	4,309,000
December.....	128,593,000	11,737,000	14,240,000	11,637,000	6,022,000	4,507,000

1 Comparable data not available.

Table 2.—Estimated Number of Wage Earners and Weekly Wages in all Manufacturing Industries Combined and in Industry Groups—Continued

Year and month	Lumber and allied products	Stone, clay, and glass products	Textiles and their products			Leather and its manufactures
			Fabrics	Wearing apparel	Group	
Employment						
1919 average	863,800	302,700	1,052,600	507,800	1,609,400	349,600
1920	821,200	314,500	1,045,300	519,400	1,612,400	318,600
1921	703,000	253,000	994,300	473,900	1,509,400	280,100
1922	894,300	299,600	1,054,900	487,800	1,585,500	314,600
1923	932,100	351,400	1,164,400	499,300	1,714,300	344,800
1924	901,300	346,400	1,041,900	455,800	1,545,500	311,700
1925	921,600	352,700	1,109,500	466,500	1,627,400	314,200
1926	922,300	363,500	1,095,700	472,800	1,628,000	312,700
1927	864,100	349,800	1,119,200	501,400	1,694,400	316,000
1928	848,100	334,900	1,062,400	513,100	1,651,300	309,400
1929	876,500	328,500	1,095,900	536,700	1,706,900	318,600
1930	699,400	280,800	950,400	497,700	1,513,000	295,100
1931	516,900	222,800	886,700	472,000	1,421,000	272,800
1932	377,800	156,000	794,100	401,800	1,250,300	255,500
1933	406,100	157,500	952,600	418,100	1,432,700	269,400
1934: January	418,800	165,700	988,400	385,900	1,437,100	268,200
February	432,600	174,400	1,065,800	442,800	1,577,300	292,100
March	445,400	182,500	1,087,900	471,300	1,629,400	299,900
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	454,600	181,800	991,700	447,600	1,503,900	269,800
November	446,300	182,900	991,700	424,800	1,481,100	264,000
December	439,000	175,500	1,039,300	407,700	1,512,100	274,300
Weekly pay rolls						
1919 average	\$16,549,000	\$6,397,000	\$17,494,000	\$10,121,000	\$28,440,000	\$6,978,000
1920	20,358,000	8,239,000	21,005,000	12,124,000	34,115,000	7,437,000
1921	13,161,000	5,907,000	17,235,000	10,266,000	28,284,000	6,040,000
1922	15,234,000	6,442,000	17,747,000	10,438,000	28,962,000	6,711,000
1923	18,526,000	8,726,000	21,590,000	10,919,000	33,511,000	7,472,000
1924	18,228,000	8,926,000	19,014,000	9,804,000	29,712,000	6,654,000
1925	18,824,000	8,985,000	20,497,000	10,284,000	31,795,000	6,831,000
1926	18,997,000	9,257,000	20,241,000	10,297,000	31,731,000	6,909,000
1927	17,916,000	8,929,000	21,135,000	11,123,000	33,817,000	7,009,000
1928	17,454,000	8,541,000	19,510,000	11,114,000	32,199,000	6,696,000
1929	18,062,000	8,323,000	20,251,000	11,476,000	33,321,000	6,915,000
1930	13,464,000	6,828,000	16,167,000	9,680,000	27,115,000	5,748,000
1931	8,641,000	4,788,000	14,308,000	8,338,000	23,799,000	5,035,000
1932	4,656,000	2,588,000	10,367,000	5,733,000	16,947,000	4,060,000
1933	4,900,000	2,455,000	12,664,000	5,757,000	19,394,000	4,394,000
1934: January	5,075,000	2,655,000	13,647,000	5,850,000	20,526,000	4,716,000
February	5,650,000	2,956,000	15,948,000	7,473,000	24,676,000	5,708,000
March	5,909,000	3,081,000	16,457,000	8,414,000	26,164,000	5,896,000
April	6,168,000	3,445,000	16,152,000	7,866,000	25,277,000	5,736,000
May	6,409,000	3,507,000	15,256,000	7,039,000	23,472,000	5,512,000
June	6,279,000	3,445,000	13,626,000	6,377,000	21,033,000	5,093,000
July	5,853,000	3,205,000	13,117,000	5,716,000	19,798,000	5,393,000
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	3,152,000	14,889,000	7,587,000	23,662,000	4,492,000
November	6,224,000	3,161,000	14,767,000	6,625,000	22,522,000	4,261,000
December	6,168,000	3,054,000	16,335,000	6,336,000	23,852,000	4,827,000

Table 2.—Estimated Number of Wage Earners and Weekly Wages in all Manufacturing Industries Combined and in Industry Groups—Continued

Year and month	Foods and kindred products	Tobacco manufactures	Paper and printing	Chemicals and allied products	Rubber products
<b>Employment</b>					
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.....	798,900	90,400	512,000	364,300	103,900
November.....	728,800	88,600	515,200	361,800	102,900
December.....	693,800	85,700	519,400	362,300	106,100
<b>Weekly pay rolls</b>					
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.....	15,752,000	1,090,000	12,293,000	7,621,000	2,022,000
November.....	14,651,000	1,086,000	12,308,000	7,565,000	2,015,000
December.....	14,156,000	1,110,000	12,858,000	7,633,000	2,289,000

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 December 1934, inclusive, together with average indexes for each of these years, based on the 3-year average, 1923-25 as 100, are shown in table 3. A chart of these indexes also follows.

**Table 3.—General Indexes of Employment and Pay Rolls in Manufacturing Industries—January 1919 to December 1934**

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

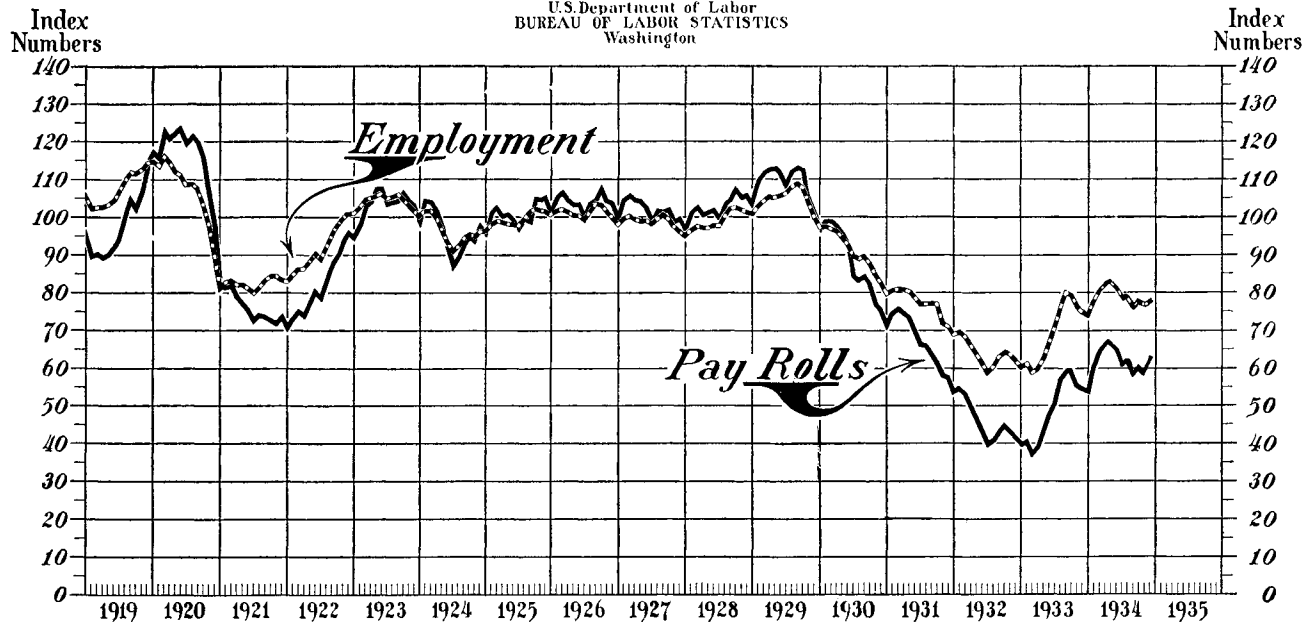
Month	Employment															
	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	105.3	114.9	81.0	82.5	100.7	100.2	96.3	100.5	98.2	95.0	100.8	97.3	79.6	68.7	60.2	73.3
February.....	102.0	113.7	82.6	84.6	102.5	101.5	98.1	101.5	99.7	96.5	102.9	97.4	80.3	69.5	61.1	77.7
March.....	102.4	116.0	83.2	85.9	104.6	101.7	98.8	102.1	100.2	97.6	104.1	96.9	80.7	68.4	58.8	80.8
April.....	102.5	114.5	82.1	85.8	105.0	99.9	98.7	101.4	99.6	97.1	105.3	96.3	80.7	66.1	59.9	82.4
May.....	103.1	112.0	81.9	87.9	105.3	96.8	98.1	100.4	99.1	97.0	105.3	94.8	80.1	63.4	62.6	82.5
June.....	104.3	111.1	81.0	89.8	106.0	93.8	98.0	100.3	99.1	97.8	105.6	92.9	78.4	61.2	66.9	81.1
July.....	106.9	108.5	79.8	88.2	104.9	91.0	97.8	99.4	98.1	97.7	106.1	89.5	77.0	58.9	71.5	78.7
August.....	109.7	108.8	81.2	91.4	105.2	92.1	99.5	101.4	99.3	100.1	107.9	88.8	77.1	60.1	76.4	79.5
September.....	111.7	107.5	83.4	94.5	105.7	94.4	101.5	103.4	100.5	102.2	109.0	89.6	77.4	63.3	80.0	75.8
October.....	111.3	103.7	84.1	97.0	104.5	95.3	102.2	103.1	99.6	102.6	107.7	87.7	74.4	64.4	79.6	78.4
November.....	112.6	97.4	84.2	99.0	103.2	94.8	101.8	101.4	97.4	101.7	103.6	84.6	71.8	63.4	76.2	76.8
December.....	114.4	89.7	83.3	100.5	101.4	96.1	101.5	100.0	96.1	101.2	99.8	82.3	71.0	62.1	74.4	78.1
<b>Average.....</b>	<b>107.2</b>	<b>108.2</b>	<b>82.3</b>	<b>90.6</b>	<b>104.1</b>	<b>96.5</b>	<b>99.4</b>	<b>101.2</b>	<b>98.9</b>	<b>95.9</b>	<b>104.8</b>	<b>91.5</b>	<b>77.4</b>	<b>64.1</b>	<b>69.0</b>	<b>78.8</b>
Month	Pay rolls															
	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	95.3	117.2	82.8	69.6	94.6	98.8	95.4	100.9	98.4	96.0	102.3	95.9	70.0	53.5	39.5	54.0
February.....	89.6	115.5	81.3	72.4	97.9	104.1	100.8	105.0	104.4	101.2	109.3	98.8	74.3	54.6	40.2	60.6
March.....	90.0	123.7	81.7	74.9	102.5	104.1	102.4	106.5	105.7	102.5	111.6	98.8	75.6	53.1	37.1	64.8
April.....	89.2	120.9	79.0	73.8	103.8	101.8	100.0	104.4	104.5	100.5	112.6	97.7	74.4	49.5	38.8	67.3
May.....	90.0	122.4	77.3	77.2	107.3	97.5	100.7	103.1	104.0	101.3	112.9	95.4	73.4	46.8	42.7	67.1
June.....	92.0	124.2	75.4	80.5	107.5	92.4	98.7	103.3	102.4	101.7	111.2	92.3	69.7	43.4	47.2	64.9
July.....	94.8	119.3	71.7	78.5	103.3	85.7	96.8	99.0	98.5	99.0	107.2	84.3	66.2	39.8	50.8	60.5
August.....	99.9	121.6	73.9	83.0	103.8	89.3	99.3	103.4	101.9	103.3	112.0	83.3	65.9	40.6	56.8	62.2
September.....	104.7	119.8	73.4	87.0	104.3	92.5	98.8	104.4	101.4	104.7	112.9	84.1	63.4	42.9	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	61.0
November.....	106.7	107.0	71.7	93.4	104.5	93.7	104.6	104.1	98.5	105.0	104.1	76.8	58.1	42.9	55.5	59.5
December.....	114.0	98.0	73.3	95.7	102.9	97.6	105.2	103.5	99.5	105.6	100.7	75.2	57.6	41.5	54.5	63.2
<b>Average.....</b>	<b>97.4</b>	<b>117.1</b>	<b>76.2</b>	<b>81.3</b>	<b>103.3</b>	<b>96.1</b>	<b>100.6</b>	<b>103.8</b>	<b>101.8</b>	<b>102.4</b>	<b>109.1</b>	<b>88.7</b>	<b>67.5</b>	<b>46.1</b>	<b>48.5</b>	<b>61.9</b>

For comparative purposes the Bureau has computed the group and general index numbers of employment and pay rolls for December 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.

# EMPLOYMENT & PAY ROLLS in the MANUFACTURING INDUSTRIES

3-year average 1923-1925=100

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



**Table 4.—Indexes of Employment and Pay Rolls in 14 Groups, 2 Subgroups and All Manufacturing Combined, December 1934**

[Average for 1926=100]

Group	Employment index	Pay-roll index
Total manufacturing.....	73.4	57.8
Iron and steel and their products, not including machinery.....	70.2	47.6
Machinery, not including transportation equipment.....	69.3	52.8
Transportation equipment.....	75.3	64.8
Railroad repair shops.....	48.3	40.6
Nonferrous metals and their products.....	74.2	58.1
Lumber and allied products.....	45.1	29.3
Stone, clay, and glass products.....	50.1	33.4
Textiles and their products.....	83.5	66.3
Fabrics.....	90.8	76.6
Wearing apparel.....	66.1	45.9
Leather and its manufactures.....	80.2	59.5
Food and kindred products.....	101.7	88.6
Tobacco manufactures.....	69.2	57.6
Paper and printing.....	93.6	80.2
Chemicals and allied products and petroleum refining.....	98.8	83.2
Rubber products.....	80.1	67.3

In table 5 are presented employment and pay-roll indexes for the durable and nondurable groups by months, January 1923 to December 1934, inclusive. These indexes are based on the 3-year average, 1923-25 as 100.

**Table 5.—Indexes of Employment and Pay Rolls in the Durable and Nondurable Groups, January 1923 to December 1934**

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

*Durable group*<sup>1</sup>

Month	Employment											
	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	99.2	100.6	95.3	100.9	95.6	89.8	99.1	93.1	71.9	57.3	45.4	59.8
February.....	101.5	102.0	97.0	102.3	97.3	91.8	101.7	93.3	72.1	57.8	45.8	63.5
March.....	104.0	103.1	98.3	103.3	98.2	93.7	103.5	93.1	72.2	56.5	43.9	67.1
April.....	105.6	102.7	99.3	103.5	98.1	94.7	105.3	92.8	72.2	54.6	44.4	70.0
May.....	106.6	98.5	99.1	102.8	98.0	96.1	106.5	91.8	71.4	52.9	47.0	71.5
June.....	107.7	94.7	98.4	102.3	97.1	96.6	106.4	89.1	69.5	50.9	50.7	70.8
July.....	106.6	91.1	97.3	101.1	94.9	95.8	106.3	84.7	66.8	48.5	55.3	67.4
August.....	106.4	91.0	98.2	102.1	95.3	98.1	107.3	82.2	65.3	46.9	60.1	66.1
September.....	106.0	91.8	99.7	102.7	94.9	99.4	106.8	81.0	64.5	47.3	63.4	64.2
October.....	105.4	93.4	101.4	102.2	94.3	99.8	105.0	79.6	61.8	47.7	63.2	62.8
November.....	104.3	93.1	101.8	100.3	92.1	99.3	100.3	77.1	60.3	48.1	61.2	62.2
December.....	102.0	94.7	101.9	98.3	90.9	98.8	95.8	74.9	59.7	47.3	60.7	64.3
Average.....	104.6	96.4	99.0	101.8	95.6	96.2	103.7	86.1	67.3	51.3	53.4	65.8
Month	Pay rolls											
	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	91.6	97.9	92.5	99.0	93.3	89.5	100.0	90.1	59.8	41.3	27.6	41.6
February.....	95.8	105.5	99.7	105.2	101.1	96.8	109.0	94.6	64.4	42.0	27.7	47.9
March.....	101.4	106.6	101.7	107.3	103.4	89.5	112.0	95.1	65.7	40.4	25.3	52.8
April.....	104.6	105.7	100.8	106.5	103.2	99.8	114.7	95.3	65.1	38.0	26.6	57.4
May.....	109.1	100.3	101.9	105.2	103.2	101.8	115.8	93.3	64.1	37.0	30.8	58.6
June.....	110.0	93.0	99.2	104.9	99.8	101.2	112.9	89.1	59.4	33.3	34.7	56.9
July.....	104.5	84.0	95.4	99.1	93.9	97.1	107.1	78.1	54.3	29.8	38.0	49.9
August.....	106.0	87.3	97.5	103.7	97.5	102.0	112.6	75.6	52.9	28.2	43.9	50.0
September.....	105.2	89.0	97.1	103.1	95.1	102.3	111.7	74.7	49.6	27.9	44.7	45.5
October.....	108.9	93.0	104.6	107.0	96.8	107.0	111.1	73.7	48.5	29.8	45.4	46.4
November.....	107.4	91.8	105.3	103.2	93.3	104.2	101.7	68.4	46.4	30.0	42.5	46.1
December.....	104.0	95.9	105.7	100.9	94.1	103.9	96.7	66.4	45.8	29.4	42.3	50.4
Average.....	104.0	95.8	100.1	103.8	97.9	100.4	108.8	82.9	56.3	33.9	35.8	50.3

<sup>1</sup> Includes the following groups of manufacturing industries: Iron and steel; machinery; transportation equipment; railroad repair shops; nonferrous metals; lumber and allied products; and stone, clay, and glass products.



Table 5.—Indexes of Employment and Pay Rolls in the Durable and Nondurable Groups, January 1923 to December 1934—Continued

*Nondurable group*<sup>2</sup>

Month	Employment											
	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	102.5	99.8	97.5	100.2	101.0	100.6	102.7	101.8	87.8	80.9	76.0	87.9
February.....	103.8	100.8	99.3	100.6	102.3	101.8	104.3	101.7	89.0	82.2	77.6	93.0
March.....	105.3	100.1	98.5	100.9	102.5	101.8	104.9	100.9	90.0	81.2	74.7	95.4
April.....	104.4	97.0	98.3	99.1	101.3	99.6	105.4	100.1	89.8	78.5	76.5	95.8
May.....	104.1	94.6	97.0	97.8	100.3	98.0	104.1	98.0	89.3	74.8	79.3	94.3
June.....	104.2	93.0	97.5	98.3	101.2	99.0	104.7	96.9	88.0	72.4	84.3	92.3
July.....	103.3	90.9	98.5	97.5	101.6	99.7	105.8	94.7	88.2	70.1	88.9	90.8
August.....	104.0	93.4	101.0	100.6	103.5	102.3	108.6	95.9	89.8	74.2	93.9	94.0
September.....	105.2	97.3	103.5	104.1	106.5	105.3	111.4	98.9	91.1	80.4	97.8	88.2
October.....	103.6	97.3	103.2	104.2	105.2	105.6	110.6	96.5	88.0	82.3	97.2	95.1
November.....	102.2	96.7	101.9	102.5	103.1	104.3	107.1	92.7	84.2	79.9	92.2	92.4
December.....	100.8	97.7	101.1	101.9	101.7	103.7	104.0	90.1	83.0	77.8	89.1	92.9
Average..	103.6	96.6	99.8	100.6	102.5	101.8	106.1	97.4	88.2	77.9	85.6	92.7
Month	Pay rolls											
	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	98.5	99.8	99.3	103.5	104.7	104.1	105.3	103.2	83.0	69.1	54.5	69.7
February.....	100.8	102.2	102.1	104.9	108.6	106.8	109.8	104.1	86.9	70.7	56.2	76.9
March.....	104.1	101.0	103.4	105.5	108.7	106.4	111.0	103.5	88.3	69.2	52.1	80.1
April.....	103.1	96.8	99.0	101.8	106.1	101.5	110.2	100.8	86.3	64.0	54.4	80.0
May.....	105.0	94.1	99.2	100.4	105.1	100.8	109.3	98.3	85.2	59.3	57.9	78.1
June.....	104.5	91.6	98.2	101.3	105.8	102.5	109.1	96.5	82.7	56.2	63.1	75.1
July.....	101.9	88.0	98.6	98.9	104.3	101.6	107.3	92.3	81.3	52.6	67.0	73.9
August.....	101.1	91.9	101.7	103.0	107.4	104.9	111.3	93.2	82.5	56.3	73.3	77.8
September.....	103.2	96.9	101.0	105.9	109.6	107.6	114.4	96.0	80.8	61.8	77.6	74.0
October.....	103.6	97.8	104.7	108.5	108.8	109.8	114.2	93.0	77.6	63.6	77.3	79.6
November.....	100.8	96.1	103.7	105.3	105.1	106.1	107.4	87.4	73.0	59.2	72.1	76.6
December.....	101.6	100.0	104.6	106.8	106.3	107.5	105.8	86.5	72.5	56.9	70.1	79.5
Average..	102.4	96.4	101.3	103.8	106.7	105.0	109.6	96.2	81.7	61.6	64.6	76.8

<sup>2</sup> Includes remaining groups of manufacturing industries not shown under footnote 1.

In table 6 are presented general indexes of factory employment and pay rolls by yearly averages, 1919 to 1934, inclusive, and by months, January to December 1934, inclusive. Indexes for the same periods are also presented for each of the 90 manufacturing industries surveyed and for the 14 major and 2 subgroups into which they are classified.

**Table 6.—Indexes of Employment and Pay Rolls in Manufacturing Industries**  
[3-year average, 1923-25=100]

Month and year	Iron and steel and their products, not including machinery									
	General index		Group index		Blast furnaces, steel works, and rolling mills		Bolts, nuts, washers, and rivets		Cast-iron pipe	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	107.2	97.4	99.9	97.1	(1)	(1)	(1)	(1)	(1)	(1)
1920 average.....	108.2	117.1	107.8	123.8	(1)	(1)	(1)	(1)	(1)	(1)
1921 average.....	82.3	76.2	66.6	57.0	(1)	(1)	(1)	(1)	(1)	(1)
1922 average.....	90.6	81.3	84.1	70.6	(1)	(1)	(1)	(1)	(1)	(1)
1923 average.....	104.1	103.3	103.9	103.2	104.5	104.5	112.5	111.5	96.0	94.6
1924 average.....	96.5	96.1	97.0	96.7	97.1	96.5	89.5	89.5	101.6	101.7
1925 average.....	99.4	100.6	99.1	100.1	98.4	99.0	98.0	99.0	102.4	103.7
1926 average.....	101.2	103.8	102.5	105.0	101.0	103.0	(1)	(1)	110.1	110.5
1927 average.....	98.9	101.8	97.2	98.6	95.7	96.7	96.0	95.6	101.8	98.2
1928 average.....	98.9	102.4	96.6	100.4	96.2	100.6	(1)	(1)	92.4	85.3
1929 average.....	104.8	109.1	102.6	107.8	103.2	109.6	114.0	122.0	87.8	85.2
1930 average.....	91.5	88.7	89.2	85.7	90.3	87.7	(1)	(1)	80.4	75.3
1931 average.....	77.4	67.5	69.7	55.0	68.4	53.6	74.2	56.2	71.5	55.1
1932 average.....	64.1	46.1	53.3	29.1	51.5	24.8	60.8	33.8	45.5	24.2
1933 average.....	69.0	48.5	58.6	36.2	58.5	35.4	71.0	42.1	39.2	19.7
1934 average.....	78.8	61.9	69.0	49.0	69.7	49.2	78.1	54.3	51.1	27.8
1934										
January.....	73.3	54.0	63.5	41.1	65.0	41.2	74.6	48.7	50.6	28.0
February.....	77.7	60.6	66.6	45.7	67.3	46.1	78.4	55.0	49.6	27.0
March.....	80.8	64.8	70.0	51.3	70.1	52.2	80.1	59.4	50.3	26.1
April.....	82.4	67.3	72.6	56.8	72.9	59.4	83.8	64.7	51.5	28.0
May.....	82.5	67.1	75.2	61.3	76.8	66.1	87.1	68.1	51.1	29.9
June.....	81.1	64.9	76.4	62.6	79.1	68.9	84.8	64.5	53.6	28.9
July.....	78.7	60.5	70.3	47.6	72.4	47.9	79.8	55.4	51.9	27.4
August.....	79.5	62.2	68.6	45.5	69.7	44.0	77.7	53.3	53.8	29.2
September.....	75.8	58.0	66.0	41.1	65.3	37.3	71.7	39.6	52.1	28.2
October.....	78.4	61.0	66.0	42.8	65.4	39.2	72.5	43.9	50.8	27.5
November.....	76.8	59.5	66.2	44.2	65.9	41.7	72.2	44.9	49.3	26.4
December.....	78.1	63.2	66.6	47.6	66.9	46.5	74.7	53.7	48.5	27.4

Month and year	Iron and steel and their products, not including machinery—Continued									
	Cutlery (not including silver and plated cutlery) and edge tools		Forgings—iron and steel		Hardware		Plumbers' supplies		Steam and hot-water heating apparatus and steam fittings	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	(1)	(1)	(1)	(1)	103.5	93.6	(1)	(1)	(1)	(1)
1920 average.....	(1)	(1)	(1)	(1)	102.5	99.0	(1)	(1)	(1)	(1)
1921 average.....	(1)	(1)	(1)	(1)	69.0	58.4	(1)	(1)	(1)	(1)
1922 average.....	(1)	(1)	(1)	(1)	88.9	72.4	(1)	(1)	(1)	(1)
1923 average.....	99.6	97.9	116.5	113.9	101.6	100.1	89.9	89.5	102.2	101.7
1924 average.....	102.4	101.8	97.4	97.4	96.6	96.3	100.1	100.0	97.7	98.0
1925 average.....	98.0	100.3	86.1	88.7	101.8	103.6	110.0	110.5	100.1	100.3
1926 average.....	(1)	(1)	(1)	(1)	100.8	106.3	(1)	(1)	102.6	105.5
1927 average.....	94.6	93.7	65.5	66.7	93.0	96.1	96.7	94.6	99.3	101.6
1928 average.....	(1)	(1)	(1)	(1)	92.8	96.0	(1)	(1)	92.4	94.4
1929 average.....	89.5	87.5	87.8	97.8	101.7	106.9	92.5	87.2	91.6	92.4
1930 average.....	(1)	(1)	(1)	(1)	88.6	81.6	(1)	(1)	78.3	69.0
1931 average.....	74.2	60.4	41.9	32.5	70.3	58.9	65.1	48.0	67.1	46.3
1932 average.....	67.6	46.8	35.8	19.9	55.1	35.5	51.1	27.6	46.5	24.7
1933 average.....	65.1	42.8	40.8	25.0	55.8	36.1	58.2	31.1	49.5	26.4
1934 average.....	77.6	55.4	54.6	39.4	62.7	47.0	58.4	32.6	47.6	29.9
1934										
January.....	70.6	48.8	53.1	37.2	69.0	49.7	42.3	19.5	43.9	25.8
February.....	74.2	53.0	55.8	42.8	73.7	55.7	54.6	27.7	45.4	26.8
March.....	79.9	57.2	61.8	48.1	80.6	64.6	57.2	30.1	45.8	27.7
April.....	81.9	59.4	59.2	47.0	85.3	70.3	54.7	30.3	45.8	28.3
May.....	81.3	59.3	60.7	45.7	82.0	61.8	54.1	30.4	47.7	30.6
June.....	79.7	56.5	59.0	42.9	73.0	52.5	64.3	38.3	49.2	31.8
July.....	75.4	53.4	51.5	34.3	51.8	34.8	64.0	36.4	48.3	31.2
August.....	77.7	53.0	51.9	34.7	51.3	37.9	60.5	34.0	48.6	30.3
September.....	76.7	53.2	47.5	29.1	45.8	29.2	59.7	31.0	48.8	30.7
October.....	78.3	55.9	49.2	31.5	44.2	31.8	61.9	36.3	49.6	32.4
November.....	78.9	57.4	51.0	35.8	45.4	34.2	62.7	37.6	49.3	32.0
December.....	76.6	57.6	54.9	43.5	50.4	41.1	64.2	39.9	48.6	31.4

<sup>1</sup> Data not available.

Table 6.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Iron and steel and their products, not including machinery—Continued									
	Stoves		Structural and ornamental metal work		Tin cans and other tinware		Tools, not including edge tools, machine tools, files, and saws		Wirework	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1920 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1921 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1922 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1923 average.....	106.0	103.5	104.4	104.0	101.0	97.7	105.7	103.1	93.1	89.6
1924 average.....	95.0	96.0	97.7	96.6	100.0	100.0	102.2	101.8	100.0	100.0
1925 average.....	99.0	100.5	97.9	99.4	99.0	102.3	92.1	95.1	106.9	110.4
1926 average.....	104.2	105.8	107.5	109.9	(1)	(1)	(1)	(1)	(1)	(1)
1927 average.....	96.2	97.5	106.1	108.8	98.4	104.2	91.7	95.6	120.4	122.5
1928 average.....	94.0	93.5	106.5	111.0	(1)	(1)	(1)	(1)	(1)	(1)
1929 average.....	99.3	98.8	111.2	112.8	104.3	113.6	107.6	117.8	124.2	129.3
1930 average.....	83.1	74.3	98.9	94.2	(1)	(1)	(1)	(1)	(1)	(1)
1931 average.....	69.4	53.4	76.0	61.5	83.7	83.8	60.4	51.1	95.6	80.6
1932 average.....	57.3	35.0	50.8	31.1	73.8	67.3	46.5	32.2	90.3	61.9
1933 average.....	68.7	43.9	46.1	26.3	78.7	70.6	48.9	34.7	103.3	75.7
1934 average.....	87.2	60.1	56.8	38.9	90.7	84.4	59.8	49.9	124.4	101.0
1934										
January.....	65.0	37.5	51.6	31.9	79.1	71.1	59.1	45.6	119.6	91.7
February.....	75.4	48.3	52.8	33.5	79.6	70.5	61.0	48.6	120.7	92.5
March.....	83.7	57.0	53.9	35.1	85.4	79.7	62.4	52.5	125.5	99.5
April.....	90.9	63.8	56.0	37.6	88.2	84.2	63.0	52.9	131.4	110.6
May.....	95.5	68.5	58.5	41.5	91.2	86.9	61.8	54.0	134.8	123.1
June.....	94.2	66.2	59.7	42.7	96.7	94.1	61.1	52.7	131.4	119.3
July.....	86.6	56.5	59.0	40.6	99.6	94.5	59.3	49.0	123.6	96.0
August.....	87.7	57.7	59.0	41.8	99.1	93.6	57.4	49.0	116.3	90.1
September.....	91.6	65.8	58.6	40.5	101.0	96.2	57.2	47.0	120.2	92.0
October.....	95.3	71.9	57.1	40.8	93.9	82.5	57.7	47.4	121.4	95.9
November.....	93.9	67.0	57.9	41.2	89.6	79.4	58.1	48.4	121.2	94.5
December.....	86.1	61.1	57.6	39.2	85.5	79.6	59.3	52.1	126.1	107.2
Machinery, not including transportation equipment										
Month and year	Group index		Agricultural implements		Cash registers, adding machines, and calculating machines		Electrical machinery, apparatus and supplies		Engines, turbines, tractors, and water wheels	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	116.9	103.7	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1920 average.....	128.9	135.2	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1921 average.....	77.5	69.5	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1922 average.....	81.7	71.8	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1923 average.....	105.8	104.0	110.0	109.9	107.4	105.1	103.0	100.1	99.1	99.5
1924 average.....	95.1	95.3	88.1	88.7	97.2	97.3	97.9	99.2	96.0	96.7
1925 average.....	99.1	100.7	101.9	101.4	95.4	97.6	99.1	100.7	104.9	103.8
1926 average.....	107.8	111.2	115.3	119.1	(1)	(1)	(1)	(1)	115.4	119.2
1927 average.....	102.3	106.0	118.5	125.9	103.1	100.4	(1)	(1)	111.3	119.3
1928 average.....	105.1	111.3	137.9	152.4	(1)	(1)	(1)	(1)	113.2	125.5
1929 average.....	125.9	134.2	147.9	160.0	120.8	137.3	127.3	134.4	125.3	135.9
1930 average.....	104.6	102.2	110.7	106.9	(1)	(1)	107.1	109.3	106.1	107.2
1931 average.....	78.3	63.9	62.3	51.9	87.3	69.1	80.9	68.7	68.1	54.0
1932 average.....	56.3	36.1	39.2	32.4	75.4	50.6	56.8	37.1	42.4	24.0
1933 average.....	58.9	37.9	44.5	37.7	79.5	56.4	51.3	33.6	44.8	25.7
1934 average.....	77.7	57.2	75.1	77.7	102.0	79.4	63.9	47.7	69.7	45.7
1934										
January.....	70.0	47.6	65.8	65.2	96.0	74.0	57.8	38.2	59.7	36.8
February.....	72.9	51.8	75.6	75.7	98.2	71.8	59.2	40.9	62.8	39.6
March.....	76.8	55.8	75.9	78.2	99.5	72.8	61.8	43.8	65.8	41.3
April.....	80.3	60.5	87.2	93.6	102.0	76.7	63.7	47.8	69.3	44.8
May.....	81.3	62.2	83.0	87.2	103.9	82.3	65.4	49.9	68.9	45.2
June.....	80.8	61.6	73.3	76.1	94.5	75.6	66.2	51.8	72.6	49.6
July.....	79.0	58.5	69.3	70.2	104.6	86.3	65.1	49.8	71.4	45.6
August.....	75.9	58.1	66.8	68.3	105.7	84.0	63.3	50.2	71.8	47.9
September.....	75.0	55.6	67.8	66.7	106.0	85.1	65.9	48.0	71.1	46.1
October.....	77.9	57.0	72.9	74.4	106.7	78.7	65.0	49.3	72.3	48.4
November.....	77.9	57.2	79.6	85.7	106.7	83.3	65.4	50.0	73.5	50.0
December.....	78.5	60.2	83.8	91.2	99.9	81.7	65.6	52.2	76.7	52.7

1 Data not available.

Table 6.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Machinery, not including transportation equipment—Continued									
	Foundry and machine-shop products		Machine tools		Radios and phonographs		Textile machinery and parts		Typewriters and parts	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1920 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1921 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1922 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1923 average.....	108.4	106.7	108.1	105.3	89.5	88.1	116.4	117.5	100.0	98.4
1924 average.....	93.9	93.6	92.0	90.8	105.9	107.5	92.7	86.8	100.0	100.0
1925 average.....	97.7	99.7	99.9	103.9	104.6	104.4	90.9	95.7	100.0	101.6
1926 average.....	103.3	107.4	119.3	125.3	(1)	(1)	90.1	95.7	(1)	(1)
1927 average.....	97.7	99.9	114.3	116.3	(1)	(1)	85.3	93.2	111.5	113.0
1928 average.....	98.8	102.6	127.9	139.8	(1)	(1)	78.5	84.2	(1)	(1)
1929 average.....	111.3	117.9	167.2	187.6	204.5	202.9	88.1	96.7	121.1	130.1
1930 average.....	94.2	89.0	126.0	121.9	141.0	139.8	71.2	66.0	(1)	(1)
1931 average.....	69.7	55.4	74.7	61.5	124.4	96.5	61.3	54.3	77.8	60.0
1932 average.....	50.4	31.1	40.5	27.5	100.0	62.7	48.7	35.4	58.7	35.2
1933 average.....	52.6	32.8	41.7	28.7	151.4	85.4	61.1	47.0	62.7	42.4
1934 average.....	68.0	49.6	69.0	53.4	203.5	116.5	69.1	54.4	94.4	81.1
1934										
January.....	61.2	41.3	58.9	44.5	181.7	95.1	71.1	57.5	85.7	66.0
February.....	64.1	45.4	67.8	54.2	177.5	96.5	74.1	60.6	90.9	74.2
March.....	68.3	49.9	70.9	57.4	187.6	101.5	75.8	61.6	97.8	81.3
April.....	71.6	54.4	70.8	57.7	200.2	108.9	75.0	60.9	102.6	84.1
May.....	73.6	56.8	71.9	59.3	201.2	112.4	75.9	62.9	78.8	62.3
June.....	73.1	55.5	70.9	57.0	206.0	117.4	73.2	59.5	64.5	53.4
July.....	69.5	51.1	69.1	51.5	205.0	114.4	71.3	56.1	96.8	84.8
August.....	69.0	50.3	66.1	49.0	217.5	123.1	66.5	49.3	99.7	86.6
September.....	66.8	46.7	69.7	50.8	219.9	127.0	62.2	45.4	101.3	92.5
October.....	66.4	47.6	69.1	50.3	222.8	137.8	60.8	44.8	104.1	92.5
November.....	66.0	46.6	70.2	52.6	214.5	131.5	60.8	43.4	106.1	97.8
December.....	66.8	49.7	72.2	56.4	207.9	132.0	62.5	50.9	104.4	97.3

Month and year	Transportation equipment											
	Group index		Aircraft		Automobiles		Cars, electric and steam railroad		Locomotives		Shipbuilding	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	(1)	(1)	(1)	(1)	85.1	74.8	(1)	(1)	(1)	(1)	(1)	(1)
1920 average.....	(1)	(1)	(1)	(1)	88.1	90.3	(1)	(1)	(1)	(1)	(1)	(1)
1921 average.....	(1)	(1)	(1)	(1)	52.9	48.7	(1)	(1)	(1)	(1)	(1)	(1)
1922 average.....	(1)	(1)	(1)	(1)	71.9	65.7	(1)	(1)	(1)	(1)	(1)	(1)
1923 average.....	107.6	107.7	103.6	103.4	100.6	100.6	126.9	128.7	157.7	168.1	114.5	112.8
1924 average.....	93.1	90.8	100.0	100.0	93.6	90.6	93.8	94.3	76.4	72.9	93.2	94.9
1925 average.....	99.3	101.5	96.4	96.6	105.8	108.8	79.3	77.0	65.9	59.0	92.3	92.3
1926 average.....	99.1	99.5	(1)	(1)	104.8	104.8	75.0	70.9	86.2	80.6	97.4	100.9
1927 average.....	87.9	89.8	157.9	156.8	91.9	93.3	59.9	60.4	66.7	57.2	101.3	108.3
1928 average.....	96.2	101.6	(1)	(1)	108.1	113.9	48.4	48.2	45.4	39.6	79.5	85.0
1929 average.....	103.5	105.4	525.2	501.5	111.3	111.6	63.1	63.1	56.8	58.3	101.3	109.7
1930 average.....	80.2	76.2	(1)	(1)	80.3	65.7	54.7	53.2	52.3	51.5	107.3	113.5
1931 average.....	66.3	52.3	353.1	354.8	71.0	53.4	29.6	25.4	28.0	18.1	83.0	76.8
1932 average.....	56.0	40.7	253.7	251.0	60.8	42.3	26.3	23.5	19.4	8.9	66.0	52.5
1933 average.....	54.2	39.5	298.5	269.5	59.8	42.8	25.4	20.5	15.6	5.8	55.4	38.9
1934 average.....	82.9	68.6	332.5	288.2	93.2	76.1	43.4	40.8	31.1	13.7	70.2	54.9
1934												
January.....	71.2	52.7	336.3	287.0	80.3	58.3	31.5	26.2	19.8	7.5	64.4	48.2
February.....	84.6	71.9	347.1	304.5	97.4	82.3	37.7	35.4	19.5	7.7	66.0	49.0
March.....	93.4	84.4	334.6	288.1	108.4	98.1	41.1	38.9	22.7	9.1	69.3	52.4
April.....	99.4	92.4	395.8	331.9	114.9	107.4	46.2	44.8	25.3	10.9	71.7	53.9
May.....	99.7	95.3	371.3	314.9	114.4	100.4	50.6	49.2	29.2	12.7	73.1	60.0
June.....	95.6	78.5	418.1	366.3	106.8	85.8	57.8	56.7	32.5	14.6	76.6	60.2
July.....	85.4	66.0	372.5	324.9	98.4	70.7	55.8	50.7	35.5	16.4	69.2	55.6
August.....	83.7	70.4	333.4	301.8	92.5	76.5	51.7	51.2	38.5	17.7	71.2	56.4
September.....	74.2	52.3	296.0	255.6	80.9	54.3	44.8	40.0	37.7	17.4	71.3	57.0
October.....	64.2	49.7	265.0	234.9	68.7	52.0	36.6	34.4	38.0	17.0	71.2	56.2
November.....	62.2	48.4	250.4	214.5	67.1	51.3	32.4	30.0	37.5	16.6	69.3	54.0
December.....	78.4	67.6	260.4	233.4	88.9	76.4	34.0	31.5	36.5	16.6	68.5	55.3

¹ Data not available.

Table 6.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Railroad repair shops						Nonferrous metals and their products					
	Group index		Electric railroad		Steam railroad		Group index		Aluminum manufactures		Brass, bronze, and copper products	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1920 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1921 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1922 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1923 average.....	108.6	109.6	104.0	101.5	108.9	110.2	105.4	103.7	106.3	100.2	103.4	101.3
1924 average.....	96.4	95.6	99.1	98.8	96.3	95.5	96.7	95.9	100.0	96.6	95.6	95.6
1925 average.....	95.0	94.8	96.9	99.7	94.8	94.3	97.9	100.4	93.7	99.8	100.0	103.1
1926 average.....	95.5	96.1	96.5	100.4	95.4	95.7	(1)	(1)	(1)	(1)	102.7	107.4
1927 average.....	89.0	92.0	94.1	99.8	88.6	91.4	96.5	100.5	96.6	105.5	101.2	104.7
1928 average.....	53.8	57.2	89.6	97.9	83.3	86.3	(1)	(1)	(1)	(1)	107.3	115.6
1929 average.....	52.6	50.4	85.8	97.2	82.2	89.8	111.4	116.4	138.4	150.0	121.5	128.3
1930 average.....	73.4	76.1	85.8	93.0	72.4	74.8	(1)	(1)	(1)	(1)	96.6	88.7
1931 average.....	64.1	61.7	79.3	80.2	62.9	60.4	74.0	63.1	90.2	81.3	74.9	60.3
1932 average.....	53.4	42.7	71.7	64.3	52.0	41.2	58.1	39.1	64.3	42.1	57.8	35.8
1933 average.....	52.0	41.7	66.3	55.1	50.9	40.8	62.0	41.5	71.8	50.9	64.1	41.3
1934 average.....	55.5	48.1	66.0	58.0	54.7	47.5	74.3	56.0	71.2	54.4	74.6	53.9
1934												
January.....	52.8	42.1	65.9	55.4	51.8	41.2	67.3	47.1	78.0	50.9	70.9	48.3
February.....	53.4	45.6	65.8	56.4	52.5	44.9	70.9	52.2	79.6	61.1	72.7	51.4
March.....	55.5	48.5	66.3	58.6	54.7	47.9	75.1	56.8	81.5	64.2	78.1	56.3
April.....	57.8	53.0	66.3	59.2	57.2	52.7	76.9	58.9	82.2	67.0	79.1	59.8
May.....	59.6	53.8	66.7	59.4	59.1	53.5	77.8	60.6	78.1	63.5	81.2	62.1
June.....	59.8	53.8	66.7	59.6	59.3	53.5	75.9	57.9	76.0	59.1	78.2	58.4
July.....	58.3	51.1	66.3	58.8	57.7	50.6	73.1	53.6	67.5	43.8	75.0	54.4
August.....	55.2	48.5	66.0	58.5	54.4	47.9	73.4	53.2	67.7	40.8	72.7	51.2
September.....	55.7	45.6	65.7	56.9	55.0	44.9	73.2	54.0	57.5	41.4	70.8	48.7
October.....	53.9	46.8	65.1	57.1	53.1	46.2	75.1	57.5	61.8	51.1	71.0	49.5
November.....	51.6	44.4	65.7	57.4	50.5	43.5	76.0	58.8	62.5	53.8	72.0	51.3
December.....	52.0	44.4	65.5	58.4	51.0	43.5	76.9	61.5	62.2	56.2	74.0	55.6
Nonferrous metals and their products—Continued												
Month and year	Clocks, watches, and time-recording devices		Jewelry		Lighting equipment		Silverware and plated ware		Smelting and refining copper, lead and zinc		Stamped and enamelled ware	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1920 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1921 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1922 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1923 average.....	97.6	95.7	105.1	105.9	101.3	96.7	100.6	98.1	102.8	103.2	110.1	111.2
1924 average.....	100.0	100.0	99.8	91.8	100.0	100.0	100.0	100.0	100.0	100.0	95.7	92.8
1925 average.....	102.4	104.3	95.1	102.3	98.7	103.3	99.4	101.9	97.2	96.8	94.2	96.0
1926 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	96.9	98.3
1927 average.....	102.9	108.1	96.2	106.9	92.9	97.3	98.4	102.3	89.9	90.4	93.0	95.7
1928 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	104.1	108.0
1929 average.....	98.2	102.2	111.4	113.3	104.2	110.6	92.6	96.5	91.3	99.4	120.5	125.6
1930 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	106.3	104.9
1931 average.....	74.3	62.2	74.1	65.6	65.3	60.4	65.3	54.3	54.4	45.9	85.4	76.8
1932 average.....	54.5	35.4	57.6	43.5	49.5	38.8	54.3	37.2	45.3	27.3	69.8	49.0
1933 average.....	51.7	34.4	55.5	39.6	51.4	38.7	55.6	36.2	50.7	29.2	76.5	52.3
1934 average.....	70.1	55.7	67.5	52.2	64.4	51.9	68.9	50.3	68.1	42.1	86.6	72.9
1934												
January.....	57.1	41.3	55.3	40.6	59.6	44.9	64.1	43.2	61.6	35.7	72.7	56.8
February.....	62.8	49.9	60.7	45.7	62.0	48.3	66.7	46.6	64.1	37.7	79.8	66.2
March.....	67.7	53.0	65.1	48.9	64.4	51.3	69.4	50.3	64.2	39.9	87.5	75.8
April.....	70.4	56.1	66.4	49.6	65.4	52.3	72.7	51.2	62.8	38.7	94.0	80.8
May.....	72.1	58.7	65.9	49.0	65.6	52.7	71.1	52.0	65.3	42.0	95.6	83.6
June.....	69.4	52.9	64.6	48.3	61.9	49.8	69.3	49.8	67.4	43.5	93.0	80.1
July.....	68.2	50.3	61.8	45.2	61.7	49.2	61.3	43.6	68.6	43.2	90.3	72.9
August.....	68.9	54.3	65.7	49.7	61.9	48.2	69.3	48.3	70.5	42.8	87.1	70.8
September.....	72.4	59.2	73.7	57.7	64.5	52.0	69.5	52.1	69.9	42.7	84.4	66.7
October.....	75.1	61.8	79.6	65.4	67.1	56.3	70.6	53.8	73.1	45.9	82.9	70.4
November.....	77.6	64.7	76.9	63.1	68.9	58.0	71.7	56.7	74.5	46.4	83.9	71.9
December.....	79.0	65.8	74.4	63.4	69.8	60.1	70.7	55.6	74.7	46.6	87.5	79.1

1 Data not available.

Table 6.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Lumber and allied products											
	Group index		Furniture		Lumber, mill-work		Lumber, saw-mills		Turpentine and rosin			
	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls		
1919 average.....	94.1	89.3	82.3	69.0	(1)	(1)	(1)	(1)	(1)	(1)		
1920 average.....	89.4	109.9	90.7	90.9	(1)	(1)	(1)	(1)	(1)	(1)		
1921 average.....	76.6	69.7	73.0	69.2	(1)	(1)	(1)	(1)	(1)	(1)		
1922 average.....	97.4	82.2	86.5	82.4	(1)	(1)	(1)	(1)	(1)	(1)		
1923 average.....	101.5	100.0	98.1	96.9	96.7	95.6	103.6	102.5	107.7	100.8		
1924 average.....	98.1	98.4	96.2	96.4	98.8	99.3	98.8	99.2	100.0	100.0		
1925 average.....	100.4	101.6	105.7	106.7	104.5	105.1	97.6	98.3	92.3	99.2		
1926 average.....	100.4	102.5	110.3	113.4	102.7	103.3	95.5	96.6	(1)	(1)		
1927 average.....	94.1	96.7	108.8	111.8	90.7	90.5	86.6	89.0	119.0	110.7		
1928 average.....	92.4	94.2	106.7	107.5	86.7	86.1	84.4	87.2	(1)	(1)		
1929 average.....	95.4	97.4	111.9	114.0	84.6	83.5	87.7	90.7	126.0	98.2		
1930 average.....	76.1	72.6	89.0	80.7	64.4	61.1	67.6	67.6	(1)	(1)		
1931 average.....	56.3	46.6	73.7	59.2	51.1	42.0	41.1	33.6	88.6	47.5		
1932 average.....	41.1	25.1	57.8	34.8	35.6	21.7	26.1	14.2	71.9	32.7		
1933 average.....	44.2	26.4	61.7	36.3	34.5	19.5	28.7	16.0	83.6	36.3		
1934 average.....	48.7	32.7	63.0	41.9	36.8	23.3	33.4	21.4	97.2	50.1		
1934												
January.....	45.6	27.4	60.0	35.3	33.3	19.7	30.7	17.4	97.8	50.4		
February.....	47.1	30.5	62.4	40.5	36.1	21.7	31.3	19.1	98.6	51.7		
March.....	48.5	31.9	63.0	41.1	37.6	23.2	32.6	20.7	101.4	46.2		
April.....	49.4	33.3	60.8	40.3	39.4	24.6	34.3	22.5	101.2	53.7		
May.....	51.0	34.6	61.3	40.5	40.4	25.3	36.1	24.2	102.4	51.4		
June.....	50.0	33.9	62.4	41.2	37.9	24.1	35.1	23.2	98.6	51.0		
July.....	48.8	31.6	62.0	39.3	37.0	23.1	33.8	20.9	97.3	50.3		
August.....	49.0	33.5	62.9	42.7	36.2	23.1	33.9	22.1	98.3	51.3		
September.....	49.3	33.9	65.0	44.6	34.6	21.8	34.1	22.3	96.2	52.2		
October.....	49.5	35.2	66.5	47.2	36.3	24.1	33.9	22.6	89.3	45.1		
November.....	48.6	33.6	65.2	44.5	36.3	24.0	32.8	21.3	92.4	47.9		
December.....	47.8	33.3	65.0	45.9	36.7	24.6	31.6	20.0	92.9	50.2		
Stone, clay, and glass products												
Month and year	Group index		Brick, tile, and terra cotta		Cement		Glass		Marble, granite, slate, and other products		Pottery	
	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls
1919 average.....	86.4	72.1	(1)	(1)	69.0	62.5	112.7	100.8	(1)	(1)	(1)	(1)
1920 average.....	89.8	92.8	(1)	(1)	83.3	91.7	119.6	128.5	(1)	(1)	(1)	(1)
1921 average.....	72.2	66.5	(1)	(1)	69.6	65.2	82.7	78.7	(1)	(1)	(1)	(1)
1922 average.....	85.5	72.6	(1)	(1)	89.9	83.9	97.4	84.7	(1)	(1)	(1)	(1)
1923 average.....	100.4	98.3	100.6	98.1	95.0	94.6	105.1	103.4	104.5	101.7	98.5	97.8
1924 average.....	98.9	100.5	98.7	101.1	101.0	102.9	95.5	96.9	100.0	100.0	103.8	104.3
1925 average.....	100.7	101.2	100.7	100.8	104.0	102.5	99.4	99.7	95.5	98.3	97.7	97.9
1926 average.....	103.8	104.2	102.9	101.8	102.1	100.9	103.8	103.9	(1)	(1)	99.7	99.3
1927 average.....	99.9	100.5	99.0	96.7	98.3	101.1	94.3	93.6	105.6	113.0	98.0	94.5
1928 average.....	95.7	96.2	92.3	87.5	92.6	96.9	92.6	94.5	(1)	(1)	98.8	93.9
1929 average.....	93.8	93.7	91.5	84.7	90.3	92.9	96.7	100.9	98.7	104.0	94.7	91.4
1930 average.....	80.2	76.9	72.2	62.2	84.6	83.4	83.8	82.9	(1)	(1)	92.9	74.1
1931 average.....	63.7	53.9	50.2	35.2	65.8	56.9	71.5	66.5	72.2	68.8	72.3	56.4
1932 average.....	44.6	29.1	29.6	14.0	44.9	27.7	58.9	45.9	43.2	31.8	57.0	35.1
1933 average.....	45.0	27.6	27.0	12.0	41.1	22.2	69.8	52.9	33.7	20.7	60.2	35.8
1934 average.....	52.8	35.5	29.7	16.0	49.3	30.6	89.8	71.8	30.7	19.4	69.0	44.7
1934												
January.....	47.3	29.9	24.7	12.2	35.6	19.4	83.8	65.3	30.6	15.6	66.5	40.5
February.....	49.8	33.3	25.6	13.1	41.0	22.5	89.5	73.5	27.7	16.5	69.3	44.1
March.....	52.1	34.7	26.9	13.7	42.4	24.1	93.9	74.6	29.6	18.9	71.7	47.2
April.....	55.3	38.8	30.5	16.4	48.0	30.6	95.9	80.8	32.3	21.5	73.9	50.0
May.....	57.7	39.5	33.1	18.1	57.6	35.8	95.1	75.8	34.6	24.9	74.9	50.2
June.....	57.1	38.8	34.4	19.3	59.1	39.9	93.6	73.4	33.8	22.8	69.4	43.7
July.....	54.2	36.1	31.7	17.0	58.4	39.1	89.1	69.5	33.1	21.5	64.1	38.4
August.....	53.1	34.9	31.8	16.8	55.0	35.4	87.6	68.2	31.3	20.1	63.4	37.8
September.....	52.9	34.7	30.4	16.1	54.0	33.9	87.3	67.4	32.2	20.2	66.2	41.1
October.....	51.9	35.5	29.9	16.9	50.7	32.4	86.1	69.4	29.7	18.6	68.4	45.7
November.....	52.2	35.6	29.9	16.5	48.2	29.4	88.5	72.0	28.6	17.3	69.7	47.7
December.....	50.1	34.4	28.0	15.3	41.6	24.1	87.4	71.9	25.2	15.1	70.6	50.0

\* Data not available.

Table 6.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Textiles and their products									
	Group index		Fabrics (sub-group)		Carpets and rugs		Cotton goods		Cotton small wares	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	98.8	89.8	95.2	85.9	(1)	(1)	97.4	96.4	(1)	(1)
1920 average.....	99.0	107.7	94.6	103.1	(1)	(1)	97.7	122.7	(1)	(1)
1921 average.....	92.6	59.3	89.9	84.6	(1)	(1)	93.1	89.0	(1)	(1)
1922 average.....	97.3	81.4	95.4	87.1	(1)	(1)	93.8	86.6	(1)	(1)
1923 average.....	105.2	105.8	105.4	106.0	103.8	109.2	106.7	110.1	104.4	105.5
1924 average.....	94.9	93.8	94.2	93.4	96.2	93.3	92.5	91.6	92.6	91.8
1925 average.....	99.9	100.4	100.4	100.6	100.0	97.5	100.8	98.3	103.0	102.7
1926 average.....	99.9	100.2	99.2	99.4	97.8	93.8	101.9	98.3	(1)	(1)
1927 average.....	104.0	106.8	101.3	103.8	96.9	94.5	105.8	105.7	95.3	101.3
1928 average.....	101.3	101.7	96.2	95.8	92.8	85.7	95.5	88.4	(1)	(1)
1929 average.....	104.8	105.2	99.2	99.4	96.2	90.1	96.1	90.1	97.4	102.1
1930 average.....	92.9	55.6	86.0	79.4	74.2	59.7	80.7	69.4	(1)	(1)
1931 average.....	57.2	75.1	80.3	70.2	67.5	54.3	74.5	61.0	81.7	76.8
1932 average.....	76.7	53.5	71.9	50.9	52.0	32.2	67.8	44.6	68.7	52.4
1933 average.....	57.9	61.2	86.2	62.2	60.6	42.6	87.5	62.1	77.4	58.8
1934 average.....	91.2	71.2	89.5	70.9	66.7	50.1	92.9	73.0	82.1	67.2
1934										
January.....	88.2	64.8	89.4	67.0	66.9	49.7	95.0	74.5	73.9	59.2
February.....	96.8	77.9	96.4	78.3	69.7	48.0	99.8	80.6	86.7	73.6
March.....	100.0	82.6	98.4	80.8	72.6	55.0	103.1	84.9	93.8	80.3
April.....	99.1	79.8	96.8	79.3	70.2	54.7	103.3	85.9	93.1	78.7
May.....	96.1	74.1	94.9	74.9	68.0	53.3	101.4	79.5	87.0	70.8
June.....	90.9	66.4	89.9	66.9	68.5	56.6	94.2	65.3	80.5	63.3
July.....	85.9	62.5	87.0	64.4	67.4	48.4	92.2	66.1	76.2	59.2
August.....	88.2	68.1	85.6	64.7	65.5	47.9	88.7	63.3	77.4	60.8
September.....	73.1	57.5	62.0	49.1	64.6	46.5	52.0	40.4	71.2	55.8
October.....	92.3	74.7	89.7	73.1	63.4	46.3	94.5	78.6	82.2	69.2
November.....	90.9	71.1	89.7	72.5	60.1	43.6	94.2	75.7	80.4	64.7
December.....	92.8	75.3	94.0	80.2	63.8	51.0	96.0	81.2	83.0	70.8

Month and year	Textiles and their products—Continued									
	Dyeing and finishing textiles		Hats, fur-felt		Knit goods		Silk and rayon goods		Woolen and worsted goods	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	85.4	75.6	(1)	(1)	92.8	77.2	101.9	82.9	(1)	(1)
1920 average.....	80.8	88.5	(1)	(1)	96.7	98.6	104.5	97.3	(1)	(1)
1921 average.....	78.2	76.6	(1)	(1)	87.4	81.4	97.8	87.1	(1)	(1)
1922 average.....	83.8	77.6	(1)	(1)	104.4	94.1	95.2	79.2	(1)	(1)
1923 average.....	97.4	96.1	106.4	107.4	104.8	103.7	99.7	97.4	109.3	109.1
1924 average.....	93.9	92.7	97.1	90.4	94.5	92.3	94.8	93.0	97.9	97.6
1925 average.....	108.7	111.2	96.5	102.1	100.7	104.0	105.5	109.6	92.8	93.3
1926 average.....	110.8	114.2	(1)	(1)	101.3	109.1	102.9	107.8	84.1	84.0
1927 average.....	113.5	121.5	101.2	114.1	102.6	116.0	101.5	107.6	86.7	84.7
1928 average.....	114.9	121.8	(1)	(1)	102.6	115.4	101.0	107.5	83.1	79.2
1929 average.....	121.8	124.8	105.3	112.3	112.5	129.8	103.8	105.6	82.6	80.1
1930 average.....	112.0	108.7	(1)	(1)	102.9	108.6	95.1	87.2	67.2	60.5
1931 average.....	103.3	101.2	89.6	82.5	96.0	92.2	86.9	74.8	67.1	57.3
1932 average.....	89.3	72.3	71.7	57.6	94.1	75.5	68.7	46.4	59.5	41.3
1933 average.....	94.8	73.6	77.5	65.8	102.2	81.4	75.5	51.8	78.2	54.5
1934 average.....	106.2	84.2	80.1	74.3	107.6	98.6	75.4	60.0	72.4	52.5
1934										
January.....	104.9	81.3	79.1	67.8	97.3	71.3	74.9	55.8	79.1	56.9
February.....	113.1	96.5	83.2	78.4	107.1	98.9	85.5	69.6	85.9	64.4
March.....	117.2	98.2	84.9	79.7	112.3	107.0	84.7	68.3	82.3	60.8
April.....	116.4	94.8	85.2	70.7	114.5	108.9	78.4	63.3	74.9	55.4
May.....	113.0	87.8	84.7	79.2	113.9	106.4	72.8	56.3	75.3	54.1
June.....	105.6	72.9	74.8	68.8	110.6	100.0	75.4	59.0	68.8	49.1
July.....	99.4	70.6	76.9	83.2	101.9	86.0	73.4	55.9	70.1	50.1
August.....	100.6	76.9	82.8	90.8	102.6	89.4	73.9	59.7	68.4	48.0
September.....	91.1	75.6	83.9	79.0	100.6	91.0	58.2	41.1	35.8	24.3
October.....	106.7	83.0	75.6	60.5	109.5	107.1	75.9	63.7	68.1	46.9
November.....	91.4	73.2	73.5	62.0	110.6	107.9	75.0	62.3	75.0	53.6
December.....	114.8	99.6	77.0	71.3	110.4	109.2	76.3	64.9	85.6	66.6

¹ Data not available.

Table 6.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Textiles and their products—Continued									
	Wearing apparel (subgroup)		Clothing, men's		Clothing, women's		Corsets and allied garments		Men's furnishings	
	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls
1919 average.....	107.1	97.9	96.5	91.8	128.9	114.4	(1)	(1)	(1)	(1)
1920 average.....	109.6	117.3	101.6	117.1	122.3	124.2	(1)	(1)	(1)	(1)
1921 average.....	100.0	99.3	90.7	93.6	112.6	108.2	(1)	(1)	(1)	(1)
1922 average.....	102.6	100.6	100.2	99.4	103.8	103.1	(1)	(1)	(1)	(1)
1923 average.....	105.4	105.6	107.0	109.3	104.3	103.2	105.2	103.4	94.6	93.6
1924 average.....	96.1	94.9	97.3	96.1	96.6	94.3	100.0	100.0	100.1	96.1
1925 average.....	98.5	99.5	95.7	94.6	99.1	102.5	94.8	96.6	105.3	110.3
1926 average.....	99.8	99.6	97.4	94.8	104.2	104.7	(1)	(1)	(1)	(1)
1927 average.....	105.8	107.6	102.5	99.5	121.0	123.6	90.0	96.7	125.7	139.5
1928 average.....	108.3	107.5	101.3	95.5	133.7	132.5	(1)	(1)	(1)	(1)
1929 average.....	113.3	111.0	103.2	95.8	146.8	142.6	89.2	97.0	132.7	145.5
1930 average.....	105.0	93.6	91.4	74.7	142.2	127.9	(1)	(1)	(1)	(1)
1931 average.....	99.6	80.7	84.9	62.8	135.8	110.5	91.3	89.6	120.1	109.5
1932 average.....	84.8	55.5	74.4	42.3	110.4	73.9	88.0	74.0	99.2	67.0
1933 average.....	88.2	55.7	80.3	47.3	110.0	68.0	88.9	71.0	101.5	62.7
1934 average.....	91.1	67.7	84.0	57.9	116.1	84.9	90.1	81.4	101.6	70.6
1934										
January.....	81.4	56.6	76.7	48.8	102.3	71.2	85.1	73.1	77.7	47.2
February.....	93.4	72.3	85.5	60.6	119.0	94.1	91.4	85.7	101.0	70.9
March.....	99.4	81.4	88.7	65.9	130.5	108.3	95.1	91.1	110.1	80.0
April.....	100.0	76.1	88.0	61.4	132.2	98.6	96.7	93.8	112.9	80.1
May.....	94.7	68.1	81.5	53.3	126.5	88.6	94.8	85.2	104.0	71.9
June.....	89.3	61.7	81.6	54.6	113.4	72.6	87.5	76.4	96.2	66.7
July.....	79.8	55.3	81.4	54.5	89.6	60.9	86.8	69.4	89.5	56.7
August.....	90.1	70.6	88.4	65.6	110.0	85.2	87.8	75.6	94.3	62.9
September.....	95.5	70.9	89.5	62.2	121.0	85.2	88.6	81.0	101.4	67.5
October.....	94.4	73.4	86.8	62.6	121.7	94.8	89.2	79.4	107.0	78.6
November.....	89.6	64.1	80.3	52.1	115.5	81.3	89.3	80.7	116.9	87.5
December.....	86.0	61.3	79.1	52.6	111.6	77.6	89.3	85.1	108.4	77.7
Textiles and their products—Continued										
Month and year	Textiles and their products—Continued				Leather and its manufactures					
	Millinery		Shirts and collars		Group index		Boots and shoes		Leather	
	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls
1919 average.....	96.9	88.6	92.3	79.5	108.1	99.9	101.8	92.3	133.2	127.3
1920 average.....	100.1	99.8	107.1	114.1	95.5	106.5	94.0	100.0	119.3	131.7
1921 average.....	102.5	95.0	98.1	96.3	86.6	86.5	87.1	88.7	92.4	84.6
1922 average.....	101.7	94.5	109.3	105.3	97.3	96.1	95.9	97.7	106.8	95.4
1923 average.....	103.2	100.8	107.9	109.7	106.6	106.9	106.0	107.6	109.1	107.9
1924 average.....	94.8	94.5	93.0	91.9	96.3	95.3	96.7	95.3	95.4	95.8
1925 average.....	102.0	104.7	99.1	98.4	97.1	97.8	97.3	97.1	95.5	96.3
1926 average.....	98.0	103.6	101.7	101.9	96.6	98.9	95.6	96.1	96.7	99.5
1927 average.....	104.8	113.9	105.1	109.9	97.7	100.3	95.6	96.8	96.6	99.3
1928 average.....	105.7	112.3	106.3	107.1	95.6	95.8	92.7	91.3	94.3	95.5
1929 average.....	101.3	104.0	109.1	109.2	98.5	99.0	96.7	95.6	91.1	92.8
1930 average.....	91.3	88.6	102.7	90.3	91.2	82.3	90.2	78.3	84.6	83.0
1931 average.....	83.7	79.2	104.0	82.7	84.3	72.1	85.3	70.2	76.9	72.5
1932 average.....	76.3	65.2	90.5	61.0	79.0	58.1	81.7	58.5	69.1	56.0
1933 average.....	75.9	57.9	99.0	72.1	53.3	62.9	83.9	61.5	81.3	66.8
1934 average.....	70.4	60.6	99.8	89.7	87.8	73.9	87.0	71.7	91.1	80.2
1934										
January.....	73.5	58.1	84.3	67.4	82.9	67.5	80.8	64.2	91.4	77.9
February.....	83.9	71.3	98.6	84.0	90.3	81.7	89.6	81.0	93.6	82.6
March.....	86.3	84.4	105.0	95.2	92.7	84.4	92.2	84.1	95.1	83.9
April.....	83.3	76.9	108.3	97.9	92.3	82.1	92.2	81.8	93.2	81.9
May.....	78.0	67.9	106.7	94.1	91.4	78.9	91.3	77.6	92.1	82.0
June.....	64.6	51.5	104.6	94.1	87.7	72.9	86.8	70.5	91.5	79.8
July.....	50.1	37.7	93.7	82.2	89.4	77.2	89.0	76.2	91.5	79.2
August.....	65.4	59.4	97.3	90.7	91.1	78.7	91.9	79.1	88.4	76.1
September.....	76.0	75.5	103.5	93.2	85.7	69.2	85.5	67.7	86.8	73.6
October.....	68.8	54.8	103.4	99.8	83.4	64.3	82.3	60.4	88.2	76.9
November.....	59.3	45.1	101.3	98.3	81.6	61.0	79.8	54.6	89.2	82.0
December.....	55.9	44.1	90.5	79.7	84.8	69.1	82.9	63.7	92.7	86.5

1 Data not available.



Table 6.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Food and kindred products									
	Group index		Baking		Beverages		Butter		Canning and preserving	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	109.8	97.6	87.3	73.3	(1)	(1)	(1)	(1)	(1)	(1)
1920 average.....	106.7	109.6	95.7	96.6	(1)	(1)	(1)	(1)	(1)	(1)
1921 average.....	93.7	94.1	92.4	92.1	(1)	(1)	(1)	(1)	(1)	(1)
1922 average.....	97.5	92.8	92.3	87.3	(1)	(1)	(1)	(1)	(1)	(1)
1923 average.....	102.1	100.4	100.1	98.0	104.9	104.4	106.7	105.7	97.7	97.8
1924 average.....	98.4	99.4	101.1	101.7	97.0	95.8	100.0	100.0	86.9	86.9
1925 average.....	99.5	100.2	98.8	100.3	98.1	99.8	93.3	94.3	115.4	115.3
1926 average.....	99.5	101.8	101.4	104.1	(1)	(1)	(1)	(1)	(1)	(1)
1927 average.....	101.7	104.0	105.9	107.8	96.6	100.0	105.6	108.2	112.0	108.7
1928 average.....	105.8	107.6	112.2	113.3	(1)	(1)	(1)	(1)	(1)	(1)
1929 average.....	112.8	113.9	123.6	125.3	101.3	106.1	100.3	102.5	134.6	129.4
1930 average.....	109.4	108.9	121.5	123.7	(1)	(1)	(1)	(1)	138.8	126.7
1931 average.....	97.4	93.0	112.6	109.0	85.5	83.1	82.0	79.1	106.1	91.5
1932 average.....	86.4	74.2	101.2	88.6	74.0	64.3	75.3	65.7	74.8	64.9
1933 average.....	94.4	76.2	101.2	82.7	127.9	118.0	76.1	58.7	90.3	75.5
1934 average.....	106.5	92.4	113.2	95.5	163.2	156.2	80.0	60.3	101.7	99.4
1934										
January.....	94.1	80.7	106.4	88.5	140.5	127.7	76.5	56.7	54.0	53.9
February.....	93.9	81.1	108.4	91.4	141.5	128.5	74.2	56.5	54.3	56.9
March.....	96.2	82.2	110.3	91.8	147.7	138.3	76.8	58.4	67.7	67.2
April.....	97.2	83.1	111.2	91.3	156.6	150.9	79.2	61.9	71.9	69.5
May.....	99.6	87.2	113.2	95.3	169.1	167.0	84.4	64.7	67.9	68.6
June.....	105.1	91.9	114.6	96.5	183.0	182.5	88.8	68.0	90.7	84.2
July.....	110.1	95.6	116.3	98.2	188.9	193.5	86.9	66.6	120.6	103.6
August.....	122.1	105.1	115.8	97.8	185.8	185.0	85.5	62.7	194.3	195.4
September.....	127.1	109.3	115.7	99.6	176.7	167.0	81.1	60.4	204.4	199.5
October.....	119.5	103.4	116.1	98.3	168.2	157.2	77.7	58.3	137.3	134.4
November.....	109.0	96.1	115.4	98.6	151.0	142.2	76.0	56.4	88.4	87.5
December.....	103.8	92.9	115.4	98.7	148.7	135.0	72.3	53.0	69.0	72.5

Month and year	Food and kindred products—Continued											
	Confectionery		Flour		Ice cream		Slaughtering and meat packing		Sugar, beet		Sugar refin- ing, cane	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	(1)	(1)	135.0	124.0	(1)	(1)	127.2	128.3	(1)	(1)	123.8	116.2
1920 average.....	(1)	(1)	121.7	130.1	(1)	(1)	111.8	124.6	(1)	(1)	117.0	132.2
1921 average.....	(1)	(1)	105.3	104.6	(1)	(1)	94.4	93.5	(1)	(1)	105.5	99.3
1922 average.....	(1)	(1)	106.9	98.2	(1)	(1)	91.7	87.1	(1)	(1)	122.6	110.4
1923 average.....	101.7	100.9	104.9	101.9	99.2	98.7	104.7	102.6	92.1	91.1	103.4	102.6
1924 average.....	96.5	97.7	99.7	101.0	102.0	99.7	100.3	99.9	100.0	100.0	98.2	100.4
1925 average.....	101.8	101.4	95.4	97.1	98.8	101.6	95.0	97.5	107.9	108.9	98.4	97.0
1926 average.....	105.8	106.8	91.8	94.4	96.3	103.2	93.2	97.8	(1)	(1)	94.8	91.5
1927 average.....	101.1	104.7	89.4	91.8	94.0	100.6	94.0	98.9	90.0	87.5	94.9	90.6
1928 average.....	98.9	101.0	85.5	89.7	95.5	103.2	94.8	100.1	(1)	(1)	89.4	87.5
1929 average.....	101.7	103.7	80.6	85.7	96.0	102.7	96.7	101.5	91.2	90.3	94.3	91.4
1930 average.....	92.1	93.3	73.9	78.7	89.0	93.0	92.1	96.3	(1)	(1)	92.3	89.7
1931 average.....	82.0	77.5	68.1	66.7	76.0	76.9	84.1	82.2	75.8	68.1	80.3	79.6
1932 average.....	74.2	59.9	65.1	55.9	64.5	56.4	79.8	65.2	76.7	56.2	74.2	68.7
1933 average.....	79.7	59.5	67.7	53.9	62.9	48.6	87.6	67.7	102.6	73.7	78.6	67.0
1934 average.....	80.0	68.5	76.5	63.4	71.4	56.4	103.7	90.5	84.7	61.0	86.4	70.1
1934												
January.....	74.6	64.1	73.2	60.3	57.9	45.3	96.5	81.8	117.4	67.9	76.8	58.5
February.....	79.2	67.2	75.4	61.6	57.1	44.3	95.5	78.6	31.1	29.4	83.2	66.4
March.....	80.3	68.0	74.6	60.2	59.2	46.5	92.8	75.9	31.8	29.1	86.2	66.5
April.....	74.7	61.8	74.5	61.2	64.9	51.4	92.4	76.1	37.3	33.8	84.7	70.4
May.....	71.6	60.6	74.0	61.2	79.6	63.7	96.7	80.7	43.8	36.2	86.4	70.5
June.....	68.9	58.0	74.8	62.7	86.7	68.9	101.4	87.2	47.6	38.9	89.5	77.3
July.....	66.4	55.4	77.5	65.0	90.8	72.6	103.5	91.4	54.5	40.7	82.3	65.9
August.....	71.5	60.8	78.2	64.8	88.7	68.8	112.4	99.0	73.4	56.7	87.5	74.0
September.....	93.1	82.6	80.2	68.6	77.3	60.5	121.2	109.2	76.9	58.5	88.1	72.4
October.....	96.6	84.1	80.5	68.5	69.8	55.2	117.6	107.0	200.4	125.6	90.9	74.0
November.....	91.5	76.5	77.7	63.3	63.5	50.2	109.3	100.7	189.0	147.2	93.6	72.8
December.....	91.3	82.8	77.2	63.6	61.0	49.1	105.5	98.4	113.0	68.3	87.7	72.5

<sup>1</sup> Data not available.

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Table 6.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Tobacco manufactures						Paper and printing	
	Group index		Chewing and smoking tobacco and snuff		Cigars and cigarettes		Group index	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	113.4	107.3	(1)	(1)	(1)	(1)	96.0	73.1
1920 average.....	111.3	124.6	(1)	(1)	(1)	(1)	103.4	99.1
1921 average.....	108.3	104.5	(1)	(1)	(1)	(1)	88.0	82.5
1922 average.....	105.8	99.1	(1)	(1)	(1)	(1)	92.2	85.9
1923 average.....	105.7	104.1	102.7	101.4	106.2	104.5	99.2	96.2
1924 average.....	98.8	99.4	102.7	101.6	98.2	99.2	99.7	99.5
1925 average.....	95.5	96.5	94.6	97.0	95.6	96.3	101.1	104.3
1926 average.....	96.9	92.1	93.1	94.0	90.4	91.8	104.1	110.8
1927 average.....	93.4	91.0	82.6	84.8	94.9	91.8	104.1	111.0
1928 average.....	90.7	86.1	75.6	77.4	92.8	87.2	105.0	112.3
1929 average.....	83.9	81.8	68.0	71.3	86.0	83.1	111.3	119.5
1930 average.....	78.3	72.7	69.8	71.3	79.4	72.9	108.0	114.6
1931 average.....	72.1	60.1	71.9	69.0	72.1	58.9	96.3	97.3
1932 average.....	64.0	47.3	76.2	66.0	62.5	45.0	85.0	74.8
1933 average.....	59.7	42.5	74.5	63.1	57.9	39.9	86.2	69.3
1934 average.....	62.6	47.1	75.6	67.4	60.9	44.6	94.9	79.6
1934								
January.....	54.5	39.8	76.6	68.3	51.6	36.2	92.4	74.3
February.....	62.1	45.5	81.0	74.1	59.7	41.9	93.1	76.0
March.....	64.4	45.8	81.1	72.2	62.2	42.5	93.7	77.7
April.....	64.7	46.2	79.3	66.3	62.8	43.6	95.1	77.7
May.....	61.3	46.3	76.9	55.3	59.3	43.9	95.9	80.6
June.....	62.4	47.5	73.2	66.6	61.0	45.1	94.7	78.9
July.....	61.1	47.3	72.9	67.0	59.6	44.8	93.4	77.3
August.....	65.1	49.3	73.6	66.6	64.0	47.1	93.8	78.4
September.....	64.7	50.3	73.7	68.7	63.5	47.9	95.3	80.3
October.....	65.3	49.0	73.5	63.9	64.2	47.1	96.4	82.7
November.....	64.0	48.8	73.8	62.2	62.7	47.1	97.0	82.8
December.....	61.9	49.9	71.5	67.4	60.6	47.7	97.8	86.5
Paper and printing—Continued								
Month and year	Boxes, paper		Paper and pulp		Printing and publishing, book and job		Printing and publishing, newspapers and periodicals	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	97.8	77.9	94.0	88.1	(1)	(1)	(1)	(1)
1920 average.....	103.8	97.5	108.6	125.0	(1)	(1)	(1)	(1)
1921 average.....	81.5	72.3	87.1	84.1	(1)	(1)	(1)	(1)
1922 average.....	87.1	80.7	90.7	83.4	(1)	(1)	(1)	(1)
1923 average.....	100.0	97.3	100.0	98.4	98.3	95.5	98.9	94.7
1924 average.....	99.5	99.7	97.3	97.5	100.7	100.0	101.0	100.6
1925 average.....	100.5	103.0	102.7	104.1	101.0	104.5	100.1	104.7
1926 average.....	102.1	106.9	105.8	109.1	104.9	112.5	101.7	110.3
1927 average.....	99.2	104.0	102.2	105.3	106.9	114.1	102.2	111.1
1928 average.....	96.3	102.0	100.8	105.3	107.4	113.6	104.5	113.6
1929 average.....	97.9	102.9	106.1	112.5	113.1	118.7	111.0	121.8
1930 average.....	90.7	91.6	102.5	104.6	110.9	115.6	109.9	119.4
1931 average.....	81.8	79.0	89.5	82.1	100.7	99.1	101.8	108.0
1932 average.....	70.5	60.1	82.4	61.7	85.8	73.4	92.8	88.6
1933 average.....	77.0	62.7	90.3	64.9	79.4	62.5	93.3	80.0
1934 average.....	84.9	75.4	105.4	79.3	85.7	72.0	98.5	87.4
1934								
January.....	77.9	63.6	100.3	71.3	85.7	69.3	98.1	83.3
February.....	80.7	69.6	102.5	76.4	85.0	68.3	98.0	84.0
March.....	83.8	74.8	104.4	78.6	83.5	68.9	98.2	85.7
April.....	85.3	75.7	106.8	81.3	84.7	70.8	99.0	87.3
May.....	85.3	76.2	107.2	79.8	86.6	73.4	99.1	88.4
June.....	83.9	73.8	105.0	78.5	84.8	71.0	98.8	87.5
July.....	83.1	71.6	104.8	77.1	83.7	70.3	96.8	84.8
August.....	84.1	74.5	104.8	78.8	85.0	71.6	96.6	84.9
September.....	86.5	77.8	105.4	79.6	86.3	72.4	98.5	88.2
October.....	89.7	82.6	106.6	83.2	87.0	73.7	99.2	89.9
November.....	90.3	81.3	107.7	82.6	87.2	74.4	99.8	90.4
December.....	88.5	82.7	108.3	84.2	89.3	80.1	100.4	94.2

¹ Data not available.

Table 6.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Chemicals and allied products									
	Group index		Other than petroleum refining		Chemicals		Cottonseed—oil, cake, and meal		Druggists' preparations	
	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls
1919 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1920 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1921 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1922 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1923 average.....	102.9	102.2	102.9	102.1	105.7	101.8	87.8	83.9	97.7	91.6
1924 average.....	96.7	96.3	96.9	96.8	98.0	98.1	100.5	94.9	96.8	97.5
1925 average.....	100.4	101.5	100.2	101.0	96.3	100.1	111.7	121.2	105.5	110.7
1926 average.....	106.7	108.8	105.6	107.6	(1)	(1)	(1)	(1)	108.3	113.4
1927 average.....	104.1	107.9	102.7	106.7	(1)	(1)	127.0	151.3	110.4	119.2
1928 average.....	102.9	108.1	102.4	108.1	(1)	(1)	(1)	(1)	106.6	113.1
1929 average.....	115.6	121.0	113.4	118.5	109.2	120.0	109.0	118.9	116.4	124.4
1930 average.....	109.5	112.2	105.8	106.6	99.5	103.5	(1)	(1)	108.2	116.3
1931 average.....	95.1	91.8	92.5	87.5	85.1	84.2	84.5	88.5	103.2	105.3
1932 average.....	84.0	70.4	81.1	65.8	72.9	63.0	89.7	79.0	90.3	82.4
1933 average.....	94.7	74.3	93.5	71.6	87.2	71.9	87.2	74.2	90.7	81.0
1934 average.....	108.6	89.4	108.0	87.9	108.1	92.4	83.4	76.2	101.1	92.1
1934										
January.....	107.9	84.5	107.3	83.0	104.8	86.9	100.4	86.9	101.9	90.9
February.....	110.6	87.2	110.6	86.1	104.8	88.0	111.1	97.9	102.4	91.8
March.....	112.8	89.1	113.4	88.3	107.7	89.1	95.5	84.9	103.1	92.6
April.....	113.3	92.3	114.7	92.4	110.8	95.8	70.4	62.5	100.6	92.4
May.....	106.1	88.3	105.3	87.0	111.2	94.4	56.5	50.6	97.7	88.5
June.....	104.5	88.1	102.9	86.6	111.7	96.1	50.7	48.0	96.9	90.3
July.....	105.3	88.7	103.8	86.6	112.3	96.6	54.8	53.7	93.8	86.1
August.....	106.9	90.0	105.3	87.8	110.9	96.5	72.4	68.4	98.6	89.9
September.....	108.6	89.9	107.6	87.9	108.0	92.1	98.1	92.0	103.0	92.3
October.....	109.4	91.6	108.5	89.6	106.5	92.4	109.3	101.0	106.8	99.1
November.....	108.6	90.9	107.9	89.1	104.4	90.7	90.5	81.4	105.5	96.8
December.....	108.8	91.7	108.3	89.9	103.9	90.0	91.4	86.9	102.8	94.8

Month and year	Chemicals and allied products—Continued											
	Explosives		Fertilizers		Paints and varnishes		Rayon and allied products		Soap		Petroleum refining	
	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls
1919 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1920 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1921 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1922 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1923 average.....	108.5	109.5	100.5	99.1	95.6	91.6	87.3	91.3	104.9	105.7	103.0	102.3
1924 average.....	94.8	97.6	93.1	93.6	97.6	99.8	93.1	95.5	100.0	100.0	96.1	94.6
1925 average.....	96.7	92.9	106.4	107.3	106.8	108.6	119.6	113.2	95.1	94.3	100.9	103.1
1926 average.....	98.7	92.2	112.8	118.4	(1)	(1)	(1)	(1)	(1)	(1)	110.8	112.7
1927 average.....	98.5	97.6	100.8	106.9	117.5	123.3	164.8	141.2	82.9	100.3	109.9	111.9
1928 average.....	95.4	92.2	107.6	109.1	(1)	(1)	(1)	(1)	(1)	(1)	104.7	108.3
1929 average.....	95.3	102.0	113.4	108.3	122.3	129.6	244.4	220.2	88.6	96.7	124.4	129.2
1930 average.....	79.7	74.7	111.0	104.2	(1)	(1)	242.2	214.1	(1)	(1)	124.9	130.4
1931 average.....	80.4	66.9	78.8	73.4	94.4	90.3	241.9	188.4	87.4	90.2	106.2	105.8
1932 average.....	66.4	45.3	62.4	49.6	82.2	66.8	217.0	140.4	83.3	75.0	96.1	85.4
1933 average.....	76.3	52.3	82.5	55.8	85.7	64.3	281.9	178.8	89.8	73.3	99.8	83.1
1934 average.....	93.6	71.6	106.4	79.3	100.3	79.0	307.6	215.4	100.4	87.2	111.1	94.3
1934												
January.....	89.9	64.4	106.6	76.9	93.9	71.5	319.4	208.1	91.6	76.5	110.3	89.5
February.....	95.6	68.8	121.5	81.6	97.6	74.5	325.2	220.0	98.0	83.5	110.6	90.8
March.....	94.7	70.5	160.4	107.3	98.4	77.1	321.9	218.2	103.1	88.4	110.2	92.0
April.....	99.2	78.6	181.5	132.1	102.6	83.0	319.0	221.3	104.5	88.8	107.8	92.0
May.....	98.3	75.2	111.8	84.0	107.4	87.9	267.7	191.2	102.3	87.1	109.5	92.7
June.....	95.7	73.5	74.4	57.5	106.1	86.3	273.8	200.0	99.9	86.0	111.4	93.1
July.....	92.0	71.0	71.0	56.9	101.2	77.8	296.8	208.6	97.7	84.3	111.7	95.7
August.....	90.5	72.9	72.5	57.5	99.1	78.9	304.2	213.2	98.6	86.1	113.4	97.2
September.....	93.2	69.5	95.0	78.5	98.8	75.8	305.5	215.5	98.6	87.3	112.9	96.3
October.....	91.8	72.5	91.5	73.5	99.6	78.1	307.0	217.2	105.7	94.6	112.9	97.9
November.....	91.6	71.2	91.2	69.7	99.7	78.5	320.8	231.6	104.6	92.5	111.9	96.8
December.....	90.6	70.7	99.5	75.5	99.5	78.1	329.5	240.1	99.6	90.7	110.8	97.8

1 Data not available.

Table 6.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Rubber products							
	Group index		Rubber boots and shoes		Rubber goods, other than boots, shoes, tires, and inner tubes		Rubber tires and inner tubes	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1919 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1920 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1921 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1922 average.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1923 average.....	102.6	101.0	117.0	118.7	103.1	100.1	97.7	96.8
1924 average.....	91.8	92.9	83.6	82.3	91.6	92.7	94.5	95.7
1925 average.....	105.6	106.1	99.4	99.0	105.3	107.2	107.8	107.5
1926 average.....	105.1	107.0	103.0	101.7	(1)	(1)	105.4	107.2
1927 average.....	105.7	110.0	106.8	113.2	110.3	115.5	103.3	107.0
1928 average.....	111.1	117.5	105.0	107.1	(1)	(1)	109.9	116.8
1929 average.....	111.0	115.1	102.1	105.6	120.3	126.4	110.0	113.2
1930 average.....	85.9	84.7	82.0	77.4	(1)	(1)	79.0	79.3
1931 average.....	73.9	62.5	63.2	48.6	102.3	89.9	64.9	56.2
1932 average.....	65.4	44.9	52.5	37.7	94.1	70.0	57.1	37.7
1933 average.....	73.9	50.2	50.9	42.5	112.2	79.5	64.7	41.7
1934 average.....	82.9	63.7	54.0	48.8	122.4	94.3	75.2	56.4
1934								
January.....	82.0	58.7	60.0	52.2	122.7	91.2	71.5	48.6
February.....	84.6	65.2	56.1	47.7	129.2	97.8	74.6	57.9
March.....	87.1	70.5	55.3	48.3	131.8	106.0	78.1	63.4
April.....	90.0	73.4	55.8	51.4	134.1	105.1	82.1	67.6
May.....	89.1	70.3	47.8	42.8	135.2	105.8	82.7	64.5
June.....	85.6	66.5	46.6	41.1	124.2	99.4	81.7	61.1
July.....	82.9	61.9	53.4	49.4	122.1	87.5	77.4	55.9
August.....	80.7	58.8	55.2	50.5	115.9	89.4	73.9	49.9
September.....	78.4	56.1	56.4	50.4	113.5	83.7	70.4	47.6
October.....	77.4	58.3	54.7	50.3	113.1	88.1	69.4	49.6
November.....	76.6	58.1	53.9	49.8	112.1	85.2	68.7	50.4
December.....	79.0	60.0	52.8	52.1	115.1	92.5	71.9	60.0

<sup>1</sup> Data not available.*Employment in Nonmanufacturing Industries in December 1934*

Six of the seventeen nonmanufacturing industries surveyed monthly by the United States Bureau of Labor Statistics showed increases in employment and nine showed gains in pay rolls. Data for the building construction industry are not presented here, but are shown in detail under the section, "Building Construction."

The retail-trade industry reported increases from November to December of 8.5 percent in the number of employees and 6.8 percent in pay rolls, this being due for the most part to holiday trade. The group of department stores, variety stores, general merchandise, and mail-order establishments, which is most affected by the Christmas trade, showed an increase of 27 percent in employment, while the remaining 53,698 retail-trade establishments which reported, showed a gain over the month interval of only 2.3 percent.

A comparison of the 12-month average for 1933 with the average for 1934 shows that there were more employees in the current year in each of the nonmanufacturing industries except telephones and tele-

graphs, which showed a decline of 0.1 percent. The increases ranged from 3 percent in electric-railroad and motor-bus operation and maintenance, to 24.9 percent in crude-petroleum producing. Employment in metalliferous mining increased 20.2 percent, anthracite mining 15.3 percent, bituminous-coal mining 13.7 percent, and hotels 13.4 percent. Gains in pay rolls were shown in each of the non-manufacturing industries. In every instance the pay-roll increases were greater than the employment gains.

In table 7 are shown indexes of employment and pay rolls, per capita weekly earnings, average hours worked per week, and average hourly earnings in December 1934 for 13 of the nonmanufacturing industries surveyed monthly by the Bureau of Labor Statistics, together with percentage changes from November 1934 and December 1933. Per capita weekly earnings in banks, brokerage, insurance, and real estate, together with percentage changes from November 1934 and December 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 7.—Employment, Pay Rolls, Hours, and Earnings in Nonmanufacturing Industries, December 1934

Industry	Employment			Pay rolls			Per capita weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index December 1934 (average 1929 = 100)	Percentage change from—		Index December 1934 (average 1929 = 100)	Percentage change from—		Average in December 1934	Percentage change from—		Average in December 1934	Percentage change from—		Average in December 1934	Percentage change from—	
		November 1934	December 1933		November 1934	December 1933		November 1934	December 1933		November 1934	December 1933		November 1934	December 1933
Coal mining:															
Anthracite.....	61.6	+1.4	+13.0	52.3	+2.2	+18.1	\$24.78	+0.9	+4.4	30.5	+3.7	-1.1	<i>Cents</i> 81.5	-1.6	+3.2
Bituminous.....	79.7	-1	+5.7	57.0	-2.3	+12.2	18.61	-2.3	+6.1	26.5	-4	-8.7	70.9	-1	+18.5
Metalliferous mining.....	44.4	+2.8	+9.4	29.4	+3.2	+12.2	21.53	+4	+2.6	36.4	+1.1	-5.7	58.1	-1.2	+8.7
Quarrying and nonmetallic mining.....	42.1	-15.1	-7.1	23.6	-20.0	-3.3	14.30	-5.7	+4.1	29.6	-6.9	-2.3	47.9	+6	+6.2
Crude-petroleum producing.....	78.7	-2	+4.9	59.5	+9	+11.8	26.78	+1.1	+6.6	34.4	-1.4	+6	79.4	+2.3	+6.4
Public utilities:															
Telephone and telegraph.....	69.7	-3	+4	73.2	+1.3	+8.1	27.83	+1.7	+7.6	38.2	+3	+3.6	74.6	+1.4	+6.8
Electric light and power and manufactured gas.....	83.6	-2.2	+2.2	78.3	-1.6	+5.2	29.85	+6	+3.0	38.7	-3	-1.7	77.2	+1.2	+7.2
Electric-railroad and motor-bus operation and maintenance.....	71.0	-1.0	+3	62.3	+8	+4.5	28.02	+1.8	+4.2	45.6	+2.0	+8	61.1	+5	+8.4
Trade:															
Wholesale.....	<sup>2</sup> 85.0	-1	+4.3	<sup>2</sup> 64.8	+9	+6.4	26.12	+1.0	+2.0	41.0	+7	+1.8	63.4	-2	-6
Retail.....	<sup>2</sup> 90.8	+8.5	+1.9	<sup>2</sup> 66.0	+6.8	+3.1	19.14	-3.1	+1.3	41.6	+3.5	-1.9	48.3	-6.4	+6.6
General merchandising.....	127.3	+27.0	+7.1	97.8	+22.5	+8.5	15.76	-3.5	+1.3	40.5	+7.7	-4.2	41.1	-10.5	+5.6
Other than general merchandising.....	81.2	+2.3	-1	59.4	+2.3	+1.4	22.42	( <sup>3</sup> )	+1.5	42.6	+1.4	+1.9	54.2	-1.6	+3.7
Hotels (cash payments only) <sup>4</sup> .....	83.3	-5	+7.3	64.9	-1	+12.7	13.48	+4	+5.0	47.3	+2	-4.5	27.8	-4	+9.0
Laundries.....	79.5	-1.0	+1.4	63.3	-6	+3.6	14.95	+4	+2.2	39.2	+5	+3.1	37.4	-5	-1.4
Dyeing and cleaning.....	72.4	-4.6	+2.7	51.1	-5.2	+8.0	17.17	-6	+5.2	39.7	( <sup>3</sup> )	+1.1	43.2	-7	+3.9
Banks.....	( <sup>5</sup> )	-1	-3	( <sup>5</sup> )	-4	+2	31.46	-3	+5	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Brokerage.....	( <sup>5</sup> )	+3	-24.8	( <sup>5</sup> )	+4	-28.1	34.32	+1	-4.3	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Insurance <sup>6</sup> .....	( <sup>5</sup> )	+1	+9	( <sup>5</sup> )	+1.9	+1.1	35.53	+1.8	+1	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Real estate.....	( <sup>5</sup> )	+1	+3.5	( <sup>5</sup> )	-1	+3.8	21.49	-1	+2	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )

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

<sup>2</sup> Revised to conform to the trend shown by 1929 and 1933 census totals.

<sup>3</sup> No change.

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

<sup>5</sup> Not available.

<sup>6</sup> October and November data revised as follows:

Month	Percentage change in employment from—		Percentage change in pay roll from—		Average per capita weekly earnings	Percentage change from—	
	Previous month	Previous year	Previous month	Previous year		Previous month	Previous year
October 1934.....	+0.1	+1.2	+0.6	+4.9	\$34.37	+0.5	+3.7
November 1934.....	-4	+7	+2	+2.2	34.72	+9	+1.4

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

IN TABLE 8 are presented index numbers of employment and pay-roll totals for 13 nonmanufacturing industries and 2 subdivisions under retail trade, by months, January 1931 through December 1934.

The indexes for wholesale and retail trade have recently been revised to conform with the trends shown by the 1929 and 1933 census averages.

The indexes for "total retail trade" have been computed by weighing the indexes of the two subgroups, "general merchandising" and "other than general merchandising."

Table 8.—Indexes of Employment and Pay Rolls for Nonmanufacturing Industries January 1931 to December 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	75.7	54.4	32.7	26.9	54.4
June.....	76.1	63.0	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	60.7	79.5	51.0	47.8	51.2	81.1	69.4	74.8	79.8	54.6	38.0	50.7	58.3
December.....	79.8	62.3	54.5	61.6	78.4	56.2	44.3	52.3	81.2	70.0	75.4	79.7	52.3	37.7	50.8	57.0
Average.....	80.5	62.5	51.7	59.6	75.4	53.7	45.8	55.9	83.2	67.4	67.9	77.2	57.5	35.6	37.8	54.2
Month	Metalliferous mining								Quarrying and nonmetallic mining							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	68.3	49.3	32.4	39.6	55.0	29.7	18.1	25.4	64.4	48.9	35.1	39.7	50.4	30.2	18.1	21.3
February.....	65.3	46.9	31.5	40.3	54.6	27.8	17.8	26.0	66.0	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	45.0	39.3	48.7	62.6	30.0	20.2	29.9
May.....	62.4	38.3	30.0	40.8	49.3	23.8	17.0	25.6	75.5	50.6	43.4	54.3	62.3	32.3	23.8	35.0
June.....	60.0	32.2	31.5	41.0	46.1	20.1	18.3	26.7	72.3	49.5	47.3	56.6	60.1	30.0	27.5	37.0
July.....	56.2	29.5	33.0	39.9	41.3	16.9	19.0	25.1	71.0	49.5	49.5	55.6	57.3	29.1	28.4	35.0
August.....	55.8	28.6	36.8	42.7	40.2	16.5	21.9	27.0	68.9	51.1	51.6	54.7	55.1	29.7	29.9	34.0
September.....	55.5	29.3	38.9	43.3	40.0	17.0	23.9	25.9	66.6	52.4	52.6	53.3	51.2	30.5	29.3	32.4
October.....	53.8	30.5	40.7	43.3	37.4	18.0	25.9	28.2	64.5	52.4	53.2	51.8	48.7	30.1	31.2	32.1
November.....	52.8	31.9	40.6	43.2	35.1	18.7	25.6	28.5	59.3	49.4	51.1	49.5	43.3	27.1	28.3	29.4
December.....	51.2	33.3	40.6	44.4	34.3	18.7	26.2	29.4	53.9	42.3	45.3	42.1	36.9	22.1	24.4	23.6
Average.....	59.1	36.5	34.6	41.6	44.8	21.6	20.6	26.7	67.4	49.0	44.9	48.9	53.4	29.1	24.7	29.6
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	86.6	79.1	68.5	71.0	93.3	79.6	66.7	72.3
August.....	62.4	57.4	60.8	82.7	56.3	42.9	42.5	61.2	85.9	78.1	68.1	71.0	92.3	79.1	66.1	74.0
September.....	61.2	56.2	56.2	81.8	55.2	41.9	44.4	59.7	88.3	77.4	68.3	70.9	92.7	75.9	64.6	72.2
October.....	60.4	56.8	70.6	79.5	54.4	42.5	50.1	60.8	84.1	76.2	68.7	70.3	91.6	75.7	67.0	74.9
November.....	57.6	56.5	72.2	78.8	52.0	42.4	50.3	59.0	83.5	75.5	68.9	69.9	89.7	74.3	67.7	72.2
December.....	58.2	57.2	75.0	78.7	54.9	41.7	53.2	59.5	83.1	74.8	69.4	69.7	92.7	73.5	67.7	73.2
Average.....	65.7	55.3	62.2	77.7	61.7	44.1	44.1	56.9	86.6	79.1	70.4	70.3	93.7	81.1	68.2	71.5

**Table 8.—Indexes of Employment and Pay Rolls for Nonmanufacturing Industries, January 1931 to December 1934—Continued**  
 [12-month average, 1929=100]

Month	Electric light and power and manufactured gas								Electric-railroad and motor-bus operation and maintenance <sup>1</sup>							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	99.2	89.3	77.7	82.2	98.6	88.4	73.0	73.8	86.9	79.5	70.6	70.5	85.6	75.4	60.9	59.2
February.....	97.8	87.2	77.4	81.2	99.7	86.0	71.6	74.4	86.6	78.9	70.4	71.0	87.1	74.8	60.6	60.1
March.....	96.7	85.5	76.9	81.7	102.4	85.4	71.9	75.6	86.4	77.6	69.8	71.7	88.1	73.6	59.4	62.2
April.....	97.1	84.8	76.9	82.4	97.6	82.4	69.4	76.8	86.8	78.0	69.5	72.2	86.6	71.8	58.1	62.9
May.....	97.6	84.0	76.9	83.1	98.7	84.2	69.9	77.6	85.9	76.9	69.1	72.6	85.1	72.2	58.2	63.0
June.....	97.2	83.2	77.3	84.0	98.3	80.5	69.9	77.8	85.3	76.5	69.3	73.2	84.8	70.2	58.0	63.2
July.....	96.7	82.3	77.5	85.0	97.4	78.7	70.0	81.1	85.6	75.6	69.4	73.1	83.3	66.4	57.4	63.8
August.....	95.9	81.5	78.1	85.6	96.2	76.7	70.9	79.9	84.8	74.1	69.5	72.8	81.9	63.8	58.2	62.8
September.....	94.7	81.0	80.3	85.8	94.3	74.7	71.8	79.3	84.0	73.5	69.7	72.5	81.2	62.5	57.8	62.4
October.....	92.7	79.9	82.2	85.8	93.2	74.4	76.2	80.6	82.7	72.3	70.6	72.2	79.0	61.5	59.8	63.0
November.....	91.3	79.1	82.6	85.5	93.3	73.2	74.5	79.6	81.5	71.8	71.0	71.8	79.7	61.7	59.4	61.8
December.....	90.3	78.4	81.8	85.6	91.2	73.2	74.4	78.3	79.9	71.4	70.8	71.0	77.8	61.9	59.6	62.3
Average.....	95.6	83.0	78.8	83.8	96.7	79.8	72.0	77.9	84.7	75.5	70.0	72.1	83.4	68.0	58.9	62.2
Month	Wholesale Trade								Total 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.....	88.9	80.7	73.6	80.6	86.3	71.8	58.3	60.3	92.3	80.3	72.1	79.8	88.1	71.9	54.7	59.0
February.....	87.6	79.7	72.4	81.2	87.1	70.1	55.1	61.0	89.3	78.3	70.4	79.6	86.4	69.1	51.8	58.8
March.....	86.7	78.6	71.3	81.8	87.7	68.8	53.5	62.0	89.2	78.6	68.9	81.5	86.8	68.5	49.0	59.8
April.....	86.7	77.6	71.5	82.1	85.7	66.3	52.4	63.1	91.3	78.7	73.3	82.5	87.5	67.7	52.0	61.2
May.....	86.3	76.6	72.2	82.8	83.2	67.1	53.8	62.6	90.8	77.2	72.1	82.9	86.8	65.5	51.3	61.5
June.....	86.3	75.6	73.9	82.5	83.5	63.7	53.7	62.8	90.7	76.3	73.2	82.6	86.7	62.7	52.2	61.4
July.....	85.9	75.2	75.1	82.2	81.6	61.9	55.5	63.8	84.2	73.1	71.0	79.0	81.3	59.2	51.0	60.1
August.....	85.6	74.9	77.9	82.5	80.3	60.3	57.2	62.7	81.2	71.8	75.4	77.8	77.9	56.9	49.4	58.4
September.....	85.1	75.6	80.3	83.5	79.5	60.1	58.7	63.6	83.3	74.2	80.6	81.7	78.3	58.3	58.7	60.6
October.....	84.2	76.2	81.7	84.3	77.9	60.8	62.4	64.5	85.2	76.3	83.3	82.6	78.9	59.7	61.6	61.9
November.....	83.1	76.0	81.6	85.1	77.6	60.1	60.5	64.2	84.8	75.4	83.9	83.7	78.3	58.6	61.4	61.8
December.....	82.6	75.4	81.5	85.0	75.6	59.3	60.9	64.8	90.6	80.9	89.1	90.9	80.4	60.4	64.0	66.0
Average.....	85.8	76.8	76.1	82.8	81.9	64.2	56.8	63.0	87.7	76.8	76.1	82.0	83.1	63.2	55.2	60.9
Month	General merchandising								Retail trade other than general merchandise							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	92.1	84.8	76.4	86.6	90.3	78.1	61.4	71.1	92.4	79.1	71.0	78.0	87.7	70.6	53.3	56.5
February.....	89.3	81.2	73.0	85.0	87.1	73.1	57.1	68.9	89.3	77.6	69.7	78.2	86.2	68.3	50.7	56.7
March.....	90.8	82.6	70.7	90.1	88.0	73.1	53.4	71.5	88.7	75.5	68.4	79.3	86.5	67.5	48.1	57.4
April.....	93.0	82.7	80.7	91.0	88.8	72.3	60.8	74.0	90.9	77.6	71.3	80.3	87.2	66.7	50.2	58.5
May.....	92.8	82.1	78.5	92.0	88.5	70.5	59.3	74.5	90.3	75.9	70.4	80.5	86.5	64.5	49.7	58.8
June.....	91.4	80.3	79.9	90.6	87.9	67.6	60.6	73.9	90.5	72.2	71.5	80.6	86.4	61.7	50.5	58.8
July.....	84.7	74.1	74.7	83.0	82.3	61.3	56.4	69.5	84.1	72.8	70.0	77.9	81.1	58.8	49.9	58.2
August.....	81.6	71.5	78.4	81.2	78.7	58.5	62.4	66.9	81.1	71.9	74.6	76.9	77.7	56.6	53.4	56.6
September.....	88.7	78.7	89.0	91.5	83.9	64.3	71.8	74.0	81.9	73.0	78.4	79.1	77.2	57.1	56.0	57.8
October.....	92.1	83.7	93.6	94.2	85.3	67.7	75.3	77.3	83.3	74.3	80.6	79.5	77.6	61.1	58.8	58.7
November.....	94.1	84.6	97.0	100.2	86.9	67.9	76.1	79.8	82.3	73.0	80.4	79.4	76.5	56.7	58.3	58.1
December.....	116.2	104.7	118.9	127.3	100.7	79.2	90.1	97.8	83.9	74.6	81.3	81.2	76.2	56.5	58.6	59.4
Average.....	92.2	82.6	84.2	92.7	87.4	69.5	65.4	74.9	86.7	75.2	74.0	79.2	82.2	61.9	53.1	58.0
Month	Hotels								Laundries							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	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	94.3	88.2	78.6	78.5	90.7	80.0	60.7	61.7
February.....	96.8	84.3	73.8	84.8	93.7	73.9	55.9	65.2	93.7	89.3	77.5	78.4	89.6	76.7	58.1	61.7
March.....	96.8	84.0	72.4	86.4	93.4	72.4	53.5	66.6	93.2	85.4	76.1	79.2	89.6	75.0	55.4	62.7
April.....	95.9	82.7	71.9	86.6	89.9	69.6	51.7	66.5	94.3	85.4	76.5	80.5	90.9	74.7	56.6	64.4
May.....	92.5	80.1	71.9	85.7	87.7	67.0	51.8	65.9	94.1	84.8	76.6	82.1	90.5	73.9	57.1	66.9
June.....	91.6	78.0	73.6	86.2	85.2	61.8	53.3	65.6	95.6	84.4	79.2	84.0	91.2	61.8	59.4	68.3
July.....	93.8	78.4	75.6	86.2	85.2	61.8	53.3	65.6	95.6	83.6	79.5	84.6	91.5	60.4	58.7	68.2
August.....	92.8	77.6	77.1	86.2	83.8	59.6	54.0	64.9	94.0	82.2	81.1	83.7	88.6	66.9	60.3	66.6
September.....	90.6	77.0	78.7	84.4	81.9	59.1	55.6	64.3	93.0	81.9	82.6	82.9	88.0	65.8	63.5	65.9
October.....	87.4	75.4	77.0	84.2	79.7	58.6	56.2	65.3	91.8	80.7	81.3	81.7	85.6	64.1	62.5	64.8
November.....	84.9	74.3	75.8	83.7	77.1	57.5	55.2	64.9	89.8	79.4	78.4	80.3	82.6	61.9	60.7	63.7
December.....	83.1	73.2	77.6	83.3	75.4	56.6	57.6	64.9	88.8	79.1	78.4	79.5	81.0	61.4	61.1	63.3
Average.....	91.7	79.0	74.9	84.9	85.4	64.5	54.4	65.1	93.1	83.5	78.8	81.3	88.3	70.1	59.5	64.9

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



Table 8.—Indexes of Employment and Pay Rolls for Nonmanufacturing Industries, January 1931 to December 1934—Continued

[12-month average, 1929=100]

Month	Dyeing and cleaning															
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934	1931	1932	1933	1934
January.....	82.1	75.8	67.4	68.1	73.7	62.4	44.2	46.8	-----	-----	-----	-----	-----	-----	-----	-----
February.....	80.7	74.4	65.6	68.1	71.2	59.0	40.2	46.3	-----	-----	-----	-----	-----	-----	-----	-----
March.....	81.3	74.4	65.8	72.4	71.7	58.5	38.9	51.7	-----	-----	-----	-----	-----	-----	-----	-----
April.....	88.4	76.9	74.9	79.9	81.9	62.5	51.7	60.8	-----	-----	-----	-----	-----	-----	-----	-----
May.....	89.3	78.0	75.7	84.3	82.1	63.8	51.0	65.1	-----	-----	-----	-----	-----	-----	-----	-----
June.....	91.4	78.6	79.1	84.9	84.5	62.4	53.7	64.1	-----	-----	-----	-----	-----	-----	-----	-----
July.....	91.1	76.1	76.6	80.5	81.8	56.9	50.0	58.9	-----	-----	-----	-----	-----	-----	-----	-----
August.....	86.4	73.4	76.8	78.6	75.9	53.4	50.0	56.7	-----	-----	-----	-----	-----	-----	-----	-----
September.....	88.0	76.9	81.9	80.0	78.3	57.9	57.1	59.0	-----	-----	-----	-----	-----	-----	-----	-----
October.....	87.0	76.0	81.6	80.3	77.2	55.8	57.4	59.1	-----	-----	-----	-----	-----	-----	-----	-----
November.....	83.2	72.0	76.1	75.8	70.8	49.6	52.5	53.9	-----	-----	-----	-----	-----	-----	-----	-----
December.....	78.4	69.5	70.5	72.4	64.4	45.9	47.3	51.1	-----	-----	-----	-----	-----	-----	-----	-----
Average.....	85.6	75.2	74.3	77.1	76.1	57.3	49.5	56.1	-----	-----	-----	-----	-----	-----	-----	-----

*Employment in Building Construction in December 1934*

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

	Percent
Total employment.....	-11. 6
Total pay rolls.....	-13. 1
Total man-hours worked.....	-14. 1
Average weekly earnings.....	-1. 7
Average hours per week per man.....	-3. 8
Average hourly earnings.....	+2. 6

The following table is based on returns made by 10,453 firms engaged in public and private building-construction projects not aided by Public Works Administration funds. These reports include all trades, from excavation through painting and interior decoration, which are engaged in erecting, altering, or repairing buildings. Work on roads, bridges, docks, etc., is omitted. The reports cover building operations in various localities in 34 States and the District of Columbia.

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

In December the weekly pay roll for 74,129 workers amounted to \$1,713,453 as compared with \$1,972,715 earned by 83,862 workers employed by the identical firms in November.

In December the average weekly earnings were \$23.11 as compared with \$23.52 for November. 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 10,054 firms—96.2 percent of the 10,453 cooperating firms—gave the man-hours worked by the employees, namely, 1,959,-360 in December as compared with 2,280,512 in November.

The average hours per week per man—27.8 in December and 28.9 in November—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—83.5 cents in December and 81.4 cents in November—were computed by dividing the pay roll of those firms which reported man-hours by the number of man-hours.

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

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

Locality	Number of firms reporting	Employment		Pay rolls		Average weekly earnings		Average hours per week per man <sup>1</sup>		Average hourly earnings <sup>1</sup>	
		Number December 1934	Percentage change from November 1934	Amount December 1934	Percentage change from November 1934	Amount December 1934	Percentage change from November 1934	Number December 1934	Percentage change from November 1934	December 1934	Percentage change from November 1934
<b>All localities</b> .....	10,453	74,129	-11.6	<i>Dollars</i> 1,713,453	-13.1	<i>Dollars</i> 23.11	-1.7	27.8	-3.8	<i>Cents</i> 83.5	+2.6
<b>Alabama: Birmingham</b> .....	86	517	-6.2	8,423	-14.5	16.29	-8.9	26.3	-7.7	62.5	-1.0
<b>California:</b>											
Los Angeles.....	18	885	-12.5	18,868	-14.1	21.32	-1.9	29.8	-12.9	71.6	+12.6
San Francisco-Oakland.....	26	650	+4.8	13,643	-5.5	20.99	-9.9	21.6	-22.3	97.2	+16.1
Other localities.....	19	198	+3.7	4,963	+26.4	25.07	+22.0	31.4	+14.2	79.9	+6.8
The State.....	63	1,733	-4.9	37,474	-7.1	21.62	-2.3	26.9	-14.1	80.4	+13.7
<b>Colorado: Denver</b> .....	205	687	+17.8	14,342	+23.5	20.88	+4.8	23.7	+6.8	87.8	-1.0
<b>Connecticut:</b>											
Bridgeport.....	109	480	-22.7	10,718	-29.7	22.33	-9.1	28.5	-8.7	78.5	-1.1
Hartford.....	261	1,033	-10.2	24,196	-8.3	23.42	+2.0	31.9	-3.0	72.8	+4.7
New Haven.....	151	757	-10.3	15,113	-30.2	19.96	-22.2	26.5	-21.4	76.0	-1.2
The State.....	521	2,270	-13.2	50,027	-21.0	22.04	-9.0	29.4	-10.4	74.8	+ .9
<b>Delaware: Wilmington</b> .....	101	851	-10.2	17,092	-22.9	20.08	-14.1	29.2	-11.8	68.8	-2.4
<b>District of Columbia</b> .....	361	3,699	-15.0	102,192	-16.4	27.63	-1.6	30.9	-3.7	90.8	+4.0
<b>Florida:</b>											
Jacksonville.....	47	233	-9.7	4,444	+3.7	19.07	+14.8	30.7	+8.9	62.1	+5.4
Miami.....	67	1,302	+4.8	28,893	+8.6	22.19	+3.6	31.9	+4.9	69.6	-1.3
The State.....	114	1,535	+2.3	33,337	+7.9	21.72	+5.5	31.7	+5.7	68.5	- .1
<b>Georgia: Atlanta</b> .....	134	855	-4.7	14,485	-5.8	16.94	-1.2	24.6	-9.6	68.9	+9.9
<b>Illinois:</b>											
Chicago.....	125	1,105	-42.4	26,827	-51.7	24.28	-16.1	(?)	(?)	(?)	(?)
Other localities.....	77	1,131	-26.4	21,660	-22.9	19.15	+4.8	(?)	(?)	(?)	(?)
The State.....	202	2,236	-35.5	48,487	-42.0	21.68	-10.4	(?)	(?)	(?)	(?)

See footnotes at end of table.

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

Locality	Number of firms reporting	Employment		Pay rolls		Average weekly earnings		Average hours per week per man		Average hourly earnings	
		Number December 1934	Percentage change from November 1934	Amount December 1934	Percentage change from November 1934	Amount December 1934	Percentage change from November 1934	Number December 1934	Percentage change from November 1934	December 1934	Percentage change from November 1934
<b>Indiana:</b>				<i>Dollars</i>		<i>Dollars</i>				<i>Cents</i>	
Evansville.....	61	335	-39.2	7,330	-36.8	21.88	+3.9	25.1	-10.4	87.0	+15.8
Fort Wayne.....	77	200	-25.4	3,758	-35.4	18.79	-13.5	24.4	-24.7	76.9	+14.9
Indianapolis.....	149	939	-21.7	20,282	-29.9	21.60	-10.4	27.6	-11.0	78.3	+6.6
South Bend.....	35	133	-30.7	2,515	-40.1	18.91	-13.6	26.0	-16.9	73.5	+4.9
<b>The State.....</b>	<b>322</b>	<b>1,607</b>	<b>-27.3</b>	<b>33,885</b>	<b>-33.0</b>	<b>21.09</b>	<b>-7.7</b>	<b>26.5</b>	<b>-13.1</b>	<b>79.5</b>	<b>+5.9</b>
<b>Iowa: Des Moines.....</b>	<b>87</b>	<b>370</b>	<b>-12.1</b>	<b>7,465</b>	<b>-21.3</b>	<b>20.18</b>	<b>-10.4</b>	<b>25.4</b>	<b>-4.9</b>	<b>80.3</b>	<b>-5.4</b>
Kansas: Wichita.....	57	227	-21.5	3,969	-22.0	17.48	-7.7	25.3	-5.2	69.3	+4.8
Kentucky: Louisville.....	137	758	-15.4	14,713	-13.3	19.41	+2.4	27.8	-4.8	71.7	+7.3
Louisiana: New Orleans.....	105	837	-15.1	15,199	-12.3	18.16	+3.3	28.3	(*)	64.1	+3.4
Maine: Portland.....	87	325	-7.4	6,815	-4.1	20.97	+3.6	27.6	-1.4	75.8	+4.8
Maryland: Baltimore.....	104	2,112	-8.0	40,400	-7.7	19.19	-4.9	29.9	-8.3	66.0	+4.9
Massachusetts: All localities.....	686	4,850	-10.2	120,326	-8.4	24.81	+2.0	29.4	-1.7	84.4	+3.6
<b>Michigan:</b>											
Detroit.....	470	3,537	-2.7	104,835	+14.3	29.64	+17.5	33.0	+6.1	90.0	+10.8
Flint.....	52	147	-7.5	2,838	-11.2	19.31	-3.9	27.5	-3.8	70.2	-3.3
Grand Rapids.....	102	264	-22.6	4,367	-24.9	16.50	-3.0	25.6	-7.9	64.4	+5.4
<b>The State.....</b>	<b>624</b>	<b>3,948</b>	<b>-4.5</b>	<b>112,030</b>	<b>+11.2</b>	<b>28.38</b>	<b>+16.5</b>	<b>32.3</b>	<b>+5.2</b>	<b>88.0</b>	<b>+11.0</b>
<b>Minnesota:</b>											
Duluth.....	45	115	-21.2	2,238	-26.5	19.46	-6.6	25.5	-11.1	74.0	+2.4
Minneapolis.....	211	1,007	-22.3	22,088	-20.5	21.93	+2.3	27.1	-1.8	80.5	+4.4
St. Paul.....	153	836	+7.2	19,969	+5.5	23.89	-6.2	30.9	-1.6	77.2	-4.9
<b>The State.....</b>	<b>409</b>	<b>1,958</b>	<b>-11.9</b>	<b>44,295</b>	<b>-12.6</b>	<b>22.62</b>	<b>-8.8</b>	<b>28.7</b>	<b>-1.0</b>	<b>78.6</b>	<b>+4.4</b>
<b>Missouri:</b>											
Kansas City 4.....	269	1,533	-9.8	32,397	-23.7	21.13	-15.4	22.6	-16.0	94.3	+2.2
St. Louis.....	570	2,540	-15.3	61,352	-21.8	24.17	7.7	23.8	-7.8	101.4	+2.2
<b>The State.....</b>	<b>839</b>	<b>4,073</b>	<b>-13.3</b>	<b>93,779</b>	<b>-22.5</b>	<b>23.02</b>	<b>-10.6</b>	<b>23.4</b>	<b>-10.7</b>	<b>98.9</b>	<b>+3.3</b>
<b>Nebraska: Omaha.....</b>	<b>160</b>	<b>648</b>	<b>-8.6</b>	<b>12,136</b>	<b>-15.7</b>	<b>18.73</b>	<b>-7.8</b>	<b>26.2</b>	<b>-6.8</b>	<b>71.7</b>	<b>-7.7</b>
<b>New York:</b>											
New York City.....	538	9,264	-5.7	273,280	-10.4	29.50	-5.0	26.8	-4.6	109.9	-5.5
Other localities.....	353	7,106	-17.6	160,803	-16.7	22.63	+1.0	27.1	-3.6	83.4	+4.6
<b>The State.....</b>	<b>891</b>	<b>16,369</b>	<b>-11.2</b>	<b>434,083</b>	<b>-12.8</b>	<b>26.58</b>	<b>-1.8</b>	<b>27.0</b>	<b>-3.9</b>	<b>98.3</b>	<b>+2.3</b>
<b>North Carolina: Charlotte</b>	<b>45</b>	<b>290</b>	<b>-11.3</b>	<b>5,270</b>	<b>-13.5</b>	<b>18.17</b>	<b>-2.5</b>	<b>28.6</b>	<b>-4.0</b>	<b>63.6</b>	<b>+1.6</b>
<b>Ohio:</b>											
Akron.....	86	271	-20.8	6,096	-17.9	22.49	+3.6	29.3	+2.1	76.8	+1.5
Cincinnati 5.....	421	1,554	-13.5	32,697	-17.9	21.04	-5.1	26.1	-4.7	80.9	-1.1
Cleveland.....	609	2,242	-19.9	54,777	-21.5	24.43	-2.0	25.1	-8.8	97.6	-7.7
Dayton.....	148	454	-19.6	9,423	-24.6	20.76	-6.1	25.7	-11.4	80.9	+6.2
Youngstown.....	89	372	-21.0	9,258	-18.5	24.89	+3.2	29.7	(*)	83.9	+3.3
<b>The State.....</b>	<b>1,353</b>	<b>4,893</b>	<b>-18.1</b>	<b>112,251</b>	<b>-20.3</b>	<b>22.94</b>	<b>-2.7</b>	<b>26.0</b>	<b>-3.0</b>	<b>88.2</b>	<b>+5.5</b>
<b>Oklahoma:</b>											
Oklahoma City.....	85	427	+47.2	7,393	+61.2	17.31	+9.5	25.0	+14.2	68.7	-3.6
Tulsa.....	51	268	-20.5	5,111	-17.2	19.07	+4.0	27.9	-4.4	69.7	+5.8
<b>The State.....</b>	<b>136</b>	<b>695</b>	<b>+10.8</b>	<b>12,504</b>	<b>+16.2</b>	<b>17.99</b>	<b>+4.8</b>	<b>26.2</b>	<b>+4.0</b>	<b>69.1</b>	<b>+1.6</b>
<b>Oregon: Portland.....</b>	<b>171</b>	<b>749</b>	<b>-6.1</b>	<b>14,191</b>	<b>-13.9</b>	<b>18.95</b>	<b>-8.2</b>	<b>23.0</b>	<b>-8.4</b>	<b>82.6</b>	<b>+1.1</b>

See footnotes at end of table.

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

Locality	Number of firms reporting		Employment		Pay rolls		Average weekly earnings		Average hours per week per man		Average hourly earnings	
			Number December 1934	Percentage change from November 1934	Amount December 1934	Percentage change from November 1934	Amount December 1934	Percentage change from November 1934	Number December 1934	Percentage change from November 1934	December 1934	Percentage change from November 1934
Pennsylvania: <sup>1</sup>					<i>Dollars</i>		<i>Dollars</i>				<i>Cents</i>	
Erie area.....	80	191	-14.3		2,220	-22.4	11.62	-9.4	12.0	-13.7	72.5	-1.0
Philadelphia area.....	233	2,136	-14.2		43,250	-15.0	20.25	-1.9	23.2	-1.4	70.6	- .8
Pittsburgh area.....	161	1,259	-7.4		56,543	+4.4	29.03	+12.7	30.0	+12.4	97.6	+ .6
Reading - Lebanon area.....	37	160	-13.5		2,813	-21.9	17.58	-9.8	22.2	-10.9	67.2	+1.4
Scranton area.....	23	103	-18.3		2,354	-11.3	22.86	+8.5	27.5	-6.6	83.0	+12.5
Other areas.....	216	1,538	-20.0		29,598	-24.1	18.04	-5.1	22.3	-7.6	62.9	+1.9
The State.....	740	5,437	-14.6		116,778	-12.8	21.48	+2.1	23.7	-1.4	75.2	+2.9
Rhode Island: Providence.....	247	1,394	-14.8		30,971	-16.2	22.22	-1.6	30.2	-8.5	74.4	+8.5
Tennessee:												
Chattanooga.....	33	128	-19.0		1,819	-33.5	14.21	-17.9	22.4	-20.8	62.3	+1.0
Knoxville.....	38	379	-4.5		6,206	+6.5	16.37	+11.5	24.3	-2.0	67.8	+15.7
Memphis.....	70	293	-12.5		4,813	-10.4	16.43	+2.5	25.6	+5.8	63.4	-3.4
Nashville.....	75	650	-20.1		11,138	-22.1	17.14	-2.5	27.8	-1.8	61.7	- .6
The State.....	216	1,450	-14.9		23,976	-15.1	16.54	- .2	26.0	-2.6	63.5	+2.6
Texas:												
Dallas.....	193	1,002	+26.8		15,578	+16.4	15.55	-8.2	25.7	-6.2	60.7	-2.4
El Paso.....	25	126	+11.5		2,316	+22.2	18.38	+9.5	26.8	+13.6	68.6	-3.7
Houston.....	187	1,048	-5.7		21,103	+2.5	20.14	+8.6	29.5	+6.5	68.6	+2.5
San Antonio.....	92	262	-12.4		4,001	-11.7	15.27	+ .8	27.8	+14.9	55.0	-12.3
The State.....	497	2,438	+5.4		42,998	+6.4	17.64	+1.0	27.6	+2.6	64.0	-1.5
Utah: Salt Lake City.....	74	196	-8.0		4,464	-13.9	22.78	-6.4	26.4	-7.7	83.5	- .4
Virginia:												
Norfolk-Portsmouth.....	72	358	-1.1		6,450	-6.7	18.02	-5.7	25.4	-10.6	70.9	+5.3
Richmond.....	114	884	+4.7		18,039	+2.1	20.41	-2.5	28.9	-6.8	70.5	+3.5
The State.....	186	1,242	+3.0		24,489	- .4	19.72	-3.3	27.9	-7.6	70.6	+4.0
Washington:												
Seattle.....	156	604	-2.6		12,856	-9.9	21.28	-7.5	22.9	-4.2	92.9	-3.5
Spokane.....	50	136	-20.9		3,437	-17.1	25.27	+4.8	26.5	-2.6	95.4	+7.8
Tacoma.....	82	195	-17.7		3,778	-13.5	19.37	+5.1	21.5	+7.0	90.0	-1.6
The State.....	288	935	-9.1		20,071	-11.9	21.47	-3.0	23.1	-2.1	92.8	-1.2
West Virginia: Wheeling.....	56	177	-16.9		3,520	-10.9	19.89	+7.3	28.8	+ .3	69.0	+6.8
Wisconsin: All localities.....	160	1,768	-1.4		37,016	+10.9	20.94	+3.0	31.2	-1.3	65.0	+8.7

<sup>1</sup> Averages computed from reports furnished by 10,054 firms.<sup>2</sup> Data not available.<sup>3</sup> No change.<sup>4</sup> Includes both Kansas City, Mo., and Kansas City, Kans.<sup>5</sup> Includes Covington and Newport, Ky.<sup>6</sup> Each separate area includes from 2 to 8 counties.

*Trend of Employment in December 1934 by States*

FLUCTUATIONS in employment and pay-roll totals in December 1934, as compared with November 1934, in certain industrial groups are shown by States in table 10. These tabulations have been prepared from data secured directly from reporting establishments and from information supplied by cooperating State agencies. The combined total of all groups does not include building-construction data, which are shown by city and State totals in the section, "Building construction". In addition to the combined total of all groups, the trend of employment and pay rolls in the manufacturing, public utility, hotel, wholesale trade, retail trade, bituminous-coal mining, crude-petroleum producing, quarrying and nonmetallic mining, metalliferous mining, laundry, dyeing and cleaning, and banks, brokerage, insurance, real-estate groups is presented. In this State compilation, the totals of the telephone and telegraph, power and light, and electric-railroad operations groups have been combined and are presented as one group—public utilities.

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

The anthracite-mining industry, which is confined entirely to the State of Pennsylvania, showed increases from November to December of 1.4 percent in employment and 2.2 percent in pay rolls. These percentages are based on reports received from 160 mines, which employed in December 85,461 workers whose earnings in 1 week ending nearest the 15th were \$2,117,587.

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

**Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 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 December 1934	Percentage change from November 1934	Amount of pay roll (1 week) December 1934	Percentage change from November 1934	Number of establishments	Number on pay roll December 1934	Percentage change from November 1934	Amount of pay roll (1 week) December 1934	Percentage change from November 1934
Alabama.....	1,337	70,198	+2.2	\$1,026,715	+4.5	249	46,422	+2.4	\$623,469	+4.7
Arizona.....	556	15,517	+4.1	294,187	+4.5	52	2,568	+6	46,949	+1.9
Arkansas.....	<i>1,764</i>	<i>26,287</i>	+1.1	<i>387,266</i>	+5	<i>340</i>	<i>17,343</i>	+1.2	<i>347,680</i>	+4
California.....	<i>1,737</i>	<i>244,416</i>	+1.7	<i>6,628,471</i>	+13.9	<i>960</i>	<i>122,105</i>	-2.4	<i>2,920,578</i>	+1.1
Colorado.....	1,401	47,742	-3	955,430	-4.7	189	15,514	-11.1	276,397	-22.1
Connecticut.....	2,422	185,180	+2.0	3,771,463	+4.5	736	145,226	+1.9	2,851,407	+5.5
Delaware.....	230	11,894	-6	248,188	+2	74	7,504	-2.3	145,017	-2.0
Dist. of Columbia.....	979	36,902	+8.0	830,416	+6.3	51	3,719	+1.7	126,168	+4.3
Florida.....	1,316	49,622	+4.8	793,439	+5.4	228	21,974	+1.4	310,333	+1.4
Georgia.....	1,693	98,574	+8	1,438,974	+1.9	388	71,462	-2	929,856	+1.3
Idaho.....	542	9,861	-10.4	187,468	-9.0	71	3,089	-27.8	59,727	-25.8
Illinois.....	<i>3,448</i>	<i>457,396</i>	+1.0	<i>10,009,104</i>	+2.4	<i>2,002</i>	<i>272,352</i>	-5.6	<i>5,691,786</i>	+1.6
Indiana.....	2,788	171,575	+3.6	3,501,277	+9.2	702	117,751	+3.1	2,410,275	+11.5
Iowa.....	1,902	62,266	+3.1	1,259,734	+5.5	422	29,950	+3.3	619,543	+8.7
Kansas.....	<i>1,811</i>	<i>55,646</i>	-1.8	<i>1,163,265</i>	-2.5	<i>406</i>	<i>28,338</i>	-6.7	<i>624,405</i>	-6.9
Kentucky.....	1,732	89,857	+6	1,573,959	-( <sup>1</sup> )	326	33,766	-1	587,030	+5.5
Louisiana.....	1,145	47,232	+3	781,952	-5	253	25,080	-2.1	350,763	-4.4
Maine.....	914	49,335	+2.7	899,128	+10.7	271	39,318	+3.3	689,102	+14.6
Maryland.....	<i>1,607</i>	<i>105,945</i>	+2.6	<i>2,089,085</i>	+2.1	<i>629</i>	<i>66,832</i>	-1.1	<i>1,227,711</i>	-6
Massachusetts.....	<i>8,841</i>	<i>438,743</i>	+3.4	<i>9,276,581</i>	+9.0	<i>1,575</i>	<i>232,932</i>	+3.6	<i>4,563,710</i>	+12.5
Michigan.....	3,586	362,182	+18.5	8,647,416	+27.7	<i>1,024</i>	<i>334,459</i>	+11.6	<i>7,866,562</i>	+22.2
Minnesota.....	2,321	89,327	+6	1,967,797	+1.6	420	35,437	-3.6	760,777	-8
Mississippi.....	661	18,631	-2.1	253,752	-2.9	116	11,354	-5.4	135,828	-6.8
Missouri.....	3,918	172,754	+1.2	3,563,155	+2.6	895	77,032	-1.3	1,497,790	+2.1
Montana.....	832	18,427	+3.4	438,618	+2.7	103	5,169	+1.6	106,133	-5.9
Nebraska.....	2,009	37,148	-2.7	767,333	-2.9	178	12,596	-14.0	277,018	-12.0
Nevada.....	271	3,548	+1	87,176	-6	31	963	+2.2	23,488	-1.1
New Hampshire.....	799	47,324	+4.1	865,724	+14.6	221	39,833	+4.3	700,895	+17.6
New Jersey.....	3,877	251,683	+4.5	5,617,994	+5.9	<i>712</i>	<i>202,452</i>	+4	<i>4,436,045</i>	+2.4
New Mexico.....	408	7,812	-3	145,703	+2.8	34	1,202	-4.5	20,748	+1
New York.....	20,770	799,111	+2.4	19,742,715	+3.3	<i>1,887</i>	<i>373,576</i>	+3	<i>8,826,417</i>	+3.4
North Carolina.....	1,379	140,892	+( <sup>2</sup> )	2,009,222	+3.8	606	128,616	-1	1,819,234	+4.1
North Dakota.....	612	6,654	-1.2	141,885	-3.9	50	782	-6.8	17,660	-11.3
Ohio.....	9,586	531,178	+3.7	11,302,454	+7.7	2,628	357,726	+2.1	7,646,654	+9.2
Oklahoma.....	1,666	42,510	+9	825,994	+1.2	170	11,173	-3.0	220,269	-3.6
Oregon.....	1,482	44,479	-4.1	916,311	-4.2	292	22,053	-9.3	407,186	-10.9
Pennsylvania.....	9,569	782,108	+2.0	15,996,715	+3.4	<i>2,146</i>	<i>418,805</i>	+1.1	<i>7,966,877</i>	+3.4
Rhode Island.....	1,306	91,383	+6.7	1,797,323	+11.9	440	69,130	+7.1	1,273,794	+15.6
South Carolina.....	748	64,389	+5	851,065	+6	225	56,341	-1	723,006	+1
South Dakota.....	485	8,742	-1.4	208,153	-2	35	2,087	-8.1	46,157	-4
Tennessee.....	1,490	86,942	+1.3	1,397,170	+2.8	342	58,031	-5	885,193	+2.0
Texas.....	<i>1,314</i>	<i>72,669</i>	+4	<i>1,689,847</i>	+( <sup>3</sup> )	<i>376</i>	<i>38,779</i>	-1.8	<i>840,845</i>	-2.9
Utah.....	667	19,149	-5	399,596	-2.5	117	5,745	-10.0	111,173	-7.8
Vermont.....	569	14,938	+1.5	277,658	+5.6	148	8,621	+( <sup>4</sup> )	154,661	+6.8
Virginia.....	2,072	92,020	+1.9	1,578,380	+2.7	459	57,352	+5	929,189	+2.1
Washington.....	3,295	91,010	-8	1,895,753	-3	539	42,100	-7.6	815,591	-4.1
West Virginia.....	1,384	148,582	+2	2,865,594	-2.9	278	54,379	+3.1	1,092,041	+7.9
Wisconsin.....	<i>1,025</i>	<i>153,662</i>	+5.0	<i>3,163,269</i>	+3.9	<i>759</i>	<i>125,692</i>	+2.0	<i>2,474,832</i>	+5.6
Wyoming.....	416	8,898	-2.6	223,678	+2.1	53	2,242	-6.3	56,270	-1.3

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

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

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

<sup>4</sup> Includes construction, municipal, agricultural, and office employment, amusement and recreation, professional, and transportation services.

<sup>5</sup> Less than 1/10 of 1 percent.

<sup>6</sup> Weighted percentage change.

<sup>7</sup> Includes laundries.

<sup>8</sup> Includes laundering and cleaning, but does not include food, canning, and preserving.

<sup>9</sup> Includes construction, but does not include hotels and restaurants, and public works.

\* See p. 37 (footnote a) revised data for total—all groups.

**Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 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 December 1934	Percentage change from November 1934	Amount of pay roll (1 week) December 1934	Percentage change from November 1934	Number of establishments	Number on pay roll December 1934	Percentage change from November 1934	Amount of pay roll (1 week) December 1934	Percentage change from November 1934
Alabama.....	121	2,428	-2.1	\$60,343	+4.0	722	7,307	+10.4	\$122,050	+7.7
Arizona.....	73	2,241	-4	28,823	+3.1	290	4,173	+10.7	73,039	+5.2
Arkansas.....	77	1,887	-4.9	34,032	-6	224	2,942	+2.8	44,565	+1.0
California.....	101	5,615	-3	156,985	+1.0	114	35,990	+26.1	695,755	+19.5
Colorado.....	156	3,536	-1	89,690	+3	632	11,914	+16.4	211,607	+10.2
Connecticut.....	224	7,684	-4.5	149,498	-2.8	1,150	17,133	+10.8	342,533	+6.3
Delaware.....	17	573	-9	12,698	-1.1	84	1,556	+8.8	29,513	+7.8
Dist. of Columbia.....	58	926	+1.8	27,685	+4.0	741	17,219	+19.1	334,062	+15.0
Florida.....	226	8,632	+2.3	131,989	+4.6	522	8,675	+15.4	149,933	+13.2
Georgia.....	116	1,656	-1.7	40,539	+2.9	845	11,241	+9.5	175,964	+7.4
Idaho.....	63	672	-11.9	13,753	-6.4	296	2,774	+5.6	47,581	+5.2
Illinois.....	374	13,261	+6	360,805	+1.7	1,337	70,468	+14.3	1,346,940	+12.4
Indiana.....	314	5,888	+1.2	139,518	+5	1,292	24,811	+12.3	452,748	+8.6
Iowa.....	186	3,378	-1.5	83,681	-1.6	691	13,198	+6.6	238,355	+3.7
Kansas.....	171	2,983	-1.9	67,100	-1.1	795	9,985	+9.9	176,118	+6.4
Kentucky.....	183	2,920	+17.9	55,091	+4.3	636	9,894	+10.1	170,080	+7.3
Louisiana.....	214	3,359	-2.0	78,832	+1.0	450	8,688	+8.8	138,899	+8.3
Maine.....	108	1,734	+2	41,292	+5	283	3,256	+11.7	60,227	+10.7
Maryland.....	223	3,465	+2.7	82,703	+8	589	18,838	+19.7	352,701	+16.5
Massachusetts.....	863	18,162	-7	481,571	+8	4,479	81,686	+13.2	1,558,946	+11.6
Michigan.....	317	6,338	-1.0	159,008	-7	1,675	42,535	+21.6	837,187	+17.8
Minnesota.....	336	9,536	+4.1	248,570	+3.4	1,086	21,177	+11.4	392,546	+9.1
Mississippi.....	74	1,235	-4.6	24,507	-2.4	225	2,837	+10.0	38,659	+6.7
Missouri.....	785	15,755	-4	393,902	+1.5	1,581	39,050	+9.9	756,902	+7.5
Montana.....	100	1,371	+1	32,404	+2.3	392	3,881	+5.3	81,540	+5.6
Nebraska.....	456	3,837	+5	100,589	+2.4	924	11,397	+13.2	188,451	+8.6
Nevada.....	52	302	-1.6	9,764	-1.0	114	992	+2.2	22,130	+3.3
New Hampshire.....	40	450	-1.7	11,829	-1.2	319	3,410	+9.3	62,749	+6.4
New Jersey.....	232	4,326	-6	124,567	+3	2,152	25,974	+19.8	550,194	+14.4
New Mexico.....	39	335	-1.5	6,941	+2.2	217	1,964	+6.0	35,378	+4.1
New York.....	3,359	59,702	+4	1,828,473	+5	12,869	189,476	+10.6	4,132,659	+6.9
North Carolina.....	61	899	+3.1	24,548	+3.3	521	6,163	+3.2	83,169	+1.4
North Dakota.....	124	592	-1.2	14,694	-1.4	180	2,523	+2.0	50,403	-5.7
Ohio.....	1,095	17,314	+7	448,524	+1.7	4,631	80,683	+18.5	1,441,194	+13.4
Oklahoma.....	181	2,764	-7	65,972	+2	807	11,336	+6.1	172,409	+5.3
Oregon.....	299	3,863	-3.7	105,987	-5	601	10,159	+6.5	189,591	+4.9
Pennsylvania.....	1,224	20,416	+1	560,476	-2	3,693	79,986	+14.9	1,523,491	+11.2
Rhode Island.....	98	1,852	+1.6	50,042	+4.1	605	11,365	+11.3	205,859	+7.6
South Carolina.....	66	849	+2	19,979	+2	329	4,263	+13.0	55,311	+7.3
South Dakota.....	56	562	-1.4	13,597	-4	197	2,105	+3.8	39,589	+2.9
Tennessee.....	227	3,473	-3	77,518	+2.1	538	11,726	+13.0	193,355	+10.4
Texas.....	200	4,393	+8	110,344	+1.7	324	11,717	+12.3	214,781	+9.5
Utah.....	79	1,025	+1.7	28,880	+2.0	306	3,927	+11.9	68,709	+4.8
Vermont.....	28	497	-1.2	11,260	-4	174	1,872	+4.3	34,706	+2.5
Virginia.....	221	4,580	+7.1	88,373	+1.5	996	13,379	+13.0	232,294	+9.8
Washington.....	777	10,139	-7.7	273,903	-3.2	1,586	21,979	+20.8	386,148	+10.3
West Virginia.....	119	1,942	+1.2	50,519	-3	327	4,893	+16.5	78,566	+7.8
Wisconsin.....	45	1,969	+1.8	45,728	+4.4	53	14,065	+22.6	188,039	+17.8
Wyoming.....	29	258	+4.5	7,110	+5.5	206	1,448	+2.4	29,545	+3.2

\* October and November data for New Jersey (Total—all groups, p. 36) revised as follows:

Month	Number of employees	Percentage change from previous month	Pay roll	Percentage change from previous month
October, 1934.....	264,436	-0.4	\$5,937,301	+1.9
November, 1934.....	206,060	-3.4	4,528,630	-3.3

Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 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 December 1934	Percentage change from November 1934	Amount of pay roll (1 week) December 1934	Percentage change from November 1934	Number of establishments	Number on pay roll December 1934	Percentage change from November 1934	Amount of pay roll (1 week) December 1934	Percentage change from November 1934
Alabama.....	15	424	-2.3	\$5,013	-5.8	9	775	-1.8	\$9,482	-19.6
Arizona.....	3	33	-15.4	361	-33.1	20	3,712	+4.0	86,222	+6.4
Arkansas.....	4	91	-9.0	869	-21.4					
California.....	38	952	-3.2	16,035	-11.7	34	2,643	-(5)	66,801	+5
Colorado.....	5	40	+100.0	578	+100.0	12	1,097	+6.9	28,826	+2.8
Connecticut.....	23	203	-42.2	3,329	-21.8					
Delaware.....										
Dist. of Columbia.....										
Florida.....	17	1,035	+6	12,809	+2.0					
Georgia.....	26	1,526	-3.8	15,754	-6.5					
Idaho.....						8	1,720	-7	37,546	+5
Illinois.....	24	514	-33.8	8,723	-33.8					
Indiana.....	94	1,260	-15.3	19,098	-17.4					
Iowa.....	26	345	-17.3	5,064	-31.2					
Kansas.....	29	1,100	-11.6	22,817	-5.9	15	1,249	+44.7	22,677	+66.6
Kentucky.....	42	1,162	-9.5	11,112	-17.2					
Louisiana.....	7	642	-8.9	7,863	-13.5					
Maine.....	11	257	-51.1	3,418	-66.1					
Maryland.....	8	147	-32.9	1,801	-48.1					
Massachusetts.....	18	355	-14.5	6,904	-19.9					
Michigan.....	48	1,028	-34.4	17,850	-33.5	40	4,553	-2.8	69,520	-3.8
Minnesota.....	26	205	-33.9	3,194	-40.1	32	1,446	-14.3	28,166	-8.4
Mississippi.....	10	147	+14.0	1,296	+3.8					
Missouri.....	59	1,249	-20.1	16,110	-28.7	13	1,834	-2.8	19,023	-2.4
Montana.....	8	83	+10.7	1,250	-8.3	16	3,481	+13.4	100,616	+14.1
Nebraska.....	10	231	-47.1	1,759	-67.4					
Nevada.....						15	587	-1.8	15,276	-2.9
New Hampshire.....	8	203	-19.8	6,027	+5.2					
New Jersey.....	34	645	-12.0	10,385	-8.9	3	18	-5.3	370	-9.5
New Mexico.....						5	959	-6.4	17,673	-8.4
New York.....	79	2,017	-12.0	35,612	-20.6					
North Carolina.....	11	225	-27.7	2,210	-40.0					
North Dakota.....										
Ohio.....	130	3,427	-15.3	47,887	-23.3					
Oklahoma.....	13	139	+7	1,608	+1.5	29	1,329	+28.0	21,188	+34.4
Oregon.....	5	63	-6.4	1,029	+1.4					
Pennsylvania.....	156	4,258	-18.4	57,678	-21.8	3	42	-2.3	1,139	+26.0
Rhode Island.....										
South Carolina.....	5	141	-23.0	1,493	-29.0					
South Dakota.....	6	44	-31.2	602	-45.0					
Tennessee.....	22	710	-6.4	8,260	-16.9	4	335	+1.5	6,613	-6.0
Texas.....	12	187	-57.5	2,588	-45.5					
Utah.....	7	93	-13.1	1,670	-22.3	13	2,223	+1.5	48,444	-3.3
Vermont.....	38	1,690	-6.9	28,231	-7.6					
Virginia.....	31	1,192	-9	12,639	-7.6					
Washington.....	13	205	-2.8	2,850	-3.1					
West Virginia.....	20	787	-10.1	9,881	-13.1					
Wisconsin.....	12	111	-37.6	1,515	-40.7	(10)	735	-4.8	16,459	+4.0
Wyoming.....										

<sup>8</sup> Less than 1/10 of 1 percent.<sup>10</sup> Not available.



Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1934, by States—Continued

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

State	Bituminous-coal mining					Crude-petroleum producing				
	Number of establishments	Number on pay roll December 1934	Percentage change from November 1934	Amount of pay roll (1 week) December 1934	Percentage change from November 1934	Number of establishments	Number on pay roll December 1934	Percentage change from November 1934	Amount of pay roll (1 week) December 1934	Percentage change from November 1934
Alabama	56	8,302	-1.3	\$129,151	+5.5					
Arizona						9	529	+9.1	\$12,382	+3.9
Arkansas						31	5,517	+1.8	183,483	+4.7
California										
Colorado	49	5,383	+1.4	110,117	+8.5					
Connecticut										
Delaware										
Dist. of Columbia										
Florida										
Georgia										
Idaho										
Illinois	30	9,275	+ .9	226,200	+21.8	10	210	-2.3	4,398	-2.5
Indiana	52	6,215	+2.5	142,709	+9.5	4	21	-8.7	321	-7.5
Iowa	18	1,504	+8.4	31,301	+33.9					
Kansas	20	1,897	+24.4	34,711	+8.3	23	1,489	-3.6	35,160	-2.6
Kentucky	148	30,398	-2.2	523,087	-7.8	5	254	+2.0	3,919	+5.3
Louisiana						9	306	+3.0	7,973	+2.7
Maine										
Maryland	14	1,463	+2.3	28,126	+20.2					
Massachusetts										
Michigan	3	886	+4.6	21,195	+13.3	3	84	+100.0	1,203	+34.6
Minnesota										
Mississippi										
Missouri	18	1,685	+ .1	29,162	+12.6					
Montana	11	1,058	+1.1	29,160	+7.7	5	36	+2.9	719	-28.3
Nebraska										
Nevada										
New Hampshire										
New Jersey										
New Mexico	14	1,870	+ .5	36,639	+11.7	6	207	-3.3	5,436	+1.7
New York						6	271	-3.2	5,826	+ .3
North Carolina										
North Dakota	7	587	-6.8	12,630	-6.5					
Ohio	68	13,270	+1.3	261,122	+ .7	9	220	+4.3	4,105	- .9
Oklahoma	17	796	+ .4	16,157	+28.6	71	5,465	-2.7	131,669	-1.7
Oregon										
Pennsylvania	444	77,930	+1.2	1,376,705	- .2	20	777	+1.4	18,456	+ .4
Rhode Island										
South Carolina										
South Dakota										
Tennessee	13	2,661	+1.5	39,140	+ .2					
Texas	6	367	+3.4	6,652	+5.4	14	7,675	+ .8	264,359	+4.0
Utah	16	2,535	+4.7	65,737	-3.8					
Vermont										
Virginia	23	4,590	+1.1	81,856	+3.3					
Washington	11	1,019	+ .5	26,922	+15.6					
West Virginia	394	76,510	-2.2	1,407,742	-10.7	11	662	+19.3	12,853	+4.3
Wisconsin										
Wyoming	32	3,810	-1.2	104,224	+5.6	9	196	-28.7	5,694	-22.3

Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 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 December 1934	Percentage change from November 1934	Amount of pay roll (1 week) December 1934	Percentage change from November 1934	Number of establishments	Number on pay roll December 1934	Percentage change from November 1934	Amount of pay roll (1 week) December 1934	Percentage change from November 1934
Alabama.....	89	1,887	+0.5	\$40,857	+3.0	21	1,142	-4.8	\$9,903	-4.9
Arizona.....	69	1,568	-2.3	38,742	+1.0	20	678	+11.0	10,141	+13.6
Arkansas.....	<i>25</i>	<i>1,268</i>	+2.8	<i>30,020</i>	+5.7	<i>31</i>	<i>973</i>	+3.5	<i>8,484</i>	-7
California.....	44	41,733	-7	1,219,464	+4.0	175	2,438	+0	151,871	+1.6
Colorado.....	212	5,852	-7	149,692	+6	51	1,310	-1.4	17,821	-3
Connecticut.....	133	9,851	-5	307,259	-3	30	1,306	-3.8	17,550	-2.1
Delaware.....	29	1,118	-1.3	32,680	+4.8	4	268	-1.1	3,694	-1
Dist. of Columbia.....	21	6,658	-1.0	182,144	-1	47	4,286	+ <sup>(5)</sup>	67,388	-4
Florida.....	185	5,219	+3.8	127,809	+5.6	78	1,925	+20.5	19,701	+26.3
Georgia.....	186	7,410	+1.1	195,363	+1.0	36	1,468	+1.2	12,319	+2.1
Idaho.....	57	803	+8	16,396	+2.8	19	413	-1.9	4,945	+3
Illinois.....	<i>83</i>	<i>70,405</i>	-1.8	<i>2,015,074</i>	-8	<i>11 275</i>	<i>14,222</i>	-2.0	<i>216,079</i>	-1.3
Indiana.....	124	8,875	-5	224,520	+7	64	2,808	-4.2	30,032	-3.2
Iowa.....	448	9,152	+1.4	209,594	+1.4	56	2,482	+1.3	23,525	+6
Kansas.....	<i>12 168</i>	<i>6,517</i>	-2.2	<i>153,226</i>	-1.6	<i>31</i>	<i>733</i>	-8	<i>8,030</i>	-1.0
Kentucky.....	284	6,655	+7	149,023	+6	33	1,866	-7	19,481	+3.9
Louisiana.....	152	5,931	+1.1	143,954	+1.1	20	2,079	+8	23,052	-1.3
Maine.....	169	2,930	+7	78,806	-1	17	611	-1.3	7,791	-2.1
Maryland.....	<i>93</i>	<i>12,654</i>	-1.2	<i>358,326</i>	-3.4	<i>20</i>	<i>742</i>	+1.8	<i>9,131</i>	+5
Massachusetts.....	<i>12 127</i>	<i>45,993</i>	+ <sup>(5)</sup>	<i>1,334,797</i>	+2.6	<i>67</i>	<i>6,059</i>	-4	<i>87,291</i>	-9
Michigan.....	408	28,951	-1.0	870,575	+2.5	91	5,682	+5.0	68,351	+2
Minnesota.....	236	12,661	-8	339,636	+1.1	69	3,080	-3.0	37,646	-3.0
Mississippi.....	144	1,089	+1	22,307	+2.3	16	473	+2	3,774	+3
Missouri.....	288	20,970	+1	567,726	+1.0	90	5,132	-7	62,478	-7
Montana.....	113	2,158	-4.6	65,163	-1.5	35	544	-2.0	7,658	+1.0
Nebraska.....	358	5,765	-7	146,285	+1.2	36	1,624	+3	18,026	+1.9
Nevada.....	38	400	-2.9	11,567	-3.0	14	240	-4.0	3,485	-2.6
New Hampshire.....	141	2,349	-8	64,808	+1.8	10	260	+8	3,086	+2.2
New Jersey.....	266	20,966	-6	622,861	+1.4	73	3,941	-9	50,555	-2.1
New Mexico.....	54	631	-1.7	13,078	+1.0	14	314	-9	3,224	-8
New York.....	882	123,836	-2	4,015,023	+9	207	29,407	-6	474,852	+6
North Carolina.....	93	1,937	+1.8	41,427	+1.4	37	1,695	+2.0	14,360	+8
North Dakota.....	182	1,340	-1.6	32,517	+1.6	16	273	-7	2,927	+2.6
Ohio.....	437	35,295	-1.5	961,978	+1	129	9,186	-9	118,976	-1.9
Oklahoma.....	269	6,490	-7	151,745	+1.8	44	1,419	+5	15,727	-3
Oregon.....	183	5,652	-1.5	157,833	+3	62	1,376	+1	18,089	+1.7
Pennsylvania.....	<i>651</i>	<i>44,927</i>	+8	<i>1,320,487</i>	+2	<i>150</i>	<i>9,921</i>	-5	<i>136,159</i>	+1.6
Rhode Island.....	47	5,540	+1	166,764	+8	10	356	-1.7	5,033	-1.8
South Carolina.....	77	1,811	-3.6	39,215	+2.4	15	343	+3.6	3,099	+2.5
South Dakota.....	130	1,058	-2	25,962	+2.5	20	341	+ <sup>(3)</sup>	4,044	+2
Tennessee.....	247	5,049	+1.4	113,947	+2.8	37	2,481	-4	21,386	+1
Texas.....	<i>359</i>	<i>7,843</i>	-1.6	<i>211,018</i>	-1.0	<i>30</i>	<i>2,025</i>	-3.7	<i>25,912</i>	-2.8
Utah.....	70	1,714	-1.8	36,084	+ <sup>(5)</sup>	14	511	+1.4	6,414	-4
Vermont.....	126	1,471	+24.7	35,750	+23.4	14	325	-5.5	3,171	-7.0
Virginia.....	177	5,825	-1.5	142,831	+1.1	35	1,836	-13.2	19,448	-13.2
Washington.....	199	10,055	-2.4	286,570	-6	87	2,637	-3	32,101	+8
West Virginia.....	120	6,684	-5.8	171,029	-4	37	1,232	-1.5	13,649	+9
Wisconsin.....	<i>14 41</i>	<i>10,940</i>	+1	<i>331,910</i>	+1.0	<i>42</i>	<i>1,991</i>	-1.4	<i>(10)</i>	-----
Wyoming.....	49	502	+4	11,835	+1.5	12	98	-3.0	1,332	-1.8

<sup>5</sup> Less than 1/10 of 1 percent.<sup>10</sup> Not available.<sup>11</sup> Includes restaurants.<sup>12</sup> Includes steam railways.<sup>13</sup> No change.<sup>14</sup> Includes railways and express

**Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 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 December 1934	Percentage change November 1934	Amount of pay roll December 1934	Percentage change November 1934	Number of establishments	Number on December 1934	Percentage change November 1934	Amount of pay roll December 1934	Percentage change November 1934
Alabama.....	17	836	-3.2	\$8,306	+0.8	5	87	+2.4	\$1,163	-4.0
Arizona.....	10	273	+7	3,672	+2.8					
Arkansas.....	<i>16</i>	<i>516</i>	<i>+2.4</i>	<i>5,267</i>	<i>-.4</i>	3	26	-7.1	387	-5.8
California.....	<i>15 64</i>	<i>4,722</i>	<i>-.5</i>	<i>88,541</i>	<i>+3</i>					
Colorado.....	33	1,483	-3	20,182	+8	15	216	-9	4,006	-2.8
Connecticut.....	38	1,521	-1.4	24,320	-1.8	14	282	-8.1	5,666	-10.0
Delaware.....	4	300	-1.0	5,185	-.4					
Dist. of Columbia.....	20	2,666	-.9	42,037	-.7	4	98	-8.4	1,863	-4.4
Florida.....	24	1,209	+7.1	12,998	+11.3	10	95	+8.0	1,335	+7.1
Georgia.....	21	2,116	-.2	23,565	+5	8	295	-6.3	4,245	-6.4
Idaho.....	11	238	+3.5	3,814	+5.0					
Illinois.....	<i>15 69</i>	<i>8,273</i>	<i>-2.8</i>	<i>54,965</i>	<i>-2.1</i>					
Indiana.....	44	1,934	-3	26,700	+1.5	40	633	-5.8	9,983	-8.2
Iowa.....	29	1,120	-1.4	14,870	-1.0	9	178	-4.3	3,017	-7.0
Kansas.....	<i>15 39</i>	<i>911</i>	<i>-1.1</i>	<i>12,047</i>	<i>-1.1</i>					
Kentucky.....	40	1,834	+2	23,197	+1.2	10	361	-2.7	5,000	-2.2
Louisiana.....	7	458	(13)	4,666	-4.0	6	102	-5.6	1,351	-6.8
Maine.....	28	592	-1.5	8,205	-.4	6	151	-5.0	2,643	+2.1
Maryland.....	<i>22</i>	<i>1,706</i>	<i>-1.3</i>	<i>26,089</i>	<i>+1.9</i>	<i>9</i>	<i>148</i>	<i>-4.5</i>	<i>2,498</i>	<i>-6.3</i>
Massachusetts.....	<i>128</i>	<i>5,270</i>	<i>+7</i>	<i>85,604</i>	<i>+9</i>	<i>79</i>	<i>1,958</i>	<i>-6.1</i>	<i>34,053</i>	<i>-6.1</i>
Michigan.....	65	3,081	-9.6	44,763	-10.7	32	902	-4.8	17,383	-5.9
Minnesota.....	38	1,559	-1.2	24,724	-.2	20	518	-6.5	8,930	-5.9
Mississippi.....	7	308	-1.0	3,407	+1.9	6	61	-3.2	884	-6.0
Missouri.....	52	3,002	+4	37,863	-3.0	24	1,020	-2.9	16,396	-2.2
Montana.....	15	349	-9	5,968	+2.2	7	47	(13)	937	-3.2
Nebraska.....	17	984	-6.9	13,572	-7.8	11	145	-3.3	2,418	-1.9
Nevada.....	3	47	+2.2	910	+1.7					
New Hampshire.....	20	324	(13)	4,661	-.4	3	42	-6.7	723	+3.3
New Jersey.....	42	4,760	-1.3	76,520	-2.6	12	310	-3.7	6,648	-1.8
New Mexico.....	4	197	+5	3,164	+2					
New York.....	75	7,258	-.2	127,734	-.5	19	513	-4.6	9,543	-4.8
North Carolina.....	11	623	+8	6,677	+1	10	150	+7	1,828	-6.3
North Dakota.....	12	259	-1.1	3,995	-.9					
Ohio.....	80	3,973	-2	63,553	+1.3	78	1,916	-5.5	34,508	-6.9
Oklahoma.....	20	895	-8	11,183	+2	14	186	-10.1	2,460	-5.7
Oregon.....	13	416	(13)	6,807	+2.3	6	52	-1.9	1,064	-.3
Pennsylvania.....	38	2,734	+2	42,149	+1	48	1,651	-5.1	28,082	-5.1
Rhode Island.....	21	1,087	-.4	18,115	-1.2	6	255	-6.3	4,786	-2.3
South Carolina.....	10	438	-1.4	4,033	+1.5	9	77	+1.3	1,051	-.8
South Dakota.....	7	146	-2.0	1,902	+8	3	38	-2.6	694	-3.9
Tennessee.....	13	1,216	-.9	12,311	+6	11	162	-2.4	2,038	-8.4
Texas.....	36	1,838	-3.9	21,229	-10.9	19	475	-7.0	7,400	-11.4
Utah.....	11	647	+1.6	9,568	+2.7	10	133	-4.3	2,414	-3.2
Vermont.....	7	164	-1.2	2,077	+5	6	74	-2.6	1,109	+3
Virginia.....	26	1,293	-.7	15,836	+1.0	34	423	-1.9	6,308	-4.5
Washington.....	17	711	-2.5	12,582	-.4	14	195	-1.5	3,332	-1.3
West Virginia.....	17	622	+3	8,552	-1.5	13	286	-1.0	4,017	-1.3
Wisconsin.....	<i>15 28</i>	<i>906</i>	<i>-3.2</i>	<i>12,413</i>	<i>-3.8</i>					
Wyoming.....	8	155	-3.1	2,601	+4	3	20	(13)	424	-3.0

<sup>13</sup> No change.

<sup>14</sup> Includes dyeing and cleaning.

**Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1934, by States—Continued**

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

State	Banks, brokerage, insurance, and real estate				
	Number of establishments	Number on pay roll December 1934	Percentage change from November 1934	Amount of pay roll (1 week) December 1934	Percentage change from November 1934
Alabama.....	33	588	-0.3	\$16,978	+0.3
Arizona.....	17	263	+12.9	6,103	+13.0
Arkansas.....	20	244	( <sup>13</sup> )	6,009	-( <sup>9</sup> )
California.....	1,162	22,398	-1.1	732,765	-2.0
Colorado.....	46	1,369	+1.1	45,708	+1.5
Connecticut.....	74	1,974	+2.2	69,901	+4.4
Delaware.....	14	479	+6	17,289	-1.0
District of Columbia.....	37	1,330	+2.2	49,069	+8.8
Florida.....	26	858	+7.7	26,532	+1.5
Georgia.....	67	1,400	+1.7	41,369	+1.5
Idaho.....	15	136	-1.4	3,409	-5.5
Illinois.....	108	11,455	-5.5	401,303	-5.5
Indiana.....	58	1,379	-2.2	45,373	-7.7
Iowa.....	17	959	-4.4	30,754	+2.2
Kansas.....	<sup>16</sup> 49	970	+6.6	31,370	+5.5
Kentucky.....	25	747	-1.1	26,939	-1.6
Louisiana.....	27	587	( <sup>13</sup> )	24,599	+3.4
Maine.....	21	286	-3.3	7,644	-8.8
Maryland.....	37	1,182	-1.7	41,629	-4.4
Massachusetts.....	<sup>16</sup> 227	7,733	+3.3	226,425	+1.4
Michigan.....	196	7,033	+3.5	216,662	+1.4
Minnesota.....	58	4,208	-2.3	123,508	-4.4
Mississippi.....	16	192	-2.0	4,313	-8.8
Missouri.....	163	6,025	+1.1	165,803	-1.1
Montana.....	27	250	+1.6	7,070	+1.1
Nebraska.....	19	569	-4.4	19,215	+2.2
Nevada.....	3	13	( <sup>13</sup> )	456	+2.9
New Hampshire.....	37	453	-2.2	10,946	-3.3
New Jersey.....	153	13,464	+5.5	394,235	+2.9
New Mexico.....	19	128	+8.8	3,381	+4.4
New York.....	902	63,603	+( <sup>9</sup> )	2,066,341	+9.9
North Carolina.....	29	584	-8.8	15,769	-4.4
North Dakota.....	38	272	-4.4	6,579	-3.3
Ohio.....	301	8,168	-2.2	273,953	+1.6
Oklahoma.....	31	518	+6.6	15,607	-5.5
Oregon.....	18	803	+5.5	27,586	+9.9
Pennsylvania.....	<sup>16</sup> 526	16,713	-3.3	531,385	+4.4
Rhode Island.....	77	1,773	( <sup>13</sup> )	72,644	+2.9
South Carolina.....	12	126	-8.8	3,908	+7.7
South Dakota.....	30	246	+4.4	6,078	-3.3
Tennessee.....	36	1,098	( <sup>13</sup> )	37,409	+3.3
Texas.....	49	1,758	+7.7	48,645	+1.3
Utah.....	23	590	-2.2	20,207	+2.2
Vermont.....	28	224	-4.4	6,693	-1.1
Virginia.....	70	1,590	+1.1	49,606	+4.4
Washington.....	50	1,956	+8.8	55,532	+3.3
West Virginia.....	48	585	+3.3	16,745	-1.8
Wisconsin.....	42	1,123	-4.4	38,097	-6.6
Wyoming.....	13	119	+1.7	3,602	+5.5

<sup>9</sup> Less than 1/10 of 1 percent.

<sup>13</sup> No change.

<sup>16</sup> Does not include brokerage and real estate.

<sup>17</sup> October and November data revised as follows:

Month	Number of employees	Percentage change from previous month	Pay roll	Percentage change from previous month
October 1934.....	13,380	-0.2	\$381,413	+0.2
November 1934.....	13,327	( <sup>13</sup> )	381,197	+4.4

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

FLUCTUATIONS in employment and pay-roll totals in December 1934 as compared with November 1934 in 13 cities of the United States having a population of 500,000 or over are presented in table 11. These changes are computed from reports received from identical establishments in each of the months considered.

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

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

Cities	Number of establish- ments reporting in both months	Number on pay roll		Per- centage change from Sep- tember 1934	Amount of pay roll (1 week)		Percentage change from September 1934
		November 1934	December 1934		November 1934	December 1934	
New York City.....	15,910	584,650	602,756	+3.1	\$14,980,583	\$15,506,651	+3.5
Chicago, Ill.....	3,992	355,958	357,751	+ .5	8,359,182	8,486,398	+1.5
Philadelphia, Pa.....	2,802	200,892	208,333	+3.7	4,487,445	4,723,576	+5.3
Detroit, Mich.....	1,565	192,516	244,494	+27.0	4,493,265	6,167,123	+37.3
Los Angeles, Calif.....	2,311	108,526	112,632	+3.8	2,459,965	2,589,942	+5.3
Cleveland, Ohio.....	2,175	122,207	128,366	+5.0	2,679,328	2,894,663	+8.0
St. Louis, Mo.....	2,076	117,286	118,719	+1.2	2,388,823	2,451,015	+2.6
Baltimore, Md.....	1,425	80,440	82,964	+3.1	1,602,365	1,672,076	+4.4
Boston, Mass.....	3,647	157,335	160,759	+2.2	3,508,666	3,651,220	+4.1
Pittsburgh, Pa.....	1,448	119,431	123,578	+3.5	2,486,654	2,620,946	+5.4
San Francisco, Calif.....	1,584	68,564	69,254	+1.0	1,682,983	1,697,857	+ .9
Buffalo, N. Y.....	1,041	59,459	60,638	+2.0	1,278,985	1,330,982	+4.1
Milwaukee, Wis.....	835	64,068	66,211	+3.3	1,418,106	1,467,006	+3.4

*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 for 966,819 on November 15, 1934, to 948,902 (preliminary) on December 15, 1934, or 1.9 percent. Data are not yet available concerning total compensation of employees for December 1934. The latest pay-roll information available shows a decrease from \$127,411,527 in October 1934 to \$117,962,289 in November 1934, or 7.4 percent.

The monthly trend of employment from January 1923 to November 1934 on class I railroads—that is, all roads having operating revenues of \$1,000,000 or over—is shown by index numbers published in table 12. These index numbers, constructed by the Interstate Commerce Commission, are based on the 3-year average, 1923–25, as 100, and cover all employees.

Table 12.—Indexes of Employment on Class I Steam Railroads in the United States, January 1923 to December 1934

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

Month	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
January.....	98.4	96.7	95.5	95.6	95.2	89.1	88.0	86.1	73.5	61.1	53.0	54.1
February.....	98.6	96.9	95.3	95.8	95.0	88.7	88.6	85.2	72.6	60.2	52.7	54.6
March.....	100.4	97.3	95.1	96.5	95.6	89.7	89.8	85.3	72.7	60.5	51.5	55.9
April.....	101.9	98.8	96.5	98.6	97.1	91.5	91.9	86.7	73.4	59.9	51.8	56.9
May.....	104.8	99.1	97.7	100.0	99.1	94.4	94.6	88.3	73.8	59.6	52.5	58.5
June.....	107.1	97.9	98.5	101.3	100.7	95.8	95.8	86.3	72.7	57.7	53.6	59.0
July.....	108.2	98.0	99.3	102.6	100.7	95.4	96.3	84.5	72.3	56.3	55.4	58.7
August.....	109.2	98.9	99.5	102.4	99.2	95.5	97.1	83.5	71.0	54.9	56.8	57.8
September.....	107.7	99.6	99.7	102.5	98.8	95.1	96.5	82.0	69.2	55.7	57.7	57.0
October.....	107.1	100.7	100.4	103.1	98.5	95.2	96.6	80.2	67.6	56.9	57.4	<sup>1</sup> 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	<sup>1</sup> 54.8
December.....	99.1	96.0	96.9	98.0	91.7	89.5	88.5	74.8	62.5	54.7	54.0	<sup>1</sup> 53.8
Average.....	104.0	98.2	97.8	99.8	97.3	92.7	93.1	83.3	70.6	57.8	54.4	56.5

<sup>1</sup> Preliminary.

Source: Interstate Commerce Commission.

*Employment and Pay Rolls in the Federal Service, December 1934*

THERE were 672,273 employees on the rolls of the executive departments of the United States Government on December 31, 1934. This is an increase of 63,603 employees as compared with December 1933 and a decrease of 3,169 employees as compared with November 1934.

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 employment in the legislative, judicial, and military branches of the United States Government is collected and compiled directly by the Bureau of Labor Statistics.

Table 13 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 departments work in the city of Washington.

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

Item	District of Columbia			Outside the District			Entire service		
	Perma- nent	Tem- porary	Total	Perma- nent	Tem- porary <sup>1</sup>	Total	Perma- nent	Tem- porary <sup>1</sup>	Total
Number of employees:									
December 1933.....	66, 894	8, 556	75, 450	468, 481	64, 739	533, 220	535, 375	73, 295	608, 670
November 1934.....	85, 689	8, 138	93, 827	502, 952	78, 663	581, 615	588, 641	86, 801	675, 442
December 1934.....	86, 451	7, 599	94, 050	502, 371	75, 852	578, 223	588, 822	83, 451	672, 273
Gain or loss:									
December 1933 to De- cember 1934.....	+19, 557	-957	+18, 600	+33, 890	+11, 113	+45, 003	+53, 447	+10, 156	+63, 603
November 1934 to De- cember 1934.....	+762	-539	+223	-581	-2, 811	-3, 392	+181	-3, 350	-3, 169
Percentage change:									
December 1933 to De- cember 1934.....	+29. 24	-11. 19	+24. 65	+7. 23	+17. 17	+8. 44	+9. 98	+13. 86	+10. 45
November 1934 to De- cember 1934.....	+0. 89	-6. 62	+0. 24	-0. 12	-3. 57	-0. 58	+0. 03	-3. 86	-0. 47
Labor turn-over, December 1934:									
Additions <sup>2</sup> .....	1, 959	943	2, 902	5, 712	13, 325	19, 037	7, 671	14, 268	21, 939
Separations <sup>2</sup> .....	1, 170	1, 427	2, 597	6, 401	15, 837	22, 238	7, 571	17, 264	24, 835
Turn-over rate per 100.....	1. 36	11. 98	2. 76	1. 14	17. 25	3. 28	1. 29	16. 76	3. 26

<sup>1</sup> Not including field employees of the Post Office Department or 29,291 employees hired under letters of authorization by the Department of Agriculture with a pay roll of \$1,124,311.

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

There was an increase of 18,600 or 24.7 percent in the number of Federal employees working in the District of Columbia comparing December 1934 with the corresponding month of the previous year. Comparing December with November there was an increase of less than one-fourth of 1 percent. The number of Federal workers employed outside of the District of Columbia increased 8.44 percent comparing December 1934 with December 1933 and decreased 0.58 percent comparing December 1934 with November.

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

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

Months	District of Co- lumbia	Outside District of Co- lumbia	Total	Months	District of Co- lumbia	Outside District of Co- lumbia	Total
January.....	78, 045	530, 094	608, 139	July.....	87, 978	583, 531	671, 509
February.....	79, 913	531, 839	611, 752	August.....	91, 065	585, 772	676, 837
March.....	81, 569	541, 990	623, 559	September.....	92, 557	589, 280	681, 837
April.....	83, 850	560, 258	644, 108	October.....	93, 327	590, 183	683, 505
May.....	85, 939	573, 147	659, 086	November.....	93, 827	581, 615	675, 442
June.....	87, 196	573, 898	661, 094	December.....	94, 050	578, 223	672, 273

During the year there has been an increase of 18,600 in the number of employees in the executive departments of the United States Government working in the city of Washington. The increase

amounted to 24.65 percent. The number of employees outside of the District of Columbia increased by 45,003 or 8.44 percent.

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

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

Branch of service	Number of employees		Amount of pay roll	
	December	November	December	November
All branches.....	950,982	954,529	\$123,212,155	<sup>1</sup> \$124,096,468
Executive service.....	672,273	675,442	100,736,351	<sup>1</sup> 100,787,487
Military service.....	272,200	272,572	20,971,678	21,786,447
Judicial service.....	1,861	1,885	446,130	451,653
Legislative service.....	4,648	<sup>1</sup> 4,630	1,057,996	<sup>1</sup> 1,070,881

<sup>1</sup> Revised.

Over the month period a small increase in the number of employees was registered in the legislative service, while slight decreases were shown in the executive, military, and judicial branches.

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

**Table 16.—Employment and Pay Roll for the United States Government, December 1933 to December 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.....	601,670	\$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	91,540,529	267,038	19,539,020	1,881	439,170	3,878	944,758
July.....	671,509	95,184,175	268,257	20,391,629	1,750	434,736	3,713	973,908
August.....	676,837	98,407,579	268,712	20,501,900	1,690	439,014	3,723	977,966
September.....	681,837	98,743,983	269,489	20,855,093	1,777	496,410	3,721	976,516
October.....	683,505	101,516,284	270,490	19,945,777	1,846	453,217	3,700	875,850
November.....	675,442	<sup>1</sup> 100,787,487	272,572	21,786,447	1,885	451,653	<sup>1</sup> 4,630	<sup>1</sup> 1,070,881
December.....	672,273	100,736,351	272,200	20,971,678	1,861	446,130	4,648	1,057,996
Total, 1934.....		1,107,456,537		239,106,836		5,316,975		11,576,509

<sup>1</sup> Revised.



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

DURING the month ending December 15, there were 382,594 employees working at the site of Public Works Administration construction projects. These men earned \$22,500,000 for their month's work. More than 35,000,000 man-hours of work were provided at the site of these construction projects. Hourly earnings averaged over 64 cents.

This employment was created on construction projects financed either wholly or in part from the Public Works Administration fund. Orders for construction material valued at nearly \$46,800,000 were placed during the month.

Employment on Construction Projects, by Type of Project

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

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

[Subject to revision]

Type of project	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
All projects.....	254,665	\$14,599,128	23,921,893	\$0.610	\$21,682,290
Building construction.....	16,829	1,097,248	1,351,738	.812	1,946,901
Public Roads <sup>1</sup> .....	132,668	4,802,612	9,680,942	.496	6,709,000
River, harbor, and flood control.....	43,181	2,938,669	4,471,634	.657	5,905,094
Streets and roads <sup>2</sup> .....	7,483	325,562	624,010	.522	287,464
Naval vessels.....	20,124	2,318,140	2,730,093	.849	2,332,738
Reclamation.....	18,204	1,804,814	2,996,092	.602	3,275,542
Forestry.....	1,626	150,436	179,141	.840	63,760
Water and sewerage.....	907	52,976	82,778	.640	80,838
Miscellaneous.....	13,643	1,108,671	1,805,465	.614	1,080,953

<sup>1</sup> Estimated by the Bureau of Public Roads.

<sup>2</sup> 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 work is performed either by commercial firms to which contracts have been awarded or by day labor hired directly by the Federal agencies.

There were 254,665 wage earners employed at the site of Public Works Administration construction projects during the month of December. This is a decrease of 72,000 as compared with November. The largest decrease occurred in road building. However, a

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

sizable falling off in employment also occurred in building construction; river, harbor, and flood-control work; and forestry projects. Workers on Federal construction projects had average earnings of 61 cents per hour. Road building was the only type of project on which the earnings were less than 50 cents per hour.

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

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

[Subject to revision]

Type of project	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
All projects.....	109,515	\$6,543,798	9,019,001	\$0.726	\$11,654,547
Building construction.....	40,583	2,611,059	2,924,335	.893	5,514,550
Streets and roads.....	16,279	701,928	1,106,796	.634	1,502,568
Water and sewerage.....	35,801	1,937,342	2,774,811	.698	4,267,543
Railroad construction.....	15,670	1,212,714	2,101,840	.577	184,350
Miscellaneous.....	1,182	80,755	111,219	.726	185,536

Non-Federal projects are financed from allotments made by the Public Works Administration to a State, political subdivision 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 is obtained as a loan from the Public Works Administration; in other cases, the loan is procured from outside sources. Where the Public Works Administration makes a loan it charges interest and specifies the time in which the loan must be repaid in full.

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

Data concerning employment created by railroad construction is shown in table 18. Employment in railroad car and locomotive shops is shown in table 21, page 50. Employment in commercial car and locomotive shops is shown in table 22, page 50.

There were nearly 110,000 people working at the site of non-Federal construction projects during the month of December. This is a de-

crease of 12,000 as compared with the previous month. A decrease of over \$1,000,000 was shown in disbursements for pay rolls comparing these 2 months.

### Employment on Construction Projects, by Geographic Divisions

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

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

[Subject to revision]

Geographic division	Wage earners		Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
	Number employed	Weekly average				
All divisions <sup>1</sup> .....	254, 665	243, 108	\$14, 599, 128	23, 921, 893	\$0. 610	<sup>2</sup> \$21, 682, 290
New England.....	14, 110	13, 764	1, 007, 925	1, 527, 997	. 660	680, 728
Middle Atlantic.....	28, 127	27, 197	1, 721, 801	2, 608, 908	. 660	1, 584, 027
East North Central.....	27, 046	25, 560	1, 497, 900	2, 150, 416	. 697	1, 158, 211
West North Central.....	43, 971	40, 609	1, 600, 100	2, 764, 517	. 579	1, 495, 326
South Atlantic.....	40, 884	39, 140	2, 578, 099	4, 094, 302	. 630	2, 357, 734
East South Central.....	32, 816	32, 228	1, 676, 139	3, 550, 835	. 472	1, 109, 579
West South Central.....	26, 591	25, 444	1, 061, 666	2, 228, 227	. 476	917, 673
Mountain.....	22, 298	21, 492	1, 901, 417	2, 897, 305	. 656	3, 541, 887
Pacific.....	13, 871	13, 220	1, 275, 589	1, 585, 754	. 804	1, 761, 055
Outside continental United States.....	4, 591	4, 094	244, 210	467, 357	. 523	359, 801

<sup>1</sup> Includes data for 360 wage earners which cannot be charged to any specific geographic division.

<sup>2</sup> Includes \$6,709,000, estimated value of material orders placed for public-road projects which cannot be charged to any specific geographic division.

Comparing December with November 1934 decreases in employment were shown in all nine geographic divisions. Average earnings per hour on Federal construction projects ranged from slightly more than 47 cents in the East South Central and the West South Central States to more than 80 cents in the Pacific States.

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

Hourly earnings on non-Federal projects averaged nearly 73 cents per hour in December compared with 70.5 cents in November. The East South Central States showed the lowest earnings per hour and the East North Central States the highest.

Table 21 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 December 1934, by geographic divisions.

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

[Subject to revision]

Geographic division	Wage earners		Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
	Number employed	Weekly average				
All divisions.....	109,515	91,650	\$6,543,798	9,019,001	\$0.726	\$11,654,547
New England.....	16,721	13,496	986,673	1,390,634	.710	1,632,704
Middle Atlantic.....	18,597	15,860	1,343,180	1,572,663	.854	2,542,757
East North Central.....	15,017	12,561	944,162	1,084,745	.870	1,824,923
West North Central.....	13,046	10,515	659,642	873,666	.755	1,705,922
South Atlantic.....	22,453	19,715	1,423,729	2,349,925	.606	1,095,794
East South Central.....	6,103	5,189	255,496	439,823	.581	449,396
West South Central.....	6,002	4,972	265,758	444,890	.597	592,874
Mountain.....	3,297	2,670	196,326	263,586	.745	339,407
Pacific.....	7,482	6,056	436,941	543,810	.803	1,398,822
Outside continental United States.....	797	616	31,891	55,259	.577	71,948

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

[Subject to revision]

Geographic division	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
All divisions.....	11,829	\$636,497	997,763	\$0.638	\$8,883,158
New England.....	484	50,695	76,054	.667	12,848
Middle Atlantic.....	3,047	152,142	229,906	.662	8,491,819
East North Central.....	1,620	108,874	172,877	.630	46,495
West North Central.....	1,251	64,895	102,369	.634	13,163
South Atlantic.....	587	55,139	91,643	.602	254,969
East South Central.....	186	4,747	7,869	.603	801
West South Central.....	1,505	69,862	112,821	.619	23,776
Mountain.....	577	18,928	29,757	.636	9,250
Pacific.....	2,572	111,215	174,467	.637	30,037

The program of car building in railroad repair shops which is financed from Public Works Administration funds is being rapidly completed. There are now less than 12,000 wage earners on this work compared with more than 15,000 in November and nearly 19,000 in October.

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

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

[Subject to revision]

Geographic division	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour
All divisions.....	6,585	\$712,269	1,083,207	\$0.658
New England.....	669	67,782	110,175	.615
Middle Atlantic.....	3,584	426,665	632,087	.675
East North Central.....	1,686	167,846	243,588	.689
West North Central.....	599	45,377	90,656	.501
South Atlantic.....	47	4,599	6,701	.686

Several new orders have been placed recently for the manufacture of streamline locomotives and cars in commercial railroad shops. While the old orders are being completed, there is a slight increase in employment comparing December with November.

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

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

[Subject to revision]

Type of material	Value of material orders placed—	
	From beginning of program to Nov. 15, 1934	During month ending Dec. 15, 1934
All material.....	\$625, 716, 999	\$46, 792, 081
Aircraft (new).....	4, 284, 880	47, 850
Airplane parts.....	4, 481, 533	31, 679
Aluminum manufactures.....	134, 456	15, 262
Ammunition and related products.....	662, 153	79, 511
Asbestos.....	57, 483	300
Awnings, tents, canvas, etc.....	162, 330	3, 625
Belting, miscellaneous.....	28, 162	110
Boat building, steel and wooden (small).....	1, 125, 139	22, 909
Bolts, nuts, washers, etc.....	1, 964, 442	105, 141
Carpets and rugs.....	42, 881	18
Carriages and wagons.....	28, 893	—
Cast-iron pipe and fittings.....	10, 055, 133	1, 464, 443
Cement.....	89, 729, 159	4, 086, 409
Chemicals.....	197, 162	7, 208
Clay products, including brick and hollow tile.....	7, 810, 503	912, 801
Coal.....	860, 959	165, 870
Compressed and liquefied gases.....	194, 058	7, 698
Concrete products.....	10, 366, 602	1, 440, 387
Copper products.....	429, 579	27, 312
Cordage and twine.....	204, 492	3, 842
Cork products.....	51, 033	12, 485
Cotton goods.....	71, 017	—
Creosote.....	469, 261	692
Crushed stone.....	24, 252, 506	1, 259, 331
Doors, shutters, and window sash and frames, molding and trim (metal).....	2, 472, 948	318, 217
Electrical machinery, apparatus, and supplies.....	25, 134, 445	7, 156, 860
Elevators and parts.....	176, 469	45, 531
Engines, turbines, tractors, water wheels, and windmills.....	4, 969, 394	770, 854
Explosives.....	2, 565, 631	137, 472
Felt goods.....	165, 077	91
Firearms.....	748, 990	3, 662
Forings, iron and steel.....	3, 180, 903	90, 605
Foundry and machine shop products, not elsewhere classified.....	67, 037, 626	3, 524, 829
Furniture, including store and office fixtures.....	906, 880	41, 448
Glass.....	399, 910	51, 066
Hardware, miscellaneous.....	2, 645, 664	244, 438
Instruments, professional and scientific.....	1, 433, 427	30, 849
Jute goods.....	44, 551	2, 016
Lighting equipment.....	1, 594, 061	332, 176
Lime.....	162, 369	2, 494
Linoleum.....	21, 568	6, 956
Locomotives, other than steam.....	4, 959, 622	5, 702, 211
Locomotives, steam.....	6, 837, 064	—
Lumber and timber products.....	30, 098, 836	1, 838, 589
Machine tools.....	3, 721, 648	165, 444
Marble, granite, slate, and other stone products.....	9, 400, 985	1, 087, 184
Mattresses and bed springs.....	15, 771	—
Meters (gas, water, etc.) and gas generators.....	195, 470	22, 350
Minerals and earths, ground or otherwise treated.....	97, 925	148
Motor vehicles, passenger.....	708, 264	—
Motor vehicles, trucks.....	8, 430, 611	7, 358
Nails and spikes.....	612, 506	31, 095
Nonferrous-metal alloys, nonferrous-metal products, except aluminum, not elsewhere classified.....	912, 950	14, 547
Paints and varnishes.....	1, 328, 285	85, 245

**Table 23.—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 Nov. 15, 1934	During month ending Dec. 15, 1934
Paper products.....	\$35, 981	\$4, 535
Paving materials and mixtures.....	10, 437, 866	538, 716
Petroleum products.....	18, 563, 981	1, 151, 140
Photographic apparatus and materials.....	152, 800	535
Planing mill products.....	3, 118, 241	341, 348
Plumbing supplies.....	5, 514, 623	481, 349
Pumps and pumping equipment.....	6, 894, 712	575, 474
Radio apparatus and supplies.....	586, 425	809
Rail fastenings, excluding spikes.....	4, 921, 483	14, 287
Rails, steel.....	17, 901, 986	49, 764
Railway cars, freight.....	34, 664, 151	728, 400
Railway cars, mail and express.....	429, 443	-----
Railway cars, passenger.....	7, 152, 435	-----
Refrigerators and refrigerator cabinets, including mechanical refrigerators.....	571, 569	2, 286
Roofing, built-up and roll; asphalt; shingles; roof coatings, other than paint.....	1, 672, 980	183, 726
Rubber goods.....	256, 210	15, 133
Sacks and bags.....	18, 171	1, 556
Sand and gravel.....	40, 330, 261	2, 181, 199
Sheet-metal work.....	1, 996, 709	50, 423
Smelting and refining lead.....	132, 922	4, 625
Smelting and refining zinc.....	18, 035	3, 086
Springs, steel.....	572, 063	2, 549
Steam and hot-water heating apparatus.....	3, 800, 864	603, 330
Steam and other packing, pipe and boiler covering, and gaskets.....	536, 599	19, 412
Steel-works and rolling-mill products, other than steel rails, including structural and ornamental metal work.....	87, 155, 324	6, 056, 218
Stoves and ranges (other than electric) and warm-air furnaces.....	171, 632	26, 417
Switches, railway.....	774, 631	-----
Theatrical scenery and stage equipment.....	31, 051	502
Tools, other than machine tools.....	3, 438, 326	148, 817
Upholstering materials, not elsewhere classified.....	99, 084	779
Wall plaster, wall board, insulating board, and floor composition.....	1, 303, 567	133, 310
Waste.....	23, 542	99
Window and door screens and weather strip.....	74, 307	203
Window shades and fixtures.....	49, 457	2, 593
Wire, drawn from purchased rods.....	2, 653, 874	103, 601
Wirework, not elsewhere classified.....	799, 131	72, 791
Wrought pipe, welded and heavy riveted.....	431, 902	26, 728
Other.....	28, 747, 051	1, 854, 393

Materials valued at over \$670,000,000 have been purchased by contractors working on Public Works Administration construction projects. Manufacturers of all types of material have profited by orders from this fund. For example, cement manufacturers received orders valued at over \$93,000,000. Foundries and machine shops have received material orders totaling \$70,000,000. Steel-mill orders amounted to over \$110,000,000. The fabrication of this material will create more than 2,000,000 man-months of labor.

Material valued at nearly \$47,000,000 was purchased during December. It is estimated that the fabrication of these materials will create 135,000 man-months of labor. This accounts only for labor in the fabrication of material in the form in which it is to be used. For example, only labor in manufacturing brick is 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 or from State governments or political subdivisions thereof, to be financed from the public-works fund, asking them to estimate the number of man-hours 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 Manufacture.

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

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

[Subject to revision]

Month	Number of wage earners	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
August 1933 to December 1934.....		\$341, 972, 433	596, 613, 306	\$0. 573	\$672, 509, 080
1933					
August.....	4, 699	280, 040	539, 454	. 519	202, 100
September.....	33, 836	1, 961, 496	3, 920, 009	. 500	1, 622, 365
October.....	121, 403	7, 325, 313	14, 636, 603	. 500	<sup>1</sup> 22, 513, 767
November.....	254, 784	14, 458, 364	27, 862, 280	. 519	24, 299, 055
December.....	270, 408	15, 424, 700	29, 866, 249	. 516	24, 850, 188
1934					
January.....	273, 583	14, 574, 960	27, 658, 591	. 527	23, 793, 459
February.....	285, 741	15, 245, 423	28, 938, 177	. 527	24, 565, 004
March.....	292, 696	15, 636, 545	29, 171, 634	. 536	<sup>2</sup> 69, 334, 408
April.....	371, 234	17, 007, 842	31, 559, 966	. 567	<sup>2</sup> 67, 150, 664
May.....	491, 166	25, 076, 908	44, 012, 412	. 558	<sup>2</sup> 49, 720, 378
June.....	592, 057	32, 783, 533	58, 335, 119	. 562	<sup>2</sup> 57, 589, 895
July.....	624, 286	33, 829, 858	59, 436, 314	. 569	<sup>2</sup> 51, 644, 174
August.....	602, 581	35, 142, 770	59, 043, 328	. 586	<sup>2</sup> 53, 282, 956
September.....	549, 910	31, 720, 317	51, 699, 495	. 614	<sup>2</sup> 50, 685, 634
October.....	507, 799	29, 280, 240	46, 617, 616	. 622	<sup>2</sup> 50, 234, 495
November.....	469, 874	28, 831, *32	46, 494, 195	. 620	<sup>2</sup> 54, 228, 457
December.....	382, 594	22, 491, 692	35, 021, 864	. 642	<sup>2</sup> 46, 792, 081

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

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

Nearly \$342,000,000 have been disbursed for pay rolls for work at the site of the construction projects since the beginning of the public-works program. Earnings over the 17-month period have averaged 57 cents.

### *Emergency-Work-Program*

THERE was an increase of nearly 170,000 workers on the emergency-work program of the Federal Emergency Relief Administration, comparing the last week in December with the last week in November.

There were more than 1,500,000 workers on the pay rolls during the week ending December 27. Pay rolls for this period amounted to over \$14,000,000.

Table 25 shows the number of employees and the amount of pay rolls for workers on the emergency-work program for the weeks ending November 29 and December 27.

**Table 25.—Employment and Pay Rolls on Emergency-Work Program**

Geographic division	Number of employees week ending—		Amount of pay rolls week ending—	
	Dec. 27	Nov. 29	Dec. 27	Nov. 29
All divisions.....	1,571,588	1,402,039	\$14,137,896	\$13,316,167
Percentage change.....	+12.09		+6.17	
New England.....	132,450	115,211	1,556,423	1,242,616
Middle Atlantic.....	270,455	249,585	3,831,601	3,579,279
East North Central.....	229,205	220,860	2,142,258	2,224,403
West North Central.....	292,643	204,697	2,150,347	1,715,493
South Atlantic.....	177,570	175,029	1,004,104	1,136,148
East South Central.....	93,329	83,022	427,559	421,472
West South Central.....	165,551	172,730	925,643	1,142,188
Mountain.....	59,308	50,913	602,303	535,642
Pacific.....	151,077	129,992	1,497,658	1,318,926

There were increases in the number of employees in 8 of the 9 geographic divisions, comparing the 2 weeks under discussion. In the West South Central States, however, there was a decrease of more than 7,000 employees.

Table 26 shows the number of employees and amount 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 December 1934, inclusive.

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

Month	Number of employees <sup>1</sup>	Amount of pay roll	Month	Number of employees <sup>1</sup>	Amount of pay rolls
March.....	22,934	\$842,000	August.....	<sup>2</sup> 1,922,029	<sup>2</sup> \$54,370,823
April.....	1,176,818	38,953,678	September.....	<sup>2</sup> 1,950,728	<sup>2</sup> 50,178,571
May.....	<sup>2</sup> 1,343,214	42,214,039	October.....	1,998,167	52,861,038
June.....	<sup>2</sup> 1,477,753	42,221,757	November.....	<sup>2</sup> 2,147,091	<sup>2</sup> 62,845,540
July.....	<sup>2</sup> 1,723,295	47,244,553	December.....	<sup>3</sup> 2,350,000	<sup>3</sup> 65,000,000

<sup>1</sup> Wage earners shown 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 roles.

<sup>2</sup> Revised.

<sup>3</sup> Preliminary.

More than 2,000,000 people were provided with work during December by the emergency-work program. This does not mean, however, that as many as 2,000,000 employees are working at any given time. Because of the fact that a limit is placed on the earnings of the employees, not more than 60 percent of this number are working during any given week.



### Emergency Conservation Work

BECAUSE of the close of the recruiting period, there was a decrease of more than 37,000 in the number of workers in Civilian Conservation Camps comparing December with November, 1934.

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

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

Group	Number of employees		Amount of pay rolls	
	December	November	December	November
All groups.....	350, 028	387, 329	\$15, 414, 634	\$16, 622, 110
Enrolled personnel.....	311, 793	348, 583	9, 737, 298	10, 886, 247
Reserve officers.....	6, 194	6, 191	1, 552, 889	1, 545, 883
Educational advisers.....	1, 271	1, 111	203, 172	178, 177
Supervisory and technical.....	<sup>2</sup> 30, 770	<sup>2</sup> 31, 444	<sup>2</sup> 3, 921, 275	<sup>2</sup> 4, 011, 803

Includes carpenters, electricians, and laborers.

<sup>2</sup> 28,496 employees and pay roll of \$3,685,425 included in the executive service table.

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

Pay rolls for the month of December amounted to over \$15,400,000.

In addition to their pay, enrolled workers received free board, clothing, and medical attention. The information concerning employment and pay rolls for emergency conservation work is collected by the Bureau of Labor Statistics from the War Department, Department of Agriculture, Treasury Department, and the Department of the Interior. The pay of the enrolled 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 28 shows monthly totals of employees and pay rolls in emergency conservation work from the inception of the program in May 1933 to December 1934, inclusive.

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

Month	Number of employees	Amount of pay roll	Month	Number of employees	Amount of pay roll
1933			1934—Continued		
May.....	191, 380	\$6, 388, 760	March.....	247, 591	\$10, 792, 319
June.....	283, 481	9, 876, 780	April.....	314, 664	13, 214, 018
July.....	316, 109	11, 482, 262	May.....	335, 871	14, 047, 512
August.....	307, 100	11, 604, 401	June.....	280, 271	12, 641, 401
September.....	242, 968	9, 759, 628	July.....	389, 104	16, 032, 734
October.....	294, 861	12, 311, 033	August.....	385, 340	16, 363, 826
November.....	344, 273	14, 554, 695	September.....	335, 785	15, 022, 969
December.....	321, 701	12, 951, 042	October.....	391, 894	16, 939, 595
1934			November.....	387, 329	16, 622, 110
January.....	331, 594	13, 581, 506	December.....	350, 028	15, 414, 634
February.....	321, 829	13, 081, 393	Total, 1934.....		173, 754, 017

Employment in Civilian Conservation Camps reached the peak of nearly 392,000 in October 1934. The low point was slightly over 191,000 in May 1933.

During the 20-month period disbursements for pay rolls have amounted to \$262,682,618.

### *Employment on State-Road Projects*

COMPARING December with November, there was a decrease of 50,000 in the number of workers employed on maintaining and building State roads. The total number employed during December was 176,600.

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

Table 29.—Employment and Maintenance of State Roads, by Geographic Divisions <sup>1</sup>

Geographic division	New				Maintenance			
	Number of employees		Amount of pay roll		Number of employees		Amount of pay roll	
	De- cem- ber	No- vem- ber	Decem- ber	Novem- ber	De- cem- ber	Novem- ber	Decem- ber	Novem- ber
All divisions.....	41,919	66,106	\$1,726,621	\$2,935,879	134,680	159,451	\$5,029,466	\$8,983,804
Percentage change.....	-36.59	-----	-----	-41.19	-15.54	-----	-44.04	-----
New England.....	9,112	18,048	446,638	828,955	6,673	8,059	418,055	649,196
Middle Atlantic.....	3,050	5,089	207,804	346,929	30,909	42,890	1,086,291	2,172,043
East North Central.....	6,244	12,531	310,780	702,420	20,182	25,477	827,659	1,457,065
West North Central.....	4,662	6,073	110,881	149,746	18,971	19,067	512,707	1,111,935
South Atlantic.....	7,993	10,345	152,056	216,172	25,080	28,905	701,592	1,334,848
East South Central.....	1,773	3,096	74,747	153,463	10,226	10,780	238,854	410,391
West South Central.....	3,131	4,193	116,025	157,102	9,501	10,310	427,923	760,348
Mountain.....	2,467	3,436	141,376	198,704	6,740	7,404	365,418	468,043
Pacific.....	3,487	3,295	166,314	182,388	6,327	6,485	445,689	613,587
Outside continental United States.....	0	0	0	0	71	74	5,278	6,348

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

<sup>2</sup> Revised.

Of the State-road workers, 23.7 percent were engaged in building new roads and 76.3 percent in maintaining existing roads. The usual seasonal decreases were shown in both types of work, comparing December with November 1934. December pay rolls amounted to over \$6,700,000.

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

Table 30.—Employment and Pay Rolls on Construction and Maintenance of State Roads <sup>1</sup>

Month	Number of employees working on—			Total pay roll
	New roads	Maintenance	Total	
January.....	25,345	136,440	161,785	\$8,684,109
February.....	22,311	126,904	149,215	7,131,604
March.....	19,985	132,144	152,129	7,989,765
April.....	21,510	136,038	157,548	8,407,644
May.....	27,161	167,274	194,435	10,275,139
June.....	37,642	170,879	208,521	11,221,299
July.....	45,478	168,428	213,906	11,255,685
August.....	53,540	180,270	233,810	12,435,163
September.....	61,865	188,323	250,188	13,012,305
October.....	71,008	169,235	240,243	12,439,738
November.....	66,106	159,451	225,557	11,919,683
December.....	41,919	134,680	176,599	6,756,087

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

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

THERE were 14,300 workers engaged on construction projects financed by the Reconstruction Finance Corporation during the month ended December 15. These employees were paid over \$1,300,000 for their month's work.

Many of the large projects financed by the Reconstruction Finance Corporation are being completed, and no new money is being loaned by this organization for construction.

Table 31 shows employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation during December 1934, by type of project.

Table 31.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project

[Subject to revision]

Type of project	Number of wage earners	Amount of pay roll	Number of man-hours worked	Average earnings per hour	Value of material orders placed
All projects.....	14,321	\$1,337,719	1,859,226	\$0.720	\$2,440,620
Railroad construction.....	132	4,773	10,147	.470	33,987
Building construction.....	1,070	85,882	85,408	1.006	36,396
Bridges.....	5,305	422,473	494,489	.854	1,394,968
Reclamation.....	1,765	99,328	244,899	.406	34,953
Water and sewerage.....	4,938	613,423	858,265	.715	536,673
Miscellaneous.....	1,111	111,840	166,018	.674	403,643

The completion of "Knickerbocker Village" in New York accounted for the decrease of workers in building construction. Workers on Reconstruction Finance Corporation projects earned an average of 72 cents per hour. Earnings ranged from 40 cents in the case of reclamation projects to over \$1 per hour for building construction.

Table 32 shows employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation during December 1934 by geographic divisions.

**Table 32.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Geographic Division**

[Subject to revision]

Geographic division	Number of wage earners	Amount of pay roll	Number of man-hours worked	Average earnings per hour	Value of material orders placed
All divisions.....	14, 321	\$1, 337, 719	1, 859, 226	\$0. 720	\$2, 440, 620
New England.....	0	0	0	0	0
Middle Atlantic.....	1, 751	149, 485	154, 542	.960	1, 007, 448
East North Central.....	313	36, 884	32, 349	1. 140	57, 758
West North Central.....	0	0	0	0	0
South Atlantic.....	8	687	773	.889	0
East South Central.....	146	5, 124	11, 130	.460	33, 987
West South Central.....	677	50, 958	69, 825	.730	15, 208
Mountain.....	1, 766	99, 352	244, 939	.406	34, 953
Pacific.....	9, 660	995, 229	1, 345, 668	.740	1, 291, 266

Nearly 70 percent of Reconstruction Finance Corporation construction workers were employed in the Pacific States. The building of the bridge from San Francisco to Oakland employs a large part of these workers. Hourly earnings averaged 41 cents in the Mountain States and \$1.14 in the East North Central States.

Table 33 shows information concerning employment, pay rolls, and man-hours worked during the months, April to December 1934, inclusive, on construction projects financed by the Reconstruction Finance Corporation.

**Table 33.—Employment and Pay Rolls on Projects Financed by 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.....	<sup>1</sup> 18, 731	<sup>1</sup> \$1, 516, 915	<sup>1</sup> 2, 308, 580	<sup>1</sup> \$0. 657	<sup>1</sup> \$2, 357, 408
May.....	<sup>1</sup> 19, 429	<sup>1</sup> 1, 649, 920	<sup>1</sup> 2, 358, 966	<sup>1</sup> . 699	<sup>1</sup> 2, 143, 864
June.....	<sup>1</sup> 19, 022	<sup>1</sup> 1, 676, 075	<sup>1</sup> 2, 314, 136	<sup>1</sup> . 724	<sup>1</sup> 2, 230, 065
July.....	<sup>1</sup> 17, 475	<sup>1</sup> 1, 612, 848	<sup>1</sup> 2, 141, 945	<sup>1</sup> . 753	<sup>1</sup> 2, 402, 174
August.....	<sup>1</sup> 17, 221	<sup>1</sup> 1, 697, 161	<sup>1</sup> 2, 282, 181	<sup>1</sup> . 744	<sup>1</sup> 2, 384, 887
September.....	<sup>1</sup> 16, 809	<sup>1</sup> 1, 637, 047	<sup>1</sup> 2, 203, 881	<sup>1</sup> . 743	<sup>1</sup> 2, 579, 969
October.....	<sup>1</sup> 17, 482	<sup>1</sup> 1, 596, 996	<sup>1</sup> 2, 181, 846	<sup>1</sup> . 732	<sup>1</sup> 2, 274, 174
November.....	<sup>1</sup> 16, 502	<sup>1</sup> 1, 621, 468	<sup>1</sup> 2, 233, 928	<sup>1</sup> . 726	<sup>1</sup> 2, 856, 371
December.....	<sup>1</sup> 14, 321	<sup>1</sup> 1, 337, 719	<sup>1</sup> 1, 859, 226	<sup>1</sup> . 720	<sup>1</sup> 2, 440, 620

<sup>1</sup> Revised.

During the period, March 15 to December 15, 1934, inclusive, purchase orders for material valued at over \$21,000,000 have been placed. Over \$8,000,000 of this amount was used for the purchase of steel-works and rolling-mill products, and nearly \$2,000,000 for foundry and machine-shop products.

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

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

Type of material	Value of material orders placed—	
	From Mar. to Nov. 15, 1934 <sup>1</sup>	During period ending Dec. 15, 1934
All material.....	\$19, 228, 912	\$2, 440, 620
Bolts, nuts, rivets, etc.....	4, 546	2, 312
Cast-iron pipe and fittings.....	347, 171	15, 947
Cement.....	1, 208, 882	137, 489
Clay products.....	305, 331	11, 648
Coal.....	49, 567	1, 675
Compressed and liquefied gases.....	26, 410	3, 675
Concrete products.....	1, 199, 813	123, 000
Copper products.....	997, 762	178, 981
Cordage and twine.....	4, 671	—
Cotton goods.....	31, 572	4, 925
Crushed stone.....	28, 407	9, 070
Electrical machinery and supplies.....	721, 836	85, 514
Explosives.....	748, 235	43, 525
Felt goods.....	4, 447	—
Foundry and machine-shop products, not elsewhere classified.....	1, 705, 670	212, 534
Fuel oil.....	49, 241	—
Gasoline.....	272, 178	22, 439
Glass.....	3, 157	—
Hardware, miscellaneous.....	358, 102	20, 381
Insulation materials.....	67, 437	—
Lime.....	8, 850	—
Lubricating oils and greases.....	27, 371	1, 669
Lumber and timber products.....	1, 051, 288	52, 404
Marble, granite, slate, and other stone products.....	101, 102	—
Motor vehicles and supplies.....	110, 641	7, 475
Paints and varnishes.....	28, 012	2, 048
Plumbing supplies.....	223, 269	7, 048
Pumps and pumping equipment.....	12, 844	—
Rails.....	15, 057	4, 489
Roofing.....	4, 516	—
Rubber goods.....	25, 780	4, 331
Sand and gravel.....	370, 853	27, 747
Sheet-metal work.....	26, 918	1, 327
Steam and hot-water heating apparatus.....	53, 971	7, 715
Steel-works and rolling-mill products.....	7, 666, 511	1, 404, 451
Tools.....	71, 071	2, 874
Wire and wirework, not elsewhere classified.....	262, 387	—
Other.....	1, 034, 026	43, 927

<sup>1</sup> Revised.

### *Employment on Construction Projects Financed From Regular Governmental Appropriations*

DURING the month of December there were nearly 16,300 employees working at the site of construction projects financed from governmental appropriations made by the Congress direct to the various executive departments.

These men earned over \$860,000 for their month's pay. Hourly earnings averaged 58½ cents. The number of workers as shown in the following tables include only employees working on contracts awarded since July 1, 1934.

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

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

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

**Table 35.—Employment on Construction Projects Financed From Regular Governmental Appropriations, by Type of Project**

[Subject to revision]

Type of project	Number of wage earners	Amount of pay roll	Number of man-hours worked	Average earnings per hour	Value of material orders placed
All projects.....	16, 276	\$859, 998	1, 468, 741	\$0. 586	\$1, 966, 441
Building construction.....	2, 942	176, 366	233, 498	. 755	214, 977
Public roads.....	3, 157	165, 371	284, 375	. 582	208, 938
River, harbor, and flood control.....	5, 633	315, 828	594, 848	. 531	342, 790
Streets and roads.....	2, 864	100, 305	227, 660	. 441	31, 450
Naval vessels.....	795	66, 890	77, 069	. 868	1, 093, 970
Forestry.....	6	107	167	. 641	-----
Water and sewerage.....	257	7, 095	13, 224	. 537	19, 832
Miscellaneous.....	622	28, 236	37, 900	. 745	54, 484

Completion of Civilian Conservation Corps winter quarters accounted for the large decrease in employees working on building construction, comparing December with November 1934. The decrease in work on public roads was caused both by seasonal decrease and by the fact that State-aid appropriations have been almost exhausted.

Table 36 shows for the month of December employment, pay rolls, and man-hours worked on construction projects started since July 1, 1934, which are financed from regular governmental appropriations for December 1934, by geographic divisions.

**Table 36.—Employment on Construction Projects Financed From Regular Governmental Appropriations, by Geographic Division**

[Subject to revision]

Geographic division	Wage earners		Amount of pay roll	Number of man-hours worked	Average earnings per hour	Value of material orders placed
	Number employed	Weekly average				
All divisions.....	16, 276	14, 001	\$859, 998	1, 468, 741	\$0. 586	\$1, 966, 441
New England.....	830	800	59, 744	82, 928	. 720	86, 280
Middle Atlantic.....	877	810	63, 816	86, 226	. 740	220, 981
East North Central.....	1, 781	1, 104	94, 588	143, 617	. 659	63, 527
West North Central.....	1, 552	1, 409	61, 603	121, 081	. 509	33, 267
South Atlantic.....	2, 785	2, 528	147, 127	229, 491	. 641	948, 546
East South Central.....	2, 084	1, 857	84, 385	164, 289	. 514	177, 947
West South Central.....	3, 059	2, 321	167, 972	335, 034	. 501	163, 633
Mountain.....	1, 625	1, 556	95, 011	171, 442	. 554	21, 828
Pacific.....	1, 512	1, 435	74, 195	113, 011	. 657	41, 494
Outside continental United States.....	191	181	11, 557	21, 622	. 535	-----

<sup>1</sup> Includes \$208,938 estimated value of orders placed for public-road projects which cannot be charged to any specific geographic division.

The average earnings per hour ranged from 50 cents in the West South Central States to 74 cents in the Middle Atlantic States.

Table 37 shows for the months August to December, inclusive, employment, pay rolls, and man-hours worked on construction projects started since July 1, 1934, which are financed from direct governmental appropriations, through December 1934.

**Table 37.—Employment on Construction Projects Financed From Regular Governmental Appropriations**

[Subject to revision]

Month	Number of wage earners	Amount of pay roll	Number of man-hours	Average earnings per hour	Value of material orders placed
August.....	5, 601	\$329, 440	557, 747	\$0. 591	\$150, 506
September.....	9, 800	493, 363	773, 685	. 638	842, 292
October.....	13, 593	689, 604	1, 103, 523	. 625	982, 835
November.....	18, 211	1, 014, 945	1, 690, 488	. 600	3, 334, 648
December.....	16, 276	859, 998	1, 468, 741	. 586	1, 966, 441

Employment on these construction projects, while lower than for November, was higher than for any other month of the period covered.

Purchase orders have been placed for materials valued at over \$7,200,000 during the 5 months ending December 15, 1934.

Table 38 shows the value of material orders placed during the period July to December 1934 for use on construction projects on which work has started since July 1, 1934, financed from direct governmental appropriations, by type of material.

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

Type of material	Value of material orders placed—	
	From July 1 to Nov. 15, 1934	During period Nov. 15 to Dec. 15, 1934
All material.....	\$5, 159, 775	\$1, 966, 441
Asbestos.....		1, 250
Bolts, nuts, rivets, etc.....	13, 529	4, 950
Brick and hollow tile.....	41, 637	6, 528
Cast-iron pipe and fittings.....	13, 018	5, 916
Cement and lime.....	226, 469	77, 036
Coal.....	14, 655	9, 025
Concrete products.....	34, 830	9, 600
Copper products.....	35, 273	12, 168
Cordage and twine.....	4, 876	
Crushed stone.....	70, 982	24, 856
Electric wiring and fixtures.....	20, 482	4, 737
Electrical machinery and supplies.....	109, 288	22, 680
Elevators and parts.....	3, 701	5, 757
Engines, turbines, tractors.....	24, 768	611, 674
Explosives.....	8, 321	3, 589
Forgings, iron and steel.....		84, 501
Foundry and machine-shop products, not elsewhere classified.....	233, 695	88, 182
Glass.....	1, 907	6, 039
Hardware, miscellaneous.....	36, 438	22, 204
Heating and ventilating equipment.....	43, 189	8, 205
Linoleum.....	3, 639	
Lumber and timber products.....	539, 486	133, 832
Machine tools.....	2, 480	1, 515
Marble, granite, slate, and other stone products.....	93, 315	74, 783
Metal doors, shutters, window sash and frames, molding and trim.....	7, 035	4, 224
Motor vehicles.....	1, 952	1, 306
Nails and spikes.....	12, 527	1, 366
Paints and varnishes.....	48, 160	14, 622
Paving mixtures.....	40, 087	9, 204
Petroleum products.....	117, 191	86, 866
Planing-mill products.....	19, 885	10, 599
Plumbing supplies.....	80, 982	14, 993
Pumps and pumping equipment.....	49, 430	86, 889
Refrigerating equipment.....	15, 843	6, 631
Roofing materials.....	52, 783	1, 638
Sand and gravel.....	109, 863	45, 769
Sheet-metal work.....	39, 269	38, 592
Steel-works and rolling-mill products, not elsewhere classified.....	593, 670	45, 684
Structural and reinforcing steel.....	2, 111, 630	297, 872
Tiling, floor and wall, and terrazzo.....		3, 857
Tools, other than machine tools.....	7, 876	3, 458
Wall plaster, wall board, and insulating board.....	51, 143	4, 037
Waterproofing materials.....	4, 997	
Wire products, not elsewhere classified.....	30, 786	22, 224
Other.....	188, 688	44, 581

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

#### *Manufacturing Industries*

TABLE 39 presents information concerning wage-rate adjustments occurring between November 15 and December 15, 1934, as shown by reports received from 25,322 manufacturing establishments employing 3,637,978 workers in December.

Forty-four establishments in 15 industries reported wage-rate increases averaging 10 percent and affecting 3,872 employees. Five establishments in 2 industries reported decreases which averaged 9.7 percent and affected 387 workers.



Two dyeing and finishing textile establishments reported increases in wage rates averaging 13 percent and affecting 1,139 employees, 6 newspaper and periodical establishments reported increases averaging 6.5 percent and affecting 624 employees, and 4 woolen and worsted goods establishments reported increases averaging 10.4 percent and affecting 616 workers. The increases in each of the remaining industries affected 374 employees or less.

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

Industry	Estab- lish- ments report- ing	Total number of em- ployees	Number of establish- ments reporting—			Number of employees having—		
			No wage- rate changes	Wage rate in- creases	Wage rate de- creases	No wage rate changes	Wage rate in- creases	Wage rate de- creases
All manufacturing industries.....	25, 322	3, 637, 978	25, 273	44	5	3, 633, 719	3, 872	387
Percentage of total.....	100. 0	100. 0	99. 8	. 2	(1)	99. 9	. 1	(1)
Iron and steel and their products, not including machinery:								
Blast furnaces, steel works and rolling mills.....	240	252, 017	240			252, 017		
Bolts, nuts, washers, and rivets.....	56	9, 196	56			9, 196		
Cast-iron pipe.....	49	8, 001	49			8, 001		
Cutlery (not including silver and plated cutlery) and edge tools.....	170	13, 468	170			13, 468		
Forgings, iron and steel.....	90	9, 574	90			9, 574		
Hardware.....	112	27, 554	111	1		27, 468	86	
Plumbers' supplies.....	86	9, 679	86			9, 679		
Steam and hot-water heating apparatus and steam fit- tings.....	92	20, 414	92			20, 414		
Stoves.....	205	20, 575	204	1		20, 549	26	
Structural and ornamental metalwork.....	308	21, 066	308			21, 066		
Tin cans and other tinware.....	62	10, 255	62			10, 255		
Tools (not including edge tools, machine tools, files, and saws).....	140	10, 531	140			10, 531		
Wirework.....	114	11, 624	114			11, 624		
Machinery, not including trans- portation equipment:								
Agricultural implements.....	88	23, 008	88			23, 008		
Cash registers, adding ma- chines, and calculating machines.....	30	14, 577	30			14, 577		
Electrical machinery, appa- ratus, and supplies.....	406	122, 208	405	1		122, 181	27	
Engines, turbines, tractors, and water wheels.....	108	38, 698	108			38, 698		
Foundry and machine-shop products.....	1, 653	143, 657	1, 648	5		143, 518	139	
Machine tools.....	218	23, 088	218			23, 088		
Radios and phonographs.....	56	37, 822	56			37, 822		
Textile machinery and parts.....	179	16, 490	179			16, 490		
Typewriters and parts.....	12	11, 285	12			11, 285		
Transportation equipment:								
Aircraft.....	33	4, 822	33			4, 822		
Automobiles.....	320	260, 399	320			260, 399		
Cars, electric- and steam-rail- road.....	66	12, 776	66			12, 776		
Locomotives.....	11	4, 636	11			4, 636		
Shipbuilding.....	115	31, 269	115			31, 269		
Railroad repair shops:								
Electric railroad.....	364	18, 713	362	2		18, 612	101	
Steam railroad.....	558	78, 280	558			78, 280		

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

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

Industry	Estab-lish-ments reporting	Total number of em-employees	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
Nonferrous metals and their products:								
Aluminum manufactures.....	36	6,900	36			6,900		
Brass, bronze, and copper products.....	316	40,710	316			40,710		
Clocks and watches and time-recording devices.....	28	11,739	28			11,739		
Jewelry.....	182	10,608	182			10,608		
Lighting equipment.....	73	4,399	73			4,399		
Silverware and plated ware.....	68	8,616	68			8,616		
Smelting and refining—cop- per, lead, and zinc.....	44	17,411	44			17,411		
Stamped and enameled ware.....	221	24,621	218	3		24,247	374	
Lumber and allied products:								
Furniture.....	576	53,616	576			53,616		
Lumber:								
Millwork.....	638	26,598	638			26,598		
Sawmills.....	681	77,808	681			77,808		
Turpentine and rosin.....	33	2,569	33			2,569		
Stone, clay, and glass products:								
Brick, tile, and terra cotta.....	525	19,363	525			19,363		
Cement.....	131	15,241	131			15,241		
Glass.....	181	51,658	181			51,658		
Marble, granite, slate, and other products.....	255	4,514	255			4,514		
Pottery.....	129	20,360	128	1		20,298	62	
Textiles and their products:								
Fabrics:								
Carpets and rugs.....	33	16,975	33			16,975		
Cotton goods.....	692	285,084	692			285,084		
Cotton small wares.....	117	10,018	117			10,018		
Dyeing and finishing tex- tiles.....	161	41,965	159	2		40,826	1,139	
Hats, fur-felt.....	49	7,633	49			7,633		
Knit goods.....	485	123,408	485			123,408		
Silk and rayon goods.....	272	49,787	267	1	4	49,444	57	284
Woolen and worsted goods.....	528	132,110	524	4		131,494	616	
Wearing apparel:								
Clothing, men's.....	1,566	109,780	1,565	1		109,698	82	
Clothing, women's.....	684	39,560	684			39,560		
Corsets and allied gar- ments.....	38	6,567	38			6,567		
Men's furnishings.....	89	9,651	89			9,651		
Millinery.....	144	6,981	144			6,981		
Shirts and collars.....	172	23,777	169	3		23,617	160	
Leather and its manufactures:								
Boots and shoes.....	339	111,732	339			111,732		
Leather.....	169	33,609	169			33,609		
Food and kindred products:								
Baking.....	1,170	70,935	1,169		1	70,834		101
Beverages.....	575	27,346	575			27,346		
Butter.....	348	4,877	348			4,877		
Canning and preserving.....	762	44,737	762			44,737		
Confectionery.....	327	44,459	327			44,459		
Flour.....	429	17,054	424	5		16,747	307	
Ice cream.....	383	8,991	383			8,991		
Slaughtering and meat pack- ing.....	318	117,158	318			117,158		
Sugar, beet.....	71	12,136	71			12,136		
Sugar refining, cane.....	15	9,716	15			9,716		
Tobacco manufactures:								
Chewing and smoking tobac- co and snuff.....	39	9,852	39			9,852		
Cigars and cigarettes.....	241	50,620	241			50,620		
Paper and printing:								
Boxes, paper.....	738	40,076	738			40,076		
Paper and pulp.....	434	107,713	434			107,713		
Printing and publishing:								
Book and job.....	1,438	61,005	1,430	8		60,933	72	
Newspapers and periodi- cals.....	555	50,337	549	6		49,713	624	

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

Industry	Estab-lish-ments reporting	Total number of em-ployees	Number of establish-ments reporting—			Number of employees having—		
			No wage-rate changes	Wage rate in-creases	Wage rate de-creases	No wage rate changes	Wage rate in-creases	Wage rate de-creases
Chemicals and allied products, and petroleum refining:								
Other than petroleum refin-ings:								
Chemicals.....	132	25,754	132	-----	-----	25,754	-----	-----
Cottonseed—oil, cake, and meal.....	102	5,616	102	-----	-----	5,616	-----	-----
Druggists' preparations..	69	7,584	69	-----	-----	7,584	-----	-----
Explosives.....	31	4,402	31	-----	-----	4,402	-----	-----
Fertilizers.....	313	12,342	313	-----	-----	12,342	-----	-----
Paints and varnishes.....	693	19,875	693	-----	-----	19,875	-----	-----
Rayon and allied prod-ucts.....	30	47,476	30	-----	-----	47,476	-----	-----
Soap.....	112	15,737	112	-----	-----	15,737	-----	-----
Petroleum refining.....	169	55,631	169	-----	-----	55,631	-----	-----
Rubber products:								
Rubber boots and shoes.....	12	18,307	12	-----	-----	18,307	-----	-----
Rubber goods, other than boots, shoes, tires, and in-ner tubes.....	179	27,785	179	-----	-----	27,785	-----	-----
Rubber tires and inner tubes.	41	49,407	41	-----	-----	49,407	-----	-----

## Nonmanufacturing Industries

DATA relating to changes in wage rates occurring between November 15 and December 15, 1934, in 17 nonmanufacturing industries are presented in table 40.

Increases affecting 1,587 workers were reported by 373 establishments in 7 industries. Twelve hundred and ninety-five of these 1,587 employees were in retail-trade establishments and received an average wage-rate increase of 19 percent.

The decreases reported affected only 142 employees in 33 establishments.

Table 40.—Wage-Rate Changes in Nonmanufacturing Industries During Month Ending Dec. 15, 1934

Industrial group	Estab-lish-ments reporting	Total number of em-ployees	Number of establish-ments reporting—			Number of employees having—		
			No wage-rate changes	Wage-rate in-creases	Wage-rate de-creases	No wage-rate changes	Wage-rate in-creases	Wage-rate de-creases
Anthracite mining.....	160	85,461	160	—	—	85,461	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Bituminous-coal mining.....	1,474	254,058	1,474	—	—	254,058	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Metalliferous mining.....	277	29,707	277	—	—	29,707	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Quarrying and nonmetallic min-ing.....	1,156	29,252	1,156	—	—	29,252	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Crude petroleum producing.....	278	19,099	277	1	—	19,087	12	—
Percentage of total.....	100.0	100.0	99.6	.4	—	99.9	.1	—
Telephone and telegraph.....	8,168	257,386	8,168	—	—	257,386	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Electric light and power and man-ufactured gas.....	2,692	243,641	2,669	2	21	243,475	129	37
Percentage of total.....	100.0	100.0	99.1	.1	.8	99.9	.1	(1)
Electric-railroad and motor-bus operation and maintenance.....	539	124,352	538	1	—	124,316	36	—
Percentage of total.....	100.0	100.0	99.8	.2	—	100.0	(1)	—
Wholesale trade.....	16,024	292,786	16,071	6	1	292,687	37	62
Percentage of total.....	100.0	100.0	(1)	(1)	(1)	100.0	(1)	(1)
Retail trade.....	58,478	1,041,488	58,129	358	11	1,040,150	1,295	43
Percentage of total.....	100.0	100.0	99.4	.6	(1)	99.9	.1	(1)
Hotels.....	2,439	140,149	2,439	—	—	140,149	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Laundries.....	1,363	73,080	1,360	3	—	73,006	74	—
Percentage of total.....	100.0	100.0	99.8	.2	—	99.9	.1	—
Dyeing and cleaning.....	679	15,581	679	—	—	15,581	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Banks.....	2,900	93,584	2,898	2	—	93,580	4	—
Percentage of total.....	100.0	100.0	99.9	.1	—	100.0	(1)	—
Brokerage.....	393	11,398	393	—	—	11,398	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Insurance.....	1,047	66,747	1,047	—	—	66,747	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Real estate.....	728	18,890	728	—	—	18,890	—	—
Percentage of total.....	100.0	100.0	100.0	—	—	100.0	—	—

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