

UNITED STATES DEPARTMENT OF LABOR

Frances Perkins, Secretary

BUREAU OF LABOR STATISTICS

Isador Lubin, Commissioner

Employment and Pay Rolls

(Formerly "Trend of Employment")

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December 1935

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EMPLOYMENT AND PAY ROLLS

Summary of Developments in December

FOLLOWING the moderate decline of the month preceding, industrial employment in December again turned upward. Between the middle of November and the middle of December approximately 322,000 workers were added to the pay rolls of the manufacturing and nonmanufacturing industries regularly surveyed by the Bureau of Labor Statistics. At the same time weekly wage disbursements rose \$13,300,000. These gains more than counterbalanced the November decrease and brought the aggregate employment in the industries surveyed to the highest level since December 1930. Compared with the corresponding month of 1934, December 1935 showed 693,000 more workers on the pay rolls of these industries and \$38,100,000 more in weekly wage disbursements.

The major factor contributing to the December increase was the substantial gain of 342,000 workers employed by retail trade establishments. This increase—10.3 percent—reflects the expected spurt in holiday buying, but it is significant that the December employment index for the department, variety, general-merchandising stores, and mail-order-house group of retail-trade establishments was higher than in the corresponding month of 1929. Apart from the marked rise recorded for the retail-trade establishments, increased employment was also reported by wholesale establishments, both branches of the coal industry, metal mining, and by banks, insurance, and brokerage establishments. Seasonal declines in employment, on the other hand, were reported in quarrying, private building construction, and dyeing and cleaning establishments. Employment also fell off in public utilities and some of the service industries. Despite these declines, the net gains over November in all of the nonmanufacturing industries for which information is available amounted to 351,000 in the number of workers employed and \$9,000,000 in weekly pay rolls.

In contrast with the nonmanufacturing industries, factory employment declined in December. The decrease, however, was distinctly below the usual seasonal proportions and for manufacturing as a whole it is estimated that employment during the month was within 0.4 percent of the November level. Both the durable and nondurable groups shared in the decline.

In spite of the decrease in factory employment, pay rolls increased 2.8 percent from November to December. This gain indicates that the amount paid out in weekly wages to factory workers in December was \$4,300,000 more than in the previous month.

Public employment in December was featured by a sharp rise in the number of workers employed on construction projects financed by the Emergency Relief Act of 1935 and an abrupt decline in relief-work employment. In the regular agencies of the Federal Government, minor increases were reported for the executive, judicial, and military services, but employment in the legislative branch declined slightly.

Part I—Private Employment

Manufacturing Industries

Employment, pay rolls, and earnings in December 1935

THE decline of 0.4 percent in factory employment in December carried the Bureau of Labor Statistics' index to 84.6 percent of the 1923-25 average. With the exception of the 2 months immediately preceding, this is the highest point reached since November 1930. The smaller than seasonal decline in employment from November to December 1935 was due to the fact that 40 of the 90 manufacturing industries reported gains in employment. A number of the industries reporting increases usually experience an employment decline in December. The favorable comparison is further noteworthy because of the fact that the automobile industry did not influence the monthly movement in December 1935 to the extent usual in recent years. Employment in manufacturing in December 1935 shows an increase of 8.2 percent over December 1934 and 36.2 percent over December 1932.

Despite the decline in factory employment, weekly wage disbursements in December were 2.8 percent greater than in November. This brought the index of factory pay rolls to 76.6, the highest level reached since November 1930. The rise in pay rolls in December is explained, in part, by the fact that in November pay rolls were depressed by the observance of Armistice Day in many important manufacturing centers.

Of the 14 major manufacturing groups, 5 showed gains in employment from November to December. The transportation group, with a net gain of 13,600 workers during the month interval, reported the largest increase. This is the third successive month that the transportation group has ranked first in the number of workers added to the pay rolls. During this period more than 150,000 workers have found jobs in the transportation-equipment industries. Other major groups reporting increased-employment in December were the leather, paper and printing, rubber products, and railroad repair shops. In

all, these 4 groups employed 19,200 more workers in December than in November. Among the groups showing declines in employment were the food group (23,700), the lumber group (13,800), and the machinery group (6,200).

Among the separate industries, the most pronounced gains in employment over the month interval were in the electric- and steam-car building industry (9.1 percent), boots and shoes (6.4 percent), wirework (4.4 percent), and agricultural implements (4.1 percent). Employment in the cast-iron pipe industry increased 3.1 percent and gains of 3 percent each were shown in the iron and steel forgings and the textile machinery industries. Among the remaining 34 industries reporting employment gains were such important industries as automobiles (2.3 percent), book and job printing (2.3 percent), foundries and machine shops (1.8 percent), cotton goods (1.8 percent), slaughtering and meat packing (1.8 percent), newspapers and periodicals (1.2 percent), machine tools (1.4 percent), silk and rayon goods (2.1 percent), and blast furnaces, steel works, and rolling mills (1.0 percent).

Seasonal declines in employment were reported in December in beet sugar (39.2 percent), canning and preserving (18.9 percent), radios and phonographs (15.3 percent), jewelry (9.5 percent), cement (9.4 percent), stoves (8 percent), and cottonseed—oil, cake, meal (7.8 percent). The soap industry reported a decrease of 6.2 percent in employment over the month interval and losses ranging from 3 percent to 3.9 percent were reported in steam and hot-water heating apparatus, men's furnishings, flour, millwork, explosives, shirts and collars, and aircraft.

The indexes of factory employment and pay rolls are computed from data supplied by representative establishments in 90 manufacturing industries. The base used in computing these indexes is the 3-year average, 1923–25. In December 1935, reports were received from 23,568 establishments employing 4,006,208 workers whose weekly earnings were \$89,314,655. The employment reports received from these cooperating establishments cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 90 industries included in the Bureau of Labor Statistics' monthly survey.

Per capita weekly earnings in all manufacturing industries combined were \$22.29 in December, a gain of 3.1 percent over November. Seventy-seven of the 90 industries surveyed showed gains in average per capita weekly earnings ranging from 0.5 to 20.9 percent.

Some of the establishments that report employment and pay-roll totals do not report man-hours. Consequently, average hours and average hourly earnings are computed from data supplied by a smaller number of establishments than are used in computing per capita weekly earnings and indexes of employment and pay rolls. Average

hours worked per week in all manufacturing industries combined rose 2.6 percent from November to December, the average for November having been 37.8 as against 38.8 for December. Average hourly earnings rose 0.7 percent from 56.7 to 57.1 cents. Seventy-three of the 87 industries for which man-hour data are published showed gains in average hours worked per week, and 55 showed increases in hourly rates of pay.

Indexes of employment and pay rolls, average hours worked per week, average hourly earnings, and per capita weekly earnings in manufacturing industries in December are presented in table 1. Percentage changes from November 1934 to December 1934 and from December 1934 to December 1935 are also given in this table.

Table 1.—Employment, Pay Rolls, and Earnings in Manufacturing Industries, December 1935

Industry	Employment			Pay roll			Average weekly earnings ¹			Average hours worked per week ²			Average hourly earnings ²		
	Index December 1935 (3-year average 1923-25 = 100)	Percentage change from—		Index December 1935 (3-year average 1923-25 = 100)	Percentage change from—		December 1935	Percentage change from—		December 1935	Percentage change from—		December 1935	Percentage change from—	
		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934
All industries	84.6	-0.5	+8.3	76.6	+2.8	+21.2	\$22.29	+3.3	+11.9	33.8	+2.6	+10.5	Cents 57.1	+0.7	+1.2
Durable goods	75.7	- .5	+17.5	70.1	+2.9	+39.1	24.91	+3.5	+18.3	40.1	+2.3	+13.9	61.4	+ .7	+2.4
Nondurable goods	94.2	- .4	+1.5	85.1	+2.9	+7.0	19.76	+3.3	+5.4	37.5	+2.7	+5.7	53.1	+ .8	0
<i>Durable goods</i>															
Iron and steel and their products, not including machinery	76.6	- .3	+15.0	68.8	+5.7	+44.5	24.62	+5.9	+25.6	39.4	+5.1	+24.2	61.8	+ .5	+ .4
Blast furnaces, steel works, and rolling mills.....	77.0	+1.0	+15.1	72.0	+8.4	+54.8	25.89	+7.3	+34.9	38.9	+6.9	+35.6	66.7	+ .5	- .4
Bolts, nuts, washers, and rivets.....	83.7	+ .6	+12.0	76.3	+9.6	+42.1	23.73	+9.0	+26.6	41.4	+8.4	+23.3	57.3	+ .5	+1.7
Cast-iron pipe.....	52.8	+3.1	+8.9	34.1	+12.1	+24.5	17.46	+8.6	+14.5	35.5	+9.9	+13.9	48.7	- .8	-1.8
Cutlery (not including silver and plated cutlery) and edge tools.....	80.9	+ .1	+5.6	71.2	+4.9	+23.6	21.70	+4.8	+17.1	40.8	+1.7	+15.7	53.7	+2.9	+1.6
Forgings, iron and steel.....	67.1	+3.0	+22.2	55.5	+7.7	+27.6	25.97	+4.6	+4.2	42.1	+4.2	+3.3	61.7	+ .2	+1.3
Hardware.....	57.6	+1.3	+14.3	57.4	+3.1	+39.7	23.08	+1.7	+22.8	41.7	+1.7	+22.3	55.7	- .2	0
Plumbers' supplies.....	94.0	-1.7	+46.4	61.2	+2.0	+53.4	21.75	+3.7	+5.0	38.6	+3.2	+6.8	56.3	+ .4	-2.4
Steam and hot-water heating apparatus and steam fittings.....	57.0	-3.0	+17.3	40.7	-1.9	+29.6	22.84	+1.2	+9.9	38.9	0	+8.4	58.5	+ .7	+ .7
Stoves.....	99.8	-8.0	+15.9	80.7	-6.2	+32.1	22.67	+2.0	+14.0	39.5	+1.8	+10.4	56.5	0	+1.7
Structural and ornamental metalwork.....	56.6	-3.3	-1.7	45.0	+ .6	+14.8	21.86	+4.0	+16.8	37.6	+4.4	+14.5	58.1	- .3	+2.0
Tin cans and other tinware.....	92.9	-2.5	+8.7	91.5	+ ⁽³⁾	+14.9	20.66	+2.6	+5.9	38.2	+2.1	+3.8	54.0	+ .6	+1.3
Tools (not including edge tools, machine tools, files, and saws).....	73.2	+2.6	+23.4	76.0	+6.9	+45.9	23.59	+4.2	+18.1	44.0	+4.5	+19.8	53.4	- .4	- .7
Wirework.....	144.4	+4.4	+14.5	145.7	+7.5	+35.9	24.02	+3.0	+18.6	42.4	+3.2	+17.1	56.7	0	+1.7

¹ Average weekly earnings are computed from figures furnished by all reporting establishments. Percentage changes over year computed from indexes. Percentage changes over month in the groups and in "All industries" also computed from indexes.

² Computed from available man-hour data—all reporting establishments do not furnish man-hours. Percentage changes over year computed from indexes. The average hours and average hourly earnings in the groups and in "All industries" are weighted.

³ Less than 1/10 of 1 percent.

Table 1.—Employment, Pay Rolls, and Earnings in Manufacturing Industries, December 1935—Continued

Industry	Employment			Pay roll			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index December 1935 (3-year average 1923-25 =100)	Percentage change from—		Index December 1935 (3-year average 1923-25 =100)	Percentage change from—		December 1935	Percentage change from—		December 1935	Percentage change from—		December 1935	Percentage change from—	
		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934
<i>Durable goods—Continued</i>													<i>Cents</i>		
Machinery, not including transportation equipment.....	93.1	-0.7	+18.6	80.7	+2.3	+34.1	\$24.62	+3.1	+13.0	40.1	+1.8	+11.6	60.8	+0.8	+1.2
Agricultural implements.....	128.9	+4.1	+53.8	155.2	+7.0	+70.2	24.69	+2.8	+10.7	40.1	+2.8	+4.2	61.8	0	+5.3
Cash registers, adding machines, and calculating machines.....	111.4	+1.7	+11.5	96.1	+8.5	+17.6	28.32	+6.7	+5.5	41.3	+7.3	+2.6	68.9	-4	+2.0
Electrical machinery, apparatus, and supplies.....	74.0	-1.9	+12.8	65.1	+7	+24.7	24.08	+2.6	+10.3	39.3	+1.8	+11.1	61.0	+8	+4
Engines, turbines, tractors, and water wheels.....	105.3	+2.3	+37.3	79.0	+3.8	+49.9	27.46	+1.5	+8.9	39.5	+1.3	+1.7	69.5	+1	+6.6
Foundry and machine-shop products.....	79.0	+1.8	+18.3	68.5	+4.9	+37.8	24.67	+3.0	+16.7	41.1	+3.0	+16.4	60.0	+2	+5
Machine tools.....	101.5	+1.4	+40.6	96.0	+6.4	+70.2	28.23	+4.9	+20.8	44.6	+4.7	+19.3	63.2	+2	+1.7
Radios and phonographs.....	230.0	-15.3	+10.6	143.7	-20.1	+8.9	19.37	-5.7	-1.5	35.3	-9.5	+1.1	55.0	+4.4	-2.3
Textile machinery and parts.....	68.0	+3.0	+8.8	61.1	+12.3	+20.0	24.60	+9.1	+10.6	40.7	+10.9	+9.7	60.6	-1.6	+9
Typewriters and parts.....	107.5	+ ⁽³⁾	+3.0	96.0	-3.3	-1.3	22.84	-3.3	-3.9	39.8	-2.7	-4.5	57.5	-3	+1.3
Transportation equipment.....	103.4	+2.4	+31.9	104.4	+2.9	+54.4	29.08	+1.5	+17.2	39.3	-3	+11.8	74.0	+4	+4.1
Aircraft.....	430.3	-3.9	+59.7	361.0	+6	+54.7	26.66	+4.7	-3.1	41.9	+7	+10.4	65.6	+5	-9.0
Automobiles.....	118.2	+2.3	+33.0	118.8	+1.8	+55.5	29.72	-5	+16.8	39.8	-1.0	+11.4	74.8	+4	+4.8
Cars, electric- and steam-railroad.....	50.1	+9.1	+47.4	55.2	+16.6	+75.2	23.08	+6.9	+19.3	37.2	+5.4	+14.7	62.1	+1.5	+3.5
Locomotives.....	22.8	-1	-37.5	10.6	+5.4	-36.1	24.48	+5.6	+2.9	39.0	+5.4	+5.1	62.8	+2	-3.2
Shipbuilding.....	82.9	+7	+21.0	77.2	+6.4	+39.6	26.84	+5.6	+15.1	34.3	+4.6	+13.5	77.4	+1.3	+2.7
Railroad repair shops.....	55.8	+2	+7.3	57.1	+4.8	+28.6	28.87	+4.6	+19.8	42.7	+4.7	+11.1	67.9	+4	+7.4
Electric railroad.....	64.8	-4	-1.1	61.8	+4.3	+5.8	28.36	+4.7	+6.8	45.9	+5.3	+3.8	61.2	0	+1.3
Steam railroad.....	55.1	+1	+8.0	56.9	+5.1	+30.8	28.99	+5.0	+21.4	42.4	+4.7	+12.7	68.5	+4	+7.8
Nonferrous metals and their products.....	92.3	-9	+16.5	79.4	+1.1	+28.5	22.93	+2.0	+10.3	41.7	+1.5	+11.0	54.6	+4	+1.0
Aluminum manufactures.....	82.1	-1.0	+11.7	76.7	-4	+20.0	22.58	+6	+7.3	41.0	+7	+5.9	54.5	-4	+6
Brass, bronze, and copper products.....	88.5	-5	+19.6	73.4	+7	+32.0	24.04	+1.2	+10.5	41.8	+1.5	+12.1	57.5	-3	+1.6
Clocks and watches and time-recording devices.....	94.5	+1	+19.6	88.8	-2.1	+35.0	21.24	-2.2	+12.8	44.0	-2.2	+11.0	48.2	-2	+1.4
Jewelry.....	76.0	-9.5	+2.2	65.1	-4	+2.7	22.89	+10.0	+6	40.5	+5.2	+6.2	55.4	+3.7	-6
Lighting equipment.....	86.9	+ ⁽³⁾	+24.5	84.7	+1.4	+40.9	23.09	+1.4	+13.1	42.6	+7	+12.2	54.7	+9	+1.2
Silverware and plated ware.....	71.3	-2.3	+8	58.7	-8.0	+5.6	23.42	-7	+4.5	40.3	-1.5	+1.6	57.5	+7	+3.1

Smelting and refining—copper, lead, and zinc.	89.7	+2.0	+20.1	65.9	+6.5	+41.4	23.72	+4.5	+17.9	42.1	+4.5	+12.2	56.3	+2	+5.4
Stamped and enameled ware.....	117.0	+7	+19.6	102.8	+1.8	+32.5	20.95	+1.1	+10.9	40.9	+5	+10.1	51.2	+4	+1.0
Lumber and allied products	54.5	-2.7	+14.0	44.2	-1.8	+32.7	18.25	+9	+16.4	40.7	+1.5	+15.9	44.6	-.7	-.5
Furniture.....	74.8	-2.8	+15.1	58.4	-1.5	+27.2	18.55	+1.3	+10.3	40.8	+1.2	+13.9	45.1	0	-2.1
Lumber:															
Millwork.....	46.9	-3.6	+27.8	39.0	-1.6	+58.5	19.46	+2.0	+24.1	42.2	+1.7	+23.3	46.0	+4	+1.4
Sawmills.....	35.1	-2.7	+11.1	25.9	-2.2	+29.5	17.78	+5	+17.5	39.9	+2.3	+18.5	45.2	-1.5	+3
Turpentine and rosin.....	99.7	-1.0	+7.3	64.4	-2.1	+28.3	14.51	-1.1	+19.4						
Stone, clay, and glass products	55.2	-2.1	+10.2	44.6	+1.0	+29.7	21.13	+3.9	+17.6	38.1	+2.4	+15.2	55.7	+9	+3.0
Brick, tile, and terra cotta.....	33.9	-2.0	+21.1	23.3	-4	+52.3	17.53	+1.6	+26.1	39.4	+8	+24.8	45.1	-2	-2.1
Cement.....	45.0	-9.4	+8.2	31.1	-6.6	+29.0	20.57	+3.1	+19.2	36.0	+2.9	+16.5	57.2	+2	+2.3
Glass.....	97.8	-6	+11.9	94.2	+3.3	+31.0	22.02	+4.0	+17.4	37.8	+2.4	+9.7	60.0	+1.5	+6.6
Marble, granite, slate, and other products.....	27.1	-9	+7.5	18.5	+4.7	+22.5	22.72	+5.6	+13.3	35.8	+6.9	+26.4	64.0	+5	+7.9
Pottery.....	69.1	-1.3	-2.1	55.9	+2.4	+11.8	21.53	+3.8	+13.9	39.6	+3.1	+9.5	54.2	+7	+5.9
<i>Nondurable goods</i>															
Textiles and their products	96.9	-1	+4.4	81.9	+2.8	+8.8	16.50	+2.8	+4.2	35.6	+2.6	+7.4	46.4	+4	-2.1
Fabrics.....	96.4	+3	+2.6	85.3	+3.3	+6.4	16.43	+2.9	+3.8	37.2	+3.3	+5.1	44.1	-2	-1.1
Carpets and rugs.....	82.3	-3	+29.0	73.5	+4.3	+44.1	19.53	+4.6	+11.7	35.8	+5.3	+14.1	55.5	-4	-7
Cotton goods.....	92.2	+1.8	-4.0	81.2	+5.7	0.0	13.89	+3.9	+4.3	37.5	+4.2	+6.3	37.0	0	-1.8
Cotton small wares.....	90.5	+1.2	+9.0	84.5	+7.5	+19.4	18.03	+6.2	+9.5	40.0	+7.2	+6.1	45.2	-9	+2.7
Dyeing and finishing textiles.....	111.0	-6	-3.3	93.5	+6.0	-6.1	19.74	+6.5	-3.0	37.6	+6.8	-1.1	52.3	-6	-1.8
Hats, fur-felt.....	83.6	+9	+8.6	84.9	+22.0	+19.1	24.22	+20.9	+9.6	35.7	+26.1	+13.7	68.5	+3	-3.4
Knit goods.....	115.2	-2.0	+4.3	113.0	-5.9	+3.5	16.83	-4.0	-9	35.8	+4.0	+9	47.7	-2	-2.1
Silk and rayon goods.....	74.0	+2.1	-3.0	63.9	+4.9	-1.5	15.86	+2.8	+1.6	36.6	+4.0	+7.2	43.5	-9	-4.0
Woolen and worsted goods.....	102.4	-7	+19.6	84.3	+6.2	+26.6	18.89	+7.0	+5.7	38.3	+5.8	+5.7	49.4	+1.0	+2
Wearing apparel.....	93.8	-1.1	+9.1	70.5	+1.9	+15.0	16.76	+3.0	+5.5	31.7	+1.0	+14.0	51.7	+1.8	-6.5
Clothing, men's ⁴	89.7	+9	+13.4	67.1	+4.1	+27.6	17.74	+3.1	+12.2	30.3	+3.8	+18.6	58.3	+3	-5.9
Clothing, women's.....	120.4	-1.2	+7.9	84.0	+3.4	+8.2	17.55	+4.7	+3	32.0	+1.6	+13.0	51.8	+3.2	-8.7
Corsets and allied garments.....	83.3	-2.2	-6.7	77.5	-1.6	-8.9	15.09	+6	-2.4	31.7	+1.3	-5.9	46.8	+1.7	+6.0
Men's furnishings.....	106.4	-3.0	-1.8	76.4	-9.1	-1.7	14.39	-6.3	+1	35.8	-8	+16.2	35.9	-8	-11.5
Millinery.....	49.3	-1.6	-11.8	36.3	+4.0	-17.7	17.24	+5.6	-6.8						
Shirts and collars.....	105.6	-3.8	+16.7	103.7	-6.8	+30.1	13.08	-3.2	+11.3	34.3	-4.5	+19.3	38.7	+1.6	-5.3
Leather and its manufactures	86.3	+4.9	+1.8	75.4	+13.2	+9.1	18.74	+8.0	+7.2	37.3	+9.1	+8.1	52.0	-.8	+1.4
Boots and shoes.....	82.8	+6.4	-1	66.7	+18.9	+4.7	17.64	+11.7	+4.6	36.6	+12.3	+8.3	50.7	-1.0	+5
Leather.....	100.4	+1	+8.3	103.7	+2.3	+19.9	22.21	+2.2	+10.5	39.6	+1.8	+7.6	56.1	+4	+2.3
Food and kindred products	96.8	-3.7	-6.9	90.5	-1.5	-2.7	21.62	+2.3	+4.6	40.8	+2.3	+4.7	53.4	+9	.2
Baking.....	112.4	-1.0	-2.6	99.4	-3	+7	22.27	+7	+3.3	41.1	+7	+5.7	54.2	+2	-2.1
Beverages.....	150.1	-1.9	+9	147.4	-2.5	+9.2	29.40	-6	+8.2	38.0	-8	+8.4	78.2	+3	+8
Butter.....	68.5	-2.4	-5.3	55.0	+1.1	+3.8	21.38	+3.6	+9.5						
Canning and preserving.....	66.8	-18.9	-5.2	77.6	-13.6	+5.0	14.19	+6.6	+10.6	35.6	+5.3	+10.3	39.6	+2.3	+1.6
Confectionery.....	86.6	+1.6	-5.1	81.3	+10.2	-1.8	17.05	+8.5	+3.6	41.6	+10.1	+8.1	41.6	-1.2	-3.8
Flour.....	73.2	-3.4	-5.2	64.5	-4.7	+1.4	22.43	-1.3	+7.0	40.3	-2.2	+6.2	55.7	+5	+1.6
Ice cream.....	59.8	-2.8	-2.0	51.1	-3	+4.1	26.69	+2.5	+6.0	46.5	+2.0	+6.3	56.7	+5	-4
Slaughtering and meat packing.....	84.3	+1.8	-20.1	79.7	+2.6	-19.0	23.53	+9	+1.2	42.1	+1.7	0	55.8	-1.1	+8
Sugar, beet.....	145.2	-39.2	+28.5	122.0	-39.8	+78.6	20.09	-1.1	+39.0	44.6	-8.2	+49.1	46.5	+9.9	-3.6
Sugar refining, cane.....	77.6	+1.1	-11.6	70.7	+13.4	-2.5	23.81	+12.2	+10.2	40.0	+12.4	+1.2	59.1	+3	+11.2

³ Less than $\frac{1}{10}$ of 1 percent.

⁴ Man-hour data revised as follows: Average hours, August 1934—28.7, percentage change from July 1934, +7.5, percentage change from August 1933, -14.8; average hourly earnings, August 1934—61.2, percentage change from July 1934, +2.0, percentage change from August 1933, +37.6.

Table 1.—Employment, Pay Rolls, and Earnings in Manufacturing Industries, December 1935—Continued

Industry	Employment			Pay roll			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index December 1935 (3-year average 1923-25 = 100)	Percentage change from—		Index December 1935 (3-year average 1923-25 = 100)	Percentage change from—		December 1935	Percentage change from—		December 1935	Percentage change from—		December 1935	Percentage change from—	
		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934
<i>Nondurable goods—Continued</i>													<i>Cents</i>		
Tobacco manufactures	58.2	-2.5	-6.0	49.6	+1.4	-0.6	\$15.12	+4.0	+5.7	36.9	+3.4	+2.2	41.3	+1.0	+3.0
Chewing and smoking tobacco and snuff.....	66.8	+8	-6.6	67.1	+5.4	-4	15.14	+4.6	+6.4	35.9	+5.3	+4.8	42.3	-7	+1.7
Cigars and cigarettes.....	57.1	-2.8	-5.8	47.4	+8	-6	15.12	+3.7	+5.2	37.1	+3.3	+1.6	41.2	+1.5	+3.9
Paper and printing	99.7	+1.0	+2.3	91.8	+4.3	+6.4	25.91	+3.3	+4.1	39.5	+2.3	+4.9	69.5	+1.2	+1.2
Boxes, paper.....	90.4	-2.7	+2.1	87.6	-1.7	+5.9	19.81	+1.0	+3.5	41.3	+1.2	+7.2	48.1	0	-2.6
Paper and pulp.....	110.0	+9	+2.4	94.4	+3.0	+13.1	21.80	+2.1	+10.0	40.9	+1.5	+9.6	53.4	+6	+1.0
Printing and publishing:															
Book and job.....	91.2	+2.3	+2.1	84.7	+8.0	+5.7	28.91	+5.5	+3.3	39.0	+4.3	+4.2	74.6	+9	+4
Newspapers and periodicals.....	102.4	+1.2	+2.0	96.8	+4.0	+2.8	34.26	+2.7	+1	37.6	+1.9	-5	91.3	+1.3	+3.1
Chemicals and allied products, and petroleum refining	111.1	-1.2	+2.1	100.8	+1.7	+9.9	23.89	+2.8	+7.6	38.9	+1.8	+6.5	61.4	+8	+2.7
Other than petroleum refining.....	111.4	-1.3	+2.9	99.8	+6	+11.0	21.58	+1.9	+8.0	39.7	+5	+5.8	54.7	+1.1	+2.9
Chemicals.....	108.8	-6	+4.7	102.1	+2	+13.4	25.79	+8	+8.1	40.2	-2	+7.3	64.2	+1.1	+1.1
Cottonseed—oil, cake, and meal.....	90.5	-7.8	-1.0	98.0	-5.9	+12.8	10.23	+2.1	+13.8	48.8	+1.7	+13.6	21.3	0	+4.5
Druggists' preparations.....	98.8	-1.5	-3.9	97.2	+2.6	+2.5	10.28	+4.2	+6.2	39.1	+4.5	+1.4	55.0	+2	+5.7
Explosives.....	86.7	-3.6	-4.3	76.2	-4.9	+7.8	24.59	-1.4	+12.8	36.5	-2.1	+6.3	67.5	+9	+4.6
Fertilizers.....	84.5	+7	-15.1	75.2	+3.7	-4	13.09	+3.0	+17.3	36.4	+3.1	+15.9	36.0	-3	+3
Paints and varnishes.....	107.9	-1.2	+8.4	93.7	-3	+20.0	24.13	+1.0	+10.6	40.6	+5	+7.1	59.5	+5	+4.0
Rayon and allied products.....	387.9	+5	+8.6	268.0	+1.8	+11.6	19.84	+1.3	+3.0	38.3	+3	+2	51.9	+1.2	+2.3
Soap.....	97.3	-6.2	-2.3	94.6	-3.8	+4.3	23.65	+2.6	+6.9	38.8	+1.8	+1.7	61.6	+1.0	+4.6
Petroleum refining.....	109.6	-7	-1.1	104.0	+5.2	+6.3	29.25	+6.0	+7.4	36.5	+5.8	+7.1	80.8	+5	+2.5
Rubber products	83.0	+4	+3.5	74.5	+6.0	+12.9	24.31	+5.6	+9.1	37.5	+4.7	+6.5	66.8	+9	+2.5
Rubber boots and shoes.....	60.1	+2.7	+1.3	56.6	+12.9	+8.6	20.96	+9.9	+7.5	40.1	+9.9	+8.7	52.2	-2	-9
Rubber goods, other than boots, shoes, tires, and inner tubes.....	129.2	-1.1	+12.3	117.2	+3.1	+26.7	20.84	+4.3	+13.1	39.4	+2.6	+11.0	53.1	+1.9	+1.6
Rubber tires and inner tubes.....	70.5	+9	-1.9	63.8	+6.5	+6.3	28.72	+5.6	+8.5	35.3	+5.4	+3.8	82.1	+4	+5.6

*Indexes and estimates of factory employment and pay rolls, January 1934
to December 1935*

INDEXES of employment and pay rolls for all manufacturing industries combined, for the durable-goods group, and for the nondurable-goods group, by months from January 1934 to December 1935, inclusive, are given in table 2. Estimates of employment and weekly pay rolls for all manufacturing industries combined are also given in this table.

The diagram on page 10 indicates the trend of factory employment and pay rolls from January 1919 to December 1935.

Table 2.—Indexes and Estimates of Employment and Pay Rolls in All Manufacturing Industries Combined and Indexes of Employment and Pay Rolls in the Durable- and Nondurable-Goods Groups

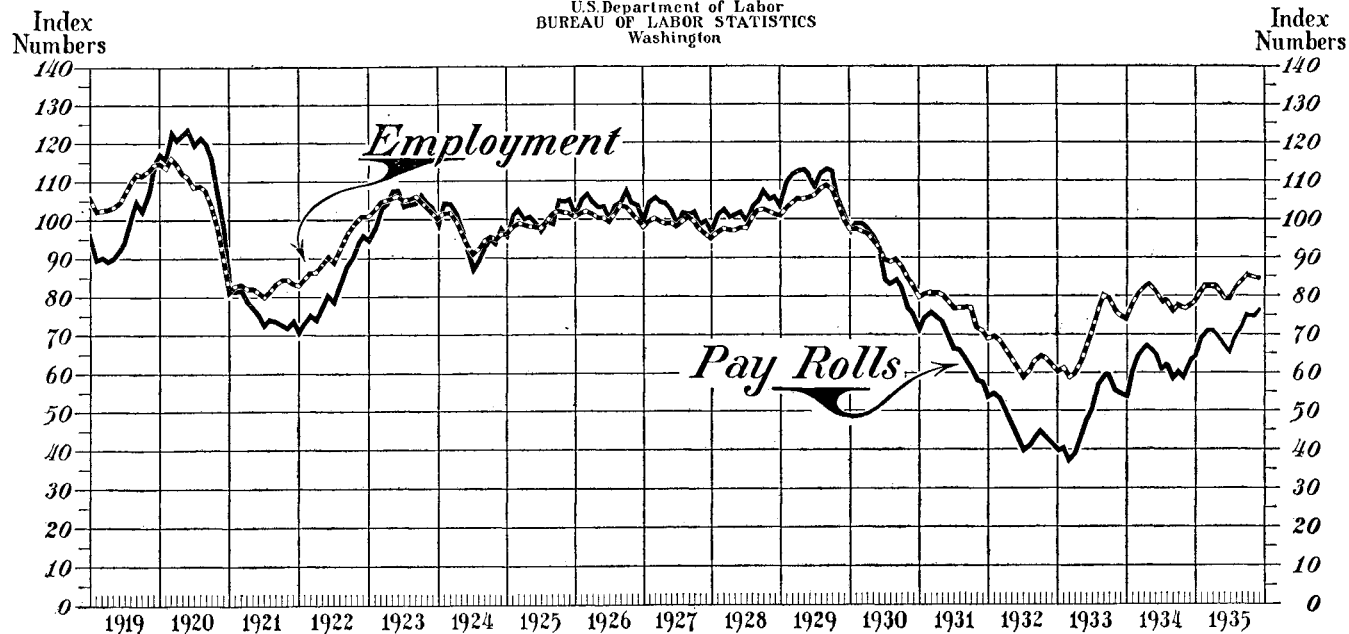
[Indexes based on 3-year average, 1923-25=100]

Year and month	Estimated number of wage earners	Estimated pay rolls (1 week)	Indexes					
			All manufacturing industries combined		Durable-goods group		Nondurable-goods group	
			Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls
<i>1934</i>								
January.....	6, 154, 300	\$109, 806, 000	73. 4	54. 0	59. 9	41. 6	88. 0	69. 7
February.....	6, 522, 500	123, 395, 000	77. 8	60. 6	63. 6	47. 9	93. 1	76. 9
March.....	6, 778, 300	131, 650, 000	80. 9	64. 7	67. 2	52. 8	95. 5	79. 9
April.....	6, 906, 100	136, 962, 000	82. 4	67. 3	70. 1	57. 4	95. 6	80. 0
May.....	6, 912, 600	136, 575, 000	82. 5	67. 1	71. 6	58. 6	94. 2	78. 1
June.....	6, 799, 900	132, 040, 000	81. 1	64. 9	70. 9	56. 9	92. 2	75. 1
July.....	6, 601, 700	123, 011, 000	78. 8	60. 5	67. 5	49. 9	90. 9	73. 9
August.....	6, 674, 400	126, 603, 000	79. 6	62. 2	66. 2	49. 9	94. 1	77. 9
September.....	6, 360, 200	118, 089, 000	75. 9	58. 0	64. 4	45. 5	88. 3	74. 0
October.....	6, 569, 500	124, 138, 000	78. 4	61. 0	62. 9	46. 4	95. 0	79. 6
November.....	6, 443, 200	121, 085, 000	76. 9	59. 5	62. 3	46. 1	92. 5	76. 6
December.....	6, 545, 600	128, 610, 000	78. 1	63. 2	64. 4	50. 4	92. 8	79. 5
Average.....	6, 605, 700	125, 997, 000	78. 8	61. 9	65. 9	50. 3	92. 7	76. 8
<i>1935</i>								
January.....	6, 607, 800	130, 758, 000	78. 8	64. 3	66. 2	52. 5	92. 4	79. 3
February.....	6, 821, 300	140, 670, 000	81. 4	69. 1	69. 4	58. 6	94. 2	82. 6
March.....	6, 918, 300	143, 976, 000	82. 5	70. 8	71. 0	60. 5	95. 0	83. 9
April.....	6, 919, 200	144, 137, 000	82. 6	70. 8	71. 8	61. 8	94. 2	82. 4
May.....	6, 808, 500	139, 388, 000	81. 2	68. 5	71. 4	60. 1	91. 8	79. 2
June.....	6, 683, 000	135, 121, 000	79. 7	66. 4	69. 7	57. 6	90. 6	77. 6
July.....	6, 682, 400	133, 019, 000	79. 7	65. 4	69. 4	55. 6	90. 8	77. 9
August.....	6, 871, 600	141, 879, 000	82. 0	69. 7	70. 5	58. 9	94. 3	83. 4
September.....	7, 014, 500	146, 876, 000	83. 7	72. 2	71. 2	60. 6	97. 1	87. 1
October.....	7, 146, 300	152, 629, 000	85. 3	75. 0	74. 9	66. 3	96. 4	86. 2
November.....	7, 124, 000	151, 626, 000	85. 0	74. 5	76. 1	68. 1	94. 6	82. 7
December.....	7, 093, 400	155, 909, 000	84. 6	76. 6	75. 7	70. 1	94. 2	85. 1
Average.....	6, 890, 900	142, 990, 000	82. 2	70. 3	71. 4	60. 9	93. 8	82. 3

EMPLOYMENT & PAY ROLLS *in* MANUFACTURING INDUSTRIES

3-year average 1923-1925=100

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



General indexes of factory employment and pay rolls by yearly averages, 1923 to 1935, inclusive, and by months, January to December 1935, inclusive, are presented in table 3. Indexes for the same periods, where available, are also presented for each of the 90 manufacturing industries surveyed and for the 14 major groups and 2 subgroups into which they are classified.

The indexes over the period 1923-31 have been adjusted to conform with the annual averages shown in published reports of the Census of Manufactures. Indexes for subsequent months are subject to revision, as adjustments will be made to bring them into conformity with census averages for the year 1933 and later years as information becomes available.

Table 3.—Indexes of Employment and Pay Rolls in Manufacturing Industries

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

Month and year	General index		Iron and steel and their products, not including machinery							
			Group index		Blast furnaces, steel works, and rolling mills		Bolts, nuts, washers, and rivets		Cast-iron pipe	
	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
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
1935 average.....	82.2	70.3	73.0	58.8	73.7	62.0	79.6	64.9	50.3	28.4
<i>1935</i>										
January.....	78.8	64.3	67.8	51.9	69.4	53.9	80.8	62.3	49.9	26.8
February.....	81.4	69.1	70.7	59.0	72.9	63.8	78.0	63.8	48.6	25.6
March.....	82.5	70.8	71.8	59.3	74.0	63.3	78.3	66.1	48.6	25.1
April.....	82.6	70.8	72.7	59.4	73.7	62.3	80.1	67.6	47.3	26.3
May.....	81.2	68.5	72.4	58.3	73.6	61.1	80.1	65.1	49.1	27.4
June.....	79.7	66.4	71.8	55.7	72.4	56.8	77.3	57.4	50.9	29.0
July.....	79.7	65.4	71.3	52.6	71.7	52.4	75.5	54.2	51.6	28.3
August.....	82.0	69.7	73.2	59.4	73.7	61.6	77.1	61.3	51.2	29.1
September.....	83.7	72.2	74.7	62.7	74.4	64.2	78.8	63.7	51.9	29.9
October.....	85.3	75.0	76.4	65.5	75.6	66.1	81.7	70.8	50.7	28.9
November.....	85.0	74.5	76.8	65.1	76.2	66.4	83.2	69.6	51.2	30.4
December.....	84.6	76.6	76.6	68.8	77.0	72.0	83.7	76.3	52.8	34.1
Iron and steel and their products, not including machinery—Continued										
Month and year	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- 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
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
1935 average.....	77.9	60.8	61.0	47.6	53.6	46.8	84.3	52.8	52.6	36.2
<i>1935</i>										
January.....	75.8	55.5	57.4	45.3	51.6	41.7	67.0	40.4	47.9	31.0
February.....	78.4	60.0	61.1	51.0	56.2	49.6	70.2	42.9	49.6	33.1
March.....	80.1	61.2	61.7	51.6	56.5	47.9	72.4	44.8	50.3	33.5
April.....	80.3	60.1	62.8	52.2	54.4	46.3	73.9	46.1	50.2	33.8
May.....	78.3	59.6	60.0	47.5	53.2	42.3	78.3	49.0	51.4	34.5
June.....	77.4	59.3	57.6	41.5	51.4	42.9	82.3	50.3	51.5	34.6
July.....	71.2	54.1	56.9	38.5	49.5	40.3	90.3	53.5	49.4	32.3
August.....	75.6	57.1	57.9	42.3	48.5	39.4	93.4	58.7	53.0	36.4
September.....	76.6	59.8	61.2	46.1	51.8	46.0	96.0	62.0	54.7	39.2
October.....	79.3	64.3	63.2	48.6	55.6	52.0	98.0	65.1	57.8	43.4
November.....	80.9	67.9	65.2	51.5	56.8	55.7	95.6	60.0	58.7	41.4
December.....	80.9	71.2	67.1	55.5	57.6	57.4	94.0	61.2	57.0	40.7

¹ Data not available.

Table 3.—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- 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
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	83.3	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
1935 average	98.6	76.1	56.6	42.1	94.1	91.5	65.2	61.8	126.2	113.7
1935										
January	81.0	55.4	55.9	39.5	85.0	80.7	60.9	54.1	120.7	102.7
February	89.0	63.3	53.8	37.6	85.4	77.3	63.3	59.2	122.5	114.2
March	91.8	68.2	55.0	38.7	86.4	83.3	64.3	60.5	124.5	115.1
April	97.4	73.7	55.3	39.8	88.3	85.4	65.4	60.8	128.9	121.5
May	99.1	74.2	56.0	40.9	90.4	87.0	64.3	60.8	127.4	106.9
June	98.5	73.4	56.0	40.7	96.0	93.8	63.9	59.4	122.3	106.7
July	98.2	71.8	56.9	42.2	100.0	97.7	62.3	55.1	116.5	95.0
August	102.0	80.4	57.9	43.9	104.0	103.6	60.0	55.2	118.7	96.3
September	107.3	89.6	58.6	45.6	105.4	105.7	65.0	61.0	117.6	101.2
October	110.1	96.7	59.0	46.0	100.5	100.2	69.0	68.1	132.8	124.0
November	108.5	86.0	58.6	44.7	95.3	91.5	71.3	71.1	138.4	135.5
December	99.8	80.7	56.6	45.0	92.9	91.5	73.2	76.0	144.4	145.7
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- 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
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	138.9
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
1935 average	87.0	70.5	109.2	125.4	104.6	86.0	71.0	58.9	97.5	70.7
1935										
January	79.6	60.8	89.6	97.5	101.7	79.2	65.9	52.4	79.5	54.5
February	82.0	64.1	92.7	100.9	102.1	82.0	67.5	55.0	85.5	59.9
March	84.1	66.9	101.3	113.7	103.0	83.6	69.2	57.2	90.8	64.2
April	85.1	67.6	97.0	108.8	104.6	84.9	70.9	58.4	97.5	69.6
May	84.5	67.8	97.0	110.5	102.7	83.2	70.7	58.2	101.4	74.2
June	84.2	66.9	110.6	127.5	102.4	84.3	69.6	56.1	102.8	74.6
July	85.6	67.5	116.7	135.2	102.7	85.6	69.6	54.7	101.1	72.6
August	87.3	71.2	117.8	137.5	102.0	85.8	70.4	57.8	101.1	73.9
September	91.1	75.2	118.5	136.8	105.0	88.2	73.3	62.1	101.2	74.4
October	98.1	78.4	116.6	136.1	108.0	90.7	75.3	65.2	101.3	75.0
November	98.8	78.9	123.8	145.0	109.5	88.5	75.4	64.6	103.0	76.1
December	93.1	80.7	128.9	155.2	111.4	96.1	74.0	65.1	105.3	79.0

¹ Data not available.

Table 3.—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- 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		
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	90.8	105.9	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		
1935 average.....	74.4	59.5	88.1	76.2	209.6	129.8	64.5	52.9	99.9	85.3		
1935												
January.....	69.2	51.5	73.1	58.2	190.4	111.8	64.1	52.0	101.5	85.3		
February.....	72.0	55.7	76.9	63.2	186.0	103.2	64.8	52.6	98.6	79.5		
March.....	73.5	57.5	79.6	66.5	189.0	110.6	64.8	52.3	95.9	79.7		
April.....	74.3	58.0	81.8	67.8	182.4	107.0	65.8	51.6	93.6	78.0		
May.....	73.8	57.9	83.0	70.1	168.0	101.5	63.6	51.6	95.8	80.2		
June.....	72.8	56.2	85.1	71.8	165.5	100.9	64.0	52.3	96.3	77.7		
July.....	73.4	56.7	89.0	75.8	185.0	112.9	63.4	51.2	97.1	79.4		
August.....	74.0	60.0	91.9	80.5	213.8	133.9	62.6	50.5	97.6	80.0		
September.....	76.0	62.2	96.4	85.2	254.9	166.3	62.9	50.4	101.7	92.3		
October.....	76.8	64.6	98.5	89.5	279.1	185.8	64.3	54.4	105.2	96.6		
November.....	77.6	65.3	100.1	90.2	271.6	179.8	66.0	54.4	107.5	99.3		
December.....	79.0	68.5	101.5	96.0	230.0	143.7	68.0	61.1	107.5	96.0		
Transportation equipment												
Month and year	Group index		Aircraft		Automobiles		Cars, electric and steam railroad		Locomotives		Shipbuilding	
	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
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	70.2	(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
1935 average.....	95.1	88.0	398.3	326.4	108.9	100.2	44.3	45.1	26.2	11.6	74.8	64.1
1935												
January.....	92.4	79.4	308.5	251.3	108.1	92.2	34.2	31.7	30.3	13.2	68.3	56.2
February.....	100.0	94.7	323.9	265.4	117.5	110.3	43.6	43.4	30.9	13.6	72.8	59.7
March.....	103.6	98.2	329.1	277.6	119.5	112.7	52.2	54.5	32.5	14.6	74.9	65.0
April.....	104.8	102.7	356.1	291.5	119.9	117.1	59.1	65.1	32.3	15.0	74.6	62.0
May.....	102.7	94.2	392.0	317.7	116.4	105.1	60.3	65.8	30.1	13.8	76.4	65.7
June.....	83.7	82.4	416.0	340.3	107.2	83.4	48.2	46.6	28.4	12.6	66.2	55.5
July.....	75.3	74.7	432.6	343.7	100.6	85.7	31.7	28.0	20.0	8.2	71.3	59.4
August.....	83.5	81.6	453.4	378.4	95.1	80.6	32.2	30.4	21.5	9.1	72.4	61.5
September.....	75.8	65.7	442.9	360.3	84.0	72.1	33.5	31.8	21.0	8.9	76.1	65.6
October.....	82.3	86.4	447.3	370.3	105.0	97.7	40.0	41.0	21.3	9.5	79.8	70.4
November.....	101.0	101.5	447.8	358.9	115.5	116.7	45.9	47.4	22.8	10.1	82.3	72.5
December.....	103.4	104.4	430.3	361.0	118.2	118.8	50.1	55.2	22.8	10.6	82.9	77.2

1 Data not available.

Table 3.—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- 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
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	95.7	95.9	100.0	100.0	96.6	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.....	83.8	87.2	89.6	97.9	83.3	86.3	(1)	(1)	(1)	(1)	107.3	115.6
1929 average.....	82.6	90.4	87.8	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	55.1	39.1	64.3	42.1	57.8	35.8
1933 average.....	52.0	41.7	66.3	55.1	50.9	40.8	62.2	41.4	71.8	50.9	64.1	41.3
1934 average.....	55.5	48.1	66.0	58.0	54.7	47.5	76.1	56.0	74.9	56.9	74.6	53.9
1935 average.....	53.7	50.6	65.3	59.7	52.8	50.0	84.8	67.5	78.2	68.3	81.8	64.5
<i>1935</i>												
January.....	51.6	43.8	65.3	58.0	50.6	42.9	78.3	58.7	72.3	58.1	75.4	58.3
February.....	52.9	48.0	65.9	59.7	51.9	47.2	81.6	63.7	76.8	66.8	80.8	63.2
March.....	53.6	49.6	65.8	60.7	52.7	48.9	83.0	65.0	79.0	69.6	82.0	64.0
April.....	52.9	50.7	65.6	60.4	52.0	50.1	83.4	64.7	78.7	69.3	81.8	64.1
May.....	53.6	52.5	65.7	60.2	52.7	52.0	82.9	63.7	78.3	68.0	80.8	61.5
June.....	53.8	51.0	65.6	59.0	52.9	50.5	81.8	62.9	76.2	64.6	78.9	60.0
July.....	53.5	48.2	65.2	58.8	52.6	47.5	80.2	59.9	74.6	58.3	77.4	57.5
August.....	52.8	49.0	65.3	59.6	51.9	48.3	82.0	61.7	75.5	65.8	78.2	61.1
September.....	52.6	49.1	64.6	59.1	51.7	48.5	86.9	70.9	79.1	69.6	81.8	65.8
October.....	55.1	53.1	64.5	60.0	54.4	52.7	91.9	78.4	82.7	76.0	86.8	72.5
November.....	55.7	54.5	65.1	59.3	55.0	54.2	83.1	78.5	83.0	77.0	89.0	72.9
December.....	55.8	57.1	64.8	61.8	55.1	56.9	92.3	79.4	82.1	76.7	88.5	73.4

Month and year	Nonferrous metals and their products—Continued											
	Clocks, watches, and time-recording devices		Jewelry		Lighting equipment		Silverware and plated ware		Smelting and refining—copper, lead, and zinc		Stamped and enameled ware	
	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
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	78.0	52.0
1934 average.....	70.1	55.7	67.5	52.2	64.4	51.9	68.9	50.3	68.1	42.1	96.8	71.6
1935 average.....	83.7	71.4	73.5	57.3	74.3	65.7	70.4	54.3	80.9	53.8	107.2	87.5
<i>1935</i>												
January.....	77.1	56.4	68.5	50.8	66.3	54.8	67.8	47.5	73.6	46.5	99.6	76.2
February.....	78.0	62.9	70.6	54.0	68.3	57.4	67.5	51.5	75.0	48.0	105.4	85.2
March.....	78.8	65.7	70.5	53.9	69.8	57.0	69.0	52.5	75.7	48.3	108.4	89.7
April.....	79.9	64.9	69.4	51.4	70.1	59.0	71.7	51.2	77.1	49.8	109.1	88.0
May.....	80.5	64.7	65.8	49.8	69.2	58.2	73.9	57.0	79.5	51.1	108.9	83.3
June.....	80.7	67.2	65.5	49.5	68.9	59.8	73.4	57.1	81.8	53.2	102.5	77.6
July.....	80.0	62.5	66.9	47.8	69.0	58.9	65.3	48.1	80.2	53.0	100.4	73.9
August.....	80.7	68.8	72.5	54.8	71.7	64.2	69.8	52.0	80.8	53.2	101.9	82.3
September.....	87.3	77.0	83.0	68.2	78.1	69.5	69.8	56.0	83.7	56.1	106.2	89.8
October.....	92.1	87.0	89.0	76.8	86.9	81.6	72.4	59.9	85.7	58.6	112.7	99.9
November.....	94.4	90.7	84.0	65.4	86.9	83.5	73.0	60.5	88.0	61.9	116.2	101.0
December.....	94.5	88.8	76.0	65.1	86.9	84.7	71.3	58.7	89.7	65.9	117.0	102.8

¹ Data not available.

Table 3.—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		
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	95.4	96.2	96.4	98.8	99.3	98.8	99.2	100.0	100.0		
1925 average.....	100.4	101.6	105.7	103.7	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	100.7	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	94.4	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	65.0	41.9	36.8	23.3	33.4	21.4	97.2	50.1		
1935 average.....	52.6	39.9	70.9	52.5	43.5	33.0	34.5	24.2	99.0	58.8		
<i>1935</i>												
January.....	47.1	31.7	64.1	43.5	35.9	23.0	30.9	19.1	95.6	52.7		
February.....	49.4	34.8	66.9	47.1	37.9	25.3	32.7	21.4	96.3	54.2		
March.....	50.6	36.3	69.1	49.7	38.3	25.8	33.5	22.4	99.7	52.3		
April.....	51.7	37.5	68.6	49.2	39.7	27.7	34.8	23.7	99.2	57.9		
May.....	50.9	34.8	67.0	47.1	40.7	29.1	34.0	20.1	99.0	57.3		
June.....	48.9	36.3	67.1	48.5	41.9	31.5	30.9	20.9	98.9	59.9		
July.....	51.9	38.3	69.1	48.4	44.8	34.2	33.9	23.3	98.9	57.5		
August.....	55.3	44.4	73.4	56.0	47.5	37.7	36.6	27.9	99.1	59.3		
September.....	57.0	47.3	76.3	60.2	50.1	40.8	37.4	29.4	100.5	59.3		
October.....	57.5	48.6	77.9	63.0	49.5	41.9	37.6	29.5	100.3	64.6		
November.....	56.0	45.0	77.0	59.3	48.7	39.6	36.0	26.5	100.7	65.8		
December.....	54.5	44.2	74.8	58.4	46.9	39.0	35.1	25.9	99.7	64.4		
Stone, clay, and glass products												
Month and year	Group index		Brick, tile, and terra cotta		Cement		Glass		Marble, granite, 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
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)	82.9	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	68.8	52.9	33.7	20.7	60.2	35.8
1934 average.....	52.8	35.5	29.7	18.0	49.3	30.6	89.8	71.8	30.7	19.4	69.0	44.7
1935 average.....	53.9	39.9	31.0	19.4	49.5	32.1	94.5	82.9	26.5	17.9	69.4	50.1
<i>1935</i>												
January.....	47.2	31.6	24.8	13.0	37.2	21.2	86.5	69.9	20.0	11.0	69.9	46.9
February.....	49.6	34.8	25.7	15.0	37.8	22.1	91.7	75.6	22.6	14.4	71.4	50.3
March.....	51.5	37.4	27.6	16.3	41.6	25.0	93.7	81.3	23.4	15.2	72.9	52.4
April.....	53.2	39.3	27.6	16.3	50.0	31.9	94.2	82.7	26.5	18.2	73.4	53.4
May.....	55.0	40.3	29.6	17.7	57.0	36.8	94.8	81.6	28.5	21.2	71.5	50.3
June.....	55.7	40.5	32.1	19.3	60.1	40.1	95.2	82.0	27.5	19.1	66.8	46.1
July.....	54.7	38.9	32.9	20.2	57.5	37.9	92.7	77.0	30.0	20.4	62.4	41.5
August.....	55.9	40.9	33.8	21.2	53.8	35.8	95.7	82.3	29.6	20.5	67.0	46.6
September.....	55.8	42.2	34.0	22.5	51.9	35.2	95.8	85.6	27.9	19.0	69.5	50.3
October.....	56.7	44.5	35.3	24.0	52.9	35.1	97.5	90.9	27.8	19.8	68.6	53.3
November.....	56.4	43.9	34.6	23.4	49.6	33.3	98.4	91.2	27.4	17.7	70.0	54.6
December.....	55.2	44.6	33.9	23.3	45.0	31.1	97.8	94.2	27.1	18.5	69.1	55.9

1 Data not available.

Table 3.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Textiles and their products									
	Group index		Fabric (sub-group)		Carpets and rugs		Cotton goods		Cotton small wares	
	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
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	98.5	(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	85.6	86.0	79.4	74.2	59.7	80.7	69.4	(¹)	(¹)
1931 average	87.2	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	87.9	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
1935 average	95.2	79.7	93.3	79.4	79.4	72.2	89.4	74.1	86.0	74.7
1935										
January	95.2	78.5	95.8	82.2	66.5	55.5	96.3	81.8	84.9	73.7
February	98.4	84.5	97.2	84.5	69.7	60.5	96.7	82.8	90.9	82.0
March	99.2	86.8	96.4	83.3	75.4	68.3	95.5	80.6	90.5	79.6
April	97.2	82.4	93.3	78.0	79.1	74.2	91.9	74.0	90.6	78.7
May	93.5	75.5	91.0	74.9	79.7	73.7	88.0	70.7	89.2	75.7
June	90.4	70.9	89.4	72.0	81.3	76.7	85.1	65.6	81.2	65.9
July	87.8	68.4	87.5	70.1	82.7	75.8	82.3	64.2	79.9	65.2
August	92.9	78.9	89.9	76.5	83.7	80.6	81.6	64.8	77.1	64.3
September	95.9	84.6	92.1	80.4	85.9	83.4	84.8	70.7	82.3	71.8
October	97.7	84.5	94.6	83.3	84.3	73.8	88.0	75.8	85.3	75.8
November	97.0	79.7	96.1	82.6	82.6	70.5	90.6	76.8	89.4	78.6
December	96.9	81.9	96.4	85.3	82.3	73.5	92.2	81.2	90.5	84.5
Textiles and their products—Continued										
Month and year	Dyeing and finishing textiles		Hats, fur-felt		Knit goods		Silk and rayon goods		Woolen and worsted goods	
	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
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	90.5	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	110.0	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	64.5
1934 average	106.2	84.2	80.1	74.3	107.6	98.6	75.4	60.0	72.4	52.5
1935 average	110.4	89.9	83.1	78.4	112.4	108.2	73.7	62.5	95.4	75.4
1935										
January	117.1	102.7	79.3	69.3	109.2	106.2	80.7	68.4	91.8	73.1
February	117.8	100.6	82.1	81.2	112.5	112.1	81.3	70.0	93.9	74.9
March	116.9	100.3	84.0	83.1	114.5	114.6	76.5	65.6	92.4	72.5
April	114.6	95.7	84.9	71.2	114.3	110.3	71.0	59.6	87.0	66.5
May	110.0	86.2	80.6	68.5	112.0	102.0	65.9	54.5	91.1	71.2
June	107.3	78.9	74.7	67.6	108.1	93.7	63.1	51.5	96.7	76.9
July	101.3	73.5	81.1	82.1	103.9	85.8	68.2	55.4	94.4	74.6
August	102.9	84.3	90.5	99.9	110.4	105.5	75.5	65.1	97.3	76.9
September	104.7	86.0	88.7	91.9	114.0	114.8	78.0	67.2	95.9	75.8
October	109.0	88.4	84.8	71.1	117.4	120.8	77.6	68.2	98.5	79.0
November	111.7	88.2	82.8	69.6	117.6	120.0	72.5	60.9	103.1	79.4
December	111.0	93.5	83.6	84.9	115.2	113.0	74.0	63.9	102.4	84.3

¹ Data not available.

Table 3.—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
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	95.1	95.6	94.3	100.0	100.1	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	132.6	90.0	96.7	125.7	139.5
1928 average.....	108.3	107.5	101.3	95.5	133.7	142.6	(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	95.6	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
1935 average.....	95.3	75.6	90.9	70.7	121.9	92.0	88.4	82.1	103.8	72.1
<i>1935</i>										
January.....	89.4	66.6	83.9	57.0	117.3	87.8	90.8	85.9	94.4	60.0
February.....	96.8	79.5	91.8	71.8	125.1	101.6	90.3	90.5	108.0	75.2
March.....	101.4	88.5	94.6	82.0	133.6	111.3	93.7	91.4	111.6	80.4
April.....	101.8	86.4	94.7	82.5	134.8	103.9	93.8	91.3	111.3	76.7
May.....	95.3	72.1	87.6	64.4	123.9	89.4	91.1	83.0	107.3	71.0
June.....	88.6	64.6	86.6	63.7	108.4	71.3	87.5	75.1	100.3	63.2
July.....	84.4	60.8	88.9	65.6	94.7	63.0	85.4	73.1	91.5	55.7
August.....	96.0	78.8	93.6	74.3	121.4	97.9	85.3	72.5	98.0	67.4
September.....	100.5	87.8	95.4	80.4	130.1	109.0	87.6	84.4	102.4	74.6
October.....	100.5	81.8	94.8	74.8	131.7	103.3	87.0	81.3	104.2	80.8
November.....	94.8	69.2	88.9	64.4	121.9	81.3	85.1	78.7	109.7	84.1
December.....	93.8	70.5	89.7	67.1	120.4	84.0	83.3	77.5	106.4	76.4
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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
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	96.8	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	85.3	62.9	83.9	61.5	81.3	66.8
1934 average.....	70.4	60.6	99.8	59.7	87.8	73.9	87.0	71.7	91.1	80.2
1935 average.....	59.3	52.4	103.7	100.6	87.9	76.4	86.1	70.8	95.5	94.4
<i>1935</i>										
January.....	62.4	54.0	90.4	77.8	88.3	76.4	87.0	72.5	94.0	88.5
February.....	66.5	58.7	99.8	95.7	91.6	82.5	90.7	79.2	95.6	92.6
March.....	70.2	70.5	104.3	101.3	92.7	84.1	92.1	80.7	95.5	94.2
April.....	69.6	70.0	104.3	104.4	91.5	79.1	90.8	75.1	94.5	91.4
May.....	61.6	48.6	106.5	103.9	86.7	72.3	85.2	66.7	93.2	90.0
June.....	55.2	47.2	98.4	94.7	83.0	70.9	80.6	64.7	92.8	91.1
July.....	42.3	30.3	99.0	91.2	87.3	77.5	85.8	83.1	93.5	91.2
August.....	57.6	52.5	105.9	102.9	90.1	81.7	89.1	77.7	94.4	94.2
September.....	66.8	76.1	109.5	109.1	88.8	76.9	87.3	71.1	95.2	95.2
October.....	60.4	49.2	110.9	111.6	86.6	73.3	84.0	65.9	97.0	99.4
November.....	50.1	34.9	109.8	111.3	82.3	66.6	77.8	56.1	100.3	101.4
December.....	49.3	36.3	105.6	103.7	86.3	75.4	82.8	66.7	100.4	103.7

† Data not available.

Table 3.—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- 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
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	101.8	99.6
1935 average.....	101.2	91.6	112.2	96.9	160.4	159.7	72.0	56.3	107.6	120.2
1935										
January.....	94.9	83.7	106.7	89.6	144.6	133.4	68.3	51.7	65.9	68.6
February.....	94.4	83.8	111.3	93.7	145.7	137.2	67.6	52.2	63.1	69.0
March.....	93.2	83.3	110.9	93.7	151.3	146.9	67.8	52.4	59.2	64.3
April.....	95.4	85.9	111.8	95.5	156.0	153.6	70.4	54.7	76.5	83.7
May.....	95.8	87.3	112.7	97.3	161.6	162.5	73.2	57.4	74.7	83.7
June.....	95.9	90.9	114.2	99.6	170.0	173.4	77.2	60.8	89.5	102.7
July.....	103.7	96.9	111.5	96.5	178.5	192.7	78.0	61.4	150.0	177.8
August.....	111.8	100.9	111.7	95.7	179.0	189.8	76.9	60.4	195.7	230.1
September.....	118.2	105.5	114.6	101.6	171.9	171.0	74.9	59.8	230.7	244.1
October.....	108.5	98.0	114.6	100.8	162.9	157.7	71.5	55.5	136.1	151.4
November.....	100.5	91.9	113.6	99.7	153.0	151.2	70.1	54.4	82.4	89.8
December.....	96.8	90.5	112.4	99.4	150.1	147.4	68.5	55.0	66.8	77.6

Month and year	Food and kindred products—Continued											
	Confectionery		Flour		Ice cream		Slaughtering and meat packing		Sugar, beet		Sugar refin- ing, cane	
	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
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	85.5	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	63.7	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
1935 average.....	79.5	70.1	75.3	65.8	71.0	57.9	82.8	76.0	90.0	77.2	81.6	71.0
1935												
January.....	78.6	67.4	76.2	63.8	60.8	48.6	94.3	84.0	42.7	39.3	84.4	71.1
February.....	80.3	70.3	76.5	66.1	61.3	49.6	87.2	76.5	35.7	37.1	81.5	69.6
March.....	82.2	72.9	75.0	63.5	64.2	52.4	82.9	73.5	35.1	36.4	81.0	69.6
April.....	77.6	64.7	74.2	62.5	69.1	55.5	81.5	74.3	39.5	39.0	83.8	76.2
May.....	74.3	63.4	73.5	62.3	77.7	62.2	80.6	74.0	44.6	42.1	83.6	75.7
June.....	72.4	63.3	73.8	62.9	84.6	68.4	81.4	74.8	43.3	40.7	83.3	73.6
July.....	68.4	57.0	74.6	64.1	87.6	71.8	80.4	75.0	47.2	43.6	85.5	72.7
August.....	69.8	60.4	76.3	66.1	85.9	69.3	79.4	73.2	77.1	70.7	82.0	71.3
September.....	87.9	86.1	77.0	72.6	73.8	60.2	78.9	74.1	84.6	82.8	78.0	70.2
October.....	90.6	81.1	77.1	73.7	65.7	54.0	79.7	75.6	245.8	170.2	81.3	68.3
November.....	85.2	73.7	75.8	67.7	61.5	51.2	82.8	77.7	238.9	202.7	76.8	62.4
December.....	86.6	81.3	73.2	64.5	59.8	51.1	84.3	79.7	145.2	122.0	77.6	70.7

¹ Data not available.

Table 3.—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- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls
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.....	90.9	92.1	93.1	94.0	90.4	91.8	104.1	110.8
1927 average.....	93.4	91.9	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	94.8	79.6
1935 average.....	57.9	46.1	67.8	66.2	56.6	43.5	97.0	85.3
<i>1935</i>								
January.....	56.5	41.5	73.5	68.5	54.3	38.1	95.6	83.4
February.....	57.3	40.8	72.6	66.7	55.3	37.5	96.7	84.1
March.....	57.8	44.3	70.6	67.7	56.1	41.3	96.9	84.5
April.....	56.8	43.1	68.7	64.9	55.3	40.3	96.9	84.6
May.....	56.6	43.8	66.3	64.5	55.3	41.2	96.5	84.8
June.....	57.8	46.8	66.6	67.2	56.7	44.2	95.6	83.4
July.....	57.6	47.6	65.8	66.8	56.5	45.1	95.5	81.4
August.....	57.9	46.6	64.4	65.1	57.0	44.2	95.9	83.0
September.....	58.9	49.4	65.3	66.7	58.1	47.2	97.3	86.2
October.....	60.0	50.5	66.2	65.4	59.2	48.6	98.3	88.2
November.....	59.7	48.9	66.2	63.7	58.8	47.0	98.7	88.0
December.....	58.2	49.6	67.1	67.1	57.1	47.4	99.7	91.8

Month and year	Paper and printing—Continued							
	Boxes, paper		Paper and pulp		Printing and publishing, book and job		Printing and publishing, newspapers and periodicals	
	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls	Em- p- loy- ment	Pay rolls
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	105.3	79.2	85.7	72.0	98.5	87.4
1935 average.....	86.7	80.5	109.1	88.6	87.8	78.0	99.2	90.2
<i>1935</i>								
January.....	83.2	74.9	106.8	83.5	87.7	78.1	98.4	89.5
February.....	84.6	76.5	108.7	86.8	89.3	78.1	98.0	88.8
March.....	86.3	79.6	109.7	88.4	87.4	77.0	98.8	89.2
April.....	85.7	78.1	109.8	87.3	87.1	77.1	99.4	90.5
May.....	84.5	75.5	109.9	86.9	86.2	78.8	99.6	90.4
June.....	83.1	74.5	109.1	87.4	85.1	75.6	99.0	89.4
July.....	83.3	73.9	108.9	85.1	86.6	75.8	97.0	85.3
August.....	85.3	78.7	108.8	87.2	87.6	76.5	96.5	86.3
September.....	88.8	85.3	109.2	90.7	87.6	77.6	99.4	90.5
October.....	92.6	91.8	109.1	93.3	88.2	78.3	100.7	92.1
November.....	92.9	89.1	109.0	91.7	89.1	78.4	101.2	93.1
December.....	90.4	87.6	110.0	94.4	91.2	84.7	102.4	96.8

Table 3.—Indexes of Employment and Pay Rolls in Manufacturing Industries—Continued

Month and year	Chemicals and allied products									
	Group index		Other than petroleum refining (subgroup)		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
1923 average	102.9	102.2	102.9	102.1	105.7	101.8	87.8	83.9	97.7	91.8
1924 average	96.7	96.3	96.9	96.8	98.0	98.1	100.5	94.9	96.8	97.5
1925 average	106.4	101.5	100.2	101.0	95.3	100.1	111.7	121.2	105.5	110.7
1926 average	106.7	108.9	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
1935 average	109.9	96.5	110.0	95.7	106.9	97.7	70.8	71.5	98.9	95.8
1935										
January	108.4	91.6	108.2	90.5	103.0	90.8	76.0	69.8	101.3	96.8
February	109.4	93.2	109.9	92.5	102.8	91.0	70.7	68.9	102.4	97.9
March	112.7	96.1	113.9	96.0	103.4	93.7	74.9	75.1	98.9	95.9
April	111.5	95.9	112.3	95.6	106.9	96.2	53.6	49.4	98.9	97.7
May	108.0	94.8	108.0	94.1	107.1	97.8	42.3	38.3	96.8	93.9
June	107.2	95.0	106.4	93.7	108.1	98.0	43.3	42.0	95.8	93.7
July	106.8	95.4	105.7	93.8	109.0	101.6	46.7	48.3	95.1	92.3
August	107.9	97.0	106.9	95.4	107.7	100.8	59.6	62.5	97.3	92.0
September	110.7	99.0	110.8	97.8	108.0	98.8	86.1	88.8	99.5	97.3
October	113.1	100.6	113.7	100.1	108.9	100.1	107.4	112.4	101.6	99.9
November	112.4	99.1	112.9	99.2	109.5	101.9	98.1	104.2	100.3	94.7
December	111.1	100.8	111.4	99.8	108.8	102.1	90.5	98.0	98.8	97.2

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
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
1935 average	87.4	74.0	101.7	84.6	107.2	89.9	342.8	252.0	101.0	95.8	109.6	99.2
1935												
January	88.1	68.3	111.0	83.6	98.7	79.4	338.0	245.4	99.1	90.7	109.0	95.2
February	89.3	75.5	120.3	91.1	102.2	83.7	346.8	252.3	102.1	94.3	107.3	95.3
March	88.3	73.0	167.5	130.4	104.2	86.2	348.9	252.3	103.3	95.9	107.9	96.4
April	84.6	69.3	155.3	119.9	109.2	91.9	334.9	242.7	102.7	97.0	108.3	96.9
May	87.3	74.4	110.1	91.7	112.6	95.1	326.9	237.8	98.2	93.8	108.3	96.8
June	86.5	72.6	79.2	69.2	112.5	94.0	325.9	240.5	99.5	95.8	110.6	99.3
July	86.1	70.0	68.0	62.0	108.6	88.9	327.9	240.2	99.3	94.4	111.2	100.5
August	86.5	76.9	69.5	63.3	105.5	87.8	340.3	253.4	98.0	93.8	112.2	102.5
September	86.2	71.3	82.6	77.1	106.7	89.5	353.6	264.1	103.1	99.4	110.1	102.8
October	89.8	80.2	88.8	78.6	109.2	94.8	356.8	263.5	105.4	101.3	110.9	102.2
November	89.9	80.2	83.9	72.5	109.3	94.0	356.1	263.3	103.7	98.3	110.3	98.8
December	86.7	76.2	84.5	75.2	107.9	93.7	357.9	268.0	97.3	94.6	109.6	104.0

1 Data not available.

Table 3.—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
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.....	74.7	50.2	55.1	42.5	112.2	79.5	64.7	41.7
1934 average.....	84.1	63.7	60.5	48.8	122.4	94.3	75.2	56.4
1935 average.....	82.1	68.7	56.6	48.4	124.1	106.1	72.3	60.4
<i>1935</i>								
January.....	83.1	69.4	59.2	51.3	120.4	102.0	74.7	62.2
February.....	84.2	71.9	59.1	49.4	123.9	104.9	75.3	65.7
March.....	84.5	70.6	58.2	49.8	126.1	107.1	75.1	62.7
April.....	83.6	71.2	52.9	43.8	126.7	106.7	74.9	65.4
May.....	82.4	66.5	53.1	43.2	124.8	104.6	73.6	58.7
June.....	80.9	64.9	52.9	41.8	120.5	97.7	72.9	58.9
July.....	78.3	61.3	51.0	41.7	117.6	94.9	70.3	54.2
August.....	79.1	64.3	57.6	49.4	117.1	98.6	69.7	55.8
September.....	81.1	68.8	58.2	50.4	123.2	108.9	70.3	59.0
October.....	82.8	70.8	58.9	52.9	128.7	116.6	70.7	59.0
November.....	82.7	70.3	58.5	50.1	130.7	113.7	69.8	59.9
December.....	83.0	74.5	60.1	56.6	129.2	117.2	70.5	63.8

¹ Data not available.

Trade, Public Utility, Mining, Service Industries, and Private Building Construction

Employment, pay rolls, and earnings in December 1935

COMPARED with November, 8 of the 17 nonmanufacturing industries surveyed by the Bureau of Labor Statistics show increases in employment in December and 13 show gains in pay rolls. The largest percentage gains (23.0 in employment and 95.3 in pay rolls) were reported by anthracite mining. These increases largely offset the sharp declines in this industry in November. Bituminous-coal mines reported 3.9 percent more employees, and employment in metalliferous mining advanced 1.8 percent. Gains in the metal mining industry have been reported each month since July. Employment in retail trade climbed 10.3 percent, largely because of the 31.6-percent gain in the subgroup, general merchandising (department, variety, and general-merchandising stores and mail-order houses), which took on additional employees to handle the Christmas trade. Continuing the upward trend that has been in evidence since July, employment in the wholesale trade increased 0.4 percent in December. This increase carried the employment index for wholesale establishments

to the highest level since February 1931. Employment in brokerage firms in December again advanced (3.5 percent), reflecting increased business in the security markets.

Seasonal declines in employment are shown in quarrying and non-metallic mining, private building construction, and dyeing and cleaning. The decline in private building construction during the month, however, was relatively moderate for this time of year.

In the aggregate there were 351,000 more employees on the pay rolls of the 17 nonmanufacturing industries in December than in November, and weekly wage disbursements increased \$9,000,000. A comparison with December 1934 shows 150,000 more employees in these industries in December 1935 and \$10,800,000 more in weekly pay rolls.

Indexes of employment and pay rolls, per capita weekly earnings, average hours worked per week, and average hourly earnings in December 1935 for 13 of the trade, public utility, mining, and service industries, together with percentage changes from November 1935 and December 1934, are shown in table 4. Similar information, except indexes of employment and pay rolls, is also presented for private building construction. Man-hour data and indexes of employment and pay rolls are not available for banking, brokerage, or insurance establishments, but the table shows percentage changes in employment, pay rolls, and per capita weekly earnings for these three industries.

Table 4.—Employment, Pay Rolls, Hours, and Earnings, in Selected Nonmanufacturing Industries, December 1935

Industry	Employment			Pay roll			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹			
	Index December 1935 (average 1929 = 100)	Percentage change from—		Index December 1935 (average 1929 = 100)	Percentage change from—		December 1935	Percentage change from—		December 1935	Percentage change from—		December 1935	Percentage change from—		
		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934		November 1935	December 1934	November 1935
Coal mining:																
Anthracite.....	57.3	+23.0	-7.0	55.4	+95.3	+5.9	\$28.08	+58.7	+13.9	33.5	+50.2	+8.9	83.1	+3.2	+1.6	
Bituminous.....	79.1	+3.9	-8	69.5	+6.0	+21.9	22.75	+2.0	+22.9	28.7	+4.4	+14.6	80.6	-1.7	+9.5	
Metaliferous mining.....	53.5	+1.8	+20.5	43.2	+9.0	+46.9	24.91	+7.1	+21.9	42.5	+6.8	+21.2	58.5	+3	+2.1	
Quarrying and nonmetallic mining.....	43.1	-7.7	+2.4	29.7	-7.4	+25.8	17.39	+5	+22.8	35.4	-8	+16.8	48.8	+1.5	-5	
Crude-petroleum producing.....	72.2	-1.1	-8.3	59.9	+5.2	+7	30.09	+6.4	+9.8	38.5	+6.4	+6.1	78.2	-3	-5	
Public utilities:																
Telephone and telegraph.....	69.6	-3	-1	75.6	+1.0	+3.3	29.25	+1.4	+3.4	38.5	-1.5	-1.0	78.4	+2.8	+5.3	
Electric light and power and manufactured gas.....	86.8	-9	+3.8	86.0	+3.2	+9.8	31.48	+4.0	+5.8	40.0	+1.8	+3.5	78.5	+1.8	+2.4	
Electric-railroad and motor-bus operation and maintenance.....	70.5	-8	-7	66.1	+3.6	+6.1	29.81	+4.3	+7.0	47.0	+4.0	+4.4	62.6	+8	+2.4	
Trade:																
Wholesale.....	86.8	+4	+2.1	68.6	+2.6	+5.9	27.43	+2.2	+3.7	42.4	+1.7	+3.7	64.5	+5	-8	
Retail.....	93.3	+10.3	+2.4	69.4	+9.5	+4.8	19.62	-2.4	+2.3	43.3	+2.1	+2.5	49.1	-3.5	-3	
General merchandising.....	133.7	+31.6	+4.1	104.9	+27.9	+6.0	16.79	-2.8	+1.8	41.9	+6.6	+3.9	41.4	-8.6	-9	
Other than general merchandising.....	82.7	+3.2	+1.7	62.1	+4.1	+4.5	22.68	+8	+2.7	43.9	+1.2	+2.1	52.4	-8	-1	
Hotels (year-round) ²	80.8	-8	+1.0	64.2	-9	+3.2	13.75	-1	+2.2	48.3	0	+2.6	28.2	0	+1	
Laundries.....	81.1	-2	+2.0	67.5	+1.1	+6.6	15.71	+1.3	+4.5	41.2	+1.5	+5.0	36.6	0	+1	
Dyeing and cleaning.....	73.4	-3.8	+1.4	52.9	-4.4	+3.5	17.74	-6	+2.1	41.2	+2	-2.0	42.6	-5	-7	
Banks.....	(?)	+2	+2.1	(?)	+3	+1.9	31.71	+1	-2	(?)	(?)	(?)	(?)	(?)	(?)	
Brokerage.....	(?)	+3.5	+14.6	(?)	+5.0	+19.4	35.71	+1.4	+4.2	(?)	(?)	(?)	(?)	(?)	(?)	
Insurance.....	(?)	+1	+7	(?)	+1.2	+2.7	36.59	+1.1	+2.0	(?)	(?)	(?)	(?)	(?)	(?)	
Building construction.....	(?)	-6.7	+4.9	(?)	-4.3	+14.5	25.10	+2.6	+9.6	31.2	+3.3	+14.9	80.5	-4	-3.0	

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

² Cash payments only; the additional value of board, room, and tips cannot be computed.

³ Not available.

Indexes of employment and pay rolls in trade, public utility, mining, and service industries, January 1934 to December 1935

INDEXES of employment and pay rolls in 13 trade, public utility, mining, and service industries and 2 subdivisions under retail trade are shown by months in table 5 for the period January 1934 to December 1935.

Table 5.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1934 to December 1935¹

[12-month average, 1929=100]

Month	Anthracite mining				Bituminous-coal mining				Metalliferous mining				Quarrying and non-metallic mining			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935
January.....	64.1	62.9	73.2	57.5	75.8	80.0	51.3	59.6	39.6	44.3	25.4	30.1	39.7	36.9	21.3	20.8
February.....	63.2	64.4	65.8	64.3	76.1	81.1	54.6	66.1	40.3	44.3	26.0	29.9	38.8	37.3	21.0	22.2
March.....	67.5	51.4	82.4	38.9	77.8	81.6	58.9	67.5	39.8	45.0	25.9	30.9	42.0	40.5	24.1	24.9
April.....	58.2	52.6	51.7	49.9	72.2	74.3	51.4	45.0	41.7	46.0	27.2	31.8	48.7	45.3	29.9	28.9
May.....	63.8	53.5	64.0	49.5	76.7	75.3	54.4	49.1	40.8	44.4	25.6	31.4	54.3	49.5	35.0	32.8
June.....	57.5	56.8	53.3	66.0	76.7	77.9	55.1	64.7	41.0	46.0	26.7	31.5	56.6	50.4	37.0	33.8
July.....	53.6	49.4	42.3	37.5	77.0	70.0	49.7	35.9	39.9	45.2	25.1	31.1	55.6	50.9	35.0	34.4
August.....	49.5	38.7	39.7	28.3	77.1	73.4	50.4	45.8	42.7	46.3	27.0	33.4	54.7	51.0	34.0	36.3
September.....	56.9	46.0	47.0	38.2	78.2	77.1	51.4	60.1	42.3	48.9	25.9	35.4	53.3	50.0	32.4	35.4
October.....	58.5	58.8	48.3	55.9	79.3	74.3	57.6	69.8	43.3	51.6	28.2	38.7	51.8	50.0	32.1	36.5
November.....	60.7	46.6	51.2	28.4	79.8	76.1	58.3	65.5	43.2	52.6	28.5	39.6	49.5	46.7	29.4	32.1
December.....	61.6	57.3	52.3	55.4	79.7	79.1	57.0	69.5	44.4	53.5	29.4	43.2	42.1	43.1	23.6	29.7
Average.....	59.6	53.2	55.9	47.5	77.2	76.7	54.2	58.2	41.6	47.3	26.7	33.9	48.9	46.0	29.6	30.6

Month	Crude-petroleum producing				Telephone and telegraph				Electric light and power and manufactured gas				Electric-railroad and motor-bus operation and maintenance ²			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935
January.....	73.2	74.9	53.0	55.5	70.2	70.5	69.0	73.9	82.2	82.7	73.8	78.0	70.5	71.2	59.2	62.9
February.....	72.4	74.2	50.5	54.9	69.8	70.0	67.9	72.9	81.2	82.2	74.4	78.3	71.0	71.0	60.1	63.1
March.....	72.8	74.0	52.5	56.0	70.0	69.8	70.4	75.3	81.7	82.3	75.6	79.4	71.7	71.3	62.2	63.4
April.....	74.0	74.9	53.4	56.7	70.2	69.7	68.8	73.1	82.4	82.6	76.8	79.0	72.2	71.4	62.9	63.3
May.....	76.7	76.0	56.4	57.8	70.2	70.0	71.4	73.7	83.1	83.3	77.6	79.8	72.6	71.6	63.0	63.6
June.....	80.0	76.7	56.9	59.2	70.4	70.2	71.3	74.4	84.0	83.9	77.8	79.8	73.2	71.7	63.2	63.9
July.....	81.6	77.4	60.0	59.9	71.0	70.3	72.3	75.7	85.0	84.8	81.1	81.5	73.1	71.5	63.8	63.4
August.....	82.7	76.3	61.2	58.9	71.0	70.5	74.0	75.5	85.6	86.8	79.9	82.8	72.8	71.2	62.8	63.3
September.....	81.8	75.1	59.7	60.9	70.9	70.4	72.2	73.8	85.8	86.9	79.3	84.5	72.5	71.0	62.4	64.0
October.....	79.5	74.7	60.8	57.9	70.3	70.0	74.9	74.9	85.8	87.4	80.6	84.4	72.2	71.1	63.0	64.1
November.....	78.8	73.0	59.0	56.9	69.9	69.8	72.2	74.9	85.5	87.6	79.6	83.4	71.8	71.1	61.8	63.8
December.....	78.7	72.2	59.5	59.9	69.7	69.6	73.2	75.6	83.6	86.8	78.3	86.0	71.0	70.5	62.3	66.1
Average.....	77.7	75.0	56.9	57.9	70.3	70.1	71.5	74.5	83.8	84.8	77.9	81.4	72.1	71.2	62.2	63.7

¹ Comparable indexes for earlier years for all of these industries, except year-round hotels, will be found in the November 1934 and subsequent issues of this pamphlet, or the February 1935 and subsequent issues of the Monthly Labor Review. Comparable indexes for year-round hotels will be found in the June 1935 issue of this pamphlet, or the September 1935 issue of the Monthly Labor Review.

² Not including electric-railroad car building and repairing; see transportation equipment and railroad repair-shop groups, manufacturing industries, table 1.

³ Revised.

Table 5.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1934 to December 1935—Continued

Month	Wholesale trade				Total retail trade				Retail trade—general merchandising				Retail trade—other than general merchandising			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935
January.....	80.6	84.2	60.3	63.9	79.8	79.5	56.0	59.7	86.6	87.3	71.1	73.5	78.0	77.4	56.5	56.9
February.....	81.2	84.6	61.0	64.6	79.6	79.2	55.8	59.3	85.0	86.2	68.9	72.3	78.2	77.3	56.7	56.6
March.....	81.8	84.0	62.0	65.2	81.5	80.2	59.8	60.4	90.1	88.6	71.5	74.1	79.3	78.0	57.4	57.6
April.....	82.1	83.2	63.1	64.8	82.5	83.5	61.2	62.5	91.0	94.4	74.0	77.5	80.3	80.7	58.5	59.4
May.....	82.8	82.5	62.6	64.6	82.9	82.2	61.5	62.0	92.0	91.3	74.5	76.3	80.5	79.8	58.8	59.0
June.....	82.3	82.1	62.8	64.6	82.6	82.2	61.4	62.5	90.6	91.2	73.9	76.7	80.5	79.8	58.8	59.5
July.....	82.2	82.1	63.8	64.6	79.0	79.3	60.1	60.5	83.0	85.5	69.5	72.0	77.9	77.7	58.2	58.1
August.....	82.5	82.7	62.7	64.8	77.8	78.0	58.4	59.3	81.2	83.1	66.9	69.5	76.9	76.7	56.6	57.2
September.....	83.5	83.7	63.6	67.2	81.7	81.8	60.6	62.5	91.5	92.2	74.0	77.2	79.1	79.1	57.8	59.4
October.....	84.3	85.7	64.5	66.8	82.0	83.8	61.9	63.2	94.2	97.1	77.3	79.8	79.5	80.3	58.7	59.8
November.....	85.1	86.4	64.2	66.9	83.7	84.6	61.9	63.4	99.9	101.6	80.2	82.0	79.4	80.1	58.1	59.6
December.....	85.0	86.8	64.8	68.6	91.1	93.3	66.2	69.4	128.4	133.7	99.0	104.9	81.3	82.7	59.4	62.1
Average.....	82.8	84.0	63.0	65.5	82.1	82.3	60.9	62.1	92.8	94.3	75.1	78.0	79.2	79.1	58.0	58.8

Month	Year-round hotels				Laundries				Dyeing and cleaning			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935
January.....	76.4	80.3	57.2	62.2	78.5	79.6	61.7	63.9	68.1	70.3	46.8	50.4
February.....	78.9	81.1	60.9	63.5	78.4	79.6	61.7	64.1	68.1	69.6	46.3	49.8
March.....	80.4	80.8	62.2	63.9	79.2	79.7	62.7	64.6	72.4	72.5	51.7	53.5
April.....	81.5	81.1	62.7	63.6	80.5	80.0	64.4	65.5	79.9	79.9	60.8	61.9
May.....	81.8	81.6	62.9	63.7	82.1	81.1	66.9	66.6	84.3	80.9	65.1	61.7
June.....	81.9	81.3	62.9	63.5	84.0	82.3	68.3	68.2	84.9	83.6	64.1	65.7
July.....	80.4	80.3	61.5	62.1	84.6	84.4	68.2	70.9	80.5	81.7	58.9	61.5
August.....	80.0	80.7	60.2	62.0	83.7	84.2	66.6	69.2	78.6	79.4	56.7	58.2
September.....	80.0	81.1	61.0	63.1	82.9	83.0	65.9	67.9	80.0	82.1	59.0	63.1
October.....	80.9	81.6	62.7	64.3	81.7	81.9	64.8	67.1	80.3	80.4	59.1	61.1
November.....	80.6	81.5	62.4	64.8	80.3	81.3	63.7	66.7	75.8	76.3	53.9	55.4
December.....	80.0	80.8	62.2	64.2	79.5	81.1	63.3	67.5	72.4	73.4	51.1	52.9
Average.....	80.2	81.0	61.6	63.4	81.3	81.5	64.9	66.8	77.1	77.5	56.1	57.9

Employment on Class I Railroads

EXCLUSIVE of executives and officials, employment on class I railroads (railroads having operating revenues of \$1,000,000 or over) fell from 984,319 workers in November to 971,465 (preliminary) in December, a decrease of 1.3 percent. Information concerning pay rolls in December was not available at the time this report was prepared. The total compensation of all employees except executives and officials was \$132,687,315 in November as against \$142,107,244 in October, a decrease of 6.6 percent. The figures are based on reports supplied by the Interstate Commerce Commission.

The Commission's preliminary indexes of employment, taking the 3-year average 1923-25 as 100, are 55.1 for December and 55.8 for November. The final October index is 56.9.

Trend of Private Employment by States

CHANGES in employment and pay rolls from November to December 1935 are shown by States in table 6 for all groups combined (except building construction) and for all manufacturing industries combined. Data for nonmanufacturing groups which were formerly published in this table are omitted from the present analysis, but will be furnished on request.

The percentage changes shown in the table, unless otherwise noted, are unweighted—that is, the industries included in the manufacturing group and in the grand total have not been weighted according to their relative importance.

Table 6.—Comparison of Employment and Pay Rolls in Identical Establishments in December 1935, by Geographic Divisions and by States

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

Geographic division and State	Total—All groups					Manufacturing				
	Number of establishments	Number on pay roll December 1935	Percentage change from November 1935	Amount of pay roll (1 week) December 1935	Percentage change from November 1935	Number of establishments	Number on pay roll December 1935	Percentage change from November 1935	Amount of pay roll (1 week) December 1935	Percentage change from November 1935
New England	13,766	838,647	+1.5	\$17,979,867	+4.9	3,128	555,869	-(1)	\$11,354,066	+5.7
Maine.....	775	51,653	+2.9	990,601	+11.1	256	42,591	+3.7	792,585	+14.0
New Hampshire.....	659	34,459	-1.2	681,597	+4.7	181	27,207	-2.3	521,160	+5.8
Vermont.....	463	16,411	-9	331,895	+(1)	124	10,100	-2.4	205,081	+8
Massachusetts.....	<i>8,617</i>	<i>457,532</i>	<i>+1.9</i>	<i>10,019,956</i>	<i>+5.3</i>	<i>1,549</i>	<i>255,860</i>	<i>+1</i>	<i>5,232,390</i>	<i>+6.9</i>
Rhode Island.....	1,240	92,347	+1.1	1,906,978	+9.5	402	70,761	-5.5	1,388,914	+11.7
Connecticut.....	2,012	186,245	+9	4,048,840	+1.0	616	149,350	-4	3,213,936	+1
Middle Atlantic	34,072	1,945,945	+3.0	46,970,308	+6.2	4,963	1,094,126	-8	25,052,729	+9
New York.....	21,405	875,692	+3.7	22,183,544	+4.3	<i>1,963</i>	<i>401,105</i>	-8	<i>10,083,952</i>	<i>+2.4</i>
New Jersey.....	3,764	269,881	-4	6,416,904	+1.5	<i>4,753</i>	<i>232,359</i>	-1.8	<i>5,374,630</i>	+(1)
Pennsylvania.....	8,903	800,372	+3.4	18,369,860	+10.4	<i>2,247</i>	<i>460,662</i>	-4	<i>8,644,147</i>	-(1)
East North Central	18,913	1,898,396	+1.9	46,797,650	+3.8	6,642	1,403,820	+5	35,597,031	+4.3
Ohio.....	8,179	535,070	+2.4	12,944,098	+5.8	2,205	366,509	-3	9,165,382	+4.5
Indiana.....	<i>1,804</i>	<i>206,730</i>	<i>+2.0</i>	<i>4,789,380</i>	<i>+6.0</i>	<i>849</i>	<i>168,884</i>	<i>+1.1</i>	<i>3,954,685</i>	<i>+5.6</i>
Illinois.....	<i>4,433</i>	<i>610,533</i>	<i>+2.0</i>	<i>12,045,026</i>	<i>+4.4</i>	<i>2,060</i>	<i>380,295</i>	<i>+8</i>	<i>7,463,718</i>	<i>+3.4</i>
Michigan.....	3,501	471,870	+1.8	13,070,002	+1.3	779	410,025	+1.0	11,222,303	+5.2
Wisconsin.....	<i>1,006</i>	<i>174,893</i>	<i>+3</i>	<i>3,949,144</i>	<i>+1.8</i>	<i>749</i>	<i>138,107</i>	<i>-1.0</i>	<i>3,188,043</i>	<i>+1.3</i>
West North Central	11,256	402,651	+2.2	8,912,024	+3.5	2,050	178,584	+7	3,920,951	+2.6
Minnesota.....	1,072	85,109	+2	1,981,004	+2.2	347	35,020	-2.4	813,575	-6
Iowa.....	1,732	56,186	+1.7	1,201,568	+4.2	382	27,879	+1.0	583,270	+4.3
Missouri.....	3,281	163,219	+4.1	3,587,649	+6.2	747	78,684	+3.9	1,664,068	+6.8
North Dakota.....	5,240	4,965	-8	113,227	+6	43	666	-4.4	16,840	+1
South Dakota.....	500	5,870	+2.4	129,016	+5.7	35	1,857	+4.7	39,940	+9.9
Nebraska.....	1,683	39,788	+2	724,367	-1.3	155	10,838	-9.8	239,461	-11.4
Kansas.....	<i>1,548</i>	<i>53,614</i>	<i>+2.0</i>	<i>1,175,193</i>	<i>+1</i>	<i>341</i>	<i>23,640</i>	<i>+1</i>	<i>553,797</i>	<i>+1</i>
South Atlantic	11,027	766,794	+2.0	14,261,462	+3.5	2,580	484,627	+4	8,248,292	+3.5
Delaware.....	236	13,399	+2.2	310,670	+5.1	79	8,695	+1.9	196,497	+6.7
Maryland.....	<i>1,529</i>	<i>109,852</i>	<i>+3.0</i>	<i>2,306,126</i>	<i>+3.0</i>	<i>549</i>	<i>69,017</i>	<i>-7</i>	<i>1,403,749</i>	<i>+1.9</i>
District of Columbia.....	1,070	45,487	+0.8	1,068,417	+7.8	37	3,674	-1	124,019	+7
Virginia.....	2,180	102,043	+1.4	1,935,770	+3.2	401	60,755	+4	1,115,910	+4.6
West Virginia.....	1,254	136,230	-6	3,181,864	+1.3	234	53,351	-3	1,246,709	+7.4
North Carolina.....	1,325	148,502	+8	2,204,497	+2.5	571	136,916	+6	2,013,906	+2.4
South Carolina.....	716	67,645	+1.4	939,763	+2.6	191	60,460	+1.0	814,179	+2.4
Georgia.....	1,488	97,988	+5	1,550,824	+3.6	342	72,856	-8	1,043,544	+2.7
Florida.....	1,229	45,648	+9.7	815,531	+13.2	176	18,903	+9.1	289,779	+3.8

See footnotes at end of table.

Table 6.—Comparison of Employment and Pay Rolls in Identical Establishments in December 1935, by Geographic Divisions and by States—Continued

Geographic division and State	Total—All groups					Manufacturing				
	Number of establishments	Number on pay roll December 1935	Percentage change from November 1935	Amount of pay roll (1 week) December 1935	Percentage change from November 1935	Number of establishments	Number on pay roll December 1935	Percentage change from November 1935	Amount of pay roll (1 week) December 1935	Percentage change from November 1935
East South Central	4,690	263,745	+5.0	\$4,667,475	+5.1	889	154,808	+0.8	\$2,549,843	+3.6
Kentucky.....	1,547	83,122	+1.9	1,696,921	-1.2	262	31,675	-4.0	649,149	+1.7
Tennessee.....	1,309	88,197	+1.6	1,500,867	+1.9	311	61,742	+4	1,000,616	+3
Alabama.....	1,255	75,663	+14.1	1,211,521	+21.3	220	50,870	+4.5	757,962	+10.8
Mississippi.....	579	16,763	+1.9	258,166	+3.1	96	10,521	+9	142,116	+1.4
West South Central	9,235	167,981	+1.3	3,483,444	+3.1	819	82,209	-6	1,623,083	+1.8
Arkansas.....	10 561	19,468	-2	312,671	+2.5	103	10,355	-2.1	144,384	+2.5
Louisiana.....	1,007	43,181	+2.1	788,651	+3.8	208	21,271	-1	332,316	+2.1
Oklahoma.....	1,456	41,227	+1.1	931,399	+4.0	127	10,130	-6	217,427	+4.3
Texas.....	1,211	64,105	+1.3	1,460,723	+2.2	381	40,463	-4	923,956	+1.0
Mountain	4,677	129,909	-8	3,130,191	+1.4	561	37,592	-9.2	865,454	-5.3
Montana.....	765	19,124	-1.0	520,119	+2.6	81	5,001	-9.8	126,898	-2.8
Idaho.....	493	10,803	-7.1	226,769	-9.5	51	3,353	-23.6	66,477	-29.7
Wyoming.....	347	9,234	-1.1	264,579	+1.8	47	2,104	-5.4	58,477	-2.3
Colorado.....	1,281	45,088	+3	1,041,013	+2.0	175	15,741	-6.3	365,919	-8
New Mexico.....	354	6,707	+3	141,204	+1.0	25	867	-3.0	14,370	+3.5
Arizona.....	585	15,079	+3.6	363,972	+9.4	43	2,705	+1.8	60,485	+7.6
Utah.....	604	20,499	-2.5	476,303	-1.3	106	6,781	-13.7	141,575	-10.8
Nevada.....	248	3,395	-2.2	96,232	+2.8	33	1,040	-6	31,253	+1.8
Pacific	6,578	409,411	-1	10,520,305	+2.6	1,796	203,988	-4.5	5,192,427	-5
Washington.....	3,256	88,884	-1.3	2,123,916	+1.2	481	43,539	-5.7	1,000,500	-2.5
Oregon.....	1,332	45,300	-3.1	1,067,858	+9	243	23,343	-8.0	517,585	-2.3
California.....	11,990	273,227	+9	7,328,531	+8.3	1,072	137,106	-8.5	3,674,342	+4

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

² Includes construction, municipal, agricultural, and office employment, amusement and recreation, professional services, and trucking and handling.

³ Includes laundering and cleaning, and water, light, and power.

⁴ Includes laundries.

⁵ Includes automobile and miscellaneous services, restaurants, and building and contracting.

⁶ Includes construction, but does not include hotels, restaurants, and public works.

⁷ Weighted percentage change.

⁸ Includes construction, miscellaneous services, and restaurants.

⁹ November data revised. Percentage changes from October to November in total employment is +0.1; in manufacturing employment, -0.7; in total pay roll, +0.3; in manufacturing pay roll, +1.

¹⁰ November data revised. Percentage change from October in total employment is -1.6; in manufacturing employment, -5.1; in total pay roll, -1.8; in manufacturing pay roll, -6.1.

¹¹ Includes banks, insurance, and office employment.

Private Employment and Pay Rolls in Principal Cities

A COMPARISON of December employment and pay-roll totals with November totals in 13 cities of the United States having a population of 500,000 or over is made in table 7. The changes are computed from reports received from identical establishments in both months.

In addition to reports included in the several industrial groups regularly covered in the survey of the Bureau, reports have also been secured from establishments in other industries for inclusion in these city totals. As information concerning employment in building construction is not available for all cities at this time, figures for this industry have not been included in these city totals.

Table 7.—Fluctuations in Employment and Pay Rolls in Principal Cities, December 1935 as Compared with November 1935

Cities	Number of establishments reporting in both months	Number on pay roll		Percentage change from November 1935	Amount of pay roll		Percentage change from November 1935
		November 1935	December 1935		November 1935 (1 week)	December 1935 (1 week)	
New York City.....	16,894	677,331	697,776	+3.0	\$17,580,670	\$18,231,446	+3.7
Chicago, Ill.....	3,895	370,897	379,821	+2.4	9,167,149	9,675,406	+5.5
Philadelphia, Pa.....	2,633	220,056	224,159	+1.9	5,209,016	5,326,728	+2.3
Detroit, Mich.....	1,466	308,637	317,766	+3.0	9,044,218	9,195,076	+1.7
Los Angeles, Calif.....	3,016	143,933	149,181	+3.6	3,563,264	3,789,701	+6.4
Cleveland, Ohio.....	1,840	133,815	138,755	+3.7	3,290,975	3,479,612	+5.7
St. Louis, Mo.....	1,712	119,409	123,230	+3.2	2,616,619	2,757,055	+5.4
Baltimore, Md.....	1,263	81,723	84,459	+3.3	1,760,529	1,846,336	+4.9
Boston, Mass.....	3,527	164,202	168,052	+2.3	3,750,331	3,951,058	+5.4
Pittsburgh, Pa.....	1,586	188,087	193,573	+2.9	4,401,066	4,719,656	+7.2
San Francisco, Calif.....	1,575	87,871	89,152	+1.5	2,336,003	2,436,358	+4.3
Buffalo, N. Y.....	1,102	68,648	70,035	+2.0	1,641,060	1,728,050	+5.2
Milwaukee, Wis.....	723	70,817	72,181	+1.9	1,691,602	1,737,103	+2.7

Part II—Public Employment

WITH the exception of work provided by the construction program financed by the Emergency Relief Act of 1935, employment in the various agencies of the Federal Government was for the most part lower in December than in November (table 8). Sharp reductions were reported in the number of workers employed on construction projects financed by the Public Works Administration, Reconstruction Finance Corporation, and by regular governmental appropriations. In the regular agencies of the Government minor increases are shown for the executive, judicial, and military services, but a small decrease in the legislative service. On relief work, a pronounced decrease occurred in the emergency-work program and a moderate decline in enrollments at Civilian Conservation Camps. By contrast, projects of the Works Progress Administration provided jobs for more than 2,500,000 workers in December, an increase of 86.2 percent compared with the previous month.

Employment created by the Federal Government includes employment in the regular agencies of the Government, employment on the various construction programs wholly or partially financed by Federal funds, and employment on relief-work projects.

Construction projects financed by the Public Works Administration are those projects authorized by title II of the National Industrial Recovery Act of June 16, 1933. This program of public works was extended to June 30, 1937, by the Emergency Relief Appropriation Act of 1935.

The Works Program was inaugurated by the President in a series of Executive orders by authority of Public Resolution No. 11 approved April 8, 1935. Employment created by this program includes employment on Federal projects and employment on projects operated by

the Works Progress Administration. Federal projects are those conducted by Federal agencies which have received allotments from The Works Program fund. Projects operated by the Works Progress Administration are those projects conducted under the supervision of the W. P. A.

The emergency-work program consists of projects authorized by the Federal Relief Administration since April 1, 1934. This program of providing employment through relief-work projects is being rapidly curtailed and the slack taken up by projects of the W. P. A. Emergency conservation program (Civilian Conservation Corps) created in April 1933 has been further extended under authority of the Emergency Relief Appropriation Act of 1935.

Table 8.—Summary of Federal Employment and Pay Rolls, December 1935

[Subject to revision]

Class	Employment		Per-centage change	Pay roll		Per-centage change
	December	November		December	November	
Federal service:						
Executive.....	816, 185	¹ 801, 608	+1.8	\$126, 518, 287	¹ \$119, 365, 726	+5.2
Judicial.....	1, 933	1, 901	+1.7	512, 027	492, 917	+3.9
Legislative.....	4, 975	5, 063	-1.7	1, 187, 061	1, 203, 502	-1.4
Military.....	285, 673	285, 117	+2	22, 301, 638	22, 263, 595	+2
Construction projects:						
Financed by P. W. A.....	² 231, 692	² 271, 111	-14.5	² 16, 360, 315	² 19, 512, 866	-16.2
Financed by R. F. C.....	7, 786	9, 793	-20.5	869, 459	1, 001, 408	-13.2
Financed by regular govern- mental appropriations.....	56, 780	53, 912	-11.2	3, 707, 963	4, 077, 395	-9.1
The Works Program ⁴	2, 552, 637	¹ 1, 370, 705	+86.2	101, 747, 882	¹ 52, 889, 185	+92.4
Relief work:						
Emergency-work program.....	68, 558	346, 470	-80.2	1, 844, 813	8, 253, 626	-77.6
Emergency conservation work.....	⁵ 506, 605	⁵ 543, 958	-6.9	⁵ 21, 905, 516	⁶ 23, 957, 751	-8.6

¹ Revised.

² Includes 9,203 wage earners and \$446,783 pay roll covering P. W. A. projects financed from E. R. A. A., 1935.

³ Includes 3,422 wage earners and \$149,545 pay roll covering P. W. A. projects financed from E. R. A. A., 1935.

⁴ Data covering P. W. A. projects financed from E. R. A. A., 1935, funds are not included in The Works Program and shown only under P. W. A.

⁵ 41,052 employees and pay roll of \$5,550,475 included in executive service.

⁶ 46,621 employees and pay roll of \$6,418,511 included in executive service.

Executive Service of the Federal Government

ACCORDING to information furnished by the Civil Service Commission, 816,185 workers were employed in December in the executive branch of the Federal Government. (See table 9.) Compared with November, this represents an increase of 1.8 percent and is 19.0 percent more than the number employed in the corresponding month of 1934.

Of the total workers employed in the executive service in December, slightly less than 14 percent were working in Washington. More than 86 percent were employed in localities other than the District of Columbia.

Table 9.—Employees in Executive Service of the United States, December 1934, November 1935, and December 1935

Item	District of Columbia			Outside District of Columbia			Entire service		
	Perma- nent	Tem- porary	Total	Perma- nent	Tem- porary ¹	Total	Perma- nent	Tem- porary ¹	Total
Number of employees:									
December 1934 ²	88,343	7,599	95,942	508,411	81,622	590,033	596,754	89,221	685,975
November 1935 ²	103,108	8,088	111,196	589,395	101,017	690,412	692,503	109,105	801,608
December 1935.....	104,282	7,806	112,088	607,060	97,037	704,097	711,342	104,843	³ 816,185
Gain or loss:									
December 1934 to December 1935.....	+15,939	+207	+16,146	+98,649	+15,415	+114,064	+114,585	+15,624	+130,209
November 1935 to December 1935.....	+1,174	-282	+892	+17,665	-3,980	+13,685	+18,871	-4,253	+14,618
Percentage change:									
December 1934 to December 1935.....	+18.04	+2.72	+16.83	+19.40	+18.89	+19.33	+19.20	+17.51	+18.98
November 1935 to December 1935.....	+1.14	-3.49	+ .80	+3.00	-3.94	+1.98	+2.72	-3.91	+1.82
Labor turn-over, De- cember 1935:									
Additions ⁴	1,640	1,131	2,771	22,631	14,565	37,196	24,271	15,696	39,967
Separations ⁴	1,077	747	1,824	6,617	17,253	23,870	7,694	18,000	25,694
Turn-over rate per 100.....	1.04	9.40	1.63	1.11	14.71	3.42	1.10	14.67	3.18

¹ Not including field employees of the Post Office Department or 13,005 employees hired under letters of authorization by the Department of Agriculture with a pay roll of \$616,367.

² Revised.

³ Includes 304 employees by transfer previously reported as separations by transfer, not actual additions for December.

⁴ Not including employees transferred within the Government service, as such transfers should not be regarded as labor turn-over.

The most pronounced increase in employment in the executive departments of the Federal Government during December occurred in the Works Progress Administration. Small gains were shown, however, by the Treasury Department, the Department of Agriculture, the Navy Department, and the Resettlement Administration. The largest decrease in the number of employees, on the other hand, was reported by the War Department. There were also noticeable losses in the Farm Credit Administration, the Federal Emergency Relief Administration, and the Tennessee Valley Authority.

Construction Projects Financed by the Public Works Administration

APPROXIMATELY 232,000 employees were working at the site of construction projects financed by the Public Works Administration in December.¹ Compared with the previous month, this is a decrease of 39,000 in the number of wage earners employed. Pay rolls for the month totaled \$16,360,000, or \$3,152,000 less than in November.

Federal construction projects are financed by allotments made by the Public Works Administration to the various agencies and departments of the Federal Government from funds provided under the National Industrial Recovery Act. The major portion of the Federal housing program now under way, however, is financed by funds provided under the Emergency Relief Appropriation Act of 1935.

¹ Unless otherwise expressly stated, when December is referred to in this section, it may be accepted as meaning the month ending December 15.

The work is performed either by commercial firms, which have been awarded contracts, or by day labor hired directly by the Federal agencies.

Non-Federal projects are financed by allotments made by the Public Works Administration from funds available under either the National Industrial Recovery Act or the Emergency Relief Appropriation Act of 1935. Most of the allotments have been made to the States and their political subdivisions, but occasionally allotments have been made to commercial firms. In financing projects for the States or their political subdivisions from funds appropriated under the National Industrial Recovery Act, the Public Works Administration makes a direct grant of not more than 30 percent of the total construction cost. When funds provided under the Emergency Relief Appropriation Act of 1935 are used to finance a non-Federal project, as much as 45 percent of the total cost may be furnished in the form of a grant. The remaining 55 percent or more of the cost is financed by the recipient. When circumstances justify such action, the Public Works Administration may provide the grantee with the additional funds by means of a loan. Allotments to commercial enterprises are made only as loans. All loans made by the Public Works Administration carry interest charges and have a definite date of maturity. Collateral posted with the Public Works Administration to secure loans may be offered for sale to the public. In this way a revolving fund is provided which enlarges the scope of the activities of the Public Works Administration.

Commercial loans have been made, for the most part, to railroads. Railroad work financed by loans made by the Public Works Administration falls under three headings: First, construction work in the form of electrification, the laying of rails and ties, repairs to buildings, bridges, etc.; second, the building and repairing of locomotives and passenger and freight cars in shops operated by the railroads; and third, locomotive and passenger- and freight-car building in commercial shops.

Information concerning the first type of railroad work, i. e., construction, is shown in table 10, page 33. Employment in car and locomotive shops owned by the railroads and in commercial car and locomotive shops is shown in a separate table. (See table 12, p. 36.)

Details concerning employment, pay rolls, and man-hours worked during December on construction projects financed by Public Works Administration funds are given, by type of project, in table 10.

Table 10.—Employment and Pay Rolls on Construction Projects Financed from Public-Works Funds, Month Ending Dec. 15, 1935

[Subject to revision]

Type of project	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number ¹ employed	Weekly average				
Federal projects—Financed from N. I. R. A. funds						
All projects ²	124,067	116,938	\$9,400,053	13,281,140	\$0.708	\$10,969,334
Building construction ³	14,995	12,553	995,891	1,213,530	.821	1,491,352
Forestry.....	103	94	3,540	6,483	.646	2,669
Naval vessels.....	28,584	28,152	3,357,248	4,042,236	.831	2,360,071
Public roads ⁴	(5)	43,864	1,797,500	3,586,600	.501	2,950,000
Reclamation.....	15,087	13,786	1,488,473	2,070,462	.719	1,963,108
River, harbor, and flood control.....	17,549	14,969	1,497,305	1,935,566	.774	1,904,599
Streets and roads.....	2,246	1,987	108,224	212,530	.609	157,679
Water and sewerage.....	151	105	7,324	9,294	.788	7,711
Miscellaneous.....	1,518	1,428	144,548	204,439	.707	132,245
Non-Federal projects—Financed from N. I. R. A. funds						
All projects.....	96,920	80,194	\$6,282,393	7,347,017	\$0.855	\$13,118,755
Building construction.....	46,521	38,224	3,310,343	3,495,223	.947	7,211,080
Railroad construction.....	2,555	2,051	87,716	136,786	.641	61,309
Streets and roads.....	9,862	7,888	522,287	725,120	.720	1,151,753
Water and sewerage.....	33,001	28,128	2,048,421	2,541,436	.806	3,935,101
Miscellaneous.....	4,981	3,903	313,626	448,452	.699	759,512
Non-Federal projects—Financed from E. R. A. A., 1935, funds ⁵						
All projects.....	7,377	5,936	\$332,051	513,138	\$0.647	\$1,377,930
Building construction.....	3,359	2,685	145,098	216,521	.670	570,398
Electrification.....	85	75	4,785	6,399	.748	15,851
Heavy engineering.....	144	107	9,532	9,365	1.018	20,130
Reclamation.....	228	178	10,303	16,359	.630	27,263
River, harbor, and flood control.....	24	19	1,124	2,144	.524	8,953
Streets and roads.....	1,079	967	46,836	74,273	.631	78,709
Water and sewerage.....	2,080	1,627	97,193	160,287	.606	625,957
Miscellaneous.....	378	278	17,180	27,790	.618	30,669

¹ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.

² Includes weekly average for public roads.

³ Includes a maximum of 1,826 and an average of 1,503 employees working on Federal housing projects financed from E. R. A. A., 1935, funds, who were paid \$114,932 for 163,169 man-hours of labor. Material orders in the amount of \$14,835 were placed for these projects. These data are also included in separate tables covering projects financed by The Works Program.

⁴ Estimated by the Bureau of Public Roads.

⁵ Not available; average number included in total.

⁶ These data are also included in separate tables covering projects financed by The Works Program.

There were 26,774 fewer employees working on Federal projects in December than in November. Losses in employment occurred in five of the various types of projects. Employment on public-road projects showed the most pronounced drop. Small increases in the number of workers employed were reported for building construction, forestry, naval-vessel, and reclamation projects. Average hourly earnings for all projects were 71 cents.

Compared with November, employment on non-Federal projects financed under the National Industrial Recovery Act decreased in December. All types of projects had fewer employees in December than in November. Of the total number of workers, more than four-fifths were employed on building-construction and water and sewerage projects. Average earnings per hour for all projects were 86 cents.

In comparison with the previous month, the number of employees engaged on non-Federal projects financed under the Emergency Relief Appropriation Act of 1935, increased by 4,046 in December. Employment gains were registered for every type of project except street and road work. The greatest number of man-hours worked during the month—216,521—was accounted for by building-construction projects. Earnings per hour for all projects averaged 65 cents, but the range was from \$1.02 on heavy engineering projects to 52 cents on river, harbor, and flood-control work.

Employment, pay rolls, and man-hours worked on construction projects financed by public-works funds in December are shown in table 11, by geographic divisions.

Decreases in employment occurred in December in all but one of the geographic divisions for both Federal and non-Federal projects financed under the National Industrial Recovery Act. Average hourly earnings on Federal projects ranged from a high of 86 cents in the Pacific States to a low of 44 cents in the West South Central region. On non-Federal projects, average earnings per hour were highest in the Middle Atlantic region and lowest in the East South Central and West South Central regions.

On non-Federal projects financed under the Emergency Relief Appropriation Act of 1935, substantial employment gains were registered in all geographic divisions. Of the total number of workers employed, more than two-fifths were located in the West North Central and South Atlantic States. Average earnings per hour were highest in the Middle Atlantic States and lowest in the South Atlantic region.

Employment, pay rolls, and man-hours worked during December in railway-car and locomotive shops on projects financed by the Public Works Administration fund are shown in table 12, by geographic divisions.

Table 11.—Employment and Pay Rolls on Construction Projects Financed from Public-Works Funds, Month Ending Dec. 15, 1935

[Subject to revision]

Geographic division	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ¹	Weekly average				
Federal projects—Financed from N. I. R. A. funds						
All divisions ²	124,097	116,938	\$9,400,053	13,281,140	\$0.708	³ \$10,969,334
New England ²	8,348	8,027	812,516	1,040,075	.781	382,785
Middle Atlantic ²	19,721	18,578	1,863,368	2,280,750	.817	1,185,016
East North Central ²	12,301	11,013	796,611	1,022,274	.779	774,490
West North Central.....	11,949	11,440	531,501	1,036,446	.513	363,455
South Atlantic.....	22,198	21,242	1,797,532	2,536,638	.709	1,560,622
East South Central.....	17,980	16,783	1,235,028	1,958,433	.631	1,601,987
West South Central.....	11,241	11,065	352,797	794,997	.444	124,718
Mountain.....	9,443	8,402	906,701	1,264,949	.717	826,644
Pacific.....	9,151	8,717	989,527	1,148,474	.862	1,084,823
Outside continental United States..	1,765	1,671	114,472	198,104	.578	114,794
Non-Federal projects—Financed from N. I. R. A. funds						
All divisions.....	96,920	80,194	\$6,282,393	7,347,017	\$0.855	\$13,118,755
New England.....	6,089	4,974	342,975	425,619	.806	809,267
Middle Atlantic.....	23,577	19,533	1,899,495	1,901,813	.999	4,672,976
East North Central.....	16,904	14,127	1,097,989	1,183,473	.928	2,127,987
West North Central.....	13,376	10,977	827,087	1,056,896	.783	1,564,381
South Atlantic.....	7,453	5,977	369,152	524,336	.704	602,653
East South Central.....	3,776	2,963	157,740	252,080	.626	354,398
West South Central.....	9,785	8,368	457,688	730,932	.626	1,348,435
Mountain.....	3,978	3,308	277,153	337,238	.822	461,811
Pacific.....	11,586	9,642	834,739	906,677	.921	1,158,525
Outside continental United States..	396	325	18,375	27,953	.658	18,322
Non-Federal projects—Financed from E. R. A. A., 1935, funds ⁴						
All divisions.....	7,377	5,936	\$332,051	513,138	\$0.647	\$1,377,930
New England.....	890	736	39,734	73,342	.542	88,952
Middle Atlantic.....	672	515	48,248	46,569	1.036	368,944
East North Central.....	835	677	38,595	45,357	.851	187,463
West North Central.....	1,750	1,439	74,271	127,231	.584	217,698
South Atlantic.....	1,440	1,181	53,394	102,758	.520	287,318
East South Central.....	517	419	15,399	28,912	.533	56,628
West South Central.....	375	304	15,606	24,597	.634	46,616
Mountain.....	673	492	34,356	47,115	.729	73,371
Pacific.....	225	173	12,448	17,257	.721	50,940

¹ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work. Includes weekly average for public-road projects.

² Includes data for wage earners employed on Federal housing projects financed from E. R. A. A., 1935, funds. These data are also included in separate table covering projects financed by The Works Program.

³ Includes \$2,950,000 estimated value of material orders placed for public road projects which cannot be charged to any specific geographic division.

⁴ These data are also included in separate tables covering projects financed by The Works Program.

Table 12.—Employment and Pay Rolls in Railway-Car and Locomotive Shops on Work Financed From Public Works Administration Funds, December 1935

[Subject to revision]

Geographic division	Wage earners		Monthly pay-roll disbursement	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ¹	Semi-monthly average				
All divisions.....	3, 298	(?)	\$345, 818	495, 836	\$0. 697	(?)
Railroad shops						
All divisions.....	2, 400	2, 337	\$202, 574	288, 575	\$0. 702	\$41, 296
New England.....	451	451	54, 868	73, 619	. 745	22, 054
Middle Atlantic.....	595	582	29, 533	46, 222	. 639	14, 158
East North Central.....	334	304	16, 623	23, 657	. 703	1, 556
East South Central.....	1, 020	1, 000	101, 550	145, 077	. 700	3, 528
Commercial shops						
All divisions.....	898	(?)	\$143, 244	237, 261	\$0. 691	(?)
Middle Atlantic.....	33	(?)	3, 677	5, 472	. 672	(?)
East North Central.....	543	(?)	103, 775	141, 539	. 733	(?)
West North Central.....	18	(?)	3, 529	6, 235	. 566	(?)
South Atlantic.....	302	(?)	32, 140	53, 725	. 598	(?)
East South Central.....	2	(?)	123	290	. 424	(?)

¹ Maximum number employed during either semimonthly period by each shop.

² Data not available.

In comparison with November, there was a decrease of 182 in the number of workers employed during December in railway-car and locomotive shops on work financed from Public Works Administration funds.

Monthly trend

EMPLOYMENT, pay rolls, and man-hours worked at the site of projects financed from Public Works funds from the beginning of the program in July 1933 to December 1935 are given in table 13.

It will be noted that fewer workers were employed on projects financed from public-works funds in December than in any month since October 1933, when the program was just getting under way.

Since the beginning of the public-works program, pay-roll disbursements have been more than \$595,000,000 and the value of material orders placed has been in excess of \$1,102,000,000. Average earnings per hour have been 62 cents and 956,000,000 man-hours of employment have been provided at the construction site.

Table 13.—Employment and Pay Rolls, July 1933 to December 1935, Inclusive, on Projects Financed From Public-Works Funds

[Subject to revision]

Year and month	Maximum number of wage earners ¹	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
July 1933 to December 1935, inclusive ²	-----	\$595, 428, 596	956, 633, 129	\$0. 622	\$1, 102, 825, 645
<i>1933</i>					
July.....	267	26, 433	35, 217	.751	(³)
August.....	4, 719	131, 937	206, 990	.637	³ 202, 100
September.....	39, 535	1, 784, 996	3, 296, 162	.542	1, 628, 537
October.....	146, 747	6, 353, 835	12, 029, 751	.528	⁴ 23, 351, 150
November.....	255, 512	11, 552, 547	21, 759, 245	.531	24, 568, 577
December.....	300, 758	13, 091, 587	24, 391, 546	.537	25, 702, 750
<i>1934</i>					
January.....	298, 069	12, 646, 241	23, 409, 908	.540	24, 206, 352
February.....	311, 381	14, 348, 094	26, 544, 346	.541	25, 269, 537
March.....	307, 274	14, 113, 247	25, 501, 446	.553	⁵ 69, 766, 559
April.....	382, 220	18, 785, 405	32, 937, 649	.570	⁶ 68, 526, 223
May.....	506, 056	25, 942, 387	46, 052, 698	.563	⁶ 50, 468, 427
June.....	610, 752	33, 808, 429	59, 873, 309	.565	⁶ 60, 797, 939
July.....	644, 729	34, 845, 461	60, 736, 768	.574	⁶ 53, 377, 997
August.....	629, 907	36, 480, 027	61, 925, 300	.589	⁶ 54, 192, 443
September.....	575, 655	32, 758, 795	53, 427, 096	.613	⁶ 50, 878, 000
October.....	527, 883	30, 263, 279	47, 910, 342	.632	⁶ 51, 756, 945
November.....	503, 985	30, 664, 356	49, 004, 023	.625	55, 044, 382
December.....	410, 236	23, 655, 422	36, 238, 781	.653	⁶ 45, 766, 286
<i>1935</i>					
January.....	304, 723	18, 462, 677	27, 478, 022	.672	⁶ 30, 746, 857
February.....	272, 273	16, 896, 475	25, 144, 558	.672	29, 264, 484
March.....	281, 461	17, 400, 798	26, 008, 063	.669	27, 276, 566
April.....	333, 045	20, 939, 741	31, 387, 712	.667	31, 645, 166
May.....	394, 875	24, 490, 087	36, 763, 164	.667	⁶ 36, 893, 840
June.....	414, 306	25, 386, 962	38, 800, 178	.654	⁶ 42, 017, 642
July.....	405, 332	24, 968, 785	37, 845, 047	.660	41, 936, 424
August.....	394, 509	25, 292, 656	37, 133, 989	.681	46, 954, 714
September ⁷	344, 520	22, 772, 317	32, 478, 773	.701	⁶ 40, 988, 896
October ²	305, 632	21, 692, 439	30, 358, 351	.715	⁶ 35, 042, 853
November ²	271, 111	19, 512, 866	26, 317, 564	.741	⁶ 29, 046, 684
December ²	231, 692	16, 360, 315	21, 637, 131	.756	25, 507, 315

¹ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work. Includes weekly average for public-road projects.

² Includes wage earners employed on projects under the jurisdiction of P. W. A. which are financed from E. R. A. A., 1935, funds. These data are also included in tables covering projects financed by The Works Program.

³ Orders placed for materials during July and August 1933, with exception of public-road projects included in October.

⁴ Includes orders placed for naval vessels prior to October 1933.

⁵ Includes orders placed by railroads for new equipment.

⁶ Revised.

The Works Program

Between the middle of November and the middle of December, employment was provided for 1,188,000 additional workers by the construction program financed by the Emergency Relief Act of 1935. In the aggregate, more than 2,561,000 workers were employed at the site of construction projects of this class in December.¹ This includes more than 9,200 employees working on Public Works Administration projects financed from funds provided by the Emergency Relief Appropriation Act of 1935. Pay rolls for December amounted to more than \$102,000,000.

A detailed record of employment, pay rolls, and man-hours worked on projects financed by The Works Program in December is presented in table 14, by type of project.

¹ When December is referred to in this section, it may be accepted as meaning the month ending Dec. 15.

Table 14.—Employment and Pay Rolls on Projects Financed by The Works Program, December 1935

(Subject to revision)

Type of project	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ¹	Weekly average				
Federal projects						
All projects.....	217,027	200,177	\$10,195,537	22,160,371	\$0.460	\$7,258,162
Building construction.....	31,785	29,830	1,398,686	2,930,741	.477	704,015
Electrification.....	493	473	23,736	55,721	.426	13,486
Forestry.....	19,737	18,039	975,717	3,441,114	.284	519,905
Grade-crossing elimination.....	4,817	3,936	210,180	453,931	.484	460,209
Heavy engineering.....	61	49	4,118	6,531	.626	2,023
Hydro-electric power plants.....	1,065	961	21,752	94,076	.231	118,780
Plant, crop, and livestock conservation.....	23,220	21,081	879,190	1,875,037	.469	191,053
Professional, technical, and clerical.....	14,963	14,963	829,648	1,563,218	.531	39,479
Public roads.....	26,160	20,706	1,056,293	2,401,220	.440	1,116,282
Reclamation.....	37,726	37,622	1,202,106	2,749,014	.437	1,081,281
River, harbor, and flood control.....	40,858	37,024	2,811,450	4,850,020	.580	2,543,240
Streets and roads.....	7,530	7,247	368,250	831,660	.443	157,456
Water and sewerage.....	981	957	42,752	103,848	.412	15,940
Miscellaneous.....	7,631	7,289	371,659	824,190	.451	295,013
P. W. A. projects financed from E. R. A. A., 1935, funds ²						
All projects.....	9,203	7,439	\$446,783	676,307	\$0.661	\$1,392,765
Building construction.....	5,185	4,188	259,830	379,690	.684	585,233
Electrification.....	85	75	4,785	6,399	.748	15,851
Heavy engineering.....	144	107	9,532	9,365	1.018	20,130
Reclamation.....	228	178	10,303	16,359	.630	27,263
River, harbor, and flood control.....	24	19	1,194	2,144	.524	8,953
Streets and roads.....	1,079	967	46,836	74,273	.631	78,709
Water and sewerage.....	2,080	1,627	97,193	160,287	.606	625,957
Miscellaneous.....	378	278	17,180	27,790	.618	30,669
Projects operated by Works Progress Administration						
All projects.....	³ 2,335,610	-----	\$91,552,345	201,799,051	\$0.454	⁵ \$17,678,214
Conservation.....	140,748	-----	5,099,249	11,432,308	.446	1,190,113
Highway, road, and street.....	965,804	-----	34,963,017	83,117,682	.421	6,502,700
Housing.....	4,122	-----	269,340	384,274	.701	15,011
Professional, technical, and clerical.....	105,372	-----	6,019,488	9,594,915	.627	135,054
Public building.....	167,751	-----	8,155,969	14,077,140	.679	2,555,139
Publicly owned or operated utilities ⁶	196,772	-----	7,545,088	15,967,935	.473	3,695,960
Recreational facilities ⁷	327,008	-----	14,991,536	28,548,726	.625	2,016,883
Rural electrification and electric utilities.....	3,043	-----	127,662	240,826	.530	118,169
Sanitation and health.....	87,956	-----	3,052,044	8,392,425	.364	141,364
Sewing, canning, gardening, etc.....	226,082	-----	6,347,801	18,663,172	.340	338,920
Transportation.....	41,469	-----	1,725,590	3,502,457	.493	412,813
Not elsewhere classified.....	94,684	-----	3,255,601	7,877,191	.413	656,088

¹ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.² These data are also included in separate tables covering projects under the jurisdiction of the Public Works Administration.³ This total differs from the sum of the individual items since 25,501 employees worked on more than one type of project.⁴ Represents number of workers on the pay roll during month ending Dec. 15. During week ending Dec. 31 there were nearly 2,775,000 workers employed on projects operated by Works Progress Administration.⁵ Value of material orders placed during month ending Dec. 31, 1935.⁶ Exclusive of electric utilities.⁷ Exclusive of buildings.

On Federal projects alone jobs were provided for nearly 49,000 additional workers during the month interval. All types of Federal projects with the exception of water and sewerage construction, heavy engineering projects, and forestry work shared in the increase. The most substantial gains were registered on public-road construction and reclamation work. Earnings per hour for all Federal projects averaged 46 cents.

An increase of approximately 1,133,000 workers in comparison with November is indicated in the number of workers employed on projects operated by the Works Progress Administration. Employment on each type of project showed pronounced gains. The largest increases in the number of workers employed occurred on highway, road, and street construction; recreational facility projects; and sewing, canning, and gardening work.

In December 9,200 workers were employed on Public Works Administration projects financed from funds provided by the Emergency Relief Appropriation Act of 1935. Of the total, more than half were employed on building-construction projects.

Employment, pay rolls, and man-hours worked in December on projects financed by The Works Program are shown in table 15, by geographic divisions.

Gains in the number of workers employed occurred in all geographic divisions on both Federal projects and projects operated by the Works Progress Administration. On all projects financed by The Works Program, the greatest number of workers (613,246) were located in the Middle Atlantic States.

Table 15.—Employment and Pay Rolls on Projects Financed by The Works Program, December 1935

[Subject to revision]

Geographic division	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ¹	Weekly average				
Federal projects						
All divisions ²	217,027	200,177	\$10,195,537	22,160,371	\$0.460	\$7,258,162
New England.....	12,742	11,689	804,813	1,563,879	.515	423,542
Middle Atlantic.....	28,099	26,892	1,762,092	3,028,818	.582	571,766
East North Central.....	23,404	20,842	1,208,969	2,434,750	.497	836,167
West North Central.....	27,814	25,430	1,237,577	2,589,173	.478	1,012,464
South Atlantic.....	35,610	33,342	1,303,625	3,750,009	.348	805,998
East South Central.....	9,618	8,646	316,076	878,274	.360	219,628
West South Central.....	17,096	15,573	484,308	1,548,590	.313	203,108
Mountain.....	24,683	22,902	1,478,963	2,794,185	.529	549,437
Pacific.....	24,792	23,053	1,383,302	2,994,875	.462	1,670,528
Outside continental United States.....	13,064	11,703	213,258	570,935	.374	195,436
P. W. A. projects financed from E. R. A. A. 1935 funds ³						
All divisions.....	9,203	7,439	\$446,783	676,307	\$0.661	\$1,392,765
New England.....	985	816	50,539	86,886	.582	93,609
Middle Atlantic.....	2,178	1,766	140,604	182,591	.770	368,944
East North Central.....	1,060	849	50,166	58,960	.851	197,641
West North Central.....	1,750	1,439	74,271	127,231	.584	217,698
South Atlantic.....	1,440	1,181	53,394	102,758	.520	287,318
East South Central.....	517	419	15,399	28,912	.533	56,628
West South Central.....	375	304	15,606	24,597	.634	46,616
Mountain.....	673	492	34,356	47,115	.729	73,371
Pacific.....	225	173	12,448	17,257	.721	50,940
Projects operated by the Works Progress Administration						
All divisions.....	⁴ 2,335,610	-----	\$91,552,345	201,799,051	\$0.454	⁵ \$17,678,214
New England.....	137,649	-----	5,063,979	9,745,106	.520	-----
Middle Atlantic.....	582,969	-----	33,707,870	54,674,739	.617	-----
East North Central.....	552,578	-----	22,568,390	46,509,163	.485	-----
West North Central.....	251,653	-----	7,736,932	19,558,812	.396	-----
South Atlantic.....	223,449	-----	5,467,226	20,987,028	.261	-----
East South Central.....	157,209	-----	3,533,248	14,859,839	.238	-----
West South Central.....	170,914	-----	4,192,679	15,932,567	.263	-----
Mountain.....	96,972	-----	3,473,750	8,173,916	.425	-----
Pacific.....	162,217	-----	5,808,271	11,357,881	.511	-----

¹ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.

² Includes data for 105 wage earners and material orders placed valued at \$770,088, for which a distribution by geographic division is not available.

³ These data are also included in separate tables covering projects under the jurisdiction of the Public Works Administration.

⁴ Represents number of workers on the pay roll during month ending Dec. 15. During week ending Dec. 31, there were nearly 2,775,000 workers employed on projects operated by Works Progress Administration.

⁵ Value of material orders placed during month ending Dec. 31, 1935, for which a distribution by geographic division is not available.

Monthly trend

The monthly trend of employment, pay rolls, and man-hours worked on projects financed by The Works Program from the beginning of the program in July 1935 to December 1935 are given in table 16.

Table 16.—Employment and Pay Rolls, July to December 1935, Inclusive, on Projects Financed by The Works Program

[Subject to revision]

Month and year	Maximum number employed ¹	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
Federal projects					
July to December 1935, inclusive.....		\$30,077,743	65,911,609	\$0.456	\$32,116,942
July.....	5,131	276,839	603,318	.456	164,004
August.....	32,672	1,215,990	2,791,802	.436	1,684,347
September.....	76,524	3,754,773	7,815,795	.480	4,071,945
October.....	129,064	6,243,023	13,669,524	.457	9,723,568
November.....	168,234	8,391,581	18,870,799	.445	9,214,916
December.....	217,027	10,195,537	22,160,371	.460	7,258,162
P. W. A. projects financed from E. R. A. A., 1935, funds ²					
September to December 1935, inclusive.....		\$661,283	996,091	\$0.664	\$2,025,494
September.....	317	10,575	17,493	.605	28,573
October.....	1,184	54,380	73,928	.689	159,568
November.....	3,422	149,545	223,363	.670	444,588
December.....	9,203	446,783	676,307	.661	1,392,765
Projects operated by Works Progress Administration					
August to December 1935, inclusive.....		\$170,911,331	367,589,04	\$0.465	\$46,042,303
August ³	73,153	1,199,936	2,581,988	.465	3,202,136
September ³	258,830	10,303,491	17,790,436	.579	2,089,324
October ³	516,581	23,357,955	50,739,568	.460	8,236,283
November ³	1,202,471	44,497,604	94,677,998	.470	14,838,346
December.....	2,335,610	91,552,345	201,799,051	.454	17,678,214

¹ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.

² These data are also included in separate tables covering projects under the jurisdiction of the Public Works Administration.

³ Revised.

Since the beginning of the program, pay-roll disbursements have amounted to over \$200,000,000 and the value of material orders placed has exceeded \$80,000,000. More than 434,000,000 man-hours of employment have been provided at the site of construction.

Emergency Work Program

With increased employment opportunities, both in industry and the construction program of the Works Progress Administration, the emergency-work program is declining in importance. For the week ended December 26, the emergency-work program provided em-

ployment for only 16,639 workers, a decrease of 83.4 percent in comparison with the corresponding week in November. Pay rolls decreased 80.2 percent, dropping from more than \$1,210,000 for the week ending November 28 to less than \$239,753 for the week ending December 26. (See table 17.)

Table 17.—Employment and Pay Rolls for Workers on Emergency-Work Program, Weeks ending Nov. 28 and Dec. 26, 1935

[Subject to revision]

Geographic division	Number of employees, week ending—		Amount of pay roll, week ending—	
	Dec. 26	Nov. 28	Dec. 26	Nov. 28
All divisions.....	16,639	100,388	\$239,753	\$1,211,423
New England.....	8,428	45,960	122,784	574,835
Middle Atlantic.....	1,102	26,188	19,227	325,052
East North Central.....	1,022	7,116	16,086	80,754
West North Central.....	255	1,694	7,821	23,517
South Atlantic.....	2,704	6,802	32,224	67,055
East South Central.....	100	666	1,235	4,938
West South Central.....	1,093	4,388	9,507	30,634
Mountain.....	439	2,525	7,586	32,458
Pacific.....	1,496	5,049	23,283	72,180

Decreases in the number of workers employed occurred in all geographic divisions. The New England States with 8,428 fewer employees for the week ending December 26, had the most marked decline.

The monthly record of the number employed and pay-roll disbursements of the Federal Emergency Relief Administration from the beginning of the program through December 1935 is given in table 18.

Table 18.—Employment and Pay Rolls for Workers on Emergency-Work Program, April 1934 to December 1935

Month	Number of employees	Amount of pay roll	Month	Number of employees	Amount of pay roll
<i>1934</i>			<i>1935—Continued</i>		
April.....	1,089,762	\$38,416,747	February.....	1 2,432,772	1 \$62,795,267
May.....	1 1,361,537	1 43,680,775	March.....	1 2,368,993	1 61,825,268
June.....	1 1,504,571	1 42,423,990	April.....	1 2,275,872	1 61,321,053
July.....	1 1,725,266	1 47,352,835	May.....	1 2,196,421	1 63,530,180
August.....	1 1,924,066	54,914,792	June.....	2,021,060	54,382,876
September.....	1 1,950,108	50,288,868	July.....	1,928,772	53,136,833
October.....	1 1,996,822	53,901,325	August.....	1 1,411,462	1 38,989,150
November.....	2,159,038	62,833,046	September.....	1 889,231	1 21,184,250
December.....	1 2,299,349	1 61,925,339	October.....	1 644,972	17,791,923
<i>1935</i>			November.....	346,470	8,258,626
January.....	1 2,443,673	1 70,806,598	December.....	68,558	1,844,813

¹ Revised.

The decline in employment and pay rolls on the emergency-work program continued in December. According to preliminary figures,

the estimated employment for the month was 68,000. This does not mean, however, that during any given week, this total was reached. Because of the fact that a limit is placed on the earnings of employees, not more than 70 percent of this number are working at any one time.

Emergency Conservation Work

THERE were 506,605 workers engaged in emergency conservation work in December. Compared with the previous month, this represents a loss of 37,353 in the number of workers employed. (See table 19.) All classes of workers shared in the decrease.

Table 19.—Employment and Pay Rolls in Emergency Conservation Work, November and December 1935

Group	Number of employees		Amount of pay rolls	
	December	November	December	November
All groups.....	506,605	543,958	\$21,905,516	\$23,957,751
Enrolled personnel.....	453,152	480,140	14,151,942	14,994,771
Reserve officers.....	9,264	9,607	1,940,881	2,013,114
Educational advisers ¹	2,198	2,227	376,828	381,297
Supervisory and technical ²	41,991	51,984	5,435,865	6,568,569

¹ Included in executive service table.

² Includes carpenters, electricians, and laborers.

³ 38,854 employees and pay roll of \$5,173,647 included in executive service table.

⁴ 44,394 employees and pay roll of \$6,037,214 included in executive service table.

The employment and pay-roll data for emergency conservation workers are collected by the Bureau of Labor Statistics from the War Department, the Department of Agriculture, the Department of Commerce, the Treasury Department, and the Department of the Interior. The monthly pay of the enrolled personnel is distributed as follows: 5 percent are paid \$45; 8 percent, \$36; and the remaining 87 percent, \$30. The enrolled men, in addition to their pay, are provided with board, clothing, and medical services.

Construction Projects Financed by the Reconstruction Finance Corporation

THERE were 7,786 wage earners employed at the site of construction projects financed by the Reconstruction Finance Corporation during December. Compared with the previous month, this is a decrease of 20.5 percent. Pay-roll disbursements of \$869,000 were \$132,000 less than in November.

Statistics concerning employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation during December are given in table 20, by type of project.

Table 20.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation by Type of Project, December 1935

[Subject to revision]

Type of project	Number of wage earners	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed
All projects.....	7,786	\$869,459	1,160,845	\$0.749	\$1,383,293
Bridges.....	1,933	206,603	210,871	.980	236,070
Building construction.....	78	8,628	10,388	.831	13,671
Reclamation.....	61	4,485	7,758	.578	401
Water and sewerage.....	4,605	542,987	769,356	.706	1,111,468
Miscellaneous.....	1,111	106,756	162,472	.657	21,683

A sharp drop in the number of workers employed on water and sewerage projects was largely responsible for the decline in employment in December. Losses in employment also occurred on reclamation projects. On the other hand, building construction, bridge construction, and miscellaneous projects registered slight gains over November.

The number of employees, the amounts of pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in December are shown in table 21, by geographic divisions.

Table 21.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation by Geographic Divisions, December 1935

[Subject to revision]

Geographic division	Number of wage earners	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All divisions.....	7,786	\$869,459	1,160,845	\$0.749	\$1,383,293
East North Central.....	230	19,599	17,536	1.118	26,940
West North Central.....	19	2,412	3,716	.649	0
West South Central.....	147	15,924	18,538	.859	0
Mountain.....	61	4,485	7,758	.578	401
Pacific.....	7,329	827,039	1,113,297	.743	1,355,952

All geographic divisions except the West North Central States showed losses in employment in December. Of the total number of workers employed, more than 94 percent were located in the Pacific States. Average earnings per hour were highest in the East North Central region and lowest in the Mountain States.

Construction Projects Financed from Regular Governmental Appropriations

EMPLOYMENT on projects financed from regular governmental appropriations declined during December. Compared with the previous month, the decrease in employment was 11.2 percent. Pay-roll disbursements during the month amounted to \$3,708,000, a decrease of 9.1 percent compared with November.

Whenever a construction contract is awarded, or force-account work is started, by a department or agency of the Federal Government, the Bureau of Labor Statistics is immediately notified, on forms supplied by the Bureau, of the name and address of the contractor, the amount of the contract, and the type of work to be performed. Blanks are then mailed by the Bureau to the contractor or Government agency doing the work. These reports are returned to the Bureau and show the number of men on pay rolls, the amounts disbursed for pay, the number of man-hours worked on the project, and the value of the different types of materials for which orders were placed during the month.

The following tables present data concerning construction projects on which work has started since July 1, 1934. The Bureau does not have statistics covering projects which were under way previous to that date.

Detailed statistics of employment, pay rolls, and man-hours worked in December on construction projects financed by regular governmental appropriations are given in table 22, by type of project.

Table 22.—Employment on Construction Projects Financed from Regular Governmental Appropriations, by Type of Project, December 1935

[Subject to revision]

Type of project	Number of wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ¹	Weekly average				
All projects.....	² 56,780	53,415	\$3,707,963	5,980,118	\$0.620	\$6,155,840
Building construction.....	7,105	5,735	433,626	576,073	.753	940,972
Electrification.....	15	9	841	834	1.008	940
Naval vessels.....	9,815	9,600	1,099,972	1,321,991	.832	2,320,685
Public roads ³	(4)	24,934	1,334,547	2,313,987	.577	2,190,216
Reclamation.....	422	343	39,736	52,497	.757	11,722
River, harbor, and flood control....	10,712	9,439	637,874	1,365,469	.467	578,009
Streets and roads.....	2,839	2,513	102,441	261,272	.392	75,646
Water and sewerage.....	10	9	372	570	.653	231
Miscellaneous.....	928	833	58,554	87,425	.670	37,419

¹ Maximum number employed any 1 week of the month by each contractor and Government agency doing force-account work.

² Includes weekly average for public roads.

³ Estimated by the Bureau of Public Roads.

⁴ Not available; average number included in total.

Losses in employment occurred during the month on six of the various types of projects. Public roads with 5,152 fewer workers in December than in November had the most pronounced drop. Small increases in employment were registered on building-construction and water and sewerage projects. Average hourly earnings ranged from 39 cents on street and road projects to \$1.01 on electrification work.

Statistics of employment, pay rolls, and man-hours worked during December on construction projects financed from regular governmental appropriations are presented in table 23, by geographic divisions.

Table 23.—Employment on Construction Projects Financed from Regular Governmental Appropriations, by Geographic Divisions, December 1935
[Subject to revision]

Geographic division	Number of wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ¹	Weekly average				
All divisions.....	56,780	53,415	\$3,707,963	5,980,118	\$0.620	² \$6,155,840
New England.....	6,179	5,988	563,419	749,573	.752	928,976
Middle Atlantic.....	7,714	7,299	683,179	882,036	.775	810,093
East North Central.....	5,150	4,873	252,422	390,632	.646	133,034
West North Central.....	5,301	4,962	234,385	460,849	.509	136,000
South Atlantic.....	6,801	6,308	420,391	696,204	.604	710,373
East South Central.....	4,719	4,517	221,919	556,704	.399	148,794
West South Central.....	10,047	8,861	426,882	944,098	.452	529,651
Mountain.....	6,279	6,193	474,229	707,547	.670	56,773
Pacific.....	4,112	3,983	400,307	532,889	.751	487,323
Outside continental United States..	478	431	30,830	59,586	.517	24,607

¹ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work. Includes weekly average for public roads.

² Includes \$2,190,216 estimated value of orders placed for public-road projects which cannot be charged to any specific geographic division.

Decreases in the number of workers employed during December were shown in all but two of the geographic divisions. The most marked decline in employment occurred in the West North Central States. The West South Central States, on the other hand, registered the most pronounced gain for the month. Average earnings per hour were highest in the Middle Atlantic States.

Material Orders Placed

SINCE the beginning of the Public Works Administration program, orders have been placed for materials valued at approximately \$1,103,000,000. (See table 24.) Of this amount, \$275,000,000 has been expended for iron and steel products, \$140,000,000 for cement, \$58,000,000 for forest products, and \$208,000,000 for machinery.

On The Works Program, which began in July 1935, material orders placed have been in excess of \$77,000,000. Previous sections of this report have shown the number of workers employed at the site of construction projects financed from Federal funds. The direct

employment, however, is only a partial picture, as the manufacture of the materials used on the projects also creates a large amount of employment.

It is estimated that in fabricating the materials listed in table 24, approximately 4,200,000 man-months of labor have been or will be created. This includes only the labor required in the fabrication of material in the form in which it is to be used. No estimate is made of the labor required in producing the raw material or in transporting it to the point of manufacture. In manufacturing structural steel, for example, the only labor included is that occurring in the fabricating mills. No estimate is made for the labor created in mining, smelting, and transporting the ore; nor for the labor in the blast furnaces, the open-hearth furnaces, and the blooming mills.

Table 24.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds from the Beginning of the Programs to Dec. 15, 1935

Type of material	Total	Projects				
		Public Works Administration ¹	Reconstruction Finance Corporation ²	Regular governmental ³	The Works Program ⁴	
				Federal construction	Operated by W. P. A. ⁵	
All materials.....	\$1,285,395,964	\$1,102,825,645	\$48,021,894	\$56,707,688	\$31,798,434	\$46,042,303
Textiles and their products.....	1,579,848	1,375,692	106,911	33,435	63,810	(⁶)
Awnings, tents, canvas, etc.....	237,824	227,682	1,286	2,451	6,375	-----
Carpets and rugs.....	59,164	59,164	-----	-----	-----	-----
Cordage and twine.....	345,841	281,548	7,788	18,473	38,032	-----
Cotton goods.....	249,257	153,125	93,390	1,732	1,010	-----
Felt goods.....	179,737	174,472	4,447	31	787	-----
Jute goods.....	68,570	68,524	-----	-----	46	-----
Linoleum.....	250,012	224,458	-----	10,420	15,134	-----
Sacks and bags.....	30,828	30,108	-----	73	647	-----
Upholstering materials, n. e. c.....	130,968	130,481	-----	-----	487	-----
Waste.....	27,647	26,130	-----	225	1,292	-----
Forest products.....	⁷ 70,327,091	57,962,957	1,670,410	2,345,120	3,137,489	⁸ 5,211,115
Cork products.....	190,353	178,427	2,508	6,417	3,001	-----
Creosote.....	540,599	540,562	-----	23	14	-----
Lumber and timber products n. e. c.....	56,495,873	49,994,876	1,662,402	1,952,630	2,885,965	-----
Planing-mill products.....	7,778,906	7,139,557	5,500	385,781	248,068	-----
Window and door screens and weatherstrip.....	110,245	109,535	-----	269	441	-----
Chemicals and allied products.....	12,631,698	9,395,803	1,502,215	480,003	478,356	775,321
Ammunition and related products.....	1,081,386	1,080,994	-----	-----	392	-----
Chemicals, miscellaneous.....	363,166	347,579	-----	5,633	9,954	-----
Compressed and liquefied gases.....	432,549	317,437	82,483	6,062	26,567	-----
Explosives.....	6,557,658	4,809,186	1,381,487	168,980	198,005	-----
Paints and varnishes.....	4,196,939	2,840,607	38,245	299,328	243,438	775,321
Stone, clay, and glass products.....	⁷ 370,243,351	323,168,143	6,375,076	12,037,920	10,273,403	⁸ 18,388,809
Asbestos products, n. e. c.....	78,202	77,406	-----	516	280	-----
Brick, hollow tile, and other clay products.....	22,094,249	17,724,872	371,320	693,160	235,871	3,069,026
Cement.....	161,251,096	140,170,153	3,354,542	5,004,002	7,317,171	5,405,228
Concrete products.....	29,108,463	24,143,629	1,889,102	486,661	360,226	2,228,845
Crushed stone.....	47,570,698	41,927,251	44,868	1,782,213	561,765	3,254,601

See footnotes at end of table.

Table 24.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds from the Beginning of the Programs to Dec. 15, 1935—Con.

Type of material	Total	Projects				
		Public Works Administration ¹	Reconstruction Finance Corporation ²	Regular governmental ³	The Works Program ⁴	
					Federal construction	Operated by W. P. A. ⁵
Stone, clay, and glass products—Continued.						
Glass.....	\$1,394,718	\$1,287,189	\$3,157	\$74,930	\$29,442	
Lime.....	220,842	204,095	8,884	4,176	3,687	
Marble, granite, slate, and other stone products.....	20,800,129	19,247,120	141,799	813,634	597,576	
Minerals and earths, ground or otherwise treated.....	128,732	119,753		6,726	2,253	
Sand and gravel.....	78,870,303	71,362,747	551,005	2,876,110	899,505	\$3,180,936
Tiling, floor and wall, and terrazzo.....	3,234,204	2,963,197	8,659	102,151	160,197	
Wall plaster, wall board, insulating board, and floor composition.....	4,241,542	3,940,731	1,740	193,641	105,430	
Iron and steel and their products, not including machinery.....	7,334,223,473	274,860,739	27,528,223	17,036,325	5,520,104	\$ 9,278,082
Bolts, nuts, washers, etc.....	3,608,440	3,342,756	12,409	150,194	103,081	
Cast iron pipe and fittings.....	27,489,688	23,341,463	495,084	252,349	303,323	3,097,469
Doors, shutters, and window sash and frames, molding and trim (metal).....	8,061,964	7,340,676	15,809	634,442	71,037	
Firearms.....	813,468	813,468				
Forgings, iron and steel.....	6,807,767	5,685,995	12,847	922,797	186,128	
Hardware, miscellaneous.....	8,446,343	6,820,899	905,192	392,784	327,468	
Heating and ventilating equipment.....	16,206,894	14,904,071	81,762	658,309	266,937	295,815
Nails and spikes.....	1,254,829	1,131,975	531	43,101	79,222	
Rail fastenings, excluding spikes.....	5,850,223	5,846,105		775	3,343	
Rails, steel.....	20,326,985	20,238,679	50,297	13,601	24,408	
Springs, steel.....	612,185	612,134			51	
Steel-works and rolling-mill products, n. e. c.....	96,821,948	70,765,505	20,205,366	4,840,018	1,011,059	
Stoves and ranges, other than electric.....	374,709	372,775		300	1,634	
Structural and reinforcing steel.....	114,627,462	98,291,395	3,797,799	8,412,553	1,659,653	2,466,062
Switches, railway.....	724,827	721,888			2,939	
Tools, other than machine tools.....	8,299,971	5,408,007	96,470	215,657	731,461	1,848,376
Wire products, n. e. c.....	9,118,617	6,274,391	1,854,657	456,230	533,239	
Wrought pipe.....	3,206,893	2,948,557		43,215	215,121	
Nonferrous metals and their products.....	9,089,296	5,964,713	2,172,290	706,639	245,654	(6)
Aluminum manufactures.....	360,208	313,218		46,912	78	
Copper products.....	3,031,564	750,285	2,089,262	177,433	14,584	
Lead products.....	355,215	282,414	1,490	70,806	506	
Nonferrous-metal alloys and products, n. e. c.....	1,650,937	1,422,539		222,023	6,375	
Sheet-metal work.....	3,631,878	3,136,765	81,538	189,466	224,109	
Zinc products.....	59,494	59,492			2	
Machinery, not including transportation equipment.....	7,236,835,358	208,421,935	5,433,780	16,309,781	5,271,689	\$ 1,398,173
Electrical machinery, apparatus, and supplies.....	56,952,078	51,347,456	1,415,441	2,779,047	766,831	643,303
Elevators and elevator equipment.....	2,239,773	1,932,203	4,546	274,241	28,783	
Engines, turbines, tractors, and waterwheels.....	24,789,632	18,164,961		5,635,480	989,191	
Foundry and machine-shop products, n. e. c.....	128,315,302	114,269,297	3,968,956	6,214,655	3,239,156	623,238
Machine tools.....	6,660,768	6,400,223	1,968	190,630	67,947	

See footnotes at end of table.

Table 24.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds from the Beginning of the Programs to Dec. 15, 1935—Continued

Type of material	Total	Projects				
		Public Works Administration ¹	Reconstruction Finance Corporation ²	Regular governmental ³	The Works Program ⁴	
					Federal construction	Operated by W. P. A. ⁵
Machinery, not including transportation equipment—Continued.						
Meters (gas, water, etc.) and gas generators.....	\$723, 512	\$722, 157		\$260	\$1, 095	
Pumps and pumping equipment.....	15, 839, 915	14, 469, 093	\$42, 869	1, 149, 420	178, 533	
Refrigerators and refrigerating and ice-making apparatus.....	1, 182, 746	1, 116, 545		66, 048	153	
Transportation equipment—air, land, and water.....	87, 624, 709	86, 723, 328	145, 746	63, 777	672, 713	\$19, 145
Aircraft (new).....	5, 764, 705	5, 764, 705				
Airplane parts.....	5, 086, 400	5, 086, 400				
Boats, steel and wooden (small).....	1, 397, 311	1, 376, 360		4, 742	16, 209	
Carriages and wagons.....	34, 539	31, 348		3, 160	31	
Locomotives, other than steam.....	11, 818, 333	11, 818, 333				
Locomotives, steam.....	6, 851, 576	6, 837, 076			14, 500	
Motorcycles and parts.....	274, 395	274, 395				
Motor vehicles, passenger.....	538, 988	520, 085		1, 419	17, 484	
Motor vehicles, trucks.....	9, 889, 253	9, 045, 417	145, 746	54, 456	624, 489	19, 145
Railway cars, freight.....	36, 646, 466	36, 646, 466				
Railway cars, mail and express.....	429, 443	429, 443				
Railway cars, passenger.....	8, 893, 300	8, 893, 300				
Miscellaneous.....	162, 841, 140	134, 952, 335	3, 087, 243	7, 694, 688	6, 135, 216	10, 971, 658
Belting, miscellaneous.....	34, 903	34, 111		610	182	
Coal.....	2, 190, 379	1, 723, 061	52, 901	297, 745	116, 672	
Electric wiring and fixtures.....	11, 827, 842	10, 479, 645	28, 906	894, 497	424, 794	
Furniture, including store and office fixtures.....	4, 805, 670	4, 397, 418	1, 780	23, 465	62, 845	320, 162
Instruments, professional and scientific.....	1, 937, 348	1, 874, 472		35, 253	27, 623	
Mattresses and bed springs.....	76, 883	76, 116		185	582	
Models and patterns.....	25, 508	25, 015			493	
Paper products.....	80, 536	77, 592		264	2, 680	
Paving materials and mixtures, n. e. c.....	24, 340, 908	17, 283, 092	38, 001	709, 137	298, 885	6, 011, 793
Petroleum products.....	40, 157, 301	34, 660, 694	686, 901	2, 671, 043	1, 187, 424	951, 239
Photographic apparatus and materials.....	221, 948	192, 837		4, 707	24, 404	
Plumbing supplies, n. e. c.....	14, 001, 877	12, 517, 742	249, 517	521, 298	382, 070	331, 250
Radio apparatus and supplies.....	982, 497	936, 068			46, 429	
Roofing materials, n. e. c.....	4, 592, 856	4, 084, 680	4, 934	256, 098	247, 144	
Rubber goods.....	685, 245	553, 472	78, 539	7, 249	45, 985	
Steam and other packing, pipe and boiler covering, and gaskets.....	1, 247, 753	1, 120, 808	67, 503	41, 837	17, 605	
Theatrical scenery and stage equipment.....	59, 787	59, 787				
Window shades and fixtures.....	198, 526	191, 946			6, 580	
Other materials.....	55, 373, 373	44, 663, 779	1, 878, 261	2, 231, 300	3, 242, 819	3, 357, 214

¹ Includes value of material orders placed on P. W. A. projects financed from the Emergency Relief Appropriation Act of 1935.

² Value of material orders placed on projects financed from R. F. C. loans from Mar. 15, 1934, to Dec. 15, 1935.

³ Value of material orders placed on projects financed from R. G. A. from July 1, 1934, to Dec. 15, 1935.

⁴ Value of material orders placed on P. W. A. projects financed from E. R. A. A., 1935, included under P. W. A.

⁵ Value of material orders placed from beginning of program to Dec. 31, 1935.

⁶ Included in "Other materials."

⁷ Includes materials for projects operated by the W. P. A. which are not classified in detail.

⁸ Includes materials in this group which are not classified in detail.

The information concerning man-months of labor created in fabricating materials is obtained by sending a questionnaire to each firm receiving an award for materials to be financed from Federal or State funds. The manufacturer is requested to make an estimate of the number of man-hours created in his plant in manufacturing the materials specified in the contract. For materials purchased directly by contractors, the Bureau estimates the man-months of labor created. This estimate is based upon the findings of the Census of Manufactures for 1933.

The value of material orders placed for use on Federal professional, technical, and clerical projects financed by The Works Program, by type of material, from the beginning of the program to December 15, 1935, is shown below. These figures are subject to revision.

	<i>Value of material orders placed</i>
Computing machines.....	\$23, 413
Furniture.....	119, 697
Office supplies.....	62, 476
Stationery.....	39, 977
Typewriters.....	28, 722
Other office machines.....	7, 789
Other materials.....	16, 103
Rental of machinery and equipment.....	20, 331
Total.....	318, 508

Furniture, office supplies, and stationery have accounted for more than two-thirds of the total expenditures for materials on professional, technical, and clerical projects.

A summary of the man-months of employment created in fabricating the materials used on the various programs is shown in table 25.

Table 25.—Number of Man-Months of Labor Created in Fabrication of Materials Purchased from Federal Funds

Program	From beginning of program to Dec. 15, 1935	From beginning of program to Nov. 15, 1935	Month ending Dec. 15, 1935
Total.....	4, 199, 347	3, 999, 028	200, 319
Public Works Administration, including E. R. A. A.....	3, 607, 208	3, 522, 220	84, 988
Reconstruction Finance Corporation.....	¹ 146, 051	¹ 142, 121	3, 930
Regular governmental.....	² 178, 392	² 159, 193	19, 199
The Works Program:			
Federal construction.....	100, 888	76, 933	23, 955
Professional, technical, and clerical.....	1, 247	1, 094	153
Operated by Works Progress Administration.....	165, 561	97, 467	68, 094

¹ For period beginning Mar. 15, 1934.

² For period beginning July 1, 1934.

State-Road Projects

EMPLOYMENT and pay-roll disbursements in the construction and maintenance of State roads declined during December. Compared with November, the number of workers employed on new road construction decreased 16.8 percent, and a decrease of 12.5 percent is shown in the number engaged in maintenance work. Of the 148,736 workers engaged on these projects in December, 18.2 percent were employed in the construction of new roads and 81.8 percent in maintenance work.

Statistics concerning employment and pay rolls in building and maintaining State roads in November and December are presented in table 26, by geographic divisions.

Table 26.—Employment on Construction and Maintenance of State Roads by Geographic Divisions, November and December 1935 ¹

Geographic division	New roads				Maintenance			
	Number of employees		Amount of pay roll		Number of employees		Amount of pay roll	
	December	November	December	November	December	November	December	November
All divisions.....	27,046	32,487	\$1,053,209	\$1,379,386	121,690	139,138	\$5,180,169	\$5,776,639
New England.....	9,356	11,618	394,154	540,115	7,971	8,665	431,991	558,145
Middle Atlantic.....	1,037	1,282	64,629	81,005	29,474	32,740	1,061,936	1,175,611
East North Central.....	1,516	2,899	72,454	158,062	19,338	20,044	813,177	853,741
West North Central.....	2,391	2,086	74,404	55,914	10,069	16,399	504,693	608,176
South Atlantic.....	6,819	7,347	126,519	138,754	23,436	27,487	737,847	871,857
East South Central.....	2,216	1,947	82,292	92,798	9,108	10,073	335,371	335,058
West South Central.....	1,200	2,389	45,444	92,102	12,452	13,101	559,867	590,082
Mountain.....	966	853	61,134	51,198	5,143	5,423	320,936	331,863
Pacific.....	1,545	2,066	132,179	169,438	4,556	5,040	404,474	441,469
Outside continental United States.....					143	166	9,877	10,637

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

In new road construction, losses in employment occurred in all geographic divisions except the West North Central, the East South Central, and the Mountain States. The New England States, with 2,262 fewer workers employed in December than in November, had the greatest decrease of any of the geographic areas.

During December there was a decrease of 17,448 in the number of employees engaged in maintenance work. The loss in employment was shared by all geographic areas. The West North Central States, with a decrease of 6,330 in the number of workers employed, had the most pronounced decline. Employment in the Middle Atlantic States (29,474) was the highest of any of the geographic divisions.

