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EMPLOYMENT AND PAY ROLLS

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Employment and Pay Rolls

SUMMARY OF REPORTS FOR JANUARY 1939

Total Nonagricultural Employment

SEASONAL employment declines in retail stores, factories, and construction accounted primarily for the decrease of approximately 880,000 in the number of workers engaged in nonagricultural industries in January as compared with December. This decline was only slightly larger than that which took place from December 1936 to January 1937, and was much smaller than the unusually sharp drop from December 1937 to January 1938. Compared with January of last year, there was a decrease of 100,000 workers. These figures do not include employees on Works Progress and National Youth Administration projects, enrollees in the Civilian Conservation Corps, nor certain temporary workers who are hired only during peaks of activity in some industries.

Emergency employment declined approximately 81,000 in January. This decline resulted from a reduction of nearly 92,000 in projects operated by the W. P. A., partly offset by increases in the number of C. C. C. enrollees and those on N. Y. A. work projects.

Industrial and Business Employment

There was a decrease of 1.9 percent in factory employment indicating the release of approximately 130,000 wage earners since December. Corresponding pay rolls fell 3.8 percent, representing a loss of \$6,300,000 in weekly wages. These decreases were of seasonal proportions. The index of factory employment for January (89.5 percent of the 1923-25 average) was 1.9 percent above the level of January 1938, when a sharp reduction in industrial activity was under way. The index of factory pay rolls (83.2 percent of the 1923-25 average) was 10.9 percent higher than a year ago.

Gains in employment since December were reported by 19 and increases in pay rolls by 16 of the 87 manufacturing industries surveyed monthly by the Bureau of Labor Statistics. For the durable-goods group there was a 1.8-percent decrease in employment and a 4.9-percent recession in pay rolls. For the nondurable-goods industries there was a somewhat greater than seasonal decline of 1.8

percent in employment, and a 2.7-percent drop in pay rolls. The industries in which substantial numbers of workers were laid off included beet sugar (11,900), sawmills (8,600), knit goods (8,500), confectionery (8,300), cigars and cigarettes (8,100), furniture (6,100), baking (5,200), men's furnishings (5,200), stoves (4,400), and newspapers (3,900). The following industries showed declines ranging from 2,400 to 3,600 workers: electrical machinery, cement, meat packing, paper boxes, radios and phonographs, and automobiles. Shoe factories added 10,800 workers to their pay rolls, millinery firms took on 3,000 wage earners, factories manufacturing agricultural implements added 2,600 workers, and fertilizer plants rehired 2,200 men.

In retail trade, there was a post-holiday decline in employment of 16.2 percent or well over half a million workers. The January 1939 employment index at 82.2 percent of the 1929 average was 2.2 percent below the level of a year ago. The December-January decline, which was slightly greater than seasonal, reflected the lay-off of the unusually large extra force taken on for the holiday trade. Employment in the general merchandising group decreased 37.0 percent but was only 0.8 percent below the level of January of last year. Apparel, jewelry, furniture, hardware, and cigar stores reported large employment losses. The other retail groups covered showed reductions of less than 5 percent, with the exception of dealers in wood, coal, and ice and in farm supplies, who increased the number of their employes by 4.0 percent and 0.3 percent, respectively.

Wholesale trade as a group reduced employment seasonally by 2.1 percent. The principal employment reductions were in firms selling food products, groceries, machinery, dry goods and apparel, farm products, and automobiles, equipment and parts. The only groups reporting increased employment were those dealing in farm supplies; forest products, except finished lumber; and metals and minerals.

Anthracite mines reduced their working forces 2.5 percent and bituminous coal mines 0.7 percent. Pay rolls in the coal-mining industries showed more pronounced declines than employment, reflecting reduced production during the first half of January. Employment in quarries declined 7.0 percent, which is less than seasonal, and showed a gain over January 1938 of 0.7 percent. Oil wells decreased their operating forces by 1.2 percent and metal mines by 1.5 percent. Power and light companies reported about the usual January employment decline (1.6 percent), telephone and telegraph firms reported 0.2 percent fewer workers, and electric railroads reported an 0.3 percent

employment cut. A seasonal loss of 3.8 percent occurred in dyeing and cleaning plants, and there were slight reductions in laundries and hotels. Personnel in brokerage and insurance offices was increased slightly by 0.1 and 0.6 percent, respectively. The gain in insurance companies raised the employment level 1.1 percent above the corresponding month of 1938.

In private building construction, the decrease of 11.5 percent in employment was, with the exception of January 1937, the smallest January reduction reported since 1933. All parts of the country reported reduced employment in construction, the smallest losses occurring in the Pacific Coast and East and West South Central States, while the largest declines were shown in the New England, the East and West North Central and Mountain States. The figures are based on reports which were supplied by 14,603 contractors employing 103,978 workers in January. They do not cover public construction projects financed by the Public Works Administration, Reconstruction Finance Corporation, or Works Progress Administration, or by regular appropriations of the Federal, State, or local governments.

A preliminary report of the Interstate Commerce Commission indicated a decrease between December and January of 1.4 percent, or 13,912 persons in the number employed by class I railroads. The total number reported for January was 929,770. Corresponding payroll figures for January were not available when this report was prepared. For December they amounted to \$150,372,130 as against \$149,011,526 for November, a gain of 0.9 percent.

Hours and earnings.—The average hours worked per week by wage earners in manufacturing industries were 36.3 in January, a decrease of 2.2 percent since December. The corresponding average hourly earnings were 65.1 cents, an increase of 0.2 percent as compared with the preceding month. Average weekly earnings decreased 1.9 percent to \$23.81.

Of the 14 nonmanufacturing industries for which man-hour data are available, 3 showed increases in average hours worked per week and 12 showed gains in average hourly earnings. Average weekly earnings were higher for 5 of the 16 nonmanufacturing industries surveyed.

Employment and pay-roll indexes and average weekly earnings in January 1939 for all manufacturing industries combined, for selected nonmanufacturing industries, and for class I railroads, with percentage changes over the month and year intervals, are presented in table 1.

TABLE 1.—Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, January 1939

Industry	Employment			Pay roll			Average weekly earnings		
	Index January 1939	Percentage change from—		Index January 1939	Percentage change from—		Average in January 1939	Percentage change from—	
		December 1938	January 1938		December 1938	January 1938		December 1938	January 1938
All manufacturing industries combined ¹	(1923-25=100) 89.5	-1.9	+1.9	(1923-25=100) 83.2	-3.8	+10.9	\$23.81	-1.9	+8.9
Class I steam railroads ²	52.1	-1.4	-3.1	(³)	(³)	(³)	(³)	(³)	(³)
Coal mining:	(1929=100)			(1929=100)					
Anthracite ⁴	50.0	-2.5	-16.0	38.0	-10.6	-18.4	24.74	-8.3	-2.8
Bituminous ⁴	88.7	-7	-8.5	78.1	-3.5	+10.9	23.27	-2.8	+21.2
Metalliferous mining.....	61.4	-1.5	-8.9	55.3	+2.2	-6.4	28.27	+3.8	+2.8
Quarrying and nonmetallic mining.....	38.5	-7.0	+7	30.3	-9.8	+9.4	19.76	-3.0	+8.6
Crude-petroleum producing.....	67.0	-1.2	-11.0	61.0	-2.3	-10.4	33.08	-1.1	+6
Public utilities:									
Telephone and telegraph.....	74.1	-2	-4.8	92.0	-5	-1.8	\$ 30.89	-3	+3.1
Electric light and power and manufactured gas.....	90.0	-1.6	-4.1	95.8	-2.5	-3.1	\$ 33.52	-9	+1.0
Electric-railroad and motor-bus operation and maintenance.....	69.2	-3	-4.2	71.1	+2.0	+8	\$ 33.53	+2.4	+5.2
Trade:									
Wholesale.....	88.1	-2.1	-3.2	75.5	-3	+ ⁽⁵⁾	\$ 29.62	+1.9	+3.4
Retail.....	82.2	-16.2	-2.2	69.7	-12.0	-6	21.71	+5.0	+1.6
General merchandising.....	90.7	-37.0	-8	84.0	-31.6	-7	18.38	+8.6	+1
Other than general merchandising.....	80.0	-7.0	-2.6	66.7	-5.0	-7	24.46	+2.2	+1.9
Hotels (year-round) ^{4,7}	91.8	-2	-2.7	80.2	-1.1	-1.6	\$ 15.01	-9	+1.1
Laundries ⁴	93.3	-1	-3.6	79.6	-6	-7	17.43	-4	+3.0
Dyeing and cleaning ⁴	94.2	-3.8	-2.6	65.8	-3.7	+4	19.15	+1	+3.1
Brokerage.....	(⁵)	+1	-8.0	(⁵)	-6	-10.1	\$ 36.44	-7	-2.3
Insurance.....	(⁵)	+4	+8	(⁵)	-3	-3	36.49	-6	-1.1
Building construction.....	(⁵)	-11.5	-12.9	(⁵)	-14.0	-10.6	28.18	-2.7	+2.3

¹ Revised indexes. Adjusted to 1935 Census of Manufactures. Indexes for earlier months and years given in table 3 of the November issue of the Monthly Labor Review.

² Preliminary. Source: Interstate Commerce Commission.

³ Not available.

⁴ Indexes adjusted to 1935 Census. Comparable series back to January 1929 presented in January 1938 issue of this pamphlet.

⁵ Average weekly earnings not strictly comparable with figures published in pamphlets prior to January 1938, as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

⁶ Less than 1/10 of 1 percent.

⁷ Cash payments only; the additional value of board, room, and tips cannot be computed.

Public Employment

Employment on projects financed by the Public Works Administration continued to increase with the gain in the number of projects under construction which were financed from funds provided by the Public Works Administration Appropriation Act of 1938. There were 217,000 employees for the month ending January 15, 1939, on all Public Works Administration projects, a gain of 23,000 over the number working in December 1938 and nearly double the number at work a year ago. Pay rolls for January 1939 were \$17,079,000.

During the month ending January 15 more than 2,800 men were working on projects of the United States Housing Authority, and pay rolls amounted to \$320,000. These figures cover new construction and demolition and pertain only to the projects started under the United States Housing Authority; those formerly under the Public Works Administration are shown with P. W. A. building construction projects in this report.

A seasonal decrease of 33,000 in employment occurred on construction projects financed from regular Federal appropriations. For the month ending January 15, 182,000 men were at work. Decreases in employment were reported for all types of projects with the following exceptions: Rural Electrification Administration projects, ship construction, and water and sewerage projects. Pay rolls on construction projects financed from regular Federal appropriations in January were \$18,704,000.

Slightly more than 2,500 men were working on construction projects financed by the Reconstruction Finance Corporation during the month ending January 15. Pay-roll disbursements for the period totaled \$290,000.

There was a further curtailment of work relief employment on projects operated by the Works Progress Administration in January when about 92,000 workers were laid off, reducing the number working to 2,895,000. As compared with last January, however, nearly 995,000 more persons were at work. Pay rolls for January 1939, amounting to \$155,733,000, were \$11,271,000 less than in December 1938, and \$62,395,000 more than the pay rolls for January a year ago. For the month ending January 15, the number of persons working on Federal projects under the Works Program declined 3,000 and pay rolls dropped \$405,000. A gain of 1,000 in employment was reported on work projects of the National Youth Administration. Data on employment and pay rolls for student aid in January will not be available until next month.

As the result of the beginning of an enlistment period there were 330,000 employees in camps of the Civilian Conservation Corps in January, an increase of 9,000 over the number for December. Of the total number employed 294,000 were enrollees, 5,000 reserve officers, 300 nurses, 1,600 educational advisers, and 29,000 supervisory and technical employees. For all groups of workers pay-roll disbursements in January totaled \$14,709,000.

In the regular services of the Federal Government decreases in employment were reported in all services with the exception of the legislative. Of the 864,000 employees in the executive service in January 120,000 were working in the District of Columbia, and 744,000 outside the District. Force-account employees (employees

who are on the Federal pay roll and are engaged on construction projects) were 10 percent of the total number of employees in the executive service. Increases in employment occurred in the number of force-account employees for the Panama Canal and in the administrative offices of the Public Works Administration. The Post Office and War Departments were among those agencies reporting decreased employment.

The effect of seasonal influences on employment on construction work was evident on State-financed road projects. During the month ending January 15, 153,000 men were working on these road projects, a decrease of 31,000 compared with the preceding period. Of the total number at work 18,000 were engaged on new road construction and 135,000 on maintenance. Pay rolls for both types of road work amounted to \$10,525,000.

A summary of Federal employment and pay-roll data for December 1938 and January 1939 is given in table 2.

TABLE 2.—Summary of Federal Employment and Pay Rolls, January 1939¹

[Preliminary figures]

Class	Employment		Per-centage change	Pay rolls		Per-centage change
	January 1939	December 1938		January 1939	December 1938	
Federal services:						
Executive ²	863,911	918,861	-6.0	\$131,382,390	\$142,064,975	-7.5
Judicial.....	2,228	2,271	-1.9	547,687	554,388	-1.2
Legislative.....	5,234	5,145	+1.7	1,209,738	1,197,211	+1.0
Military.....	339,680	340,891	-4	26,674,833	26,935,537	-1.0
Construction projects:						
Financed by P. W. A. ³	217,266	194,677	+11.6	17,079,092	16,160,889	+5.6
U. S. H. A. low-cost housing.....	2,774	2,301	+20.6	319,784	292,583	+9.3
Financed by R. F. C. ⁴	2,546	2,892	-12.0	290,403	308,347	-5.8
Financed by regular Federal appropriations.....	181,976	214,844	-15.3	18,704,411	20,190,980	-7.4
Federal projects under The Works Program.....	121,095	124,074	-2.4	5,509,841	5,914,821	-6.8
Projects operated by W. P. A.....	2,895,214	2,986,931	-3.1	155,733,123	\$ 167,004,505	-6.7
National Youth Administration:						
Work projects.....	238,862	237,399	+6	4,376,868	4,328,281	+1.1
Student aid.....	(⁵)	368,921	-----	(⁵)	2,395,855	-----
Civilian Conservation Corps.....	330,144	320,975	+2.9	14,709,313	14,449,956	+1.8

¹ Includes data on projects financed wholly or partially from Federal funds.

² Includes force-account and supervisory and technical employees shown under other classifications to the extent of 114,673 employees and pay-roll disbursements of \$13,943,027 for January 1939 and 124,937 employees and pay-roll disbursements of \$14,670,121 for December 1938.

³ Revised.

⁴ Data covering P. W. A. projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds and Public Works Administration Appropriation Act of 1938 funds are included. These data are not shown under The Works Program. Includes 36,993 wage earners and \$3,325,884 pay roll for January 1939; 46,049 wage earners and \$4,106,952 pay roll for December 1938, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 170,942 wage earners and \$12,626,438 pay roll for January 1939; 136,966 wage earners and \$10,747,455 pay roll for December 1938, covering Public Works Administration projects financed from funds provided by the Public Works Administration Appropriation Act of 1938.

⁵ Includes 256 employees and pay-roll disbursements of \$18,321 for January 1939; 241 employees and pay-roll disbursements of \$19,499 for December 1938 on projects financed by the RFC Mortgage Co.

⁶ January data not available.

DETAILED TABLES FOR JANUARY 1939

Industrial and Business Employment

MONTHLY reports on employment and pay rolls are available for the following groups: 87 manufacturing industries; 16 nonmanufacturing industries, including private building construction; and class 1 steam railroads. The reports for the first two of these groups—manufacturing and nonmanufacturing—are based on sample surveys by the Bureau of Labor Statistics. The figures on class I steam railroads are compiled by the Interstate Commerce Commission and are presented in the foregoing summary.

EMPLOYMENT, PAY ROLLS, HOURS, AND EARNINGS

The indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in January 1939 are shown in table 3. Percentage changes from December and January 1938 are also given.

Employment and pay-roll indexes, as well as average hours worked per week, average hourly earnings, and average weekly earnings for November and December 1938, and January 1939, where available, are presented in table 4. The November and December figures, where given, may differ in some instances from those previously published, because of revisions necessitated by the inclusion of late reports and other causes.

The average weekly earnings shown in tables 3 and 4 are computed by dividing the total weekly pay rolls in the reporting establishments by the total number of full- and part-time employees reported. As all reporting establishments do not supply man-hour data, average hours worked per week and average hourly earnings are necessarily based on data supplied by a smaller number of reporting firms. The size and composition of the reporting sample varies slightly from month to month and therefore the average hours per week, average hourly earnings, and average weekly earnings shown are not strictly comparable from month to month. The sample, however, is believed to be sufficiently adequate in virtually all instances to indicate the general movements of earnings and hours over the period shown. The changes from the preceding month, expressed as percentages, are based on identical lists of firms for the 2 months, but the changes from January 1938 are computed from chain indexes based on the month-to-month percentage changes.

TABLE 3.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, January 1939

MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1935 Census of Manufactures. Not comparable to indexes published in pamphlets prior to August 1938. Comparable series available upon request]

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index January 1939	Percentage change from—		Index January 1939	Percentage change from—		January 1939	Percentage change from—		January 1939	Percentage change from—		January 1939	Percentage change from—	
		December 1938	January 1938		December 1938	January 1938		December 1938	January 1938		December 1938	January 1938		December 1938	January 1938
All manufacturing	89.5	-1.9	+1.9	83.2	-3.8	+10.9	\$23.81	-1.9	+8.9	36.3	-2.2	(?)	Cents 65.1	+0.2	(?)
Durable goods.....	81.6	-1.8	-1	76.4	-4.9	+13.9	26.58	-3.1	+14.0	35.8	-2.9	(?)	72.9	-1	(?)
Nondurable goods.....	97.0	-1.8	+3.5	90.9	-2.7	+8.2	21.27	-8	+4.6	36.8	-1.6	(?)	58.5	+4	(?)
<i>Durable goods</i>															
Iron and steel and their products, not including machinery	85.9	-1.7	-6	77.7	-3.8	+27.6	26.38	-2.1	+28.4	34.8	-2.2	(?)	75.6	-4	(?)
Blast furnaces, steel works, and rolling mills.....	90.9	-2	-3.8	82.1	-1.3	+35.2	28.18	-1.1	+40.5	33.7	-3	+35.3	83.5	-7	+3.0
Bolts, nuts, washers, and rivets.....	91.1	-6	+9.6	89.8	-4.9	+56.5	24.62	-4.3	+42.7	35.4	-5.1	+43.1	69.6	+8	-(?)
Cast-iron pipe.....	65.7	-6	+7.1	52.7	-5.4	+17.8	18.95	-4.8	+10.3	32.4	-4.4	+11.8	57.8	-8	-1.4
Cutlery (not including silver and plated cutlery) and edge tools.....	81.3	-2.0	-1.7	74.2	-5.7	+11.4	23.30	-3.8	+13.4	38.6	-3.5	+14.5	61.2	+(?)	-2.4
Forgings, iron and steel.....	48.3	-2.5	-6.3	45.6	-7.7	+21.9	27.74	-5.3	+30.1	30.3	-5.5	+27.0	70.3	+2	+1.6
Hardware.....	84.7	-1.8	+12.7	81.8	-0.2	+47.3	23.42	-7.5	+30.6	35.5	-0.5	+29.0	66.0	-1.1	+1.6
Plumbers' supplies.....	72.0	-9	+2.0	60.8	-4	+14.2	24.00	+5	+12.1	36.0	+1.0	+11.3	66.7	-5	+5
Stamped and enameled ware.....	129.4	-3.7	+5.6	126.9	-6.7	+21.8	23.69	-3.1	+16.2	37.0	-3.9	+17.4	63.9	+7	-1.4
Steam and hot-water heating apparatus and steam fittings.....	65.7	-3.2	+1.8	53.9	-4.4	+12.7	24.73	-1.2	+10.7	35.3	-9	+13.4	69.9	-5	-2.2
Stoves.....	65.4	-12.5	+7.0	50.0	-18.5	+20.0	22.87	-6.8	+12.1	35.0	-5.3	+9.5	65.9	-2.0	+1.5
Structural and ornamental metalwork.....	61.7	-3	-6.8	51.8	-2.7	-4.3	26.59	-2.4	+2.5	36.5	-2.5	+1.5	73.1	+3	+1.0
Tin cans and other tinware.....	82.8	-1.6	-5.9	86.8	-1.2	-3.1	22.73	+4	+2.4	37.4	-8	+1.5	61.2	+1.0	+1.8
Tools (not including edge tools, machine tools, files, and saws).....	83.4	-6	+2.5	80.2	-2.2	+13.2	23.75	-1.6	+10.5	39.3	-9	+13.0	60.4	-7	-2.8
Wirework.....	162.8	-5.1	+10.0	157.8	-15.1	+25.9	23.40	-10.5	+13.1	35.0	-9.4	+14.6	67.0	-1.2	+1
Machinery, not including transportation equipment	91.5	-0.3	-12.0	87.4	-2.1	-8.1	26.50	-1.8	+4.5	36.6	-2.2	(?)	72.4	+0.3	(?)
Agricultural implements (including tractors).....	110.9	+5.6	-30.1	111.8	-1.4	-33.9	27.92	-6.7	-5.3	35.3	-5.9	-4.4	79.4	-1.1	-1.3
Cash registers, adding machines, and calculating machines.....	133.3	-9	-6.8	117.4	-1.1	-12.5	28.47	-2	-6.3	35.0	-8	-7.1	82.2	+2	+1.7
Electrical machinery, apparatus, and supplies.....	82.3	-1.8	-14.2	80.6	-2.5	-7.7	26.99	-7	+7.6	36.5	-1.4	+9.0	74.0	+7	-6

∞

Engines, turbines, water wheels, and wind-mills.....	87.1	+2.1	-5.4	98.4	+3	-5	29.21	-1.7	+5.1	37.2	-1.2	+3.3	78.8	-6	+1.7	
Foundry and machine-shop products.....	81.8	+1	-11.4	74.8	-1.5	-6.3	26.11	-1.6	+4.5	36.6	-1.7	+6.3	71.3	+1	-1	
Machine tools.....	121.1	+9	-18.3	120.0	+1	-20.6	28.17	-8	-2.8	38.1	-9	-3.8	74.0	+1	+9	
Radios and phonographs.....	108.4	-8.1	+26.1	96.8	-10.0	+33.2	22.15	-2.1	+5.6	37.7	-3.1	+14.5	59.1	+1.6	-6.7	
Textile machinery and parts.....	67.5	+9	+1.5	64.6	-3.5	+17.6	24.97	-4.3	+17.6	38.1	-7.1	+16.8	65.5	+2.9	-1.0	
Typewriters and parts.....	125.9	-1.6	+5.4	118.6	-9.0	+34.7	22.60	-7.6	+26.5	35.4	-7.0	+29.7	63.7	-6	-1.3	
Transportation equipment.....	95.8	-3	+16.0	91.9	-6.1	+35.9	31.16	-5.9	+17.2	34.8	-4.4	(?)	89.9	-4	(?)	
Aircraft.....	876.4	+3.7	-1	907.8	+3.2	+15.4	31.61	-5	+15.6	41.7	-7	+6.0	76.8	+1	+9.4	
Automobiles.....	106.2	-6	+25.4	100.6	-6.3	+56.2	31.37	-5.8	+26.9	34.0	-5.3	+24.2	92.3	-3	+5	
Cars, electric and steam-railroad.....	29.4	-1.1	-25.2	27.1	-3.8	-28.2	25.21	-2.8	-3.9	34.5	-3.1	-1.9	73.0	+3	-2.0	
Locomotives.....	18.6	+6.9	-56.6	15.3	+11.3	-59.4	26.38	+4.1	-6.2	33.9	+3.2	-6.8	77.7	+9	+5	
Shipbuilding.....	101.1	+6	-3.5	106.7	-5	-2.8	31.56	-1.1	+2.2	37.5	-1	+2.1	83.6	+1.5	-4	
Nonferrous metals and their products.....	92.4	-2.7	+4.1	84.7	-6.2	+13.1	24.74	-3.6	+8.7	37.0	-3.6	(?)	66.8	-4	(?)	
Aluminum manufactures.....	138.7	-1.2	+5	142.8	-9	+14.3	26.35	+4	+13.9	38.3	-4	+14.9	68.7	+8	-9	
Brass, bronze, and copper products.....	98.3	-1.9	+5.6	93.0	-6.0	+20.6	25.79	-4.2	+14.4	36.9	-3.5	+20.3	70.1	-9	-5.2	
Clocks and watches and time-recording devices.....	82.9	(?)	-1.9	80.0	-3.8	-2.5	20.41	-3.9	-1.0	35.0	-4.9	+2.5	58.2	+1.2	-2.9	
Jewelry.....	87.4	-9.8	+3.9	71.9	-15.3	+5.7	22.77	-6.0	+1.7	33.7	-5.4	+8.0	58.1	-2.1	-6.0	
Lighting equipment.....	89.8	-4.7	+21.4	78.2	-7.7	+45.6	24.47	-3.1	+20.8	35.2	-3.7	+17.2	69.3	+3	+2.3	
Silverware and plated ware.....	63.3	-5.4	+5.9	56.6	-17.0	+22.4	24.58	-12.3	+15.5	38.8	-10.2	+15.9	63.7	-2.2	+2	
Smelting and refining—copper, lead, and zinc.....	72.0	-7	-5.9	67.9	-5	-7.4	26.72	+2	-1.7	38.6	+4	-2.1	69.3	-1	+4	
Lumber and allied products.....	61.9	-3.4	+3.2	62.0	-7.3	+15.3	19.81	-4.0	+11.7	37.1	-2.3	(?)	54.1	-1.3	(?)	
Furniture.....	76.3	-4.4	+1.6	60.3	-11.1	+15.8	19.13	-7.0	+13.5	36.9	-6.6	+15.2	52.1	-4	-4.0	
Lumber:																
Millwork.....	53.0	-1.8	+9.6	42.7	-4.2	+23.2	21.33	-2.5	+12.7	39.0	-3.1	+14.4	54.8	+1.0	-8	
Sawmills.....	49.1	-3.6	+2.6	42.4	-5.5	+13.0	19.86	-2.0	+10.1	36.7	+5	+1.3	55.0	-2.4	+8.2	
Stone, clay, and glass products.....	66.4	-5.8	+5.2	56.8	-10.6	+18.6	22.98	-5.1	+12.6	35.1	-5.2	(?)	65.1	+6	(?)	
Brick, tile, and terra cotta.....	48.9	-4.7	+14.1	36.7	-6.7	+36.2	19.65	-2.1	+19.5	36.5	-2.4	+16.6	54.0	+5	+5	
Cement.....	53.4	-14.7	-1.5	47.0	-17.8	+7.1	24.54	-3.7	+7.9	35.7	-4.0	+7.9	69.0	+3	+7	
Glass.....	89.6	-3.6	+2.3	92.0	-7.5	+18.4	24.72	-4.0	+16.7	34.0	-5.2	+11.6	72.8	+1.2	+3.6	
Marble, granite, slate, and other products.....	36.6	-13.5	-2	25.6	-18.6	+2.9	23.62	-5.8	+4.5	34.1	-4.9	+2.3	69.8	-8	+1	
Pottery.....	78.6	-1.6	+5.7	66.3	-12.2	+15.2	21.83	-10.8	+9.0	35.5	-10.6	+6.5	62.8	+4	-1.3	
<i>Nondurable goods</i>																
Textiles and their products.....	97.5	-1.1	-8.7	80.8	-3.0	+18.8	16.73	-1.9	+9.4	34.9	-2.1	(?)	48.4	+3	(?)	
Fabrics.....	90.8	-1.1	+10.6	78.7	-3.0	+22.2	16.53	-1.8	+10.6	36.4	-2.1	(?)	46.2	+2	(?)	
Carpets and rugs.....	80.8	-8	+22.0	68.1	-4.3	+67.9	22.38	-3.5	+33.4	35.7	-3.3	+44.9	62.7	-2	-5.0	
Cotton goods.....	86.9	-2	+5.2	74.2	-2.0	+15.4	13.85	-1.8	+9.1	36.2	-1.6	+10.6	38.3	-2	-8.4	
Cotton small wares.....	83.9	-8	+17.5	70.5	-2.6	+34.9	18.07	-1.8	+14.7	38.8	-7	+14.9	47.5	-1	-1	
Dyeing and finishing textiles.....	113.3	+1.0	+9.1	96.9	-3	+15.2	20.85	-1.4	+5.4	38.3	-1.8	+11.1	54.1	+6	-5.2	
Hats, fur-felt.....	83.9	+1.8	-8.1	79.8	+5.9	+3.1	24.53	+4.1	+12.3	34.5	+1.5	+10.4	71.4	+2.1	-1.9	
Knit goods.....	110.5	-4.0	+6.9	111.7	-6.5	+18.6	17.87	-2.6	+11.0	35.6	-3.3	+14.3	51.1	+8	-3.1	
Hosiery.....	144.0	-1.2	+7.0	157.3	-4.1	+19.0	19.21	-2.9	+11.2	35.7	-3.7	+13.7	54.0	+6	-2.4	
Knitted outerwear.....	65.3	-17.3	+4.2	58.6	-20.0	+13.1	16.89	-3.2	+8.5	35.4	-5.3	+11.9	47.5	+2.3	-3.7	
Knitted underwear.....	68.5	-3.9	+3.6	58.3	-6.5	+20.9	14.39	-2.8	+11.4	34.5	-2.4	+17.7	41.8	-3	-4.9	
Knitted cloth.....	146.8	-8.4	+5.3	118.9	-6.3	+18.8	18.03	+2.3	+13.2	38.3	+4.0	+17.8	46.8	-1.5	-4.4	
Silk and rayon goods.....	63.0	-3	+9.0	50.7	-2.1	+26.5	15.45	-1.8	+16.2	36.4	-2.0	+21.4	42.0	-2	-4.7	
Woolen and worsted goods.....	84.4	-1.0	+36.3	70.9	-2.7	+39.0	19.48	-1.7	+2.1	37.0	-2.2	+14.6	62.6	+5	-11.1	

See footnotes at end of table.

TABLE 3.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, January 1939—Continued*

MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹			
	Index January 1939	Percentage change from—		Index January 1939	Percentage change from—		January 1939	Percentage change from—		January 1939	Percentage change from—		January 1939	Percentage change from—		
		December 1938	January 1938		December 1938	January 1938		December 1938	January 1938		December 1938	January 1938		December 1938	January 1938	
<i>Nondurable goods—Continued.</i>																
Textiles and their products—Continued.																<i>Cents</i>
Wearing apparel.....	111.0	-1.1	+5.4	82.4	-2.6	+13.5	\$17.39	-1.6	+7.7	32.3	-2.2	(?)	52.5	+0.4	(?)	
Clothing, men's.....	96.7	-4	+6.9	68.7	+6	+17.5	18.54	+9	+0.8	31.2	-6	+13.4	59.1	-1	-5.0	
Clothing, women's.....	159.6	-2	-2	111.7	-2.7	+8.6	18.70	-2.1	+8.8	32.7	-1.4	+8.1	32.2	+2	-8	
Corsets and allied garments.....	99.8	+3	+3.9	99.0	-4.0	+18.3	16.54	-4.3	+13.8	36.2	-3.0	+14.3	45.7	-5	-8	
Men's furnishings.....	123.0	-17.3	+14.5	101.0	-29.1	+23.8	13.03	-14.3	+9.8	33.6	-8.6	+23.6	36.3	-2.2	-3.1	
Millinery.....	67.1	+16.2	-4.3	55.3	+27.9	+1.2	21.16	+10.0	+5.9	31.7	+10.9	-8	64.3	+9	+4.2	
Shirts and collars.....	114.3	-1.9	+23.1	93.1	-11.6	+29.0	12.61	-9.9	+5.4	32.6	-7.8	+4.7	39.4	-4	-3.2	
Leather and its manufactures	92.9	+4.9	+9.7	77.5	+10.7	+12.3	19.71	+5.6	+8.3	39.1	+4.6	(?)	52.5	+1	(?)	
Boots and shoes.....	92.7	+5.8	+1.3	72.6	+14.7	+8.1	18.54	+8.4	+6.4	37.9	+6.0	+14.6	49.8	+2	-3.7	
Leather.....	86.0	+8	+14.8	88.3	+8	+26.3	24.76	-1	+10.0	39.0	-6	+10.1	69.9	+7	(-3)	
Food and kindred products	113.7	-5.3	-9	115.2	-4.7	-1.2	24.93	+6	-4	40.0	-1.1	(?)	62.8	+1.6	+1.5	
Baking.....	140.3	-2.2	-1.0	136.1	-1.5	-2	25.47	+7	+9	41.6	-7	-3	61.7	+2	+4.1	
Beverages.....	223.2	(-)	+8	252.1	-2.0	+6	31.38	-1.9	-2	36.9	-1.6	-2.5	85.8	-4	+5.0	
Butter.....	93.1	-2.1	-4.7	80.5	+1	-2.2	22.37	+2.2	+2.7	45.5	+7	+2.2	49.8	+3	+1.1	
Canning and preserving.....	78.6	-8.0	-7.1	70.5	-8.9	-5.8	16.47	-1.1	+1.3	34.7	-1.9	-1.0	18.6	+1	+1.1	
Confectionery.....	78.0	-14.6	-1.2	75.7	-17.3	+1.3	18.02	-3.2	+2.5	37.4	-7.1	+1.5	44.2	+3.8	(-3)	
Flour.....	77.2	-1.2	+1.4	74.7	+2.4	+3	25.18	+3.6	-1.0	41.6	+2.0	-4.7	60.1	+9	+3.8	
Ice cream.....	67.9	-1.2	-1	59.6	-8	+2.0	29.46	+4	+2.0	45.3	0	-1.5	63.9	+1	+2.9	
Slaughtering and meat packing.....	99.8	-2.5	-2.5	111.1	-1.3	-6.4	28.05	+1.3	-4.0	41.3	+6	-3.8	68.3	+5	-2	
Sugar, beet.....	85.4	-63.0	+125.0	73.2	-67.0	+74.9	22.08	-10.8	-21.7	33.5	-28.6	-13.1	65.6	+23.8	-13.7	
Sugar, refining, cane.....	84.7	+4	+8.4	74.7	+2.5	+11.6	23.77	+2.1	+3.7	36.3	-4.9	-4.1	67.4	+7.3	+7.5	
Tobacco manufactures	59.2	-9.2	+6.3	49.7	-16.8	-3.5	15.61	+8.1	-2.8	32.2	-10.7	(?)	48.1	+2	(-)	
Chewing and smoking tobacco and snuff.....	60.5	-2.5	-3.6	66.4	-9.0	-3.3	17.42	-6.6	+3	34.4	-5.6	-4	50.9	+1	-3	
Cigars and cigarettes.....	59.0	-10.0	+7.7	47.5	-18.0	+4.6	15.14	-8.9	-3.0	31.9	-11.4	-3.7	47.7	+2.7	+2	
Paper and printing	105.7	-2.1	-0.4	102.2	-4.8	+1.9	27.80	-2.7	+2.3	37.9	-2.1	(?)	76.5	+1	(-)	
Boxes, paper.....	98.1	-5.6	+5.4	99.5	-9.0	+13.7	20.65	-3.6	+7.9	34.4	-1.9	+8.7	51.4	+1.6	-0.7	
Paper and pulp.....	105.5	-8	(-)	102.6	-8	+6.6	23.82	0	+6.6	38.7	-6	+8.2	61.6	+7	-1.1	
Printing and publishing:																
Book and job.....	102.5	-1.2	-2.8	93.6	-3.4	-1.7	30.37	-2.2	+1.1	38.6	-1.8	+1	79.9	+4	+8	
Newspapers and periodicals.....	104.7	-3.0	-7	104.9	-7.3	-3	36.85	-4.5	+4	36.0	-2.9	-1.9	98.2	-1.1	+2.2	
Chemicals and allied products, and petroleum refining	111.9	-7	-2.4	119.7	-3	+3.5	23.63	+4	+5.9	38.3	+(-)	(?)	74.4	+2	(?)	
Petroleum refining.....	117.1	-8	-4.6	134.5	+3	-1.0	35.75	+1.2	+3.8	36.6	+5	+3.4	98.0	+6	+1	

Other than petroleum refining...	110.6	-7	-1.8	115.2	-5	+5.2	25.65	+3	+7.2	38.9	-2	(2)	65.8	0	(2)
Chemicals.....	115.5	-1.2	-3.9	127.9	-1.5	+2.1	30.63	-3	+6.3	39.3	-2	+6.4	78.0	-2	-3
Cottonseed—oil, cake, and meal.....	94.7	-16.8	-24.1	78.9	-17.4	-26.5	12.61	-6	-3.1	43.1	-1.4	-18.2	28.8	+6	+16.9
Druggists' preparations.....	107.6	-1.5	-2.0	118.5	-1.4	+4	24.93	+1	+3.5	39.1	-1.3	+1.1	60.3	+1.3	9
Explosives.....	81.4	-1.5	-4.2	89.9	-5.4	+12.3	30.63	-4.0	+18.0	37.7	-4.8	+14.6	81.3	+9	+2.3
Fertilizers.....	94.4	+14.8	+2.5	77.2	+10.2	-1.9	15.05	-4.0	-4.1	35.9	+9	-4.2	41.9	+4.7	+7
Paints and varnishes.....	111.8	-5	-6	113.1	-2.0	+8.7	27.34	-1.5	+9.4	39.2	-1.7	+8.8	69.9	+1	+6
Rayon and allied products.....	313.2	+6	+6.4	309.5	+2.4	+19.8	24.22	+1.8	+12.6	38.0	+2.5	+16.0	63.7	-7	-2.8
Soap.....	88.8	+2	+2.0	91.3	+1.8	+4.3	29.10	+1.7	+2.3	39.1	+1.0	+1	74.6	+6	+3
Rubber products.....	81.1	-3.0	+4.1	83.9	-5.7	+26.9	27.72	-2.8	+21.9	35.9	-4.0	(2)	76.8	+9	(2)
Rubber boots and shoes.....	81.1	-10.2	-2.1	56.8	-13.8	+16.2	21.78	-3.9	+18.8	36.5	-6.2	+18.6	59.7	+2.4	0
Rubber tires and inner tubes.....	67.1	-1	-2.5	76.2	-3.6	+27.1	32.59	-3.4	+30.5	34.2	-3.0	+30.5	95.7	-3	+2
Rubber goods, other.....	129.8	-3.7	+15.7	125.1	-6.5	+31.0	22.75	-2.9	+13.2	37.9	-3.9	-16.1	60.5	+6	-1.3

NONMANUFACTURING

[Indexes are based on 12-month average, 1929=100]

Coal mining:													Cents		
Anthracite ⁴	50.0	-2.5	-16.0	38.0	-10.6	-18.4	\$24.74	-8.3	-2.8	27.0	-7.8	-1.1	92.8	+1.2	+0.9
Bituminous ⁴	88.7	-7	-8.5	78.1	-3.5	+10.9	23.27	-2.8	+21.2	26.5	-3.2	+22.2	88.3	(2)	+8
Metalliferous mining.....	61.4	-1.5	-8.9	55.3	+2.2	-6.4	28.27	+3.8	+2.8	41.3	+3.7	+1.2	68.9	+2	+1.9
Quarrying and nonmetallic mining.....	38.5	-7.0	+7	30.3	-9.8	+9.4	19.76	-3.0	+8.6	36.0	-4.4	+6.3	54.8	+9	+2.3
Crude-petroleum producing.....	67.0	-1.2	-11.0	61.0	-2.3	-10.4	33.08	-1.1	+6	37.6	-2.6	-4.6	88.0	+1.2	+4.4
Public utilities:															
Telephone and telegraph ⁵	74.1	-2	-4.8	92.0	-5	-1.8	30.89	-3	+3.1	39.0	-3	-1.2	82.2	+3	+3.2
Electric light and power and manufactured gas ⁵	90.0	-1.6	-4.1	95.5	-2.5	-3.1	33.52	-9	+1.0	38.6	-3.4	-1.8	87.0	+2.6	+3.1
Electric-railroad and motor-bus operation and maintenance ⁵	69.2	-3	-4.2	71.1	-2.0	+8	33.53	+2.4	+5.2	46.3	+1.6	+3.0	71.5	+8	+2.3
Trade:															
Wholesale ⁷	88.1	-2.1	-3.2	75.5	-3	+(2)	29.62	+1.9	+3.4	41.7	-3	-1	70.7	+2.1	+2.9
Retail ⁷	82.2	-16.2	-2.2	69.7	-12.0	-6	21.71	+5.0	+1.6	42.5	+4	-5	55.1	+4.5	+2.5
General merchandising ⁵	90.7	-37.0	-8	84.0	-21.6	-7	18.38	+8.6	+1	40.0	-2.5	+3	48.4	+9	+6
Other than general merchandising ⁵	80.0	-7.0	-2.6	66.7	-5.0	-7	24.46	+2.2	+1.9	43.8	+6	-6	57.1	+1.6	+3.0
Hotels (year-round) ^{4, 5, 6}	91.8	-2	-2.7	80.2	-1.1	-1.6	15.01	-9	+1.1	46.4	-8	-1.9	31.9	-3	+2.6
Laundries ⁴	93.3	-1	-3.6	79.6	-6	-7	17.43	-4	+3.0	42.1	-8	+(2)	41.4	+2	+2.7
Dyeing and cleaning ⁴	94.2	-3.8	-2.6	65.8	-3.7	+4	19.15	+1	+3.1	40.4	-1.2	+3.4	48.9	+6	-2.1
Brokerage ⁴	(7)	+1	-8.0	(7)	-6	-10.1	36.44	-7	-2.3	(7)	(7)	(7)	(7)	(7)	(7)
Insurance ⁴	(7)	+4	+8	(7)	-3	+8	36.49	-6	-1.1	(7)	(7)	(7)	(7)	(7)	(7)
Building construction.....	(7)	-11.5	-12.9	(7)	-11.0	-10.6	28.18	-2.7	+2.3	30.3	-4.5	-1.5	93.2	+1.9	+3.5

¹ Average weekly earnings are computed from figures furnished by all reporting establishments. Average hours and average hourly earnings are computed from data supplied by a smaller number of establishments, as all reporting firms do not furnish man-hours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample. Hours and earnings for all manufacturing industries now relate to 87 industries instead of 89 which were covered in the July and prior issues of the pamphlet. The two industries excluded are electric- and steam-railroad repair shops. The averages for the durable goods group have also been affected by this exclusion.

² Not yet computed.

³ Less than 1/10 of 1 percent.

⁴ Indexes adjusted to 1935 Census. Comparable series back to January 1929 presented in January 1938 issue of this pamphlet.

⁵ Average weekly earnings, hourly earnings, and hours not strictly comparable with figures published in pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

⁶ Cash payments only; the additional value of board, room, and tips cannot be computed.

⁷ Not available.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries*

MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1935 Census of Manufactures. Not comparable to indexes published in pamphlets prior to Aug. 1938. Comparable series available upon request]

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	January 1939	December 1938	November 1938	January 1939	December 1938	November 1938	January 1939	December 1938	November 1938	January 1939	December 1938	November 1938	January 1939	December 1938	November 1938
All manufacturing	89.5	91.2	90.5	83.2	88.5	84.1	\$23.81	\$24.30	\$23.82	36.3	37.1	36.5	Cents 65.1	Cents 64.8	Cents 64.5
Durable goods.....	81.6	83.1	82.1	76.4	80.3	78.3	26.58	27.34	27.11	35.8	36.8	36.5	72.9	72.6	72.4
Nondurable goods.....	97.0	98.8	98.4	90.9	93.4	90.6	21.27	21.53	20.85	38.8	37.4	36.4	58.5	58.4	58.0
<i>Durable goods</i>															
Iron and steel and their products, not including machinery	85.9	87.4	86.5	77.7	80.8	79.1	26.38	26.90	26.64	34.8	35.6	35.1	75.5	75.7	75.7
Blast furnaces, steel works, and rolling mills.....	90.9	91.1	89.8	82.1	83.2	81.9	24.18	24.49	23.48	33.7	33.8	33.6	83.5	84.2	84.2
Bolts, nuts, washers and rivets.....	91.1	91.6	90.0	89.8	94.4	90.6	24.62	26.41	25.69	35.4	38.0	37.1	69.6	69.7	69.5
Cast-iron pipe.....	65.7	66.1	65.7	52.7	55.7	54.5	18.95	20.01	19.71	32.4	34.0	33.0	57.8	58.4	58.0
Cutlery (not including silver and plated cutlery) and edge tools.....	81.3	82.9	82.6	74.2	78.6	75.5	23.30	23.93	23.11	38.6	39.8	39.0	61.2	60.7	60.2
Forgings, iron and steel.....	48.3	49.6	48.0	45.6	49.4	44.4	27.74	29.25	27.18	36.3	38.4	36.3	76.3	76.2	74.9
Hardware.....	84.7	86.3	84.4	81.8	90.1	93.2	23.42	23.31	26.79	35.5	38.0	39.0	66.0	66.7	68.9
Plumbers' supplies.....	72.0	72.6	73.0	60.8	69.4	54.9	21.00	23.55	21.34	36.0	35.7	32.0	66.7	66.1	66.6
Stamped and enameled ware.....	129.4	134.3	133.6	126.9	136.0	133.5	23.69	24.33	24.03	37.0	38.5	38.1	63.9	62.9	63.0
Steam and hot-water heating apparatus and steam fittings.....	65.7	67.9	69.1	53.9	56.4	53.3	24.73	25.05	23.27	35.3	35.9	33.9	69.9	69.9	68.9
Stoves.....	65.4	74.7	78.9	50.0	61.4	62.7	22.87	24.30	23.55	35.0	36.9	35.5	65.9	67.2	66.7
Structural and ornamental metalwork.....	61.7	61.9	60.7	51.8	53.2	50.1	26.59	27.18	26.07	36.5	37.4	36.0	73.1	72.7	72.5
Tin cans and other tinware.....	82.8	84.1	84.6	86.8	87.9	87.5	22.73	22.76	22.60	37.4	37.7	37.3	61.2	60.8	60.7
Tools (not including edge tools, machine tools, files, and saws).....	83.4	83.9	80.9	80.2	82.0	75.8	23.75	24.19	23.24	39.3	39.6	38.0	60.4	61.2	61.2
Wirework.....	162.8	171.6	164.6	157.8	185.9	180.2	23.40	26.16	26.39	35.0	38.6	38.8	67.0	67.8	68.1
Machinery, not including transportation equipment	91.5	91.8	89.5	87.4	89.3	83.9	26.50	26.98	26.64	36.6	37.4	36.2	72.4	72.1	72.0
Agricultural implements (including tractors).....	110.9	105.0	96.6	111.8	113.5	95.0	27.92	29.76	27.08	35.3	37.3	34.3	79.4	80.2	79.4
Cash registers, adding machines, and calculating machines.....	133.3	134.6	135.4	117.4	118.8	119.7	25.47	28.51	28.57	35.0	35.1	35.0	82.2	82.1	82.3
Electrical machinery, apparatus, and supplies.....	82.3	83.9	83.2	80.6	82.7	80.4	26.99	27.26	26.60	30.5	37.1	36.7	74.0	73.6	73.0
Engines, turbines, water wheels, and windmills.....	87.1	85.3	83.5	98.4	98.0	91.6	29.21	29.73	28.35	37.2	37.7	36.2	78.8	79.3	78.6
Foundry and machine-shop products.....	81.8	81.7	78.9	74.8	75.9	70.6	26.11	26.48	25.51	36.6	37.2	35.8	71.3	71.2	71.1

Machine tools	121.1	119.9	117.6	120.0	120.0	110.8	28.17	28.44	26.78	38.1	38.4	36.3	74.0	74.0	73.8
Radios and phonographs.....	108.4	118.0	118.8	96.8	107.6	106.9	22.15	22.62	22.40	37.7	38.0	38.5	59.1	58.2	58.2
Textile machinery and parts.....	67.5	66.9	64.2	64.6	66.9	61.3	24.97	25.98	24.83	38.1	41.0	36.6	65.5	63.5	67.9
Typewriters and parts.....	125.9	127.9	124.9	118.6	130.3	130.9	22.61	24.46	24.39	35.4	38.1	37.9	63.7	64.1	64.4
Transportation equipment	95.8	96.1	91.6	91.9	97.9	95.0	31.16	32.72	33.64	34.8	36.4	37.1	89.9	89.8	90.6
Aircraft.....	876.4	845.1	814.9	677.8	879.6	799.9	51.61	31.72	24.81	41.7	42.0	40.2	76.8	76.5	75.1
Automobile.....	106.2	106.8	101.9	100.6	107.4	107.6	31.37	33.22	34.89	34.0	36.0	37.5	92.3	92.4	93.2
Cars, electric and steam-railroad.....	29.4	29.8	26.3	27.1	28.2	23.1	25.21	26.96	24.21	34.5	35.5	32.7	73.0	73.0	74.0
Locomotives.....	18.6	17.4	16.9	15.3	13.7	12.8	26.38	26.34	24.30	33.9	32.9	31.7	77.7	77.0	76.5
Shipbuilding.....	169.1	100.5	96.6	106.7	107.3	94.2	31.59	31.87	29.05	37.5	37.5	34.5	84.7	84.7	83.8
Nonferrous metals and their products	12.4	95.0	95.4	84.7	90.3	90.2	24.74	25.81	25.70	37.0	38.6	38.7	66.8	66.7	66.2
Aluminum manufactures.....	134.7	140.4	143.2	142.8	144.0	148.0	26.35	26.33	26.44	38.3	38.5	40.4	68.3	68.3	66.5
Brass, bronze, and copper products.....	98.3	100.2	100.5	93.0	98.9	99.8	25.79	26.92	27.14	36.9	38.2	38.3	70.1	70.7	71.0
Clocks and watches and time-recording devices.....	82.9	82.9	84.1	80.0	83.2	87.1	20.41	21.23	21.88	35.0	36.9	38.1	58.2	57.6	57.4
Jewelry.....	87.4	96.9	101.0	71.9	84.0	82.7	22.77	24.11	22.81	38.7	40.8	39.2	58.1	59.2	57.6
Lighting equipment.....	89.8	94.2	91.6	78.2	84.7	83.4	24.47	25.26	25.43	35.2	36.6	37.6	69.3	69.1	67.7
Silverware and plated ware.....	63.3	66.9	66.5	56.6	68.3	66.1	24.58	28.07	27.39	38.8	43.3	42.4	63.7	65.0	64.9
Smelting and refining—copper, lead and zinc.....	72.0	72.5	71.1	67.9	68.2	65.8	26.72	26.58	26.03	38.6	38.4	37.9	69.3	69.2	68.8
Lumber and allied products	61.9	64.1	65.2	62.0	65.1	66.2	19.81	20.14	19.91	37.1	38.0	37.6	54.1	53.2	53.3
Furniture.....	76.3	79.8	79.5	60.3	67.8	64.9	19.13	20.60	19.75	36.9	39.5	37.9	52.1	52.6	52.4
Lumber:															
Millwork.....	53.0	54.0	54.9	42.7	44.6	44.5	21.33	21.71	21.40	39.0	40.2	39.7	54.8	54.1	54.0
Sawmills.....	49.1	50.9	52.3	42.4	44.9	44.4	19.86	19.27	19.57	39.7	36.7	37.0	55.0	53.3	53.7
Stone, clay, and glass products	66.4	70.5	71.6	58.8	63.5	63.8	22.96	24.03	23.82	35.1	38.5	36.3	65.1	65.1	64.5
Brick, tile, and terra cotta.....	48.9	51.3	52.4	36.8	39.4	39.0	19.65	20.06	19.46	36.5	37.2	36.5	54.0	53.7	53.1
Cement.....	53.4	62.6	67.8	47.0	57.2	63.7	24.34	25.50	26.15	35.7	37.1	38.0	69.0	68.8	68.8
Glass.....	89.6	95.0	92.1	92.0	99.4	98.6	24.72	25.76	25.68	34.0	35.7	35.7	72.8	72.3	72.2
Marble, granite, slate, and other products.....	36.6	42.3	42.9	25.6	31.4	30.7	23.02	25.08	24.12	34.1	35.9	34.9	69.8	69.8	68.8
Pottery.....	78.6	79.9	80.0	66.3	75.5	74.5	21.83	23.56	23.12	35.5	38.0	36.8	62.8	61.9	62.4
<i>Nondurable goods</i>															
Textiles and their products	97.5	98.6	96.9	80.8	83.3	78.4	16.73	16.99	16.35	34.9	35.7	34.6	48.4	48.2	47.8
Fabrics.....	50.8	51.8	49.5	78.7	81.1	77.3	16.53	16.80	16.25	36.4	37.1	36.3	46.2	46.1	46.0
Carpets and rugs.....	80.8	81.5	79.6	68.1	71.1	66.9	22.88	23.03	22.26	35.7	36.8	35.5	62.7	62.8	62.8
Cotton goods.....	35.9	37.1	36.1	79.2	75.7	73.6	13.85	14.13	13.89	36.2	36.8	36.2	38.3	38.4	38.3
Cotton small wares.....	83.9	84.6	83.0	79.5	81.6	77.3	18.07	18.39	17.81	28.8	29.0	28.9	47.5	47.5	47.4
Dyeing and finishing textiles.....	143.3	112.1	109.3	96.9	97.2	92.7	20.85	20.87	20.47	38.3	39.0	38.2	54.1	53.2	53.0
Hats, fur-felt.....	83.9	82.4	82.8	79.8	75.3	70.1	24.58	23.84	21.77	34.5	34.0	31.5	71.4	70.5	69.7
Knit goods.....	140.5	115.1	114.2	111.7	119.5	118.5	17.87	18.15	18.18	35.6	37.0	36.9	51.1	50.2	50.5
Hosiery.....	141.0	145.7	144.8	157.3	164.1	165.0	19.21	19.51	19.74	35.7	37.1	37.4	54.0	53.0	53.8
Knitted underwear.....	65.3	79.0	78.2	58.6	73.3	65.6	16.89	17.87	16.81	35.4	38.0	36.6	47.5	46.7	45.0
Knitted underwear.....	68.5	71.2	70.9	58.3	62.4	61.4	14.39	14.75	14.58	34.5	35.2	35.0	41.8	41.9	41.5
Knitted cloth.....	144.8	160.2	155.8	118.9	126.8	119.6	18.03	17.93	17.45	35.3	38.1	37.3	46.8	46.9	46.2
Silk and rayon goods.....	63.0	63.2	61.7	50.7	51.8	48.6	15.45	15.79	15.15	36.4	37.2	35.6	42.0	42.3	42.1
Woolen and worsted goods.....	84.4	85.3	78.4	70.9	72.8	63.7	19.48	19.80	18.78	37.0	37.8	35.8	52.6	52.4	52.6
Wearing apparel.....	111.0	112.2	112.0	82.4	84.6	78.0	17.39	17.61	16.35	32.3	33.1	31.4	52.5	52.1	51.0
Clothing, men's.....	96.7	97.1	95.1	68.7	68.3	63.1	18.54	18.39	16.73	31.2	31.6	28.9	59.1	58.5	57.2
Clothing, women's.....	150.6	160.6	158.5	111.7	114.8	101.7	18.70	18.88	17.10	32.7	33.5	31.1	52.2	51.8	50.5

See footnotes at end of table.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries—Continued*

MANUFACTURING—Continued

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	January 1939	December 1938	November 1938	January 1939	December 1938	November 1938	January 1939	December 1938	November 1938	January 1939	December 1938	November 1938	January 1939	December 1938	November 1938
<i>Nondurable goods—Continued</i>															
Textiles and their products—Continued.															
Wearing apparel—Continued.															
Corsets and allied garments.....	99.8	99.5	98.5	99.0	103.1	99.8	\$16.54	\$17.35	\$16.96	36.2	37.3	36.8	<i>Cents</i> 45.7	<i>Cents</i> 45.7	<i>Cents</i> 46.0
Men's furnishings.....	123.0	148.8	149.5	101.0	142.5	149.9	13.03	15.08	15.87	33.6	35.8	39.4	36.3	37.6	38.2
Millinery.....	67.1	57.9	55.1	55.3	43.2	40.4	21.16	19.12	18.99	31.7	28.7	28.6	64.5	63.9	66.3
Shirts and collars.....	114.3	116.4	117.7	93.1	105.3	104.1	12.61	14.00	13.70	32.6	35.5	35.3	39.4	39.5	39.5
Leather and its manufactures.															
Boots and shoes.....	92.9	88.6	84.8	77.5	70.0	62.4	19.71	18.62	17.22	38.1	36.2	32.8	52.5	52.6	53.3
Leather.....	92.7	87.6	83.3	72.8	63.3	62.4	18.54	17.11	15.41	37.9	35.6	31.3	49.8	49.9	50.8
Food and kindred products.															
Baking.....	86.0	85.3	84.0	88.3	87.6	84.7	24.76	24.77	24.30	39.0	39.2	38.6	63.9	63.1	62.9
Beverages.....	113.7	120.1	123.4	115.2	120.9	122.4	24.93	24.75	24.22	40.0	40.4	40.1	62.8	61.9	61.2
Butter.....	140.3	145.5	144.6	136.1	138.2	130.7	35.47	35.26	35.21	41.6	41.4	41.6	61.7	61.5	61.1
Canning and preserving.....	223.2	223.3	229.2	252.1	257.2	264.7	31.38	32.02	32.11	36.9	37.5	37.8	85.8	86.1	85.7
Confectionery.....	93.1	95.1	96.8	80.5	80.4	82.4	22.37	22.10	22.27	45.5	45.3	45.8	49.8	48.4	48.7
Flour.....	78.6	85.3	103.3	70.5	77.4	86.0	16.47	16.55	15.14	34.7	35.4	33.5	48.6	48.1	47.0
Ice cream.....	78.0	91.3	90.6	75.7	91.5	84.9	18.02	18.65	17.40	37.4	40.4	37.8	48.2	46.5	46.7
Slaughtering and meat packing.....	77.2	78.1	78.2	74.7	73.0	73.8	25.18	24.42	24.67	41.6	40.8	41.6	60.1	59.7	59.6
Sugar, beet.....	67.9	68.7	70.4	59.6	60.0	60.7	29.46	29.21	28.59	15.3	15.2	14.9	63.9	63.8	63.5
Sugar, refining, cane.....	99.8	102.4	100.7	111.1	112.5	110.0	28.05	27.69	27.54	41.3	41.0	40.5	68.3	67.9	68.6
Tobacco manufactures.....	85.4	230.7	274.8	73.2	221.9	275.3	22.08	24.75	25.77	33.5	47.0	51.2	65.6	65.0	66.5
Chewing and smoking tobacco and snuff.....	84.7	84.4	86.6	74.7	72.9	75.4	23.77	23.29	23.46	36.3	38.2	37.7	65.4	61.0	62.2
Cigars and cigarettes.....	39.2	65.2	68.9	49.7	59.6	59.8	15.61	16.92	16.55	32.2	35.9	35.8	48.1	46.9	46.2
Paper and printing.....	60.5	62.1	61.9	66.4	73.0	69.1	17.42	18.40	17.47	34.4	36.3	34.2	50.9	50.9	51.3
Boxes, paper.....	59.0	65.6	67.5	47.5	57.9	58.5	15.14	16.56	16.33	31.9	35.9	35.9	47.7	46.4	45.6
Paper and pulp.....	105.7	108.0	107.0	102.2	107.3	103.3	27.80	28.61	27.58	37.9	38.6	37.9	76.5	77.1	78.3
Printing and publishing:	98.1	103.9	105.2	90.5	100.4	110.0	20.68	21.49	21.34	38.4	40.4	40.4	54.4	53.7	53.3
Book and job.....	105.5	106.3	105.9	102.6	103.4	102.9	23.82	23.85	23.78	34.7	39.0	38.9	61.6	61.3	61.2
Newspapers and periodicals.....	102.5	103.7	101.4	93.6	96.9	89.1	30.37	31.10	29.22	38.6	39.3	37.1	79.0	79.8	79.8
Chemicals and allied products, and petroleum refining.															
Petroleum refining.....	104.7	108.0	107.1	104.9	113.2	109.6	36.85	38.56	37.11	36.0	36.8	36.3	98.2	100.7	99.8
Other than petroleum refining.....	111.9	112.7	113.0	119.7	120.1	119.1	28.63	28.52	28.98	38.3	38.2	37.8	74.4	74.3	74.4
Chemicals.....	117.1	118.1	118.9	134.5	134.1	133.6	35.75	35.30	34.85	36.6	36.4	35.8	98.0	97.4	97.9
Cottonseed—oil, cake, and meal.....	110.6	111.4	111.6	115.2	115.8	114.6	25.65	25.66	25.41	34.9	38.9	38.6	65.8	65.8	65.7
	115.5	116.9	117.2	127.9	129.8	128.1	30.63	30.72	30.22	39.3	39.4	38.9	78.0	78.1	77.6
	94.7	113.9	116.3	78.9	95.5	100.1	12.61	12.76	13.11	43.1	43.4	44.7	28.8	29.0	28.8

Druggists' preparations.....	107.6	109.2	109.7	118.5	120.2	119.6	24.93	24.80	24.54	39.1	39.6	38.7	60.3	59.3	59.2
Explosives.....	81.4	82.7	82.8	89.9	95.1	91.7	30.63	31.64	30.45	37.7	39.5	38.0	81.3	80.1	80.2
Fertilizers.....	94.4	82.3	78.5	77.2	70.0	65.2	15.05	15.75	15.38	33.9	35.5	33.9	41.9	44.4	45.4
Paints and varnishes.....	111.8	112.4	112.4	113.1	115.4	113.8	27.34	27.80	27.34	39.2	39.9	39.4	69.9	69.9	63.5
Rayon and allied products.....	313.2	311.3	312.8	303.5	302.4	302.7	24.22	23.80	23.74	38.0	37.1	37.0	63.7	64.1	64.1
Soap.....	88.8	88.6	88.9	91.3	89.7	83.3	29.10	28.80	28.29	39.1	33.8	38.0	74.6	74.5	74.6
Rubber products.....	81.1	83.6	82.4	83.9	89.0	85.2	27.72	28.40	27.58	35.9	37.4	36.7	76.8	76.4	75.6
Rubber boots and shoes.....	58.4	65.1	63.4	56.8	65.9	60.6	21.78	23.17	21.88	36.5	38.8	36.6	59.7	59.7	59.7
Rubber tires and inner tubes.....	67.1	67.2	66.1	76.2	79.0	75.3	32.59	33.80	32.77	34.2	35.2	34.5	95.7	96.3	95.2
Rubber goods other.....	129.8	134.7	133.6	125.1	133.7	130.7	22.75	23.44	23.09	37.9	39.4	39.2	60.5	60.1	59.5

NONMANUFACTURING

[Indexes are based on 12-month average, 1929=100]

Coal mining:													Cents	Cents	Cents
Anthracite ¹	50.0	51.3	51.0	38.0	42.5	36.2	\$24.74	\$26.99	\$23.14	27.0	29.3	24.9	92.8	91.7	91.7
Bituminous ²	88.7	89.3	88.6	78.1	80.9	81.4	23.27	24.00	24.31	26.5	27.4	27.7	88.3	88.1	87.8
Metalliferous mining.....	61.4	62.3	61.9	55.3	51.1	52.3	28.27	27.16	26.36	41.3	39.8	38.7	68.9	68.5	68.4
Quarrying and nonmetallic mining.....	38.5	41.4	44.4	30.3	33.7	37.2	19.76	20.42	21.03	36.0	37.2	38.1	54.8	55.1	55.4
Crude-petroleum producing.....	67.0	67.8	68.3	61.0	62.5	63.3	33.08	33.89	34.22	37.6	38.7	39.0	88.0	85.9	86.1
Public utilities:															
Telephone and telegraph ³	74.1	74.3	74.4	92.0	92.5	93.0	30.89	30.85	30.96	39.0	39.1	39.2	82.2	81.7	82.4
Electric light and power and manufactured gas ³	90.0	91.4	91.9	95.8	98.2	98.6	33.52	33.56	33.61	38.6	40.0	39.8	87.0	84.1	84.7
Electric-railroad and motor-bus operation and maintenance ³	69.2	69.4	69.5	71.1	69.7	68.8	33.53	32.86	32.35	46.3	45.8	44.9	71.5	70.9	71.1
Trade:															
Wholesale ³	88.1	90.0	89.8	75.5	75.7	75.4	29.62	29.38	29.35	41.7	41.6	41.8	70.7	70.7	70.1
Retail ³	82.2	98.1	86.9	69.7	79.2	71.5	21.71	20.10	20.76	42.9	42.7	42.3	55.1	52.7	54.0
General merchandising ³	90.7	144.1	104.5	81.0	122.9	91.8	18.38	16.95	17.43	40.0	40.9	39.1	48.4	44.4	47.9
Other than general merchandising ³	80.0	89.0	82.3	66.7	70.1	67.3	24.46	23.66	23.91	43.8	43.5	43.4	57.1	56.3	56.1
Hotels (year-round) ^{2,3,4}	91.8	92.0	92.5	80.2	81.1	81.3	15.01	15.15	15.07	46.4	46.2	47.2	31.9	32.5	31.8
Laundries ²	93.3	93.4	93.7	79.8	80.0	79.3	17.43	17.43	17.30	42.1	42.2	41.8	41.4	41.4	41.6
Dyeing and cleaning ²	94.2	97.9	102.5	65.8	68.3	73.9	19.15	19.23	19.66	40.4	40.7	41.4	48.9	48.7	38.5
Brokerage ^{3,5}	+0.1	+0.2	+0.7	-0.6	+0.9	+1.5	36.44	36.59	36.22	(6)	(6)	(6)	(6)	(6)	(6)
Insurance ^{3,5}	+4	(7)	-2	-3	+1.9	+1.3	36.49	36.70	36.00	(6)	(6)	(6)	(6)	(6)	(6)
Building construction ⁵	-11.5	-6.8	-4.2	-14.0	-6.6	-8.4	28.18	28.97	28.95	30.3	31.7	31.9	93.2	91.4	90.7

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¹ Average weekly earnings are computed from figures furnished by all reporting establishments. Average hours and average hourly earnings are computed from data supplied by a smaller number of establishments, as all reporting firms do not furnish man-hours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample. Hours and earnings for all manufacturing industries now relate to 87 industries instead of 89 which were covered in the July and prior issues of the pamphlet. The 2 industries excluded are electric- and steam-railroad repair shops. The averages for the durable goods group have also been affected by this exclusion.

² Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this publication.

³ Average weekly earnings, hourly earnings, and hours not strictly comparable with figures published in pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

⁴ Cash payments only; the additional value of board, room, and tips cannot be computed.

⁵ Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted.

⁶ Not available.

⁷ Less than $\frac{1}{10}$ of 1 percent.

INDEXES OF EMPLOYMENT AND PAY ROLLS

Indexes of employment and pay rolls are given in table 5 for all manufacturing industries combined, for the durable- and nondurable-goods groups of manufacturing industries, and for each of 13 non-manufacturing industries, including 2 subgroups under retail trade, by months from January 1938 to January 1939, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to January 1939.

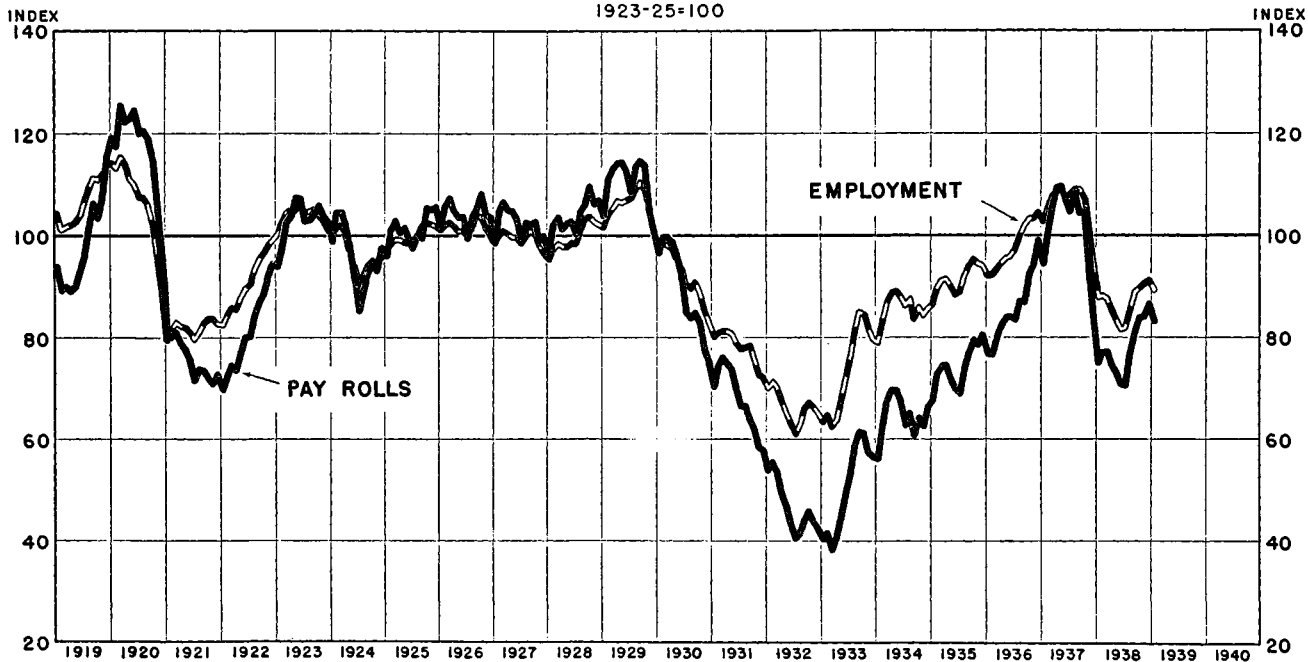
The indexes of factory employment and pay rolls are based on the 3-year average 1923-25 as 100. They relate to wage earners only and are computed from reports supplied by representative manufacturing establishments in 87 manufacturing industries. These reports cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 87 industries included in the monthly survey of the Bureau of Labor Statistics.

The indexes for the nonmanufacturing industries are based on the 12-month average for 1929 as 100. Figures for mining, laundries, and dyeing and cleaning cover wage earners only, but the figures for public utilities, trade, and hotels relate to all employees except corporation officers, executives, and other employees whose duties are mainly supervisory. For crude-petroleum producing they cover wage earners and clerical field force. The coverage of the reporting samples for the various nonmanufacturing industries ranges from 25 percent for wholesale trade to 90 percent for quarrying and nonmetallic mining.

Data for both manufacturing and nonmanufacturing industries are based on reports of the number of employees and amount of pay rolls for the pay period ending nearest the 15th of the month.

EMPLOYMENT AND PAY ROLLS ALL MANUFACTURING INDUSTRIES

1923-25=100



UNITED STATES BUREAU OF LABOR STATISTICS

TABLE 5.—Indexes of Employment and Pay Rolls in Selected Manufacturing¹ and Non-manufacturing² Industries, Inclusive

Industry	Employment													
	Av.	1938												1939
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Manufacturing														
All industries.....	86.8	87.8	88.2	87.7	85.7	83.4	81.6	81.9	85.7	88.8	89.5	91.2	89.5	
Durable goods ³	77.3	81.7	80.1	79.3	77.0	75.0	72.4	70.3	71.7	75.3	79.0	82.1	83.1	
Nondurable goods ⁴	95.9	93.7	95.9	95.8	94.0	91.5	90.3	92.9	99.0	101.6	99.4	98.4	97.0	
Nonmanufacturing														
Anthracite mining.....	52.3	59.6	60.0	59.3	57.0	52.8	56.0	44.6	37.6	46.4	52.4	51.0	51.3	
Bituminous-coal mining.....	86.7	96.9	95.5	93.2	85.8	82.2	80.2	78.5	80.1	83.4	87.2	88.0	88.7	
Metalliferous mining.....	59.0	67.4	63.6	62.3	61.6	58.8	56.0	49.7	51.4	55.2	57.9	61.9	62.3	
Quarrying and nonmetallic mining.....	42.3	38.2	37.8	38.9	41.7	43.7	43.6	44.1	44.6	44.6	44.4	44.4	41.4	
Crude-petroleum producing.....	72.1	75.3	71.2	73.6	73.8	73.2	72.8	72.3	72.4	71.5	69.5	68.3	67.8	
Telephone and telegraph.....	75.1	77.8	75.7	71.9	74.8	75.0	74.8	74.9	74.8	74.9	74.7	74.4	74.3	
Electric light and power, and manufactured gas.....	92.3	93.8	92.6	92.0	91.8	91.7	92.2	92.3	92.7	92.5	92.5	91.9	91.4	
Electric-railroad and motorbus operation and maintenance.....	70.3	72.3	71.2	70.8	71.1	70.6	70.4	70.1	69.5	69.3	69.9	69.5	69.4	
Wholesale trade.....	88.8	91.0	90.4	89.1	88.5	87.3	87.2	86.8	87.6	88.5	89.1	89.8	90.0	
Retail trade.....	85.2	84.1	82.4	83.0	88.2	83.8	83.6	81.1	80.0	84.7	85.9	86.9	98.1	
General merchandising.....	98.0	91.5	88.8	90.5	101.0	92.4	91.9	87.9	86.4	97.0	99.4	104.5	144.1	
Other than general merchandising.....	92.7	94.3	91.5	93.4	93.5	93.7	92.2	90.7	90.4	91.8	92.9	92.5	92.0	
Year-round hotels.....	95.7	96.8	95.7	94.8	95.4	96.2	96.6	97.8	97.5	96.3	94.4	93.7	93.4	
Laundries.....	104.3	96.8	95.6	98.5	111.8	109.9	110.8	108.6	105.0	107.8	106.8	102.5	97.9	
Dyeing and cleaning.....														
Pay rolls														
Manufacturing														
All industries.....	77.5	75.0	76.9	77.1	74.6	72.9	70.8	70.6	76.9	81.0	83.8	84.1	86.5	
Durable goods ³	68.2	67.1	67.2	67.4	65.6	64.2	61.7	58.6	63.7	68.7	75.2	78.3	80.3	
Nondurable goods ⁴	88.0	84.0	87.8	87.9	84.7	82.6	80.9	84.1	91.7	94.9	93.4	90.6	93.4	
Nonmanufacturing														
Anthracite mining.....	38.2	46.5	46.1	47.3	39.0	38.3	49.7	20.2	20.0	29.4	43.4	36.2	42.5	
Bituminous-coal mining.....	67.9	70.4	74.0	68.4	56.3	55.3	57.0	56.8	64.2	71.9	78.3	81.4	80.9	
Metalliferous mining.....	50.4	59.1	55.8	56.3	53.3	51.2	46.1	38.0	43.7	46.1	49.2	52.3	54.1	
Quarrying and nonmetallic mining.....	35.1	27.7	28.6	30.2	33.9	38.3	37.3	37.0	39.2	38.4	39.2	37.2	33.7	
Crude-petroleum producing.....	66.5	68.2	69.6	68.0	68.0	66.7	67.6	66.7	66.8	66.5	63.7	63.3	62.5	
Telephone and telegraph.....	92.1	93.7	89.9	92.0	91.6	91.3	90.9	90.9	91.3	92.6	95.3	93.0	92.5	
Electric light and power, and manufactured gas.....	98.5	98.9	98.5	98.6	97.6	97.4	98.6	98.3	98.9	98.4	99.9	98.6	98.2	
Electric-railroad and motorbus operation and maintenance.....	69.7	70.6	70.2	69.9	70.0	71.2	69.7	69.0	69.5	68.4	68.9	68.8	69.7	
Wholesale trade.....	74.7	75.4	75.3	74.7	74.6	75.1	73.8	73.6	73.7	74.3	75.1	75.4	75.7	
Retail trade.....	70.4	70.1	68.4	68.6	72.2	70.0	69.5	68.1	66.8	69.4	70.8	71.5	79.2	
General merchandising.....	87.8	84.6	81.5	82.2	89.4	84.4	84.3	80.4	78.8	85.3	88.3	91.8	122.9	
Other than general merchandising.....	66.8	67.1	65.7	65.8	68.6	67.0	66.4	65.6	64.3	66.1	67.2	67.3	70.1	
Year-round hotels.....	80.3	81.6	83.6	80.9	80.5	80.5	79.6	77.4	77.4	78.9	80.8	81.3	81.1	
Laundries.....	80.6	80.1	79.1	78.6	80.6	80.9	81.8	83.0	83.1	81.4	79.5	79.3	80.0	
Dyeing and cleaning.....	75.3	65.5	65.2	68.2	87.2	80.7	83.3	77.5	81.7	81.7	78.0	73.9	68.3	

¹ 3-year average, 1923-25=100—adjusted to 1935 Census of Manufactures. Comparable indexes for earlier months are in August 1938 issue of pamphlet and November 1938 issue of Monthly Labor Review.

² 12-month average for 1929=100. Comparable indexes are in November 1931 and subsequent issues of Employment and Pay Rolls, or in February 1935 and subsequent issues of Monthly Labor Review, except for anthracite and bituminous-coal mining, year-round hotels, laundries, and dyeing and cleaning. Indexes for these industries from January 1929 forward have been adjusted to the 1935 census and are presented in the January 1938 and subsequent issues of Employment and Pay Rolls.

³ Includes: Iron and steel, machinery, transportation equipment, railroad repair shops, nonferrous metals, lumber and allied products, and stone, clay, and glass products.

⁴ Includes: Textiles and their products, leather and its manufactures, food and kindred products, tobacco manufactures, paper and printing, chemicals and allied products, products of petroleum and coal, rubber products, and a number of miscellaneous industries not included in other groups.

TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in December 1938 and January 1939 is shown in table 6 for all groups combined and for all manufacturing industries combined based on data supplied by reporting establishments. The percentage changes shown, 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.

The totals for all manufacturing industries combined include figures for miscellaneous manufacturing industries in addition to the 87 manufacturing industries presented in table 3. The totals for all groups combined include all manufacturing industries, each of the nonmanufacturing industries presented in table 3 (except building construction), and seasonal hotels.

Similar comparisons showing only percentage changes are available in mimeographed form for "all groups combined," for "all manufacturing," for anthracite mining, bituminous-coal mining, metalliferous mining, quarrying, and nonmetallic mining, crude-petroleum producing, public utilities, wholesale trade, retail trade, hotels, laundries, dyeing and cleaning, and brokerage and insurance.

TABLE 6.—Comparison of Employment and Pay Rolls in Identical Establishments in January 1939, 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 January 1939	Percentage change from December 1938	Amount of pay roll (1 week) January 1939	Percentage change from December 1938	Number of establishments	Number on pay roll January 1939	Percentage change from December 1938	Amount of pay roll (1 week) January 1939	Percentage change from December 1938
				<i>Dollars</i>					<i>Dollars</i>	
New England.....	12,467	837,342	-3.4	19,101,880	-3.5	3,586	582,832	-1.0	12,638,166	-2.4
Maine.....	780	50,080	-1.8	1,004,376	-1.6	272	42,266	-1.3	816,925	-1.0
New Hampshire.....	616	42,634	+2.5	868,732	+2.7	201	35,780	+4.4	705,695	+3.4
Vermont.....	455	15,472	-4.1	327,331	-4.1	150	9,540	-4.3	193,961	-5.2
Massachusetts.....	¹ 7,892	<i>555,528</i>	<i>-4.5</i>	<i>10,700,638</i>	<i>-3.6</i>	<i>1,789</i>	<i>267,168</i>	<i>-1.1</i>	<i>5,890,277</i>	<i>-1.7</i>
Rhode Island.....	1,145	92,645	-2.9	1,934,544	-3.6	424	76,135	-1.7	1,516,425	-3.2
Connecticut.....	1,779	180,983	-2.4	4,266,259	-4.6	730	151,943	-1.4	3,534,883	-4.4
Middle Atlantic.....	31,246	1,949,194	-5.0	50,620,771	-4.8	6,468	1,154,074	-1.7	29,139,104	-2.5
New York.....	19,824	875,686	-6.9	23,916,511	-5.3	² 2,578	<i>422,721</i>	<i>-1.6</i>	<i>11,338,924</i>	<i>-1.9</i>
New Jersey.....	3,866	322,641	-2.4	8,209,786	-3.1	1,617	268,769	-1.7	6,731,796	-3.1
Pennsylvania.....	7,556	750,867	-3.9	18,494,474	-4.8	2,273	<i>362,584</i>	<i>-1.8</i>	<i>11,068,384</i>	<i>-2.9</i>
East North Central.....	24,137	2,020,852	-4.0	54,177,219	-5.3	8,456	1,521,670	-1.5	41,472,502	-4.3
Ohio.....	6,610	496,241	-3.8	13,028,577	-5.9	2,381	380,886	-1.7	10,141,348	-5.2
Indiana.....	<i>2,910</i>	<i>237,973</i>	<i>-5.9</i>	<i>6,656,923</i>	<i>-5.9</i>	<i>1,061</i>	<i>191,555</i>	<i>-3.1</i>	<i>4,971,910</i>	<i>-5.2</i>
Illinois.....	⁴ 6,838	<i>572,732</i>	<i>-4.0</i>	<i>14,956,580</i>	<i>-3.8</i>	<i>2,429</i>	<i>371,989</i>	<i>-1.2</i>	<i>9,627,158</i>	<i>-2.6</i>
Michigan.....	3,460	491,768	-2.8	14,649,517	-5.8	<i>1,064</i>	<i>422,227</i>	<i>-1.6</i>	<i>12,884,808</i>	<i>-1.5</i>
Wisconsin.....	⁵ 4,319	<i>222,138</i>	<i>-5.0</i>	<i>5,485,622</i>	<i>-5.9</i>	⁶ 1,521	<i>154,973</i>	³ <i>-1.9</i>	<i>3,817,298</i>	³ <i>-5.0</i>

See footnotes at end of table.

TABLE 6.—Comparison of Employment and Pay Rolls in Identical Establishments in January 1939, by Geographic Divisions and by States—Continued

Geographic division and State	Total—all groups				Manufacturing					
	Number of establishments	Number on pay roll January 1939	Percentage change from December 1938	Amount of pay roll (1 week) January 1939	Percentage change from December 1938	Number of establishments	Number on pay roll January 1939	Percentage change from December 1938	Amount of pay roll (1 week) January 1939	Percentage change from December 1938
				<i>Dollars</i>				<i>Dollars</i>		
West North Central	11,433	405,843	-4.7	9,911,241	-3.4	2,441	205,913	-2.3	4,991,131	-2.7
Minnesota.....	⁷ 2,763	114,202	-7.4	5,024,347	-6.1	629	46,735	-5.5	1,200,339	-8.5
Iowa.....	1,747	55,301	-2.3	1,329,228	-2	356	33,203	+3	825,602	+2.0
Missouri.....	2,514	149,341	-2.5	3,502,704	-1.4	775	90,152	+6	2,050,251	+1.1
North Dakota.....	540	4,272	-6.6	101,345	-4.8	28	414	-4.8	11,201	-2.5
South Dakota.....	431	7,632	-4.6	206,565	-1.2	34	2,496	-9.2	66,565	-7.4
Nebraska.....	1,158	24,423	-9.4	565,510	-6.5	133	8,986	-13.3	229,923	-12.0
Kansas.....	⁸ 2,280	50,672	-8.6	1,181,482	-4.5	486	23,229	-3.9	607,200	-4.8
South Atlantic	9,917	815,551	-2.6	15,358,664	-3.7	2,870	677,866	-8	9,981,345	-3.1
Delaware.....	230	14,288	-2.0	330,907	-1.7	83	10,594	+7	249,873	+5
Maryland.....	1,561	124,456	-6.1	2,979,179	-5.6	622	85,991	-2.6	2,023,260	-4.3
District of Columbia.....	975	30,849	-7.6	859,283	-4.8	40	3,342	-3.1	111,550	-5.9
Virginia.....	1,863	104,623	-3.0	1,911,296	-3.7	436	74,945	-1	1,334,151	-2.4
West Virginia.....	1,070	125,056	-2.2	3,019,348	-4.0	206	48,207	-2.2	1,160,218	-5.7
North Carolina.....	1,536	173,867	-1.8	2,596,208	-3.0	674	160,397	-1	2,362,872	-2.4
South Carolina.....	700	88,184	-6	1,254,372	-1.4	244	81,259	+2.2	1,123,513	-1.1
Georgia.....	1,099	106,464	-1.7	1,601,221	-3.5	384	89,382	-8	1,260,597	-3.5
Florida.....	883	47,785	+1.7	806,850	-3	181	23,839	-7	355,311	-3.3
East South Central	4,289	281,072	-2.4	5,105,735	-3.2	1,015	179,046	-6	3,087,148	-1.6
Kentucky.....	1,249	78,234	-3.7	1,589,593	-5.7	281	32,812	-3.5	691,659	-4.1
Tennessee.....	1,175	93,051	-3.4	1,620,363	-3.1	359	70,125	-1.3	1,198,127	-2.0
Alabama.....	1,379	92,838	-3.8	1,652,971	-1.4	290	64,208	+1.0	1,038,759	-1.1
Mississippi.....	486	16,949	-3	242,898	+1.5	85	11,901	+3.7	158,603	+4.2
West South Central	4,964	191,292	-5.1	4,155,528	-4.0	1,275	97,481	-2.4	2,003,120	-3.5
Arkansas.....	¹⁰ 1,147	33,773	-5.8	578,718	-3.6	319	21,432	-8	350,151	-2.9
Louisiana.....	925	48,379	-5.0	950,025	-6.3	236	28,580	-4.8	525,915	-8.9
Oklahoma.....	1,207	34,171	-5.3	826,509	-3.0	133	8,794	-4.6	196,831	-3.8
Texas.....	1,685	74,969	-4.7	1,800,276	-3.3	587	58,405	-1.0	930,223	-3
Mountain	3,808	108,833	-8.9	2,807,974	-7.8	558	31,722	-16.2	761,374	-19.2
Montana.....	537	15,825	-10.7	472,808	-5.4	74	4,573	-10.8	119,955	-11.4
Idaho.....	460	9,522	-12.7	222,192	-15.2	64	3,212	-25.1	64,707	-36.7
Wyoming.....	274	7,809	-6.5	219,584	-11.3	38	1,319	-21.0	40,794	-22.8
Colorado.....	1,037	36,181	-9.7	891,490	-9.5	197	13,100	-16.4	317,720	-18.8
New Mexico.....	266	5,565	-4.2	124,063	-5	29	883	+9	16,058	+6.5
Arizona.....	399	14,152	-1.6	376,995	+4	41	2,731	-1.9	63,483	-1.1
Utah.....	471	17,436	-11.8	427,468	-10.3	102	5,704	-20.7	133,023	-23.7
Nevada.....	162	2,340	-3.2	73,374	-2.8	13	200	-13.4	5,634	-17.7
Pacific	9,991	411,670	-4.9	11,973,909	-3.4	2,542	210,878	-3.6	5,855,297	-4.1
Washington.....	2,571	77,608	-6.4	2,093,871	-3.3	540	45,434	-4.6	1,219,151	-1.9
Oregon.....	1,146	41,291	-1.6	1,078,183	-1.4	287	24,235	+1.5	604,421	-5
California.....	¹¹ 6,274	292,771	-4.9	8,801,855	-3.7	1,715	141,209	-4.0	4,031,605	-5.3

¹ Includes banks and trust companies; construction, municipal, agricultural, and office employment, amusement and recreation; professional services; and trucking and handling.

² Includes laundering and cleaning; and water, light, and power.

³ Weighted percentage change.

⁴ Includes automobile and miscellaneous services; restaurants; and building and contracting.

⁵ Includes construction but not public works.

⁶ Does not include logging.

⁷ Includes banks; real estate; pipe-line transportation; trucking and transfer; railroads (other than repair shops); motor transportation (other than operation and maintenance); water transportation; hospitals and clinics; personal, business, mechanical repair and miscellaneous services; and building construction.

⁸ Includes financial institutions, miscellaneous services, and restaurants.

⁹ Weighted percentage change includes hired farm labor.

¹⁰ Includes automobile dealers and garages; and sand, gravel, and building stone.

¹¹ Includes banks, insurance, and office employment.

**INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL
METROPOLITAN AREAS**

A comparison of employment and pay rolls in December 1938 and January 1939 is made in table 7 for 13 metropolitan areas which had a population of 500,000 or over in 1930. Cities within these areas, but having a population of 100,000 or over, are not included. Data concerning them are presented in a supplementary tabulation which is available on request.

Footnotes to the table indicate which cities are excluded. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 3, with the exception of building construction, and include also miscellaneous industries.

Revisions made in the figures after they have gone to press, chiefly because of late reports by cooperating firms, are incorporated in the supplementary tabulation mentioned above. This supplementary tabulation covers these 13 metropolitan areas as well as other metropolitan areas and cities having a population of 100,000 or more according to the 1930 Census of population.

TABLE 7.—Comparison of Employment and Pay Rolls in Identical Establishments in December 1938 and January 1939 by Principal Metropolitan Areas

Metropolitan area	Number of establishments	Number on pay roll January 1939	Percentage change from December 1938	Amount of pay roll (1 week) January 1939	Percentage change from December 1938
New York, N. Y. ¹	14,658	662,080	-6.7	17,444,138	-6.1
Chicago, Ill. ²	4,477	413,118	-3.9	11,349,987	-3.4
Philadelphia, Pa. ³	2,081	207,542	-4.5	5,576,312	-3.7
Detroit, Mich.....	1,432	322,921	-1.9	10,301,096	-5.6
Los Angeles, Calif. ⁴	2,848	147,574	-6.5	4,367,035	-5.5
Cleveland, Ohio.....	1,517	100,296	-3.7	2,745,702	-4.3
St. Louis, Mo.....	1,341	113,908	-1.4	2,753,874	+1.0
Baltimore, Md.....	1,125	94,424	-7.2	2,251,836	-7.0
Boston, Mass. ⁵	1,712	125,747	-5.7	3,386,850	-4.6
Pittsburgh, Pa.....	1,092	160,474	-4.5	4,236,454	-3.7
San Francisco, Calif. ⁶	1,746	87,277	-5.3	2,602,514	-5.1
Buffalo, N. Y.....	767	64,227	-5.9	1,675,235	-6.8
Milwaukee, Wis.....	995	92,898	-4.8	2,487,278	-4.3

¹ Does not include Elizabeth, Jersey City, Newark, or Paterson, N. J., nor Yonkers, N. Y.

² Does not include Gary, Ind.

³ Does not include Camden, N. J.

⁴ Does not include Long Beach, Calif.

⁵ Figure relates to city of Boston only.

⁶ Does not include Oakland, Calif.

Public Employment

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.

EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment and pay rolls for the executive service of the Federal Government in December 1938 and January 1939 are given in table 8.

TABLE 8.—*Employment and Pay Rolls for the Executive Service of the United States Government, December 1938, and January 1939*¹

[Subject to revision]

Item	Employment		Per-centage change	Pay rolls		Per-centage change
	January 1939	December 1938 ²		January 1939	December 1938 ²	
Entire service:						
Total.....	863,911	918,861	-6.0	\$131,382,390	\$142,064,975	-7.5
Regular appropriation.....	719,660	764,432	-5.9	114,048,243	123,916,175	-8.0
Emergency appropriation.....	60,934	61,407	- .8	7,587,402	7,746,471	- 2.1
Force-account (regular and emergency)	83,317	93,022	-10.4	9,746,745	10,372,329	- 6.0
Inside the District of Columbia:						
Total.....	120,309	120,604	- .2	21,477,518	21,525,569	- .2
Regular appropriation.....	105,372	105,689	- .3	19,171,271	19,231,616	- .3
Emergency appropriation.....	9,787	9,463	- .8	1,503,498	1,527,809	-1.6
Force-account (regular and emergency)	5,150	5,052	+1.9	802,749	766,144	+4.8
Outside the District of Columbia:						
Total.....	743,602	798,257	-6.8	109,904,872	120,539,406	-8.8
Regular appropriation.....	614,288	658,743	-6.7	94,876,972	104,714,559	-9.4
Emergency appropriation.....	51,147	51,544	- .8	6,083,904	6,218,662	-2.2
Force-account (regular and emergency)	78,167	87,970	-11.1	8,943,996	9,606,185	-6.9

¹ Data include number of employees receiving pay during the last pay period of the month.

² Revised.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

Details concerning employment, pay rolls, and man-hours worked during January on construction projects financed by Public Works Administration funds are given in table 9, by type of project.

TABLE 9.—*Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, January 1939*¹

[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 ²	Weekly average				
Federal projects financed from National Industrial Recovery Act funds						
All projects.....	³ 3,448	3,377	\$263,519	398,603	\$0.661	\$193,041
Building construction.....	133	105	18,646	13,102	1.425	7,637
Naval vessels.....	46	38	5,978	6,135	.971	8,999
Public roads.....	(⁵)	2,535	157,867	277,122	.570	145,000
Reclamation.....	603	586	70,235	90,043	.780	13,292
River, harbor, and flood control.....	29	27	1,114	2,776	.401	3,674
Streets and roads.....	13	7	429	461	.931	905
Water and sewerage.....	76	67	8,648	7,212	1.199	6,034
Miscellaneous.....	13	12	602	1,842	.327	7,500

See footnotes at end of table.

TABLE 9.—Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, January 1939—Continued

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	Weekly average				
Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	37,381	32,449	\$3,937,724	4,337,114	\$0.908	\$5,168,642
Building construction.....	20,786	17,163	1,658,885	1,832,438	.905	3,746,317
Electrification.....	704	689	61,242	89,041	.688	93,160
Reclamation.....	12,031	11,435	1,913,512	2,055,464	.946	995,555
River, harbor, and flood control.....	423	290	38,725	40,452	.950	67,546
Ship construction.....	734	550	29,110	39,247	.742	34,674
Streets and roads.....	250	220	14,933	20,584	.727	56,898
Water and sewerage.....	515	480	20,408	29,923	.682	28,193
Miscellaneous.....	1,009	923	72,749	99,885	.728	135,724
Professional, technical, and clerical.....	929	697	98,460	130,080	.757	10,575
Non-Federal projects financed from National Industrial Recovery Act funds						
All projects.....	5,883	5,070	\$863,251	546,242	\$1.580	\$678,476
Building construction.....	3,576	3,192	681,347	359,291	1.896	262,940
Railroad construction.....	0	0	0	0	0	0
Streets and roads.....	374	287	8,509	14,880	.572	40,351
Water and sewerage.....	937	780	100,563	74,886	1.343	140,684
Miscellaneous.....	996	811	72,812	97,185	.749	234,501
Projects financed from Emergency Relief Appropriation Act 1935, 1936, and 1937 funds¹						
All projects.....	36,993	31,029	\$3,325,881	3,826,356	\$0.869	\$7,444,615
Building construction.....	23,329	19,412	2,089,826	2,215,511	.943	3,536,512
Electrification.....	1,279	1,055	88,917	121,777	.730	591,592
Heavy engineering.....	3,884	3,375	419,181	489,955	.856	1,995,305
Reclamation.....	1,103	1,006	91,721	144,815	.633	120,417
River, harbor, and flood control.....	224	186	13,694	22,739	.602	19,077
Streets and roads.....	1,675	1,355	108,037	221,278	.488	104,438
Water and sewerage.....	5,489	4,630	513,687	609,158	.843	1,074,851
Miscellaneous.....	10	10	821	1,093	.751	2,423
Non-Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	133,561	105,405	\$8,088,714	10,770,436	\$0.808	\$23,134,020
Building construction.....	90,844	72,057	5,874,727	6,866,149	.856	15,425,765
Electrification.....	866	668	40,524	69,003	.614	591,816
Heavy engineering.....	3,016	2,344	299,164	362,618	.989	597,532
Reclamation.....	673	495	40,718	68,582	.594	38,311
River, harbor, and flood control.....	430	347	37,298	41,203	.904	147,223
Streets and roads.....	16,064	12,458	936,232	1,421,746	.680	1,933,682
Water and sewerage.....	20,752	16,314	1,371,869	1,923,585	.713	4,306,022
Miscellaneous.....	916	722	58,212	80,550	.723	93,669

¹ Data are for the month ending on the 15th.² Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.³ Includes weekly average for public roads.⁴ Under the jurisdiction of the Bureau of Public Roads.⁵ Not available; weekly average included in total for all projects.⁶ Includes data for workers engaged in construction of underground tunnel who, because of the additional risk involved, were paid at rates higher than those usually paid for building construction.⁷ These data are also included in separate tables covering projects financed by The Works Program.⁸ Includes a maximum of 121 and an average of 84 employees working on low-cost housing projects financed from E. R. A. 1935 funds who were paid \$5,348 for 8,716 man-hours of labor. Material orders in the amount of \$1,355 were placed for these projects. These data are also included in separate tables covering projects financed from The Works Program.

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 and title II of the First Deficiency Appropriation Act of 1936. The First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936, reappropriated unobligated funds originally made available under the Emergency Relief Appropriation Act of 1935 and authorized the use of \$300,000,000 from funds on hand or received from the sale of securities. The Public Works Administration was continued until July 1, 1939, by the Public Works Administration Extension Act of 1937 and the Public Works Administration Appropriation Act of 1938 further continued the program to June 30, 1941.

Federal construction projects for which data are included in table 9 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 low-cost housing program of the Public Works Administration, however, was financed by funds provided under the Emergency Relief Appropriation Act of 1935. Federal construction projects are also financed by allotments from funds provided under the Public Works Administration Appropriation Act of 1938. 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, the Emergency Relief Appropriation Act of 1935, the First Deficiency Appropriation Act of 1936, the Public Works Administration Extension Act of 1937, or the Public Works Administration Appropriation Act of 1938. 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 labor and material cost. When funds provided under the Emergency Relief Appropriation Act of 1935, the First Deficiency Appropriation Act of 1936, the Public Works Administration Extension Act of 1937, or the Public Works Administration Appropriation Act of 1938 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, locomotives and passenger- and freight-car building in commercial shops.

UNITED STATES HOUSING AUTHORITY

The United States Housing Authority was created by Public No. 412, Seventy-fifth Congress, approved September 1, 1937 as a corporate body of the Department of the Interior for the purpose of assisting the States and their political subdivisions in remedying the unsafe and insanitary housing conditions and the acute shortage of decent, safe, and sanitary dwellings for families of low income, and in alleviating present and recurring unemployment.

Executive Order No. 7732, dated October 27, 1937, transferred to the Authority all the housing and slum-clearance projects of the Federal Emergency Administration of Public Works and all assets, contracts, records, applications, libraries, research materials, and other property held in connection with such projects or with the housing or slum-clearance activities of the Public Works Administration, together with the unexpended balance of funds allocated to the Public Works Administration for the construction of any housing or slum-clearance projects. This Executive order was modified by Executive Order No. 7839, dated March 12, 1938, under which the two Puerto Rico projects were transferred to the Puerto Rico Reconstruction Administration.

Table 10 shows data for January 1939 on projects of the United States Housing Authority. These figures pertain only to new projects under the United States Housing Authority and not to those formerly under the Public Works Administration.

TABLE 10.—*Employment and Pay Rolls on Low-Cost Housing Projects Operated by the United States Housing Authority, January 1939*¹

(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
	Maximum number employed ²	Weekly average				
Four divisions.....	2,774	2,291	\$319,784	255,270	\$1.253	\$577,246
Middle Atlantic.....	2,374	1,998	300,106	223,627	1.342	487,722
East North Central.....	25	19	1,597	2,085	.766	39,678
South Atlantic.....	215	144	11,620	19,292	.602	23,457
West South Central.....	160	130	6,461	10,266	.629	26,389

¹ Data are for the month ending on the 15th.

² Maximum employed during any 1 week of the month.

THE WORKS PROGRAM

By authority of Public Resolution No. 11, Seventy-fourth Congress, approved April 8, 1935, the President, in a series of Executive orders, inaugurated a broad program of work to be carried out by 61 units of the Federal Government. The Works Program was continued by title II of the First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936, and was further continued by the Emergency Relief Appropriation Act of 1937. The Emergency Relief Appropriation Act of 1938 extended this program to June 30, 1939. 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 Works Progress Administration with the cooperation of States, cities, or counties.

A record of employment, pay rolls, and man-hours worked on projects financed by The Works Program in January is shown in table 11, by type of project.

TABLE 11.—*Employment and Pay Rolls on Projects Financed by The Works Program, January 1939¹*

(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	Weekly average				
Federal projects						
All projects.....	² 121, 095	112, 141	\$5, 509, 841	11, 819, 129	\$0. 466	\$1, 180, 130
Building construction.....	45, 373	42, 188	2, 312, 162	4, 108, 707	. 563	357, 368
Electrification.....	285	249	14, 750	38, 129	. 387	3, 488
Forestry ³	9, 614	8, 763	409, 415	943, 417	. 434	51, 242
Grade-crossing elimination ⁴	1, 264	1, 013	53, 957	102, 832	. 525	75, 270
Hydroelectric power plants ⁵	2, 180	1, 980	51, 974	226, 964	. 229	28, 515
Plant, crop, and livestock conservation ³	10, 520	9, 960	521, 450	1, 327, 583	. 393	74, 168
Professional, technical, and clerical.....	4, 868	4, 327	344, 873	515, 020	. 670	21, 269
Public roads ⁴	932	745	58, 560	93, 544	. 626	50, 810
Reclamation.....	27, 973	26, 782	1, 239, 690	2, 825, 183	. 439	335, 549
River, harbor, and flood control.....	1, 449	1, 123	67, 967	124, 753	. 545	8, 078
Streets and roads.....	3, 285	2, 970	80, 371	221, 800	. 362	20, 055
Water and sewerage.....	674	603	23, 850	60, 883	. 392	6, 421
Miscellaneous.....	12, 678	11, 438	330, 822	1, 230, 314	. 269	147, 597
P. W. A. projects financed from Emergency Relief Appropriation Act funds of 1935, 1936, and 1937⁶						
All projects.....	² 36, 993	31, 029	\$3, 325, 884	3, 826, 356	\$0. 869	\$7, 444, 615
Building construction.....	23, 329	19, 412	2, 089, 826	2, 215, 511	. 943	3, 536, 512
Electrification.....	1, 279	1, 055	88, 917	121, 777	. 730	591, 592
Heavy engineering.....	3, 884	3, 375	419, 181	489, 955	. 856	1, 995, 305
Reclamation.....	1, 103	1, 006	91, 721	144, 845	. 633	120, 417
River, harbor, and flood control.....	224	186	13, 694	22, 739	. 602	19, 077
Streets and roads.....	1, 675	1, 355	108, 037	221, 278	. 488	104, 438
Water and sewerage.....	5, 489	4, 630	513, 687	609, 158	. 843	1, 074, 851
Miscellaneous.....	10	10	821	1, 093	. 751	2, 423
Projects operated by Works Progress Administration⁷						
All projects.....	² 2, 895, 214	-----	\$155, 733, 123	311, 877, 464	\$0. 499	(⁸)

¹ Unless otherwise noted data are for the month ending on the 15th.² Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.³ The data for the Bureau of Entomology and Plant Quarantine, under plant, crop, and livestock conservation, and the Bureau of Forest Service, under forestry, are for the calendar month.⁴ These data are for projects under the jurisdiction of the Bureau of Public Roads.⁵ These data are for projects under construction in Puerto Rico.⁶ Includes data for 36,872 employees working on non-Federal projects and 121 employees working on low-cost housing projects. These data are included in separate tables covering projects under the jurisdiction of the Public Works Administration.⁷ Data are for the calendar month. Not available by type of project.⁸ Represents number of names on pay roll for week ending Jan. 28, 1939.⁹ Data on a monthly basis are not available.

Employment, pay rolls, and man-hours worked for the fourth quarter of 1938 on projects operated by the Works Progress Administration, by type of project, are shown in table 12.

TABLE 12.—Employment and Pay Rolls on Projects Operated by the Works Progress Administration, by Type of Project, for the Fourth Quarter of 1938

[Subject to revision]

Type of project	Number employed ¹	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour
All projects.....	2,987,039	\$508,887,458	1,023,728,445	\$0.497
Conservation.....	125,028	20,677,721	40,906,832	.505
Highway, road, and street.....	1,364,916	215,999,729	474,821,440	.455
Professional, technical, and clerical.....	346,196	70,957,888	122,758,037	.578
Public buildings ²	255,832	49,343,656	78,963,857	.625
Publicly owned or operated utilities.....	263,833	42,732,452	77,677,406	.550
Recreational facilities ³	210,002	41,002,345	71,132,276	.576
Sanitation and health.....	76,782	11,196,864	29,052,267	.385
Sewing, canning, and gardening.....	244,794	38,270,675	95,050,024	.403
Transportation.....	45,514	9,261,624	14,614,850	.634
Not elsewhere classified.....	47,542	9,444,474	18,750,856	.504

¹ Data are for the week ending Dec. 31, 1938.

² Separate data for housing projects are not available.

³ Exclusive of buildings.

Employment, pay rolls, and man-hours worked on work projects of the National Youth Administration from the beginning of the program in January 1936 to January 1939, inclusive, are shown in table 13. Similar data for Student Aid are shown from September 1935, the starting date, to December 1938, inclusive.

TABLE 13.—Employment and Pay Rolls on National Youth Administration Projects Financed by The Works Program From the Beginning of Program through January 1939 ¹

[Subject to revision]

Year and month	Number of persons employed	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Work projects					
January 1936 to January 1939, inclusive.....		\$106,948,299	292,182,304	\$0.366	² \$11,198,371
January to December 1936.....		28,893,589	75,827,799	.381	
January to December 1937.....		32,601,360	87,092,351	.374	
January 1938.....	144,797	2,549,914	6,896,668	.370	
February 1938.....	151,406	2,607,226	7,288,377	.366	
March 1938.....	154,567	2,751,797	7,610,360	.362	
April 1938.....	153,082	2,760,533	7,673,809	.360	
May 1938.....	172,134	2,967,134	8,236,913	.358	
June 1938.....	202,184	3,437,299	9,519,163	.361	
July 1938.....	213,972	3,685,148	10,332,962	.357	
August 1938.....	221,307	3,888,640	11,125,311	.350	
September 1938.....	220,756	3,927,491	11,421,877	.344	
October 1938.....	220,066	4,012,209	11,628,976	.345	
November 1938.....	225,038	4,110,810	12,028,462	.342	
December 1938.....	237,399	4,328,281	12,707,515	.341	
January 1939.....	238,802	4,376,863	12,741,761	.344	

See footnotes at end of table.

TABLE 13.—Employment and Pay Rolls on National Youth Administration Projects Financed by The Works Program From the Beginning of Program through January 1939—Continued.

[Subject to revision]

Year and month	Number of persons employed	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Student Aid					
September 1935 to December 1938, inclusive.		\$75,962,081	256,213,671	\$0.296	(3)
September to December 1935		6,363,503	19,612,976	.324	
January to December 1936		25,888,559	85,424,616	.303	
January to December 1937		24,188,039	83,028,847	.291	
January 1938	307,544	2,001,786	6,980,595	.287	
February 1938	319,707	2,162,506	7,584,382	.285	
March 1938	328,037	2,217,742	7,781,022	.285	
April 1938	333,902	2,256,566	7,920,942	.285	
May 1938	326,644	2,393,532	8,355,521	.286	
June 1938	217,447	1,538,947	5,123,792	.300	
July 1938 ¹					
August 1938	1,780	5,696	31,871	.179	
September 1938	44,865	196,999	817,901	.241	
October 1938	316,536	1,951,914	6,832,838	.286	
November 1938	361,067	2,400,437	8,349,645	.287	
December 1938	368,921	2,395,855	8,368,723	.286	

¹ Data are for a calendar month.² Data on a monthly basis are not available. This total represents expenditures through Sept. 30, 1938, and includes rentals and services and some sponsors' contributions.³ No expenditures for materials on this type of project.⁴ Student Aid program was not active.

CIVILIAN CONSERVATION CORPS

The Civilian Conservation Corps was created by an act of Congress approved June 28, 1937, and succeeded the Emergency Conservation Work which had been set up in April 1933.

Employment and pay-roll data for the Civilian Conservation Corps are collected by the Bureau of Labor Statistics from the War Department, the Department of Agriculture, the Department of Commerce, and the Department of the Interior. The monthly pay of the enrolled personnel is \$30 per month. Assistant leaders, not to exceed 10 percent of the total number of enrollees, may receive up to \$36 per month, and leaders, not to exceed 6 percent, may receive up to \$45 per month.

Employment and pay rolls in the Civilian Conservation Corps in December 1938 and January 1939 are presented in table 14.

TABLE 14.—Employment and Pay Rolls in the Civilian Conservation Corps, December 1938 and January 1939¹

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	January 1939	December 1938	January 1939	December 1938
All groups.....	330, 114	320, 975	\$14, 709, 313	\$14, 449, 956
Enrolled personnel ²	293, 785	284, 125	9, 217, 703	8, 866, 055
Reserve officers.....	5, 003	4, 935	1, 295, 328	1, 286, 109
Nurses ²	205	282	30, 369	30, 008
Educational advisers ²	1, 587	1, 583	264, 984	264, 322
Supervisory and technical ²	29, 474	30, 050	3, 900, 929	4, 003, 462

¹ Data on number of employees refer to employment on last day of month. Amount of pay rolls are for the entire month.

² January data include 3,951 enrollees and pay roll of \$93,925 outside continental United States; in December the corresponding figures were 3,763 enrollees and pay roll of \$90,213.

³ Included in executive service, table 8.

CONSTRUCTION PROJECTS FINANCED BY RECONSTRUCTION FINANCE CORPORATION

Statistics of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in January are presented in table 15, by type of project.

TABLE 15.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, January 1939¹

[Subject to revision]

Type of project	Maximum number of wage earners ²	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects.....	2, 546	\$290, 403	346, 417	\$0. 838	\$552, 504
Building construction ³	1, 464	109, 911	154, 320	. 712	277, 145
Water and sewerage.....	1, 082	180, 492	192, 097	. 940	275, 359

¹ Data are for the month ending on the 15th.

² Maximum number employed during any 1 week of the month by each contractor.

³ Includes 25¢ employees, pay-roll disbursements of \$18,321, 22,814 man-hours worked, and material orders placed of \$41,562 on projects financed by RFC Mortgage Co.

CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

When 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.

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during January are given in table 16, by type of project.

TABLE 16.—*Employment and Pay Rolls on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, January 1939*¹

[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 ² number employed	Weekly average				
All projects.....	5 181,976	169,493	\$18,704,411	25,819,912	\$0.724	\$24,699,173
Building construction.....	15,331	12,539	1,361,629	1,435,985	.918	2,263,329
Electrification:						
Rural Electrification Administration projects ⁴	6,867	5,582	377,111	708,062	.533	2,231,772
Other than R. E. A. projects.....	104	65	2,980	4,463	.668	4,297
Forestry.....	44	44	1,969	3,541	.556	1,625
Heavy engineering.....	80	62	8,609	8,485	1.015	1,760
Public roads ⁵	(6)	48,193	1,360,505	7,568,040	.576	7,292,277
Reclamation.....	13,078	12,547	1,545,333	1,905,412	.811	1,299,416
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	34,056	29,113	3,016,888	4,617,086	.649	2,372,953
Locks and dams.....	8,199	7,238	905,163	1,219,888	.712	956,801
Ship construction:						
Naval vessels.....	44,072	43,201	6,154,221	6,995,542	.880	5,785,872
Other than naval vessels.....	7,471	6,790	707,695	858,273	.825	1,987,114
Streets and roads.....	3,251	3,057	189,842	365,581	.519	141,542
Water and sewerage.....	434	389	17,064	27,169	.628	25,505
Miscellaneous.....	763	673	55,399	72,356	.766	34,970

¹ Data are for the month ending on the 15th.

² Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.

³ Includes weekly average for public-road projects.

⁴ Financed by Rural Electrification Administration loans.

⁵ Under the jurisdiction of the Bureau of Public Roads.

Not available: weekly average included in total for all projects.

STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements in the construction and maintenance of roads financed wholly from State or local funds in January 1939, compared with December 1938 and January 1938, is presented in table 17.

TABLE 17.—*Employment and Pay Rolls on Construction and Maintenance of State Roads, January 1939, January and December 1938*¹

[Subject to revision]

Item	Number of employees ²			Pay-roll disbursements		
	January 1939	December 1938	January 1938	January 1939	December 1938	January 1938
Total.....	152,989	184,361	141,959	\$10,525,210	\$11,438,613	\$9,577,200
New roads.....	18,443	21,223	15,394	1,229,840	1,398,990	927,200
Maintenance.....	134,546	163,138	126,565	9,295,370	10,039,623	8,650,000

¹ Data are for the month ending on the 15th and are for projects financed wholly from State or local funds.

² Average number working during month.

