

Serial No. R. 1070

UNITED STATES DEPARTMENT OF LABOR

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EMPLOYMENT AND PAY ROLLS

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DECEMBER 1939

UNITED STATES GOVERNMENT PRINTING OFFICE • WASHINGTON • 1940

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Employment and Pay Rolls

SUMMARY OF REPORTS FOR DECEMBER 1939

Total Nonagricultural Employment

NONAGRICULTURAL employment increased by nearly a quarter of a million workers from mid-November to mid-December, due primarily to an increase of 390,000 workers in retail stores to handle increased volume of Christmas trade. This gain brought employment in nonagricultural industries in December to the highest level recorded since October 1937, the total being more than 1,200,000 greater than in December 1938. The resumption of full activity by certain automobile plants which had been on strike resulted in factory employment showing a slight contraseasonal increase.

These figures do not include emergency employment, which increased 144,000 in December. Increases of 136,000 on projects operated by the Work Projects Administration and 34,000 on work projects of the National Youth Administration were partly offset by a decrease of 26,000 in the Civilian Conservation Corps.

Industrial and Business Employment

Increases in employment were shown by 37 of the 90 manufacturing industries surveyed by the Bureau of Labor Statistics and by 5 of the 16 nonmanufacturing industries covered. Pay-roll gains were reported by 46 of the manufacturing and 8 of the nonmanufacturing industries.

The net gain from November of 0.3 percent, or 20,000 wage earners, in factory employment was the seventh consecutive monthly increase for this group and was in contrast to a seasonally expected decline of 1 percent, or 80,000 wage earners. Weekly factory pay rolls rose by 2.0 percent, or about \$3,800,000, the average December change being an increase of about 0.2 percent. The December factory employment and pay-roll indexes were 10.7 and 18.9 percent, respectively, higher than a year ago. They were also higher than any recorded since the fall months of 1937, but were still substantially below the levels reached in the earlier months of that year.

The durable-goods group of industries continued to rise, while the nondurable-goods group showed a decline. The gains in the former

group were chiefly contraseasonal or larger than seasonal, while the declines among the industries comprising the latter group were largely of a seasonal nature. Among the more important increases in employment were: Automobiles (64,800 wage earners); foundries and machine shops (7,200 wage earners); blast furnaces, steel works, and rolling mills (6,100 wage earners); slaughtering and meat packing (5,300 wage earners); electrical machinery (4,900 wage earners); book and job printing (4,200 wage earners); aircraft (3,800 wage earners); boots and shoes (3,800 wage earners); electric- and steam-railroad car building (3,600 wage earners); shipbuilding (3,500 wage earners); engines, turbines, and water wheels (3,200 wage earners); and newspaper and periodical printing (2,300 wage earners). Employment in the aircraft industry has expanded each month since September 1938, when the index stood at 774.2 percent of the 1923-25 level. In December it stood at 1,886.0, which was more than three and a half times the 1929 average. Among the manufacturing industries reporting large declines were canning and preserving (16,500 wage earners), sawmills (10,500 wage earners), woolen and worsted goods (6,600 wage earners), hosiery (6,200 wage earners), radios and phonographs (5,100 wage earners), women's clothing (4,300 wage earners), and silk and rayon goods (3,000 wage earners).

Retail stores reported a larger than seasonal employment gain of 12.3 percent for the Christmas trade. The general merchandising group, which includes department, variety, and general merchandising stores and mail-order houses, took on 37 percent more workers to handle the holiday trade. The employment index for this group climbed to 151.2 percent of the 1929 average, the highest point recorded over an 11-year interval. Apparel stores took on 11.9 percent more workers, jewelry stores added 24.5 percent more employees to their pay rolls, furniture stores showed an increase of 3.9 percent in the number of workers employed by them, and hardware stores showed a gain of 5.2 percent. The remaining lines of retail trade also showed employment gains with the exception of "lumber and building materials," which showed a seasonal recession of 2.2 percent.

Wholesale trade as a whole showed virtually no change in employment since November. Among the more important lines showing employment gains were farm products, electrical goods, and paper and paper products. Among the lines showing declines were dry goods and apparel, metals and minerals, furniture and house furnishings, and lumber and building materials. Anthracite and bituminous coal mines reported small decreases in employment, coupled with substantial losses in pay rolls, resulting from sharply decreased production during the first half of December. Public utilities and other service industries reported small employment changes. Winter weather conditions brought a seasonal curtailment of employment in quarries.

Employment in metal mines showed a gain of 1.2 percent, with the index standing at the highest level recorded in any month since January 1938.

Employment and pay rolls in private building construction decreased 6.9 and 7.0 percent, respectively, from November to December according to reports from 14,132 contractors employing 132,965 workers. These declines were less than the average decrease in December of the previous 7 years. Comparisons with December 1938 showed a gain of 5.0 percent in employment and 12.0 percent in weekly pay rolls. Seasonal reductions in employment from November to December were general throughout all parts of the country, ranging from 2.6 percent to over 10 percent, with the exception of the East South Central area, which showed a 3.5-percent gain. The reports on which these figures are based do not cover construction projects financed by the Work Projects Administration, the Public Works Administration, and the Reconstruction Finance Corporation, or by regular appropriations of the Federal, State, or local governments.

Average pay rolls for the year 1939 were above those for 1938 for all of the industrial groups surveyed monthly by the Bureau except crude-petroleum producing, dyeing and cleaning, and brokerage. Average employment was higher for 8 groups as follows: Manufacturing (7.9 percent), metalliferous mining (6.3 percent), quarrying and nonmetallic mining (5.4 percent), private building construction (1.9 percent), retail trade (1.5 percent), insurance (1.1 percent), wholesale trade (0.5 percent), and laundries (0.2 percent). Average employment was lower for the following industrial groups: Bituminous-coal mining (9.2 percent), crude-petroleum producing (8.7 percent), brokerage (3.7 percent), anthracite mining (3.3 percent), dyeing and cleaning (2.9 percent), electric-railroad and motorbus operation and maintenance (1.0 percent), year-round hotels (0.8 percent), telephone and telegraph (0.5 percent), and electric light and power and manufactured gas (0.4 percent).

A preliminary report of the Interstate Commerce Commission showed an employment decline by class I railroads from November to December of 2.8 percent, the total number of workers in December being 1,009,526. Corresponding pay rolls were not available when this report was prepared. For November they were \$163,721,972, a decline of 4.8 percent over the October figure.

Hours and earnings.—The average hours worked per week by wage earners in manufacturing industries were 38.6 in December, an increase of 0.1 percent since November. The average hourly earnings of these workers were 66.2 cents, an increase of 1.4 percent as compared with the preceding month. Average weekly earnings of factory workers were \$26.27, a gain of 1.6 percent since November.

Of the 14 nonmanufacturing industries for which man-hours are available 6 showed increases in average hours worked per week and 10 reported gains in average hourly earnings. Eight of the 16 non-manufacturing industries surveyed reported higher average weekly earnings.

Employment and pay-roll indexes and average weekly earnings in December 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, December 1939*

Industry	Employment			Pay rolls			Average weekly earnings		
	Index Decem- ber 1939	Percentage change from—		Index Decem- ber 1939	Percentage change from—		A ver- age in Decem- ber 1939	Average change from—	
		No- vem- ber 1939	Decem- ber 1938		No- vem- ber 1939	Decem- ber 1938		No- vem- ber 1939	Decem- ber 1938
All manufacturing industries combined ¹	(1928-29 =100) 104.1	+0.3	+10.7	(1928-29 =100) 103.6	+2.0	+18.9	\$26.27	+1.6	+7.3
Class I steam railroads ²	50.5	-2.8	+7.0	(³)	(³)	(³)	(³)	(³)	(³)
Coal mining:	(1929= 100)			(1929= 100)					
Anthracite ⁴	51.0	-7	-6	26.6	-36.7	-37.4	17.16	-36.2	-37.0
Bituminous ⁴	93.2	-1.8	+4.3	85.0	-11.7	+5.0	24.83	-10.1	+6
Metalliferous mining.....	67.2	+1.2	+8.0	65.3	+2.2	+20.6	30.43	+1.0	+11.7
Quarrying and nonmetallic mining.....	44.0	-6.5	+6.2	39.1	-8.9	+16.2	22.07	-2.6	+9.4
Crude-petroleum producing.....	63.8	+(⁵)	-5.9	59.1	-8	-5.3	33.46	-9	+6
Public utilities:									
Telephone and telegraph.....	74.7	-4	+6	95.0	+6	+2.8	\$31.29	+1.1	+2.2
Electric light and power and manufactured gas.....	93.0	-4	+1.7	101.1	-4	+2.9	\$34.09	-1	+1.1
Electric-railroad and motor- bus operation and main- tenance.....	69.6	-3	+3	70.8	+4	+1.6	\$33.32	+7	+1.2
Trade:									
Wholesale.....	92.2	+1	+2.4	79.1	+1	+4.5	\$29.85	+1	+2.1
Retail.....	101.0	+12.3	+3.0	82.7	+10.7	+4.4	\$20.19	-1.5	+1.5
General merchandising.....	151.2	+37.0	+4.9	129.7	+35.4	+5.6	\$17.05	-1.2	+6
Other than general merchandising.....	87.8	+3.8	+2.0	73.0	+3.7	+4.0	\$24.01	-1	+1.9
Hotels (year-round) ⁴	90.8	-1.1	-1.3	81.1	-9	0	\$15.59	+2	+1.3
Laundries ⁴	95.5	-1	+2.3	83.7	+1.0	+4.6	18.07	+1.1	+2.2
Dyeing and cleaning ⁴	97.3	-5	-6	69.7	-1.6	+2.0	19.83	-1.1	+2.6
Brokerage.....	(⁶)	-6	-1.2	(⁶)	+1.8	-1.3	\$37.41	+2.5	-1
Insurance.....	(⁶)	+1	+1.5	(⁶)	+1.3	+4	\$35.63	+1.2	-1.1
Building construction.....	(⁶)	-6.9	+5.0	(⁶)	-7.0	+12.0	39.91	-1	+6.6

¹ Revised indexes—Adjusted to 1937 Census of Manufactures.

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

⁶ Average weekly earnings not strictly comparable with figures published in issues of this pamphlet dated earlier than January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

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

Public Employment

The completion of a number of projects brought employment on construction projects financed from Public Works Administration funds down to 167,000 in the month ending December 15, a decrease of 37,000 from the preceding month. The \$15,913,000 paid to workers on these projects was \$3,239,000 less than the amount paid in November.

Approximately 3,000 more building trades workers found employment on low-rent housing projects of the United States Housing Authority during the month ending December 15. Because of inclement weather that slowed work on some northern projects and the fact that a considerable number of the new employees worked only a small part of the month, wage payments to the 33,000 men employed were \$68,000 less than in November. Pay rolls for December totaled \$3,547,000. These figures cover new construction and demolition and pertain only to those projects started under the United States Housing Authority; those formerly under the Public Works Administration are shown under the Public Works Administration building construction projects in this report.

Seasonal curtailment of works on public-road projects was again responsible for decreased employment on construction projects financed from regular Federal appropriations. Increases were reported on reclamation, ship construction, water and sewerage, and miscellaneous projects while all other types of projects showed decreases. Employment on all types of projects for the month ending December 15 was 255,000, a decrease of 21,000 from November. Pay-roll disbursements for the month were \$27,294,000.

Employment on construction projects financed by the Reconstruction Finance Corporation showed a loss of 300, leaving 2,300 employed in the month ending December 15. Wage payments for the month amounted to \$251,000.

The seasonal increase of activity on work-relief projects of the Work Projects Administration continued in December, when 136,000 more persons were given employment. During the month 2,076,000 persons were employed as compared with 1,940,000 in November. Pay rolls of \$107,856,000 were \$6,324,000 greater than in November. Employment on Federal agency projects financed by the Work Projects Administration rose from 88,000 in November to 98,000 in December. Pay rolls were \$4,745,000.

Work projects of the National Youth Administration furnished employment to 34,000 additional youths during December, and 11,000 more students were added to the rolls of the Student Aid program. Pay-roll disbursements on the work projects amounted to \$5,428,000 and on the Student Aid program to \$2,967,000.

The end of an enlistment period caused the number of persons employed in camps of the Civilian Conservation Corps to drop 26,000 in December. Of the 309,000 on the pay roll, 272,000 were enrollees; 200, reserve officers; 1,600, educational advisers; 300, nurses; and 34,900, supervisory and technical employees. Pay-roll disbursements for the whole group were \$13,776,000.

In the regular services of the Federal Government increases were reported in the executive, judicial, and military services, while a decrease was reported in the legislative service. Of the 988,000 employees in the executive service 128,000 were working in the District of Columbia and 860,000 outside the District. Force-account employees (employees who are on the Federal pay roll and are engaged on construction projects) were 9.4 percent of the total number of employees in the executive service. Increased employment was reported in the Post Office Department, the Department of the Interior, and the War and Navy Departments, while a decrease was reported in the Federal Works Agency.

TABLE 2.—*Summary of Federal Employment and Pay Rolls, December and November 1939*¹

[Preliminary figures]

Class	Employment			Pay rolls		
	December	November	Per-centage change	December	November	Per-centage change
Federal services:						
Executive ²	987, 538	³ 932, 641	+5.9	\$152, 331, 559	³ \$141, 406, 641	+7.7
Judicial.....	2, 268	2, 359	-3.9	550, 908	573, 308	-4.1
Legislative.....	5, 535	5, 583	- .9	1, 252, 503	1, 255, 856	- .3
Military.....	421, 245	402, 513	+4.7	29, 705, 737	29, 686, 462	+ .1
Construction projects:						
Financed by P. W. A. ⁴	166, 657	204, 036	-18.3	15, 912, 909	19, 151, 916	-16.9
U. S. H. A. low-rent housing....	33, 170	29, 562	+12.2	3, 547, 123	3, 615, 213	-1.9
Financed by R. F. C. ⁴	2, 322	2, 638	-12.0	250, 882	308, 911	-18.8
Financed by regular Federal appropriations.....	255, 106	276, 073	-7.6	27, 293, 719	28, 688, 231	-4.9
Federal agency projects financed by the Work Projects Administration.....	98, 109	87, 955	+11.5	4, 744, 815	4, 425, 156	+7.2
Projects operated by W. P. A.....	2, 076, 089	³ 1, 939, 586	+7.0	107, 855, 673	³ 101, 532, 308	+6.2
National Youth Administration:						
Work projects.....	295, 295	261, 181	+13.1	5, 428, 157	4, 850, 311	+11.9
Student Aid.....	434, 350	423, 122	+2.7	2, 967, 327	2, 988, 862	+ .3
Civilian Conservation Corps	308, 569	335, 099	-7.9	13, 775, 990	14, 808, 058	-7.3

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 129,938 employees and pay-roll disbursements of \$15,987,842 for December 1939, and 129,095 employees and pay-roll disbursements of \$10,415,643 for November 1939.

³ Revised.

⁴ Data covering P. W. A. projects financed from National Industrial Recovery Act funds, 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 projects financed by the Work Projects Administration. Includes 12,093 wage earners and \$1,172,452 pay roll for December 1939; 12,439 wage earners and \$1,213,687 pay roll for November 1939, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 147,856 wage earners and \$14,038,629 pay roll for December 1939; 183,630 wage earners and \$17,180,040 pay roll for November 1939, covering Public Works Administration projects financed from funds provided by the Public Works Administration Appropriation Act of 1938.

⁵ Includes 932 employees and pay-roll disbursements of \$93,259 for December 1939; 973 employees and pay-roll disbursements of \$101,831 for November 1939 on projects financed by the RFC Mortgage Co.

Further seasonal curtailment of work on State-financed road projects resulted in a decrease of 15,000 in the month ending December 15. Of the 122,900 at work, 19,100 were engaged in the construction of new roads and 103,800 on maintenance. Pay rolls for both types of road work were \$9,030,000.

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

The value of material orders placed on projects financed from regular Federal appropriations during the fourth quarter of 1939 amounted to \$134,127,000. Approximately 256,000 man-months of labor were involved in the final fabrication of these materials. On P. W. A. projects orders were placed for \$110,913,000 worth of materials, for which it is estimated 246,000 man-months of labor were required in final fabrication processes.

The value of material orders placed on the various programs financed by Federal funds during the fourth quarter of 1939, the third quarter of 1939, and the fourth quarter of 1938, and the man-months of employment created in the final fabrication of the materials used are shown in table 3.

TABLE 3.—*Value of Material Orders Placed on Projects Financed Wholly or Partially From Federal Funds and Number of Man-Months of Labor Created*

[Subject to revision]

Program	Value of material orders placed			Man-months of labor created in final fabrication		
	Fourth quarter of 1939	Third quarter of 1939	Fourth quarter of 1938	Fourth quarter of 1939	Third quarter of 1939	Fourth quarter of 1938
Public Works Administration ¹	\$110,913,497	\$125,182,989	\$98,308,311	246,106	278,558	225,427
U. S. H. A. low-rent housing	10,891,497	10,377,907	777,340	39,586	23,818	1,816
Reconstruction Finance Corporation ²	1,289,226	1,333,694	2,167,276	2,628	2,711	4,899
Regular Federal appropriations.....	134,120,807	136,010,243	95,778,006	255,933	253,612	179,062
Federal agency projects financed from W. P. A. funds ³	2,108,895	2,153,037	4,535,813	4,329	4,270	9,332
Projects operated by W. P. A.	(⁴)	81,042,086	91,685,578	(⁴)	178,018	201,381
Rentals and services on projects operated by W. P. A.	(⁴)	58,344,111	67,257,539	(⁴)	(⁴)	(⁴)

¹ Data covering projects financed from E. R. A. A. 1935, 1936, 1937, and P. W. A. A. 1938 funds are included. These data are not shown under projects financed from W. P. A. funds. Includes low-rent housing projects financed from funds of N. I. R. A. and E. R. A. A. 1935.

² Includes RFC Mortgage Co.

³ Includes projects financed by transfer of W. P. A. funds to other Federal agencies under sec. 3, E. R. A. A. 1938, and sec. 11-A, E. R. A. A. 1939.

⁴ Data not available.

DETAILED TABLES FOR DECEMBER 1939

Industrial and Business Employment

MONTHLY reports on employment and pay rolls are available for the following groups: 90 manufacturing industries; 16 nonmanufacturing industries, including private building construction; and class I 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 December 1939 are shown in table 4. Percentage changes from November 1939 and December 1938 are also given.

The employment and pay-roll indexes, as well as average hours worked per week, average hourly earnings, and average weekly earnings for October, November, and December 1939, where available, are presented in table 5. The October and November figures, where given, may differ in some instances from those previously published, because of revisions necessitated primarily by the inclusion of late reports.

The average weekly earnings shown in tables 4 and 5 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 not all reporting establishments supply man-hours, average hours worked per week and average hourly earnings are necessarily based on data furnished by a smaller number of reporting firms. The size and composition of the reporting sample vary slightly from month to month. Therefore, the average hours per week, average hourly earnings, and average weekly earnings shown may not be 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 December 1938 are computed from chain indexes based on the month-to-month percentage changes.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1939*

MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100. New series—adjusted to 1937 Census of Manufactures for all industries except automobiles, and not comparable to indexes published in the July 1939 and earlier issues of the pamphlet. Comparable series available upon request]

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index Decem- ber 1939	Percentage change from—		Index Decem- ber 1939	Percentage change from—		Decem- ber 1939	Percentage change from—		Decem- ber 1939	Percentage change from—		Decem- ber 1939	Percentage change from—	
		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938
All manufacturing.....	104.1	+0.3	+10.7	103.6	+2.0	+18.9	\$26.27	+1.6	+7.3	38.6	+0.1	+3.1	<i>Cents</i> 66.2	+1.4	+3.2
Durable goods.....	100.1	+1.9	+19.5	104.4	+3.5	+31.2	30.08	+1.6	+9.8	39.5	-.3	+6.3	72.6	+1.5	+2.4
Nondurable goods.....	107.9	-1.2	+3.9	102.8	+.4	+7.8	22.32	+1.6	+3.7	37.7	+.3	+.3	60.5	+1.0	+2.7
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	111.4	+.2	+23.5	115.4	+.6	+39.5	30.72	+.5	+13.0	39.4	-.5	+10.2	77.2	+.6	+1.9
Blast furnaces, steel works, and rolling mills.....	123.3	+1.2	+30.5	129.2	+1.4	+50.8	33.19	+.2	+15.5	39.0	-.5	+14.7	85.1	+.4	+.9
Bolts, nuts, washers, and rivets.....	119.8	+1.2	+23.6	143.4	+.7	+37.3	29.20	-.5	+11.0	42.7	-.7	+12.3	68.4	+.1	-.8
Cast-iron pipe.....	77.5	+.1	+8.9	71.7	-2.9	+21.1	22.43	-3.0	+11.2	37.9	-3.7	+10.9	58.7	+.8	+.2
Cutlery (not including silver and plated cutlery) and edge tools.....	108.7	-.5	+20.8	101.9	+.1	+21.4	24.46	+1.7	+.4	41.3	-.1	+2.8	60.2	+.4	-1.7
Forgings, iron and steel.....	72.6	+3.6	+29.0	88.2	+5.3	+46.3	33.05	+1.7	+13.1	42.1	+.8	+9.7	78.6	+.9	+3.4
Hardware.....	105.6	-.8	+16.2	117.0	-1.3	+25.6	27.44	-.5	+8.3	40.2	+.1	+6.2	68.0	-.7	+1.8
Plumbers' supplies.....	83.9	+.9	+14.0	77.7	+(2)	+27.6	26.96	-.9	+12.1	39.4	-.7	+10.1	68.4	-.2	+1.8
Stamped and enameled ware.....	165.6	-.4	+12.7	173.7	-1.4	+14.6	25.01	+1.8	+1.7	39.4	-.2	+2.0	63.4	+2.1	-.1
Steam and hot-water heating apparatus and steam fittings.....	86.2	-1.3	+17.0	79.9	+.2	+32.6	28.38	+1.5	+13.2	40.2	+.3	+12.4	70.5	+1.1	+.7
Stoves.....	89.3	-7.0	+13.0	78.5	-11.3	+16.8	25.24	-4.6	+3.6	38.0	-3.5	+3.4	66.9	-.6	-.1
Structural and ornamental metalwork.....	75.3	-.8	+22.9	67.7	+1.0	+31.2	29.03	+1.8	+6.7	39.6	+.7	+5.1	73.4	+1.2	+1.4
Tin cans and other tinware.....	96.1	-5.2	+8.8	100.4	-4.7	+12.5	23.63	+.5	+3.5	38.6	-.8	+.8	61.9	+.7	+2.1
Tools (not including edge tools, machine tools, files, and saws).....	97.0	+1.7	+16.0	102.2	+5.0	+27.7	26.60	+3.2	+10.3	43.0	+2.5	+7.1	62.2	+.6	+2.9
Wirework.....	176.4	+2.1	+8.8	204.4	+2.4	+21.0	28.81	+.3	+11.2	40.9	-.4	+6.6	70.5	+.7	+4.4

See footnotes at end of table.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1939—Continued*

MANUFACTURING—Continued

[Indexes are based on 3-year average, 1923–25=100. New series—adjusted to 1937 Census of Manufactures for all industries except automobiles and not comparable to indexes published in the July 1939 and earlier issues of the pamphlet. Comparable series available upon request]

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index Decem- ber 1939	Percentage change from—		Index Decem- ber 1939	Percentage change from—		Decem- ber 1939	Percentage change from—		Decem- ber 1939	Percentage change from—		Decem- ber 1939	Percentage change from—	
		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938
Durable goods—Continued															
Machinery, not including transportation equipment	113.1	+1.9	+23.1	122.1	+4.3	+38.0	\$30.25	+2.4	+12.1	41.3	+1.1	+10.2	Cents 73.2	+1.1	+1.5
Agricultural implements (including tractors)...	130.9	+5.1	+18.7	151.5	+7.8	+23.7	31.07	+2.6	+4.2	39.3	+1.7	+5.2	79.3	+7	-1.1
Cash registers, adding machines, and calculating machines	128.1	+8	-3.3	131.6	+2.3	+9.8	32.48	+1.5	+13.6	39.4	+1.2	+12.2	82.8	+3	+6
Electrical machinery, apparatus, and supplies	102.6	+2.1	+21.2	114.2	+4.1	+32.6	29.89	+2.0	+9.2	40.4	+3	+8.6	74.2	+1.6	+6
Engines, turbines, water wheels, and wind-mills	119.8	+9.1	+41.3	156.8	+12.8	+64.6	34.56	+3.4	+16.5	43.0	+2.2	+14.0	80.7	+1.0	+2.1
Foundry and machine-shop products	97.2	+1.9	+22.6	98.6	+4.6	+39.2	30.35	+2.6	+13.5	41.7	+1.8	+11.6	72.7	+7	+1.8
Machine tools	192.2	+4.5	+51.6	256.2	+7.7	+97.5	37.03	+3.1	+30.3	48.2	+2.2	+25.4	77.0	+8	+4.1
Radios and phonographs	162.3	-9.6	+24.5	148.8	-12.6	+26.0	22.71	-3.3	+1.2	38.6	-4.2	-1.0	59.0	+1.0	+2.1
Textile machinery and parts	85.7	+1.7	+24.5	85.7	+3.9	+31.8	27.48	+2.2	+5.7	41.5	+1.0	+1.5	66.3	+1.1	+4.0
Typewriters and parts	127.3	-5	-1.2	121.5	-3.3	-5.4	23.41	-2.8	-4.3	36.6	-3.6	-4.0	64.0	+8	-3
Transportation equipment	116.7	+13.4	+30.4	122.5	+15.9	+25.4	34.03	+2.2	+4.2	38.1	+1.3	+5.3	88.6	+1.1	-4
Aircraft	1,886.0	+7.8	+119.5	1,777.9	+3.5	+103.9	29.39	-4.0	-7.1	42.3	+1.2	+5	73.5	-1.8	-3.7
Automobiles	118.4	+15.7	+10.8	125.8	+18.5	+17.1	35.13	+2.4	+5.6	37.6	+1.2	+4.6	93.3	+1.1	+9
Cars, electric- and steam-railroad	52.1	+12.0	+60.9	46.8	+16.3	+75.9	28.12	+3.9	+9.3	38.6	+3.9	+9.2	72.9	-1	-(2)
Locomotives	28.0	+7.4	+67.2	27.5	+9.5	+99.3	30.12	+2.0	+18.9	38.6	+1.6	+17.2	78.1	+4	+1.4
Shipbuilding	139.4	+5.0	+34.2	152.8	+8.4	+38.4	32.90	+3.3	+3.1	38.2	+1.1	+2.0	85.8	+1.5	+1.2
Nonferrous metals and their products	112.9	-5	+19.5	116.5	+1.0	+33.8	28.67	+1.5	+11.9	40.9	-3	+5.8	70.3	+1.9	+5.0
Aluminum manufactures	170.4	-2.2	+30.0	196.8	+7	+40.4	28.22	+3.0	+8.1	40.3	-7	+4.9	70.0	+3.6	+2.6
Brass, bronze, and copper products	137.7	+3	+30.1	158.9	+1.2	+54.3	31.63	+1.0	+18.5	41.8	+2	+10.6	75.8	+8	+7.2
Clocks and watches and time-recording devices	93.1	-1	+12.3	96.9	-2.8	+21.6	23.09	-2.7	+8.3	39.1	-3.2	+4.0	59.6	+5	+4.1
Jewelry	98.6	-7.9	+5.7	86.5	-4.9	+6.7	24.63	+3.2	+1.1	40.1	-2.2	-1.9	61.2	+5.9	+1.6
Lighting equipment	98.0	+4.9	+11.4	84.7	+8.3	+20.3	27.88	+3.2	+8.0	39.9	+2	+6.4	70.0	+3.1	+1.8
Silverware and plated ware	76.7	+7	+10.8	76.2	+1.4	+13.5	28.72	+7	+2.3	44.2	+6	+2.0	65.1	-3	-1
Smelting and refining—copper, lead, and zinc	86.9	+1.1	+11.3	87.8	+3.0	+19.1	28.36	+1.9	+6.9	39.6	+1.3	+2.9	71.7	+6	+4.0

Lumber and allied products.....	71.1	-2.6	+11.6	65.2	-5.2	+17.1	20.18	-2.7	+4.9	38.6	-2.7	-8	51.3	-3	+4.8
Furniture.....	94.8	-2.1	+12.3	85.5	-8	+19.4	21.87	+1.3	+6.4	40.3	-7	+1.4	54.4	+1.5	+4.0
Lumber:															
Millwork.....	63.6	-8	+13.1	52.0	-1.5	+19.2	22.88	-7	+5.5	41.0	-1.3	+4.5	54.2	+5	+1.0
Sawmills.....	63.3	-3.3	+11.1	55.4	-0.0	+14.5	18.11	-5.7	+2.8	37.0	-4.1	-3.3	48.9	-1.6	+6.3
Stone, clay, and glass products.....	83.7	-2.1	+9.8	76.4	-3.2	+14.0	25.01	-1.1	+3.9	37.5	-1.1	+1.6	66.0	+4	+2.4
Brick, tile, and terra cotta.....	62.6	-3.3	+13.5	51.6	-5.0	+20.7	21.18	-1.8	+6.3	37.9	-1.4	+1.9	55.8	+2	+4.5
Cement.....	66.4	-5.5	+5.4	63.2	-4.9	+12.7	27.33	+6	+7.0	39.0	+5	+5.5	70.1	+1	+1.5
Glass.....	108.5	-7	+9.7	118.9	-1.7	+13.9	26.78	-1.0	+3.8	36.4	-1.5	+1.4	73.7	+5	+2.3
Marble, granite, slate, and other products.....	48.7	-2.8	+1.0	35.0	-8.9	+2.5	25.18	-6.3	+7	36.0	-5.1	+1.3	70.7	-9	+2.0
Pottery.....	95.0	-3	+10.7	90.2	+1.1	+13.2	24.04	+1.4	+2.1	39.0	+1.4	+2.8	62.8	+1.1	+8
<i>Nondurable goods</i>															
Textiles and their products.....	105.8	-1.9	+3.8	91.8	-1.2	+7.4	17.74	+8	+3.5	35.9	-6	+2	49.7	+1.0	+3.3
Fabrics.....	98.7	-2.2	+5.2	89.5	-2.4	+8.6	17.55	-2	+3.3	37.2	-6	-6	47.9	+5	+4.0
Carpets and rugs.....	84.4	-9	+11.2	75.8	-1	+20.0	24.86	+8	+7.9	37.7	+3	+2.0	66.0	+5	+5.6
Cotton goods.....	96.8	-1	+11.2	91.5	+7	+20.7	15.44	+8	+8.6	37.6	+4	+1.2	41.0	+4	+7.2
Cotton small wares.....	91.0	-2.1	+10.3	87.3	-3.4	+11.1	18.61	-1.3	+6	39.0	-1.8	+1	48.3	+1	+1.4
Dyeing and finishing textiles.....	133.2	-7	+8.2	116.4	+1.0	+9.2	21.33	+1.7	+8	39.1	+8	-9	54.0	+8	+1.4
Hats, fur-felt.....	91.4	+3.3	+3.1	89.0	+21.7	+20.1	26.41	+17.8	+16.5	36.8	+17.9	+9.8	72.8	+2.4	+5.9
Hosiery.....	148.2	-4.2	-3.1	159.0	-6.5	-5.6	19.52	-2.4	-2.6	35.4	-1.7	-4.8	55.4	-2	+4.4
Knitted outerwear.....	64.8	-16.6	-12.1	49.9	-21.5	-16.3	16.54	-5.8	-4.7	34.7	-6.8	-8.6	47.1	+8	+4.0
Knitted underwear.....	78.9	-2.3	+11.3	72.4	-3.5	+17.6	15.48	-1.2	+5.7	36.8	-1.7	+4.4	42.2	+4	+1.2
Knitted cloth.....	144.2	-6.4	+1.4	116.3	-11.5	+2.0	18.22	-5.5	+6	36.9	-5.9	-8	48.4	+0	+7.0
Silk and rayon goods.....	65.2	-3.5	-9	56.8	-5.3	+4.9	16.58	-1.8	+6.0	36.5	-2.6	-1.6	45.2	+7	+2.5
Woolen and worsted goods.....	91.3	-3.9	+1.0	78.4	-4.2	+1.3	19.83	-3	+3	37.1	-1.7	-1.8	53.4	+1.4	+2.1
Wearing apparel.....	116.9	-1.5	+1.2	90.3	+1.2	-5.0	18.30	+2.8	+3.6	33.5	-6	+1.5	53.3	+2.0	+2.3
Clothing, men's.....	105.2	+4	+5.6	80.3	+5.6	+14.1	19.72	+5.1	+7.9	33.5	+3.2	+4.8	59.1	+1.9	+2.3
Clothing, women's.....	164.6	-2.0	-1.5	117.6	+1.2	-4	19.26	+3.3	+1.2	32.6	-2.8	-7	53.3	+2.9	+1.1
Corsets and allied garments.....	116.3	-5	+10.4	120.4	-1.0	+8.9	17.06	-5	-1.2	35.7	-1.8	-4.0	46.5	+1.0	+8.2
Men's furnishings.....	129.0	-5.6	-12.8	126.0	-9.2	-10.0	15.13	-3.8	+3.4	35.2	-5.5	-1.7	41.3	+7	+4.1
Millinery.....	66.1	-6	-2.3	46.5	-4.2	-3.2	19.81	-3.5	-1.1	32.5	+2	+0.1	61.6	-3.3	+5.5
Shirts and collars.....	122.3	-4.2	+2.5	110.8	-5.8	+8.3	14.55	-1.7	+5.7	35.3	-1.4	+1	41.4	+3	+2.3
Leather and its manufactures.....	93.2	+1.4	-1.2	75.4	+6.0	+8	19.09	+4.5	+2.0	35.7	+4.9	-3.4	53.7	-4	+2.5
Boots and shoes.....	90.8	+2.1	-1.6	70.2	+8.8	+6	17.62	+6.5	+2.1	34.9	+6.5	-4.0	51.1	-5	+4
Leather.....	87.0	-1.1	+4	86.5	-9	+1.6	24.88	+2	+9	38.8	+1	-7	64.3	+4	+2.8
Food and kindred products.....	125.9	-2.9	+1.7	124.4	-8	+4.6	25.51	+2.2	+2.9	40.5	+1.0	-3	63.4	+1.3	+2.7
Baking.....	144.8	-1.2	+4	134.1	-2.1	+1.9	25.83	-0	+1.6	41.0	-1.9	-1.0	63.3	+7	+1.3
Beverages.....	260.6	-2	+3.8	298.8	+1.8	+8.2	33.56	+2.0	+4.2	38.4	+1.7	+2.6	38.1	+2	+6
Butter.....	92.5	-1.6	+1.2	78.1	-1.3	+3.2	22.51	+4	+1.8	35.8	-3	+8	48.8	+8	+4.4
Canning and preserving.....	100.7	-16.4	+1.2	89.1	-11.8	+6.4	17.64	+5.5	+5.2	35.6	+2.9	-4.0	50.6	+2.6	+5.4
Confectionery.....	96.0	-2.1	+5	99.8	+3.8	+8.0	20.25	+5.9	+7.6	41.4	+4.6	+3.2	49.3	+1.5	+1.0
Flour.....	78.7	+1.0	-3	72.2	+2.5	+2.8	24.83	+1.5	+3.0	40.8	+4	+6	60.4	+5	+2.3
Ice cream.....	68.0	-1.9	+1.3	57.3	-9	+1.5	29.48	+1.0	+1	45.2	+1.9	-2.6	64.0	-2	+1
Slaughtering and meat packing.....	112.1	+3.8	-7.7	121.5	+7.9	+11.1	28.51	+3.9	+3.3	42.1	+5.0	+2.6	67.8	-8	+2.1
Sugar, beet.....	190.7	-33.5	-22.5	177.7	-38.3	-25.6	24.27	-7.2	-3.7	45.3	-9.8	-5.2	54.2	+2	+1.4
Sugar refining, cane.....	95.2	+1.5	+4.4	75.8	-2.1	+3	22.39	-3.5	-3.0	36.2	-1.9	-1.5	61.8	-1.6	+4.3
Tobacco manufactures.....	65.8	-9	-1.2	62.3	-1.0	+1.0	17.47	0	+2.3	35.8	-2.1	-1.5	48.9	+2.2	+3.8
Chewing and smoking tobacco and snuff.....	60.8	-4	-4.6	67.2	-7	-7.1	17.90	-3	-2.7	34.2	-4	-6.1	52.5	+5	+4.4
Cigars and cigarettes.....	66.3	-9	-1.0	61.6	-9	+2.3	17.37	0	+3.2	36.0	-2.3	-1.1	48.4	+2.5	

See footnotes at end of table.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1939—Continued*

MANUFACTURING—Continued

[Indexes are based on 3-year average, 1923-25=100. New series—adjusted to 1937 Census of Manufactures for all industries except automobiles, and not comparable to indexes published in the July 1939 and earlier issues of the pamphlet. Comparable series available upon request]

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index Decem- ber 1939	Percentage change from—		Index Decem- ber 1939	Percentage change from—		Decem- ber 1939	Percentage change from—		Decem- ber 1939	Percentage change from—		Decem- ber 1939	Percentage change from—	
		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938		Novem- ber 1939	Decem- ber 1938
<i>Nondurable goods—Continued</i>															
Paper and printing	118.5	+0.9	+4.7	116.8	+2.3	+7.6	\$29.51	+1.4	+2.9	39.4	+(?)	+2.1	78.2	+0.9	+1.2
Boxes, paper.....	124.9	-3.1	+10.6	136.9	-5.8	+12.3	21.92	-2.8	+1.4	40.1	-3.7	+(?)	55.0	+ .8	+1.3
Paper and pulp.....	115.1	- .1	+8.3	122.5	-1.7	+18.4	26.19	-1.6	+9.2	41.6	-1.9	+6.5	63.1	+ .3	+2.6
Printing and publishing:															
Book and job.....	104.1	+3.0	+1.4	94.1	+6.2	+3.0	31.63	+3.0	+1.6	39.6	+2.5	+1.0	80.9	+ .4	+1.4
Newspapers and periodicals.....	118.6	+1.7	+1.7	115.0	+5.2	+2.9	39.04	+3.4	+1.0	36.7	+2.2	- .5	102.7	+ .8	+2.2
Chemical, petroleum, and coal products	122.3	- .2	+7.0	133.3	+ .2	+11.7	29.63	+ .4	+4.4	39.0	+ .3	+1.9	75.2	- .1	+2.7
Petroleum refining.....	122.3	-1.1	+2.5	137.6	- .2	+2.5	35.27	+ .9	- .1	36.4	+1.1	- .3	97.2	- .1	+ .1
Other than petroleum refining.....	122.2	0	+8.0	132.0	+ .4	+15.1	27.37	+ .4	+6.5	39.8	+ .1	+2.8	67.7	+ .1	+4.8
Chemicals.....	137.4	- .1	+15.5	162.1	+ .5	+22.6	32.45	+ .6	+6.2	40.3	+ .1	+2.8	80.2	+ .4	+3.1
Cottonseed—oil, cake, and meal.....	114.9	-4.0	-12.3	110.2	-4.0	+4.1	15.64	0	+18.6	46.2	+ .5	+4.1	33.1	- .1	+13.3
Druggists' preparations.....	118.8	+ .9	+7.5	132.2	+ .8	+10.2	25.22	- .1	+2.6	40.2	-1.0	+1.2	60.0	+ .7	+1.6
Explosives.....	107.8	+1.6	+25.0	128.7	+ .9	+29.1	32.74	- .7	+3.3	39.5	-1.1	- .1	82.8	+ .3	+3.3
Fertilizers.....	102.2	+11.7	+10.8	82.2	+8.3	+16.9	14.65	-3.6	+3.9	34.2	+ .6	+ .3	42.8	-4.2	+5.4
Paints and varnishes.....	124.2	- .7	+6.1	130.5	- .7	+10.9	28.75	0	+3.6	40.3	+ .2	+1.9	71.4	- .3	+1.7
Rayon and allied products.....	312.2	- .4	+4.6	314.0	+1.2	+13.5	25.82	+1.6	+8.5	38.8	+ .6	+5.0	66.5	+ .9	+3.4
Soap.....	85.1	-3.9	+7.8	102.1	-2.3	+9.4	28.09	+1.8	+1.4	39.7	+ .3	+2.0	70.7	+1.5	- .4
Rubber products	93.0	-1.0	+11.4	100.5	+ .7	+15.8	29.50	+1.7	+3.9	38.1	+ .2	+1.4	77.6	+1.1	+2.2
Rubber boots and shoes.....	63.1	+1.2	+ .3	65.7	-1.3	+3.4	23.90	-2.5	+3.2	39.1	-2.4	+ .8	61.1	- .1	+2.4
Rubber tires and inner tubes.....	74.7	+ .2	+12.1	89.9	+4.6	+16.8	35.11	+4.4	+4.2	36.1	+3.0	+2.7	97.4	+1.4	+1.5
Rubber goods, other.....	156.5	-3.0	+14.6	155.4	-4.4	+18.6	24.19	-1.5	+3.5	39.9	-1.5	+ .5	61.2	+ .1	+3.0

NONMANUFACTURING

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

Coal mining:																	
Anthracite ¹	51.0	-0.7	-0.6	26.6	-30.7	-37.4	\$17.16	-36.2	-37.0	18.9	-34.6	-36.3	91.2	-1.2	-0.7		
Bituminous ¹	93.2	-1.8	+4.3	85.0	-11.7	+5.0	24.83	-10.1	+6	28.3	-10.3	+1.5	89.0	+4	-3		
Metaliferous mining	67.2	+1.2	+8.0	65.3	+2.2	+20.6	30.43	+1.0	+11.7	41.4	+5	+4.8	73.9	+5	+6.8		
Quarrying and nonmetallic mining	44.0	-0.5	+6.2	39.1	-8.9	+16.2	22.07	-2.6	+9.4	39.5	-2.0	+4.1	56.1	+1	+5.2		
Crude-petroleum producing	63.8	+	(²)	59.1	-8	-5.3	33.46	-9	+6	38.0	-1.0	-1.5	88.5	+1	+1.9		
Public utilities:																	
Telephone and telegraph ⁴	74.7	-4	+6	95.0	+6	+2.8	31.29	+1.1	+2.2	38.9	0	-3	80.8	+1.1	+2.7		
Electric light and power and manufactured gas ⁴	93.0	-4	+1.7	101.1	-4	+2.9	34.09	-1	+1.1	39.6	-9	-5	86.0	+8	+1.5		
Electric-railroad and motorbus operation and maintenance ⁴	69.6	-3	+3	70.8	+4	+1.6	33.32	+7	+1.2	46.1	+7	+6	71.7	+2	+9		
Trade:																	
Wholesale ⁴	92.2	+1	+2.4	79.1	+1	+4.5	29.85	+1	+2.1	41.7	+4	-5	71.3	-3	+2.9		
Retail ⁴	101.0	+12.3	+3.0	82.7	+10.7	+4.4	20.19	-1.5	+1.5	42.9	+1.3	-2	52.8	-3.7	+1.2		
General merchandising ⁴	151.2	+37.0	+4.9	129.7	+35.4	+5.6	17.05	-1.2	+6	41.2	+6.1	+3	43.9	-7.5	-1		
Other than general merchandising ⁴	87.8	+3.8	+2.0	73.0	+3.7	+4.0	24.01	-1	+1.9	43.7	+3	-3	56.8	-9	+1.9		
Hotels (year-round) ^{3 4 5}	90.8	-1.1	-1.3	81.1	-9	0	15.59	+2	+1.3	46.4	-3	-(²)	33.4	+2	+1.2		
Laundries ³	95.5	-1	+2.3	83.7	+1.0	+4.6	18.07	+1.1	+2.2	42.9	+8	-1	42.2	+2	+2.1		
Dyeing and cleaning ³	97.3	-5	-6	69.7	-1.6	+2.0	19.83	-1.1	+2.6	41.4	+5	-5	49.5	-1.1	+3.5		
Brokerage ⁴	(⁶)	-6	-1.2	(⁶)	+1.8	-1.3	37.41	+2.5	-1	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)		
Insurance ⁴	(⁶)	+1	+1.5	(⁶)	+1.3	+4	35.63	+1.2	-1.1	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)		
Building construction	(⁶)	-6.9	+5.0	(⁶)	-7.0	+12.0	30.91	-1	+6.6	32.8	-1.9	+3.2	94.3	+1.7	+3.0		

¹ Revised series for "all manufacturing" for various groups under manufacturing, for sawmills, fertilizers, soap, and telephone and telegraph. Mimeographed sheets giving averages for these, as well as for the remaining industries covered, by years, 1932 to 1938, inclusive, and by months, January 1938 to September 1939, inclusive, available on request. 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 not all reporting firms 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.

² Less than 1/10 of 1 percent.

³ Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this publication.

⁴ 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.

⁵ Cash payments only; the additional value of board, room, and tips cannot be computed.

⁶ Not available.

TABLE 5.—*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 1937 Census of Manufactures for all industries except automobiles and not comparable to indexes published in pamphlets prior to August 1939. 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		
	December 1939	November 1939	October 1939	December 1939	November 1939	October 1939	December 1939	November 1939	October 1939	December 1939	November 1939	October 1939	December 1939	November 1939	October 1939
All manufacturing	104.1	103.8	103.6	103.6	101.6	101.6	\$28.27	\$25.73	\$25.81	38.6	38.5	39.1	Cents 68.2	Cents 65.3	Cents 64.6
Durable goods.....	100.1	98.2	96.1	104.4	100.9	99.6	30.08	29.42	29.71	39.5	39.6	40.1	72.6	71.5	71.3
Nondurable goods.....	107.9	106.2	110.8	102.8	102.4	103.9	22.32	22.02	22.02	37.7	37.6	38.2	60.5	59.9	59.0
<i>Durable goods</i>															
Iron and steel and their products, not including machinery	111.4	111.2	106.8	115.4	114.7	112.1	30.72	30.54	31.09	39.4	39.6	40.3	77.2	76.7	76.4
Blast furnaces, steel works, and rolling mills.....	123.3	121.8	115.1	129.2	127.3	123.6	33.19	33.08	33.91	39.0	39.2	40.0	85.1	84.7	84.8
Bolts, nuts, washers, and rivets.....	119.8	118.3	113.4	143.4	142.4	137.5	29.20	29.32	29.56	42.7	43.0	42.8	68.4	68.2	68.9
Cast-iron pipe.....	77.5	77.4	76.6	71.7	73.9	71.4	22.43	23.12	22.60	37.9	39.4	38.5	58.7	58.3	58.3
Cutlery (not including silver and plated cutlery) and edge tools.....	108.7	109.3	103.9	101.9	101.7	94.2	24.46	24.22	23.54	41.3	41.3	41.0	60.2	59.8	58.8
Forgings, iron and steel.....	72.6	70.1	65.2	88.2	83.7	74.7	33.05	32.59	31.24	42.1	41.8	40.4	78.6	78.1	77.4
Hardware.....	105.6	106.4	99.7	117.0	118.6	109.6	27.44	27.58	27.13	40.2	40.3	40.2	68.0	68.5	67.6
Plumbers' supplies.....	83.9	83.2	82.1	77.7	77.6	79.9	26.96	27.07	28.18	39.4	39.7	41.3	68.4	68.2	68.3
Stamped and enameled ware.....	165.6	166.3	163.6	173.7	171.3	172.7	25.01	24.49	25.08	39.4	39.3	40.4	63.4	62.2	62.1
Steam and hot-water heating apparatus and steam fittings.....	86.2	87.3	86.4	79.9	79.8	83.3	28.38	28.00	29.49	40.2	40.1	41.8	70.5	69.9	70.6
Stoves.....	89.3	96.0	97.4	78.5	88.4	93.9	25.24	26.51	27.68	38.0	39.3	41.2	66.9	67.4	67.4
Structural and ornamental metalwork.....	75.3	76.0	76.3	67.7	67.1	68.3	29.03	28.52	28.87	39.6	39.3	39.9	73.4	72.5	72.5
Tin cans and other tinware.....	96.1	101.3	105.7	100.4	105.4	111.3	23.63	23.52	23.86	38.6	38.6	39.1	61.9	61.4	61.0
Tools (not including edge tools, machine tools, files, and saws).....	97.0	95.3	91.1	102.2	97.3	92.2	26.60	25.77	25.58	43.0	41.7	41.2	62.2	62.0	62.2
Wirework.....	176.4	172.8	165.9	204.4	199.7	183.3	28.81	28.73	27.47	40.9	41.1	40.3	70.5	70.0	68.2
Machinery, not including transportation equipment	113.1	111.0	106.6	122.1	117.1	111.0	30.25	29.51	29.20	41.3	40.9	40.6	73.2	72.3	72.1
Agricultural implements (including tractors).....	130.9	124.6	117.8	151.5	140.5	131.3	31.07	30.27	29.92	39.3	38.7	38.4	79.3	78.7	78.2
Cash registers, adding machines, and calculating machines.....	128.1	127.1	126.3	131.6	128.6	126.1	32.48	31.93	31.50	39.4	38.9	38.4	82.8	82.3	82.2
Electrical machinery, apparatus, and supplies.....	102.6	100.4	97.3	114.2	109.6	105.7	29.89	29.34	29.24	40.4	40.2	40.0	74.2	73.1	73.3
Engines, turbines, water wheels, and windmills.....	119.8	109.8	105.2	156.8	139.1	129.2	34.56	33.46	32.48	43.0	42.1	41.1	80.7	79.9	79.4

Foundry and machine-shop products.....	97.2	95.4	91.2	98.6	94.3	89.5	30.35	29.43	29.27	41.7	40.9	40.8	72.7	72.0	71.8
Machine tools.....	192.2	183.9	170.6	256.2	237.8	207.6	37.03	35.91	33.80	48.2	47.0	44.9	77.0	76.5	75.4
Radios and phonographs.....	162.3	179.7	176.5	148.8	170.3	169.6	22.71	23.47	23.79	38.6	40.3	41.6	50.0	58.3	57.3
Textile machinery and parts.....	85.7	84.3	79.7	85.7	82.4	75.7	27.48	27.01	26.14	41.5	41.2	40.2	66.3	65.7	65.0
Typewriters and parts.....	127.3	128.0	124.1	121.6	125.7	125.9	23.41	24.09	24.88	36.6	37.9	39.2	64.0	63.5	63.5
Transportation equipment.....	118.7	102.9	105.3	122.5	105.7	109.9	34.03	33.30	33.82	38.1	37.6	38.1	89.6	88.7	89.1
Aircraft.....	1,886.0	1,749.5	1,556.4	1,777.9	1,718.0	1,512.1	29.39	30.65	30.30	42.3	41.8	41.8	73.5	74.8	74.8
Automobiles.....	118.4	102.3	107.8	125.8	106.1	113.3	35.13	34.30	34.75	37.6	37.2	37.7	93.3	92.4	92.2
Cars, electric and steam-railroad.....	52.1	46.5	40.7	46.8	40.2	37.5	28.12	27.03	28.85	38.6	37.1	37.5	72.9	72.8	70.8
Locomotives.....	28.0	26.1	25.5	27.5	25.1	24.6	30.12	29.54	29.75	38.6	38.0	38.5	78.1	77.8	77.3
Shipbuilding.....	139.4	132.9	133.6	152.8	141.0	143.6	32.90	31.85	32.26	38.2	37.9	38.3	85.8	84.4	84.2
Nonferrous metals and their products.....	112.9	113.5	110.4	118.5	115.4	113.6	28.67	28.26	28.58	40.9	41.0	41.4	70.3	69.0	69.1
Aluminum manufactures.....	170.4	174.3	168.1	196.8	195.5	190.8	28.22	27.37	27.70	40.3	40.6	41.2	70.0	67.4	67.0
Brass, bronze, and copper products.....	137.7	137.4	131.1	158.9	157.0	154.1	31.63	31.39	32.21	41.8	41.7	42.6	75.8	75.3	75.0
Clocks and watches and time-recording devices.....	93.1	93.1	90.0	96.9	99.8	98.6	23.09	23.84	24.39	39.1	40.4	41.4	59.6	59.1	59.0
Jewelry.....	98.6	107.0	106.7	86.5	90.0	92.6	24.63	23.94	24.50	40.1	41.0	41.5	61.2	57.7	58.2
Lighting equipment.....	98.0	93.4	88.4	84.7	78.2	77.1	27.88	27.01	27.03	39.9	39.9	39.5	70.0	67.7	68.3
Silverware and plated ware.....	76.7	76.2	73.1	76.7	75.1	70.8	28.72	28.52	27.98	44.2	44.0	43.6	65.1	65.2	64.8
Smelting and refining—copper, lead, and zinc.....	86.0	86.0	83.8	87.8	85.3	81.3	28.36	27.80	27.20	39.6	39.1	38.5	71.7	71.2	70.7
Lumber and allied products.....	71.1	73.0	72.4	85.2	88.8	88.7	20.18	20.64	20.80	38.6	39.7	40.9	51.3	51.5	50.2
Furniture.....	94.8	96.8	94.6	85.5	86.2	84.9	21.87	21.63	21.72	40.3	40.5	41.3	54.4	53.6	52.7
Lumber:															
Millwork.....	63.6	64.1	63.6	52.0	52.8	52.0	22.88	23.04	22.91	41.0	42.6	43.0	54.2	54.2	53.2
Sawmills.....	63.3	65.5	65.5	55.4	60.8	61.6	18.11	19.20	19.45	37.0	38.6	40.3	48.9	49.7	48.3
Stone, clay, and glass products.....	83.7	85.5	84.8	78.4	78.9	80.3	25.01	25.23	25.98	37.5	37.9	39.2	66.0	65.7	65.4
Brick, tile, and terra cotta.....	62.6	64.7	64.8	51.6	54.3	56.6	21.18	21.58	22.51	37.9	38.5	40.5	55.8	55.6	55.1
Cement.....	66.4	70.2	71.6	63.2	66.5	71.3	27.33	27.06	28.48	39.0	38.8	40.4	70.1	69.8	70.5
Glass.....	108.5	109.3	106.9	118.9	121.0	121.2	26.78	27.06	27.71	36.4	36.9	38.0	73.7	73.4	73.0
Marble, granite, slate, and other products.....	48.7	50.1	51.2	35.0	38.5	39.2	25.18	26.76	26.71	36.0	38.0	38.2	70.7	71.4	70.0
Pottery.....	95.0	95.3	91.6	90.2	89.2	87.0	24.04	23.75	24.15	39.0	38.5	38.8	62.8	62.1	61.8
<i>Nondurable goods</i>															
Textiles and their products.....	105.8	107.9	108.3	91.8	92.9	93.7	17.74	17.68	17.58	35.9	36.1	36.7	49.7	49.3	48.6
Fabrics.....	98.7	100.9	98.8	89.5	91.7	88.0	17.55	17.64	17.21	37.2	37.4	37.8	47.9	47.7	46.4
Carpets and rugs.....	84.4	85.1	83.2	75.8	75.8	74.8	24.86	24.66	25.01	37.7	37.5	37.7	66.0	65.7	66.4
Cotton goods.....	96.8	96.9	94.3	91.5	90.9	84.2	15.44	15.36	14.61	37.6	37.4	38.0	41.0	41.0	38.4
Cotton small wares.....	91.0	92.9	91.9	87.3	90.3	89.0	18.61	18.89	18.85	39.0	39.7	39.6	48.3	48.3	48.2
Dyeing and finishing textiles.....	133.2	134.2	132.9	116.4	115.2	115.5	21.33	20.96	21.21	39.1	38.7	39.5	54.0	53.7	53.1
Hats, fur-felt.....	91.4	88.4	85.7	89.0	73.1	61.4	26.41	22.41	19.34	36.8	31.4	27.6	72.8	71.2	69.7
Hosiery.....	148.2	154.6	153.8	159.0	170.0	173.8	19.52	19.95	20.40	35.4	36.0	37.1	55.4	55.4	55.5
Knitted outerwear.....	64.8	77.7	71.7	49.9	63.5	69.7	16.54	17.62	18.31	34.7	37.2	39.4	47.1	46.8	45.9
Knitted underwear.....	78.9	80.8	80.2	72.4	75.0	74.1	15.48	15.72	15.60	36.8	37.5	38.4	42.2	42.1	40.7
Knitted cloth.....	144.2	154.1	152.1	116.3	131.4	132.2	18.22	19.27	19.74	36.9	39.2	41.0	48.4	48.0	46.8
Silk and rayon goods.....	65.2	67.6	66.7	56.8	60.0	57.1	16.58	16.90	16.31	36.5	37.4	38.0	45.2	44.9	42.6
Woolen and worsted goods.....	91.3	95.0	90.9	78.4	81.9	76.6	19.83	19.89	19.46	37.1	37.8	37.1	53.4	52.7	52.5
Wearing apparel.....	116.9	118.7	124.7	90.3	89.2	86.7	18.30	17.81	18.63	33.5	33.7	34.5	53.3	52.5	52.7
Clothing, men's.....	105.2	104.7	109.4	80.3	76.1	82.9	19.72	18.84	19.65	33.5	32.2	33.6	59.1	58.4	57.8
Clothing, women's.....	164.6	168.0	178.2	117.6	116.1	133.2	19.26	18.64	20.15	32.6	33.6	33.6	53.3	51.8	54.0
Corsets and allied garments.....	116.3	116.9	117.6	120.4	121.6	126.5	17.06	17.14	17.78	35.7	36.7	36.6	46.3	46.0	45.6
Men's furnishings.....	129.0	136.7	143.7	128.0	138.8	142.9	15.13	15.73	15.33	35.2	37.4	39.0	41.3	41.1	38.4
Millinery.....	66.1	66.5	82.0	46.5	48.5	61.5	19.81	20.53	21.11	32.5	32.5	34.9	*61.6	*60.8	*60.8
Shirts and collars.....	122.3	127.6	126.9	110.8	117.5	115.7	14.55	14.80	14.64	35.3	36.1	37.3	41.4	40.9	39.3

See footnote at end of table.

TABLE 5.—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		
	December 1939	November 1939	October 1939	December 1939	November 1939	October 1939	December 1939	November 1939	October 1939	December 1939	November 1939	October 1939	December 1939	November 1939	October 1939
<i>Nondurable goods—Continued</i>															
<i>Leather and its manufactures.....</i>	93.2	91.9	96.2	75.4	71.1	76.5	\$19.09	\$18.20	\$18.74	35.7	33.8	35.3	<i>Cents</i> 53.7	<i>Cents</i> 53.9	<i>Cents</i> 53.2
Boots and shoes.....	90.8	89.0	94.1	70.2	64.6	71.1	17.62	16.46	17.20	34.9	32.5	34.3	51.1	51.4	50.8
Leather.....	87.0	87.9	88.4	86.5	87.2	88.2	24.88	24.76	24.91	38.8	38.7	39.4	64.3	63.9	63.3
<i>Food and kindred products.....</i>	125.9	129.7	137.7	124.4	125.4	130.0	25.51	24.87	24.34	40.5	40.1	40.5	63.4	62.5	60.8
Baking.....	144.8	146.5	148.0	134.1	136.9	136.6	25.83	25.97	25.65	41.0	41.7	41.4	63.3	62.7	62.3
Beverages.....	260.6	261.2	270.9	298.8	293.7	309.0	33.56	32.89	33.29	38.4	37.7	38.7	88.1	88.1	87.1
Butter.....	92.5	94.1	95.0	78.1	79.1	81.6	22.51	22.49	22.99	45.8	46.1	47.2	48.8	48.4	48.7
Canning and preserving.....	100.7	120.4	182.1	89.1	101.0	156.0	17.64	16.72	16.97	35.6	34.5	38.3	50.6	49.0	45.6
Confectionery.....	96.0	98.0	96.8	99.8	96.2	96.0	20.25	19.06	19.25	41.4	39.5	40.7	49.3	48.8	48.0
Flour.....	78.7	77.9	82.3	72.2	70.5	82.6	24.83	24.48	27.06	40.8	40.5	43.1	60.4	60.2	61.4
Ice cream.....	68.0	69.3	73.0	57.3	57.8	62.2	29.48	29.32	29.97	45.2	44.1	46.3	64.0	64.2	63.9
Slaughtering and meat packing.....	112.1	107.9	102.7	121.5	112.7	107.7	28.51	27.45	27.60	42.1	40.1	40.3	67.8	68.4	68.5
Sugar, beet.....	190.7	286.8	286.5	177.7	288.3	244.9	24.27	26.16	22.25	45.3	50.3	42.3	54.2	52.7	52.6
Sugar refining, cane.....	95.2	93.8	100.9	75.8	77.4	86.5	22.39	23.21	24.12	36.2	36.9	38.1	61.8	62.8	63.3
<i>Tobacco manufactures.....</i>	65.8	68.4	66.7	62.3	62.9	63.4	17.47	17.55	17.55	35.8	36.6	37.0	48.9	47.9	47.4
Chewing and smoking tobacco and snuff.....	60.8	61.0	62.4	67.2	67.7	70.8	17.90	17.92	18.37	34.2	34.2	35.2	52.5	52.4	52.1
Cigars and cigarettes.....	66.3	66.9	67.2	61.6	62.2	62.4	17.37	17.40	17.36	36.0	36.9	37.2	48.4	47.4	46.9
<i>Paper and printing.....</i>	118.5	117.5	116.5	114.2	113.8	118.5	29.51	29.22	29.40	39.4	39.5	39.7	78.2	77.3	77.3
Boxes, paper.....	124.9	128.9	128.3	136.9	145.4	150.6	21.92	22.60	23.46	40.1	41.7	43.4	55.0	54.5	54.6
Paper and pulp.....	115.1	115.2	113.6	122.5	124.6	125.6	26.19	26.61	27.19	41.6	42.5	43.2	63.1	62.7	62.0
Printing and publishing:															
Book and job.....	104.1	101.0	99.1	94.1	88.7	84.4	31.63	30.71	29.76	39.6	38.7	37.8	80.9	80.6	80.1
Newspapers and periodicals.....	118.6	116.6	117.2	115.0	109.3	110.4	39.04	37.83	37.92	36.7	36.2	36.2	102.7	101.3	101.3
<i>Chemical, petroleum, and coal products.....</i>	122.3	122.5	122.3	133.3	133.0	133.3	29.63	29.43	29.54	39.0	39.9	39.8	75.2	75.2	73.8
Petroleum refining.....	122.3	123.7	122.7	137.6	137.9	140.0	35.27	34.94	35.77	36.4	36.1	36.9	97.2	97.2	97.4
Other than petroleum refining.....	122.2	122.2	122.2	132.0	131.5	131.2	27.37	27.16	26.99	39.8	39.9	40.8	67.7	67.5	65.7
Chemicals.....	137.4	137.5	133.6	162.1	161.2	157.9	32.45	32.26	32.51	40.3	40.3	41.2	80.2	79.9	78.9
Cottonseed—oil, cake, and meal.....	114.9	119.7	138.7	110.2	114.8	120.2	15.64	15.60	14.21	46.2	46.0	48.5	33.1	33.0	28.6
Druggists' preparations.....	118.8	117.7	116.7	132.2	131.1	133.0	25.22	25.24	25.82	40.2	40.6	41.5	60.0	59.5	59.5
Explosives.....	107.8	106.1	104.2	128.7	127.6	125.2	32.74	32.98	33.07	39.5	39.9	39.9	82.8	82.6	83.0
Fertilizers.....	102.2	91.5	98.5	82.2	75.9	79.8	14.65	15.32	14.91	34.2	34.0	35.5	42.8	45.1	42.0
Paints and varnishes.....	124.2	125.1	125.1	130.5	131.5	134.6	28.75	28.72	29.46	40.3	40.2	41.4	71.4	71.5	71.2
Rayon and allied products.....	312.2	313.4	310.2	314.0	310.4	303.0	25.82	25.42	25.03	38.8	38.6	38.7	66.5	65.9	64.6
Soap.....	85.1	88.6	90.4	102.1	104.4	109.0	28.09	27.60	28.23	39.7	39.6	40.6	70.7	69.7	69.6

Rubber products	93.0	93.9	92.4	100.5	99.8	101.9	29.50	28.95	30.11	38.1	38.0	39.2	77.6	76.8	76.9
Rubber boots and shoes.....	63.1	62.3	62.2	65.7	66.6	63.5	23.90	24.51	23.45	39.1	40.1	38.4	61.1	61.1	61.1
Rubber tires and inner tubes.....	74.7	74.5	73.6	89.9	85.9	90.6	35.11	33.64	35.91	36.1	35.1	37.5	97.4	96.1	96.1
Rubber goods, other.....	156.5	161.3	157.5	155.4	162.6	161.2	24.19	24.55	25.01	39.9	40.4	41.3	61.2	61.2	61.2
Coal mining:															
Anthracite ²	51.0	51.3	51.9	26.6	42.0	52.2	17.16	26.90	33.03	18.9	28.8	35.6	91.2	92.3	93.0
Bituminous ²	93.2	94.9	93.0	85.0	96.3	97.6	24.83	27.59	28.49	28.3	31.4	32.6	89.0	88.8	88.2
Metalliferous mining.....	67.2	66.5	65.3	65.3	63.9	63.4	30.43	30.36	30.64	41.4	41.5	42.4	73.9	73.6	72.7
Quarrying and nonmetallic mining.....	44.0	47.1	48.0	39.1	42.9	45.6	22.07	22.14	23.23	39.5	40.1	42.3	56.1	54.8	54.3
Crude-petroleum producing.....	63.8	63.8	64.3	59.1	59.6	58.8	33.46	34.31	33.71	38.0	38.3	37.5	88.5	87.8	88.5
Public utilities:															
Telephone and telegraph ³	74.7	75.0	75.4	95.0	94.4	95.2	31.29	31.22	31.25	38.9	39.1	39.1	80.8	80.3	80.5
Electric light and power and manufactured gas ³	93.0	93.4	93.5	101.1	101.5	101.0	34.09	33.93	33.68	39.6	40.1	39.2	86.0	84.7	85.6
Electric-railroad and motorbus operation and maintenance ³	69.6	69.9	70.1	70.8	70.6	72.4	33.32	33.02	33.75	46.1	45.7	46.5	71.7	71.5	71.6
Trade:															
Wholesale ³	92.2	92.1	92.4	79.1	79.0	80.3	29.85	30.18	30.27	41.7	41.5	42.1	71.3	72.4	71.8
Retail ³	101.0	89.9	88.4	82.7	74.8	74.1	20.19	20.82	21.17	42.9	42.4	42.7	52.8	55.1	55.1
General merchandising ³	151.2	110.4	103.2	129.7	95.8	91.7	17.05	17.30	17.71	41.2	38.8	39.0	43.9	47.5	48.4
Other than general merchandising ³	87.8	84.5	84.5	73.0	70.4	70.5	24.01	24.10	24.16	43.7	43.6	43.9	56.8	57.6	57.2
Hotels (year-round) ^{2, 3, 4}	90.8	91.8	92.9	81.1	81.8	82.2	15.59	15.54	15.43	46.4	46.5	46.4	33.4	33.2	33.0
Laundries ²	95.5	95.6	96.0	83.7	82.9	83.9	18.07	17.68	17.84	42.9	42.4	42.7	42.2	41.7	41.8
Dyeing and cleaning ²	97.3	97.8	105.1	69.7	70.8	77.3	19.83	19.89	20.32	41.4	41.2	42.5	49.5	50.0	49.1
Brokerage ^{3, 5}	-6	-9	-6	+1.8	-1.2	-1.3	37.41	36.44	36.65	(6)	(6)	(6)	(6)	(6)	(6)
Insurance ^{3, 5}	+1	-1	-2	+1.3	+3	-(7)	35.63	36.21	36.14	(6)	(6)	(6)	(6)	(6)	(6)
Building construction ⁵	-6.9	-3.1	-6	-7.0	-3.6	-1.0	30.91	30.89	31.08	32.8	33.4	34.0	94.3	92.6	91.6

¹ Revised series for "all manufacturing," for various groups under manufacturing, for sawmills, fertilizers, soap, and telephone and telegraph. Mimeographed sheets giving averages for these, as well as for the remaining industries covered by years 1932 to 1938, inclusive, and by months, January 1938 to September 1939, inclusive, available on request. 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 not all reporting firms 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.

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.

⁸ Not comparable to previously published averages because of change in reporting sample due to the addition of new firms. Comparable September figure is 66.0 cents.

INDEXES OF EMPLOYMENT AND PAY ROLLS

Indexes of employment and pay rolls are given in table 6 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 December 1938 to December 1939, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to December 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 90 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 90 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 production they cover wage earners and the clerical field force. The coverage of the reporting samples for the various nonmanufacturing industries ranges from approximately 25 percent for wholesale trade and dyeing and cleaning to approximately 80 percent for quarrying and nonmetallic mining, anthracite mining, and public utilities.

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.

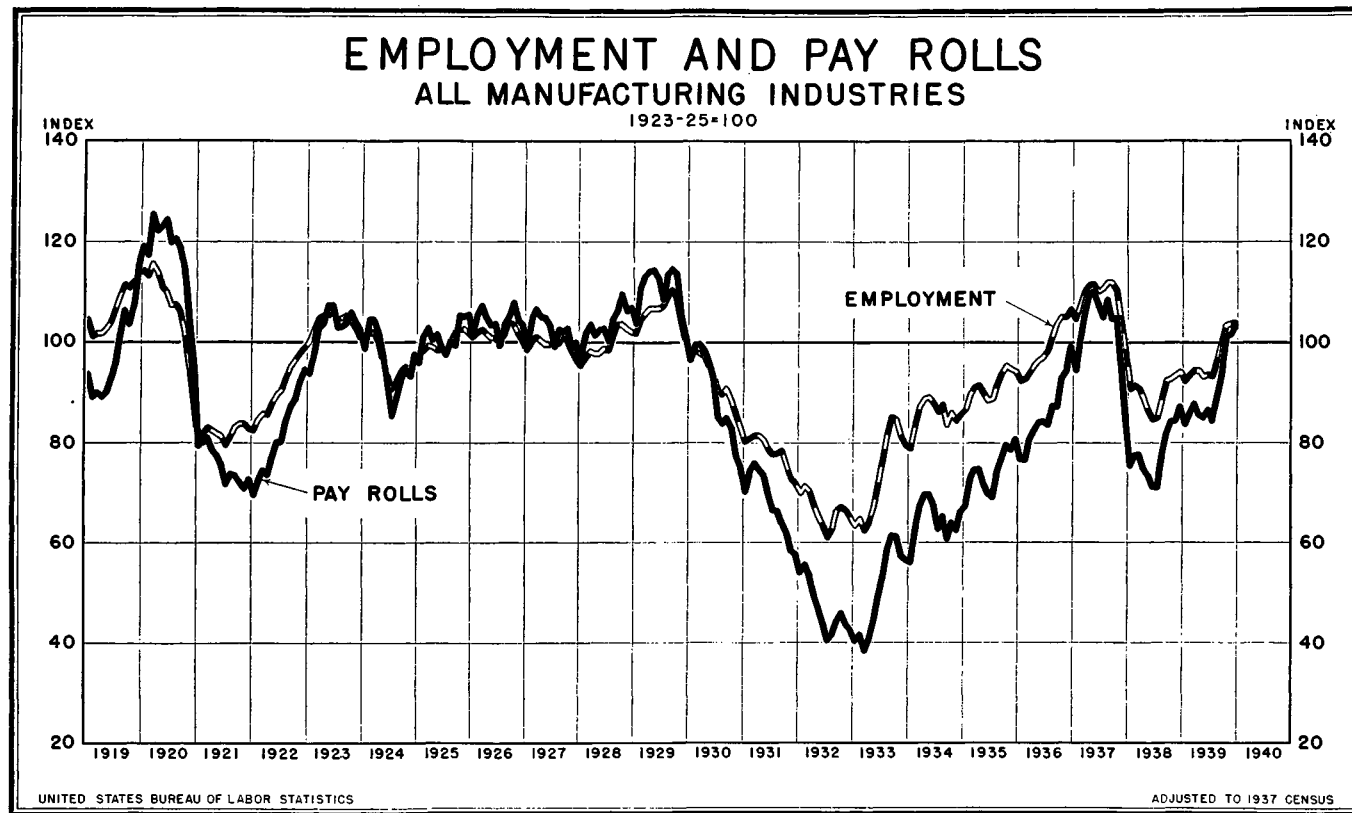


TABLE 6.—*Indexes of Employment and Pay Rolls in Selected Manufacturing¹ and Non-manufacturing² Industries, December 1938 to December 1939, Inclusive*

Industry	Employment													
	Av. 1938	1939												
		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>Manufacturing</i>														
All industries.....	89.7	94.0	92.2	93.6	94.3	94.1	93.0	93.4	93.5	96.3	100.2	103.6	103.8	104.1
Durable goods ³	77.9	83.8	82.3	83.3	84.1	84.8	84.0	84.6	83.0	83.9	89.8	96.1	98.2	100.1
Nondurable goods ⁴	100.9	103.8	101.7	103.5	104.0	103.0	101.6	101.8	103.5	108.1	110.2	110.8	109.2	107.9
<i>Nonmanufacturing</i>														
Anthracite mining.....	52.3	51.3	50.0	52.2	51.7	53.0	52.6	51.2	44.7	48.5	49.4	51.9	51.3	51.0
Bituminous-coal mining.....	86.7	89.3	88.7	88.6	87.4	25.9	47.9	78.3	79.4	81.4	85.4	93.0	94.9	93.2
Metalliferous mining.....	59.0	62.3	62.6	60.9	61.0	61.5	61.9	61.6	60.4	60.4	62.9	65.3	66.5	67.2
Quarrying and nonmetallic mining.....	42.3	41.4	38.3	37.9	40.1	43.0	45.6	47.3	47.5	48.1	47.9	48.0	47.1	44.0
Crude-petroleum producing.....	72.1	67.8	67.0	66.4	66.2	65.8	66.1	67.0	67.3	66.7	65.0	64.3	63.8	63.8
Telephone and telegraph.....	75.1	74.3	74.1	73.3	73.4	74.1	74.7	75.3	75.4	75.5	75.3	75.4	75.0	74.7
Electric light and power, and manufactured gas.....	92.3	91.4	90.0	89.6	89.5	90.3	91.0	92.3	93.2	93.8	93.7	93.5	93.4	93.0
Electric-railroad and motorbus operation and maintenance.....	70.3	69.4	69.2	69.3	69.5	69.1	69.6	69.9	69.7	69.8	69.8	70.1	69.9	69.6
Wholesale trade.....	88.8	90.0	88.3	87.9	87.4	87.3	87.2	88.1	87.9	89.0	90.5	92.4	92.1	92.2
Retail trade.....	85.2	98.1	82.2	81.5	83.8	85.5	85.7	86.4	83.6	82.5	87.3	88.4	89.9	101.0
General merchandising.....	98.0	144.1	90.7	88.8	93.2	96.9	96.8	97.4	91.7	89.8	100.1	103.2	110.4	151.2
Other than general merchandising.....	81.8	86.0	80.0	79.6	81.3	82.5	82.8	83.5	81.5	80.6	83.9	84.5	84.5	87.8
Year-round hotels.....	92.7	92.0	91.8	92.6	92.7	93.2	93.9	92.8	90.3	89.8	91.3	92.9	91.8	90.8
Laundries.....	95.7	93.4	93.3	92.8	92.9	93.5	95.5	98.7	100.0	99.1	97.8	96.0	95.6	95.5
Dyeing and cleaning.....	104.3	97.9	94.2	92.1	95.4	102.2	107.0	110.1	106.5	102.7	105.2	105.1	97.8	97.3
<i>Pay rolls</i>														
<i>Manufacturing</i>														
All industries.....	77.9	87.1	83.7	86.0	87.6	85.5	85.0	86.5	84.4	89.7	93.8	101.6	101.6	103.6
Durable goods ³	67.6	79.6	76.0	77.7	79.4	79.5	78.8	80.7	76.0	81.5	87.8	99.6	100.9	104.4
Nondurable goods ⁴	89.6	95.4	92.4	95.3	96.7	92.2	91.9	93.0	93.7	99.0	100.5	102.9	102.4	102.8
<i>Nonmanufacturing</i>														
Anthracite mining.....	38.2	42.5	38.0	45.2	34.2	43.4	57.0	36.1	25.2	33.8	40.1	52.2	42.0	26.6
Bituminous-coal mining.....	67.9	80.9	78.2	81.2	77.8	17.6	20.4	66.5	64.5	74.6	80.2	97.6	96.3	85.0
Metalliferous mining.....	50.4	54.1	55.3	53.4	53.6	52.6	54.1	53.8	48.5	53.0	55.1	63.4	63.9	65.3
Quarrying and nonmetallic mining.....	35.1	33.7	30.2	29.7	33.1	35.9	39.7	41.7	40.9	42.9	42.7	45.6	42.9	39.1
Crude-petroleum producing.....	66.5	62.5	60.9	62.7	61.3	60.8	61.2	62.5	61.9	62.0	60.8	58.8	59.6	59.1
Telephone and telegraph.....	92.1	92.5	92.0	91.7	91.9	92.1	93.7	93.7	94.6	94.3	94.9	95.2	94.4	95.0
Electric light and power, and manufactured gas.....	98.5	98.2	95.9	96.4	96.7	96.9	98.8	100.2	100.0	101.1	101.0	101.0	101.5	101.1
Electric-railroad and motorbus operation and maintenance.....	69.7	69.7	71.1	69.9	70.5	69.6	70.1	71.2	70.6	71.0	70.4	72.4	70.6	70.8
Wholesale trade.....	74.7	75.7	75.5	74.6	74.7	74.8	74.9	75.8	75.8	76.2	78.0	80.3	79.0	79.1
Retail trade.....	70.4	79.2	69.7	68.4	69.6	71.3	71.5	72.5	70.9	69.4	72.3	74.1	74.8	82.7
General merchandising.....	87.8	122.9	84.0	81.0	83.4	86.6	86.7	88.1	83.8	81.1	88.3	91.7	95.8	129.7
Other than general merchandising.....	66.8	70.1	66.7	65.8	66.8	68.1	68.3	69.3	68.2	67.0	69.0	70.5	70.4	73.0
Year-round hotels.....	80.3	81.1	80.2	82.8	81.1	81.9	82.4	82.0	79.1	79.2	80.4	82.2	81.8	81.1
Laundries.....	80.6	80.0	79.6	78.6	79.3	79.9	83.9	86.9	88.0	85.9	84.5	83.9	82.9	83.7
Dyeing and cleaning.....	75.3	68.3	65.8	63.2	67.7	73.3	83.0	84.2	77.1	73.0	78.3	77.3	70.8	69.7

¹ 3-year average 1923-25=100—adjusted to 1937 Census of Manufactures.² 12-month average for 1920=100. Comparable indexes are in November 1934 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, 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 geographical divisions, in November and December 1939 is shown in table 7 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 total for all groups 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 90 manufacturing industries presented in table 4. The totals for all groups combined include all manufacturing industries, each of the nonmanufacturing industries presented in table 4 (except building construction), and seasonal hotels.

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

TABLE 7.—*Comparison of Employment and Pay Rolls in Identical Establishments in November and December 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 December 1939	Percentage change from November 1939	Amount of pay roll (1 week) December 1939	Percentage change from November 1939	Number of establishments	Number on pay roll December 1939	Percentage change from November 1939	Amount of pay roll (1 week) December 1939	Percentage change from November 1939
				<i>Dollars</i>					<i>Dollars</i>	
New England.....	12,888	941,365	+1.0	22,721,188	+1.5	3,550	651,501	-0.8	15,507,640	+0.8
Maine.....	815	57,698	+ .3	1,222,043	+1.7	277	47,966	-(1)	986,607	+1.8
New Hampshire.....	590	41,493	-(1)	879,215	+ .4	207	35,715	-1.0	752,659	+ .2
Vermont.....	459	18,826	- .6	436,068	-1.5	145	12,039	-(1)	279,548	- .1
Massachusetts.....	² 7,611	<i>502,499</i>	<i>+1.6</i>	<i>12,038,579</i>	<i>+1.8</i>	<i>1,800</i>	<i>291,574</i>	<i>-1.1</i>	<i>6,800,903</i>	<i>+ .9</i>
Rhode Island.....	1,118	109,956	- .9	2,254,973	- .4	421	83,313	-2.5	1,827,711	-1.7
Connecticut.....	2,295	219,893	+1.2	5,890,310	+2.0	700	180,894	+ .3	4,860,212	+1.7
Middle Atlantic.....	31,354	2,307,392	+1.9	62,316,567	+ .6	6,811	1,375,171	-2.37	967,696	+ .8
New York.....	19,299	1,018,309	+3.2	28,158,096	+2.8	³ 2,760	<i>483,042</i>	<i>+ .1</i>	<i>13,608,885</i>	<i>+1.8</i>
New Jersey.....	3,816	373,935	- .8	10,233,787	- .8	1,600	317,159	-1.3	8,642,034	-1.3
Pennsylvania.....	8,239	915,148	+1.7	23,924,684	-1.3	<i>2,442</i>	<i>574,970</i>	<i>+ .3</i>	<i>15,716,777</i>	<i>+ .4</i>
East North Central.....	23,540	2,341,311	+4.2	67,888,963	+5.5	8,201	1,766,118	+3.4	53,494,734	+6.7
Ohio.....	6,193	578,468	+2.5	16,766,196	+3.2	2,322	442,971	+ .7	13,420,096	+2.9
Indiana.....	2,822	<i>297,048</i>	<i>+4.1</i>	<i>8,265,503</i>	<i>+5.2</i>	<i>1,055</i>	<i>240,396</i>	<i>+1.9</i>	<i>7,002,059</i>	<i>+4.2</i>
Illinois.....	³ 6,559	658,772	+1.5	18,050,133	+2.6	2,334	435,563	+1.2	12,094,773	+1.7
Michigan.....	3,713	545,337	+11.3	17,887,260	+13.6	<i>1,006</i>	<i>464,983</i>	<i>+11.2</i>	<i>16,018,089</i>	<i>+17.6</i>
Wisconsin.....	⁴ 4,262	261,686	+1.6	6,019,870	+ .2	<i>1,484</i>	<i>182,205</i>	<i>+1.2</i>	<i>4,958,817</i>	<i>+ .9</i>

See footnotes at end of table.

TABLE 7.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1939, by Geographic Divisions and by States—Continued

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

Geographic division and State	Total—all groups					Manufacturing				
	Number of establishments	Number on pay roll December 1939	Percentage change from November 1939	Amount of pay roll (1 week) December 1939	Percentage change from November 1939	Number of establishments	Number on pay roll December 1939	Percentage change from November 1939	Amount of pay roll (1 week) December 1939	Percentage change from November 1939
				<i>Dollars</i>					<i>Dollars</i>	
West North Central	11,096	455,249	+2.3	11,490,715	+2.4	2,375	228,988	+1.2	5,837,601	+3.2
Minnesota.....	<i>3,761</i>	<i>136,018</i>	<i>+1.2</i>	<i>3,718,732</i>	<i>+3</i>	<i>609</i>	<i>52,056</i>	<i>-1.8</i>	<i>1,420,245</i>	<i>-1.2</i>
Iowa.....	1,720	65,666	+2.9	1,620,621	+4.3	317	39,929	+3.5	1,037,591	+6.7
Missouri.....	2,531	157,597	+3.4	3,916,347	+5.0	781	98,051	+3.4	2,387,369	+6.5
North Dakota.....	402	4,209	+1.1	101,810	-9	27	402	+8	10,393	+7
South Dakota.....	389	7,209	+2	196,985	+1	26	2,546	+1.6	65,233	+7
Nebraska.....	897	26,853	+7	607,906	-1.8	136	10,241	-7.5	258,626	-8.2
Kansas.....	<i>2,396</i>	<i>57,697</i>	<i>+1.5</i>	<i>1,328,314</i>	<i>+6</i>	<i>449</i>	<i>25,763</i>	<i>-4</i>	<i>658,144</i>	<i>+1.5</i>
South Atlantic	10,196	917,682	+1.6	18,611,488	+1	2,882	638,843	+1	12,316,288	+5
Delaware.....	230	16,465	+1.6	404,857	+2.4	79	77,603	+3	289,806	+2.6
Maryland.....	1,540	156,057	+2.8	5,936,893	+1.0	628	108,740	+1	2,780,989	+2
District of Columbia.....	1,016	39,780	+7.1	1,037,528	+4.7	39	3,296	+1.4	116,949	+2.5
Virginia.....	1,823	121,826	+1.0	2,410,845	+1.9	442	85,463	-7	1,691,619	+1.7
West Virginia.....	1,034	134,808	-4	3,447,728	-7.9	210	55,423	+3	1,485,588	+4
North Carolina.....	1,571	182,586	+1.0	2,968,774	+1.4	665	162,572	-2	2,663,778	+1.0
South Carolina.....	776	94,632	-1	1,447,773	-4	263	86,899	-6	1,305,105	-6
Georgia.....	1,363	126,269	+4	2,110,036	+2.3	377	100,467	-5	1,375,967	+1.4
Florida.....	843	45,279	+10.9	847,054	+11.0	179	24,380	+11.3	406,477	+7.8
East South Central	4,231	311,988	+1.6	5,949,242	+1	1,018	203,962	-3	3,796,101	+7
Kentucky.....	1,229	80,609	+1.2	1,717,261	-5.3	286	38,551	-9	856,082	-8
Tennessee.....	1,154	103,707	+9	1,910,783	+1.3	351	77,231	-1.3	1,435,816	+5
Alabama.....	1,324	104,501	+2.9	1,966,157	+3.9	284	71,819	+1.4	1,273,697	+2.4
Mississippi.....	524	23,171	+9	355,041	-3	97	16,361	-1.1	250,596	-1.7
West South Central	5,331	223,454	+7	5,008,762	+1.3	1,280	114,558	-1.9	2,493,918	+4
Arkansas.....	<i>11,755</i>	<i>27,128</i>	<i>-7</i>	<i>451,613</i>	<i>-3</i>	<i>249</i>	<i>18,902</i>	<i>-2.7</i>	<i>311,017</i>	<i>-1.2</i>
Louisiana.....	925	56,766	+1.7	1,136,537	+1.4	234	32,034	-9	612,078	-7
Oklahoma.....	1,130	36,498	+1	903,429	+4	139	11,693	-2.6	268,378	-4
Texas.....	<i>2,621</i>	<i>103,062</i>	<i>+8</i>	<i>2,517,173</i>	<i>+1.8</i>	<i>638</i>	<i>51,929</i>	<i>-2.0</i>	<i>1,302,415</i>	<i>+3.1</i>
Mountain	3,690	119,134	-1.8	3,138,674	-3.1	537	36,667	-10.7	956,635	-11.5
Montana.....	550	17,891	+1.1	513,600	+2.4	73	5,196	-5.0	141,614	-4.6
Idaho.....	461	9,761	-1.6	248,303	-3.3	55	3,121	-10.0	81,214	-11.0
Wyoming.....	304	7,867	-4.0	221,766	-6.0	35	1,267	-19.6	43,710	-3.4
Colorado.....	1,076	38,948	-5.4	986,727	-8.6	191	16,488	-15.3	433,194	-17.9
New Mexico.....	259	5,243	+9	110,923	-2.7	30	734	+1.5	14,594	+2.9
Arizona.....	369	16,051	+2.2	464,624	+3.1	38	2,857	+8	70,081	-3.3
Utah.....	517	20,867	-(1)	515,443	-1.1	102	6,776	-7.9	164,106	-5.4
Nevada.....	154	2,506	-1.8	77,288	-1.1	13	8,228	+7.9	8,122	+6.3
Pacific	10,138	495,821	+1.9	14,226,850	+6	2,702	260,628	-2.7	7,451,003	-3.0
Washington.....	2,468	92,062	-9	2,526,554	-2.8	534	53,712	-4.6	1,469,410	-7.0
Oregon.....	1,044	42,160	-2.2	1,078,799	-3.6	291	27,900	-5.4	708,648	-7.3
California.....	<i>12,626</i>	<i>361,659</i>	<i>+3.2</i>	<i>10,621,497</i>	<i>+2.0</i>	<i>1,877</i>	<i>179,016</i>	<i>-1.6</i>	<i>5,272,945</i>	<i>-1.2</i>

¹ Less than 1/10 of 1 percent.² Includes banks and trust companies; construction, municipal, agricultural, and office employment; amusement and recreation; professional services; and trucking and handling.³ Includes laundering and cleaning; and water, light, and power.⁴ Weighted percentage change.⁵ Includes automobile and miscellaneous services; restaurants; and building and contracting.⁶ Includes construction but not public works.⁷ Does not include logging.⁸ Includes banks; real estate; pipe-line transportation; motor transportation (other than operation and maintenance); water transportation; hospitals and clinics; and personal, business, mechanical repair, and miscellaneous services.⁹ Includes financial institutions, miscellaneous services, and restaurants.¹⁰ Weighted percentage change, including hired farm labor.¹¹ Includes automobile dealers and garages; and sand, gravel, and building stone.¹² Includes banks, insurance, and office employment.

INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in November and December 1939 is made in table 8 for 13 metropolitan areas, each of which had a population of 100,000 or over in 1930. Cities within these areas, but having a population of 100,000 or over, are not included. Footnotes to the table specify which cities are excluded. Data concerning them have been prepared in a supplementary tabulation which is available on request. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 4, 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 8.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1939, by Principal Metropolitan Areas

Metropolitan area	Number of establishments December 1939	Number on pay roll December 1939	Percentage change from November 1939	Amount of pay roll (1 week) December 1939	Percentage change from November 1939
New York ¹	13, 611	672, 958	+3.0	\$18, 316, 499	+2.7
Chicago ²	4, 194	468, 520	+2.1	13, 328, 609	+4.0
Philadelphia ³	2, 261	235, 180	+1.4	6, 514, 278	+2.1
Detroit.....	1, 566	355, 725	+17.4	12, 314, 597	+19.6
Los Angeles ⁴	2, 810	164, 612	+6.0	4, 734, 067	+5.1
Cleveland.....	1, 188	120, 584	+2.6	3, 682, 602	+3.7
St. Louis.....	1, 292	118, 449	+3.2	3, 081, 888	+5.2
Baltimore.....	1, 075	119, 843	+2.5	3, 020, 373	+ .6
Boston ⁵	2, 640	199, 588	+2.6	4, 991, 844	+2.4
Pittsburgh.....	1, 152	200, 348	+2.8	6, 099, 334	+2.3
San Francisco ⁶	1, 605	81, 374	+2.7	2, 424, 180	+1.3
Buffalo.....	777	77, 761	+3.6	2, 215, 790	+5.0
Milwaukee.....	951	109, 036	+3.9	3, 090, 135	+2.6

¹ Does not include Elizabeth, Jersey City, Newark, nor 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 Does not include Cambridge, Lynn, or Somerville, Mass.

⁶ Does not include Oakland, Calif.

Public Employment

Employment created by the Federal Government includes employment financed from both regular and emergency appropriations.

EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment and pay rolls for the executive service of the Federal Government in December and November 1939 are given in table 9.

TABLE 9.—*Employment and Pay Rolls for the Executive Service of the United States Government, December and November 1939*¹

[Subject to revision]

Class	Employment			Pay rolls		
	December	November ²	Percentage change	December	November ²	Percentage change
Entire service:						
Total.....	987,538	932,641	+5.9	\$152,331,559	\$141,406,641	+7.7
Regular appropriation.....	836,446	782,728	+6.9	134,220,802	122,721,610	+9.4
Emergency appropriation.....	57,918	57,474	+ .8	7,399,442	7,407,583	- .1
Force-account.....	93,174	92,439	+ .8	10,711,315	11,277,448	-5.0
Inside the District of Columbia:						
Total.....	127,507	126,277	+1.0	22,611,637	22,513,260	+ .4
Regular appropriation.....	112,466	110,862	+1.4	20,266,885	20,103,286	+ .8
Emergency appropriation.....	8,854	8,874	- .2	1,381,159	1,380,604	(3)
Force-account.....	6,277	6,541	-4.0	963,593	1,029,370	-6.4
Outside the District of Columbia:						
Total.....	859,941	806,364	+6.6	129,719,922	118,893,381	+9.1
Regular appropriation.....	723,980	671,866	+7.8	113,953,917	102,618,324	+11.0
Emergency appropriation.....	49,064	48,600	+1.0	6,018,283	6,026,979	- .1
Force-account.....	86,897	85,898	+1.2	9,747,722	10,248,078	-4.9

¹ Data include number of employees receiving pay during the last pay period of the month.² Revised.³ Increase less than $\frac{1}{10}$ of 1 percent.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

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

TABLE 10.—*Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, December 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				
All programs.....	166,657	140,326	\$15,912,909	17,046,006	\$0.934	\$31,785,616
Federal projects financed from National Industrial Recovery Act funds						
All projects.....	284	774	\$78,453	104,694	\$0.749	\$88,163
Building construction.....	222	180	26,674	21,485	1.242	12,677
Naval vessels.....	3	3	154	191	.806	87
Public roads ⁴	(5)	243	21,423	30,082	.712	42,900
Reclamation.....	140	117	17,601	20,991	.839	10,321
River, harbor, and flood control.....	78	48	4,214	6,718	.627	9,514
Water and sewerage.....	174	159	5,147	21,165	.243	11,910
Miscellaneous.....	24	24	3,240	4,062	.798	754

See footnotes at end of table.

TABLE 10.—*Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, December 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.....	17,247	14,748	\$1,758,871	1,819,208	\$0.907	\$2,030,482
Airport construction (exclusive of buildings).....	638	627	85,055	138,160	.616	73,853
Building construction.....	12,079	10,187	1,210,067	1,163,670	1.040	1,616,283
Electrification.....	807	762	108,617	107,288	1.012	63,961
Reclamation.....	1,338	1,194	143,616	168,669	.851	78,648
River, harbor, and flood control.....	824	692	76,001	87,136	.872	96,119
Ship construction.....	258	205	23,538	22,229	1.059	37,132
Streets and roads.....	192	145	12,408	14,593	.850	12,669
Water and sewerage.....	283	239	16,192	21,554	.751	34,589
Miscellaneous.....	477	452	43,445	51,682	.841	14,541
Professional, technical, and clerical.....	351	245	39,932	44,227	.903	2,687
Non-Federal projects financed from National Industrial Recovery Act funds						
All projects.....	5,824	5,366	\$623,375	696,464	\$0.895	\$1,471,086
Building construction ¹	2,947	2,741	462,134	352,191	1.312	833,651
Railroad construction.....	10	10	18	37	.486	0
Streets and roads.....	471	420	22,586	34,740	.650	94,727
Water and sewerage.....	120	89	11,150	7,841	1.422	71,761
Miscellaneous.....	2,276	2,106	127,487	301,655	.423	470,947
Non-Federal projects financed from Emergency Relief Appropriation Act 1935, 1936, and 1937 funds						
All projects.....	12,093	10,557	\$1,172,452	1,494,102	\$0.785	\$1,448,116
Building construction.....	1,451	1,262	138,815	142,230	.976	315,204
Electrification.....	876	731	59,276	88,921	.667	121,805
Heavy engineering.....	7,031	6,281	684,958	921,572	.743	745,798
Reclamation.....	1,004	789	110,936	148,562	.747	46,374
Streets and roads.....	50	29	2,206	3,240	.681	5,873
Water and sewerage.....	1,667	1,457	175,999	189,096	.931	212,834
Miscellaneous.....	14	8	262	481	.545	228
Non-Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	130,609	108,881	\$12,279,758	12,931,538	\$0.950	\$26,747,769
Building construction.....	69,387	56,959	6,333,304	6,207,614	1.020	11,770,369
Electrification.....	1,764	1,414	120,270	154,128	.780	524,798
Heavy engineering.....	16,847	14,569	2,119,606	1,886,058	1.121	4,960,222
Reclamation.....	957	814	87,986	113,223	.777	156,215
River, harbor, and flood control.....	346	298	30,139	39,534	.762	64,468
Streets and roads.....	19,805	16,244	1,525,598	2,057,856	.741	2,520,925
Water and sewerage.....	21,315	18,437	2,053,361	2,461,816	.834	3,328,807
Miscellaneous.....	188	146	9,494	11,309	.840	3,421,965

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 Public Roads Administration.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.

UNITED STATES HOUSING AUTHORITY

Table 11 shows data for December 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 11.—*Employment and Pay Rolls on Low-Rent Housing Projects Operated by the United States Housing Authority, December 1939*

[Subject to revision]

Geographic division	Employment		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ¹	Weekly Average				
Nine divisions.....	33, 170	28, 269	\$3, 547, 123	3, 607, 494	\$0. 983	\$6, 821, 787
New England.....	1, 072	776	96, 092	99, 093	. 979	51, 795
Middle Atlantic.....	10, 812	8, 976	1, 388, 165	1, 079, 771	1. 286	2, 062, 001
East North Central.....	3, 539	3, 092	471, 147	406, 108	1. 160	603, 180
West North Central.....	756	677	80, 244	89, 195	. 900	162, 415
South Atlantic.....	7, 748	6, 648	643, 893	853, 110	. 761	1, 992, 037
East South Central.....	5, 357	4, 702	515, 961	635, 854	. 811	1, 195, 981
West South Central.....	3, 156	2, 784	279, 587	362, 943	. 770	618, 831
Pacific.....	455	379	50, 337	48, 520	1. 037	79, 724
Outside Continental U. S.....	275	235	20, 797	32, 900	. 632	55, 823

¹ Maximum employed during any 1 week of the month.

WORK PROJECTS ADMINISTRATION PROGRAM

A record of employment, pay rolls, and man-hours, worked on projects financed and operated by the Work Projects Administration in December is shown in table 12, by type of project.

TABLE 12.—*Employment and Pay Rolls on Projects Financed and on Projects Financed and Operated by the Work Projects Administration, December 1939*

[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 agency projects						
All projects.....	1 98, 109	93, 919	\$4, 744, 815	11, 818, 040	\$0. 401	\$643, 286
Airport construction (exclusive of buildings).....	1, 374	1, 370	78, 804	198, 304	. 397	2, 682
Building construction.....	41, 567	38, 780	2, 041, 218	4, 781, 478	. 427	193, 800
Electrification.....	130	125	5, 648	15, 085	. 374	9, 107
Forestry.....	8, 258	8, 242	410, 274	1, 007, 148	. 407	53, 899
Grade-crossing elimination ²	626	504	32, 755	62, 722	. 522	34, 917
Hydroelectric power plants ³	1, 013	976	42, 112	109, 918	. 248	44, 580
Plant, crop, and livestock conservation.....	7, 240	7, 149	391, 080	881, 173	. 444	53, 115
Professional, technical, and clerical.....	5, 217	5, 118	364, 729	632, 449	. 577	29, 429
Public roads ⁴	517	410	32, 414	49, 339	. 657	10, 875
Reclamation.....	18, 681	18, 404	903, 546	2, 391, 050	. 378	75, 836
River, harbor, and flood control.....	939	834	62, 105	98, 280	. 632	16, 074
Streets and roads.....	3, 412	3, 225	121, 188	410, 168	. 295	43, 683
Water and sewerage.....	607	527	18, 898	68, 335	. 277	12, 030
Miscellaneous.....	8, 528	8, 255	240, 044	1, 052, 591	. 228	63, 250
Projects operated by Work Projects Administration ⁴						
All projects.....	\$ 2, 076, 039	\$107, 855, 673	246, 450, 061	\$0. 438	(⁶)

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

² These data are for projects under the jurisdiction of the Public Roads Administration.

³ These data are for projects under construction in Puerto Rico.

⁴ Data are for the calendar month. Not available by type of project.

⁵ Represents number of names on pay roll as of Dec. 27, 1939.

⁶ Data on a monthly basis are not available.

A record of employment, pay rolls, and man-hours worked on projects operated by the Work Projects Administration in November is shown in table 13, by type of project.

TABLE 13.—*Employment and Pay Rolls on Projects Operated by the Work Projects Administration by Type of Project for Month of November 1939* ¹

[Subject to revision]

Type of project	Number employed ²	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour
All projects.....	1, 939, 586	\$101, 532, 368	229, 450, 073	\$0. 442
Conservation.....	56, 703	3, 014, 488	6, 950, 637	. 434
Highway, road, and street.....	843, 901	40, 220, 777	98, 955, 073	. 406
Professional, technical, and clerical.....	310, 011	18, 917, 016	37, 483, 419	. 505
Public buildings.....	158, 334	9, 109, 284	18, 620, 721	. 489
Publicly owned or operated utilities.....	189, 103	9, 794, 590	21, 516, 737	. 455
Recreational facilities.....	119, 399	6, 609, 813	14, 172, 496	. 473
Sanitation and health.....	32, 693	1, 629, 951	4, 024, 760	. 405
Sewing, canning, and gardening, etc.....	157, 323	7, 109, 052	18, 397, 607	. 386
Transportation.....	23, 185	1, 731, 207	3, 216, 355	. 538
Not elsewhere classified.....	48, 934	3, 306, 190	6, 112, 268	. 541

¹ Revised.

² Data are as of Nov. 29, 1939.

NATIONAL YOUTH ADMINISTRATION

Employment and pay rolls on the National Youth Administration projects for November and December 1939 are shown in table 14.

TABLE 14.—Employment and Pay Rolls on National Youth Administration Projects, November and December 1939

[Subject to revision]

Type of project	Number of employees		Amount of pay rolls	
	December	November	December	November
Total.....	729, 645	684, 303	\$8, 395, 484	\$7, 809, 173
Student Aid.....	434, 350	423, 122	2, 967, 327	2, 958, 862
Work projects.....	295, 295	261, 181	5, 428, 157	4, 850, 311

CIVILIAN CONSERVATION CORPS

Employment and pay rolls in the Civilian Conservation Corps in November and December 1939 are presented in table 15.

TABLE 15.—Employment and Pay Rolls in the Civilian Conservation Corps, November and December 1939 ¹

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	December	November	December	November
All groups.....	308, 569	335, 009	\$13, 775, 996	\$14, 868, 058
Enrolled personnel ²	271, 584	298, 158	8, 442, 646	9, 538, 539
Reserve officers.....	221	285	56, 823	191, 324
Nurses ³	293	298	40, 056	39, 815
Educational advisers ³	1, 591	1, 595	268, 951	266, 108
Supervisory and technical ³	34, 880	34, 763	4, 967, 520	4, 832, 272

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

² December data include 4,672 enrollees and pay roll of \$102,425 outside continental United States; in November the corresponding figures were 4,577 enrollees and pay roll of \$100,209.

³ Included in executive service, table 9.

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 December are presented in table 16, by type of project.

TABLE 16.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, December 1939 ¹

[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, 322	\$250, 882	282, 349	\$0. 889	\$680, 922
Building construction ³	2, 145	224, 079	253, 205	. 885	657, 487
Water and sewerage.....	177	26, 803	29, 144	. 920	23, 435

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 932 employees, pay-roll disbursements of \$93,259, 99,314 man-hours worked, and material orders placed of \$352,686, on projects financed by the RFC Mortgage Co.

CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during December are given in table 17, by type of project.

TABLE 17.—Employment and Pay Rolls on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, December 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 number employed ²	Weekly average				
All projects.....	³ 255, 106	238, 512	\$27, 293, 719	36, 060, 130	\$0. 757	\$51, 394, 837
Building construction.....	21, 532	17, 757	2, 038, 584	2, 159, 033	. 944	3, 004, 606
Electrification:						
Rural Electrification Administration projects ⁴	13, 633	10, 953	767, 606	1, 492, 064	. 515	3, 960, 761
Other than R. E. A. projects.....	198	124	10, 914	15, 604	. 690	2, 810
Forestry.....	7	7	545	1, 263	. 432	38
Heavy engineering.....	89	84	10, 485	8, 568	1. 224	285
Public roads ⁵	(6)	57, 253	5, 914, 929	9, 293, 228	. 636	9, 858, 215
Reclamation.....	24, 978	23, 247	3, 342, 417	3, 714, 300	. 900	7, 010, 913
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	36, 847	32, 740	3, 266, 826	5, 099, 675	. 611	3, 821, 347
Locks and dams.....	10, 071	9, 481	1, 240, 750	1, 607, 195	. 772	1, 804, 907
Ship construction:						
Naval vessels.....	61, 830	60, 554	8, 062, 096	9, 195, 894	. 877	10, 099, 335
Other than naval vessels.....	19, 265	17, 671	1, 993, 447	2, 405, 147	. 829	9, 462, 398
Streets and roads.....	3, 821	3, 342	250, 977	413, 282	. 607	458, 319
Water and sewerage.....	380	315	30, 925	42, 416	. 729	49, 372
Miscellaneous.....	5, 202	4, 981	363, 128	612, 461	. 593	1, 861, 471

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 Public Roads Administration.

⁶ Not available, weekly average included in the 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 December 1939, compared with November 1939 and December 1938, is presented in table 18.

TABLE 18.—Employment and Pay Rolls on Construction and Maintenance of State Roads, December 1939, November 1939, and December 1938 ¹
[Subject to revision]

Item	Number of employees ²			Pay-roll disbursements		
	December 1939	November 1939	December 1938	December 1939	November 1939	December 1938
Total.....	122,882	138,005	184,361	\$9,030,150	\$10,409,450	\$11,438,613
New roads.....	19,066	23,588	21,223	1,246,390	1,632,630	1,398,990
Maintenance.....	103,816	114,417	163,138	7,783,760	8,776,820	10,039,623

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.

PURCHASES FROM PUBLIC FUNDS ¹

The value of material orders placed on construction projects financed by Federal funds in the fourth quarter of 1939 is presented in table 19.

In the fourth quarter of 1939, on the Public Works Administration program, orders were placed for materials valued at approximately \$110,913,000. Of this amount \$36,292,000 was expended for iron and steel products, \$17,698,000 for forest products, \$17,603,000 for machinery, and \$10,525,000 for cement and concrete products.

Previous sections of this report have shown the number of workers employed at the site of construction projects financed from Federal funds. The direct employment, however, is only a partial picture, as the manufacture of the materials used on the projects also creates a large amount of employment.

Estimates have been made of the man-months of labor created in fabricating the materials used on the various programs (see table 3). The estimates include only the labor required in the fabrication of material in the form in which it is to be used. No estimate is made of the labor required in producing the raw materials or in transporting them to the point of manufacture. In manufacturing structural steel, for example, the only labor included is that occurring in the fabricating mills; no estimate is made for the labor created in mining, smelting, and transporting the ore, nor for the labor in blast furnaces, the open-hearth furnaces, and the blooming mills.

The information concerning man-months of labor created in fabricating materials is obtained by sending a questionnaire to each firm receiving an award for materials to be financed from Federal or State

¹ Unless otherwise specified, data presented in this section are as of the 15th of the month.

funds. The manufacturer is requested to make an estimate of the number of man-hours created in his plant in manufacturing the materials specified in the contract. For materials purchased directly by contractors the Bureau estimates the man-months of labor created. This estimate is based upon the findings of the Census of Manufactures, 1937.

TABLE 19.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1939*

[Subject to revision]

Type of material	Public Works Administration ¹	U. S. H. A. low-rent housing	Reconstruction Finance Corporation ²	Regular Federal	Federal agency projects financed from W. P. A. funds ³
All materials.....	\$110,913,497	\$16,891,497	\$1,289,226	\$134,126,867	\$2,108,895
Textiles and their products.....	522,500	42,451	102	135,634	10,325
Awnings, tents, canvas, etc.....	4,363	481	13	11,732	655
Carpets and rugs.....	49,499	—	—	—	—
Cordage and twine.....	14,576	446	50	29,486	1,330
Cotton products.....	3,534	—	—	373	31
Felt products.....	6,297	721	39	847	246
Jute products.....	3,155	1,061	—	1,154	81
Linoleum and asphalted-felt-base floor covering.....	253,522	37,411	—	22,577	4,902
Sacks and bags, other than paper.....	615	—	—	172	110
Upholstering, filling, batting, padding, and wadding.....	1,367	—	—	—	—
Waste and related products.....	666	209	—	2,565	203
Textiles and their products, n. e. c.....	184,906	2,122	—	66,728	2,767
Forest products.....	17,697,575	1,827,747	69,403	6,316,463	227,615
Cork products.....	83,651	468	160	8,126	647
Furniture and related products.....	12,320,284	98,197	3,368	514,525	6,886
Lumber and timber products, n. e. c.....	2,609,080	1,013,341	48,456	4,506,670	186,275
Planing-mill products.....	2,561,972	703,037	17,419	1,178,334	33,647
Window and door screens and weatherstrip.....	120,762	12,670	—	7,792	39
Forest products, n. e. c.....	1,826	34	—	41,016	121
Chemicals and allied products.....	2,759,137	150,299	6,601	1,060,681	77,522
Compressed and liquefied gases.....	40,147	1,215	1,288	28,918	2,190
Explosives.....	451,535	4,641	931	651,002	14,334
Paints, pigments, and varnishes.....	655,510	132,314	4,376	355,109	41,438
Chemicals and allied products, n. e. c.....	1,611,945	12,129	6	25,662	19,560
Stone, clay, and glass products.....	26,356,502	5,220,107	138,369	28,670,975	520,202
Asbestos products, n. e. c.....	48,467	15,370	—	11,103	32
Brick, hollow tile, and other clay products, n. e. c.....	4,422,426	1,414,920	26,942	445,573	21,209
Cement.....	4,709,184	484,062	57,423	11,826,653	205,779
Concrete products.....	5,816,105	2,026,330	17,425	1,131,881	29,645
Crushed stone.....	1,334,374	58,090	579	4,643,769	133,262
Glass.....	577,762	73,991	3,790	143,486	6,884
Lime.....	39,297	49,207	88	2,040	1,882
Marble, granite, slate, and other stone, cut and shaped.....	3,150,871	143,724	1,292	1,324,424	2,521
Minerals and earths, ground or otherwise treated.....	2,528	1,516	—	157	—
Sand and gravel.....	2,803,480	237,339	16,350	8,229,146	55,979
Steam and other packing, pipe and boiler covering, and gaskets.....	399,796	183,555	150	259,982	2,954
Tiling, floor and wall, and terrazzo.....	1,248,001	100,264	627	215,845	46,349
Wall plaster, wallboard, and building insulation.....	1,405,166	380,218	13,500	400,209	10,038
Stone, clay, and glass products, n. e. c.....	399,045	51,521	203	36,707	4,268

¹ Include material orders placed on Public Works Administration projects financed by the Emergency Relief Appropriation Acts of 1935, 1936, and 1937, and P. W. A. A. 1938 funds. Data on low-rent housing projects financed from N. I. R. A. and E. R. A. A. 1935 funds are also included.

² Includes projects financed by RFC Mortgage Co.

³ Includes projects financed by transfer of W. P. A. funds to other Federal agencies under sec. 3, E. R. A. A. 1933, and sec. 11-A, E. R. A. A. 1939.

TABLE 19.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1939—Continued

Type of material	Public Works Administration	U. S. H. A. low-rent housing	Reconstruction Finance Corporation	Regular Federal	Federal agency projects financed from W. P. A. funds
Iron and steel and their products, not including machinery	\$36,291,632	\$5,696,456	\$417,004	\$27,744,540	\$397,140
Bolts, nuts, washers, and rivets	237,000	3,937	1,872	708,444	6,581
Doors, shutters, window sash and frames, molding and trim, metal	1,466,823	814,197	9,738	1,115,734	46,280
Forgings, iron and steel	334,873	—	9,246	1,912,792	6,301
Hardware, miscellaneous	1,500,631	376,072	31,252	756,055	48,363
Heating and ventilating equipment, except pipe	5,220,778	564,712	34,439	1,203,128	17,538
Nails and spikes	103,806	2,664	2,105	77,613	9,151
Pipe and fittings, cast-iron	3,143,699	425,930	14,583	905,531	32,046
Pipe and fittings, wrought-iron and steel	2,689,893	447,999	167,084	2,436,633	25,788
Plumbing fixtures and supplies, except pipe	2,175,551	865,841	49,725	918,919	38,216
Rail fastenings, except spikes	680	—	—	858	—
Rails, steel	21,609	—	—	1,868	—
Springs, steel	601	—	—	103	—
Steel, reinforcing	2,871,947	1,394,834	22,361	2,693,782	49,453
Steel, structural	13,653,830	538,561	40,100	10,676,734	68,661
Stoves and ranges, other than electric	79,115	63,040	—	59	212
Tools, other than machine tools	254,136	12,563	4,294	285,346	15,357
Wire and wireworks products	403,421	24,203	6,024	1,090,387	15,615
Iron and steel and their products, n. e. c.	2,133,239	161,903	24,181	2,960,554	17,578
Nonferrous metals and their products	1,855,997	545,837	12,656	869,063	16,383
Aluminum products	80,848	2,575	—	85,496	—
Copper products	324,678	548	2,232	368,156	6,720
Lead products	30,947	8,760	254	7,950	235
Sheet-metal products	1,345,845	191,102	10,170	317,452	8,621
Zinc products	—	—	—	885	—
Nonferrous metals and their products, n. e. c.	73,679	342,852	—	89,124	807
Machinery, not including transportation equipment	17,602,596	1,383,211	614,358	57,199,530	208,224
Electrical machinery, apparatus, and supplies	4,666,270	113,630	77,554	12,953,236	33,528
Electrical wiring and fixtures	4,812,015	703,837	65,920	6,788,453	35,081
Elevators and elevator equipment	1,340,776	99,561	297,653	823,035	54
Engines, turbines, tractors, and water wheels	715,586	178	—	15,821,565	10,363
Machine tools	505,313	327	71,985	940,059	1,521
Meters (gas, water, etc.) and gas generators	75,518	893	—	10,113	—
Pumps and pumping equipment	783,532	42,372	22,137	1,988,269	7,959
Radio apparatus and supplies	35,452	—	—	459,849	72
Refrigerators and refrigerating and ice-making apparatus	138,172	304,452	—	38,862	30,490
Machinery, n. e. c.	4,529,962	117,961	79,109	17,376,089	89,156
Transportation equipment—air, land, and water	212,484	—	—	282,843	32,376
Aircraft	—	—	—	32,649	—
Boats, steel and wooden	5,114	—	—	13,169	263
Carriages and wagons	2,214	—	—	326	35
Motor vehicles, passenger	21,256	—	—	107,642	440
Motor vehicles, trucks	141,172	—	—	44,963	14,669
Transportation equipment, n. e. c.	42,728	—	—	84,094	16,969
Miscellaneous	7,615,074	2,025,389	30,733	11,847,138	610,108
Belting, miscellaneous	3	—	—	45,603	5
Coal and coke	131,250	2,601	2	418,282	15,372
Crosote	248	—	—	500	105
Instruments, professional and scientific	126,879	35	122	70,153	293
Mattresses and bed springs	75,832	—	—	—	—
Models and patterns	534	—	—	18,169	—
Paper products	12,535	13,231	—	27,858	1,608
Paving materials: asphalt, tar, crushed slag, and mixtures	1,231,869	2,218	557	1,566,359	33,651
Petroleum products	1,668,474	102,781	8,722	4,632,295	92,571
Photographic apparatus and supplies	168,275	103	24	22,875	1,485
Roofing: built-up and roll, asphalt shingles and roof coatings, except paint	590,668	165,078	7,518	97,613	23,534
Rubber products	198,938	1,265	64	127,627	2,905
Theatrical scenery and stage equipment	109,650	—	—	—	—
Window shades and fixtures	67,119	13,826	—	746	106
Other materials	3,232,809	1,724,251	13,724	4,819,658	447,473

TABLE 20.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Third Quarter of 1939

[Subject to revision]

Type of material	Total	Projects					
		Public Works Administration ¹	U. S. H. A. low-rent housing	Reconstruction Finance Corporation ²	Regular Federal	Federal agency projects financed from W. P. A. funds ³	Operated by W. P. A. ⁴
All materials.....	\$356,099,956	\$125,182,980	\$10,377,907	\$1,333,694	\$136,010,243	\$2,153,037	\$81,042,086
Textiles and their products.....	5,782,271	316,087	43,452	317	117,253	9,378	5,295,784
Forest products.....	27,616,780	13,440,880	1,002,701	75,005	5,549,927	223,576	7,324,091
Furniture and related products.....	5,820,042	5,258,704	43,120	5,123	376,422	5,983	130,690
Lumber and timber products.....	16,347,325	4,294,502	634,010	58,148	4,007,153	159,511	7,194,001
Forest products, n. e. c.....	5,449,413	3,887,674	325,571	11,734	1,166,352	58,082	-----
Chemicals and allied products.....	4,860,673	1,206,640	58,172	5,324	990,723	73,403	2,526,411
Paints, pigments, and varnishes.....	2,290,878	778,768	54,996	2,831	245,651	49,251	1,159,381
Other chemicals.....	2,569,795	427,872	3,176	2,493	745,072	24,152	1,367,030
Stone, clay, and glass products.....	103,556,670	37,240,599	3,012,557	199,255	33,043,431	564,004	29,496,824
Brick, hollow tile, and other clay products.....	11,207,592	6,735,506	851,916	21,222	429,478	31,401	3,138,069
Cement.....	31,453,084	7,241,426	427,133	109,681	15,493,303	213,465	7,968,076
Concrete products.....	13,809,956	7,550,828	943,691	19,207	852,921	60,087	4,383,222
Crushed stone.....	13,394,478	1,752,251	44,581	2,290	5,785,747	122,662	5,686,947
Sand and gravel.....	19,582,579	4,193,678	171,012	25,969	9,233,424	93,036	5,865,430
Other stone, clay, and glass products.....	14,108,981	9,766,910	574,224	20,856	1,248,558	43,353	2,455,080
Iron and steel and their products, not including machinery.....	83,936,860	40,326,350	3,403,263	555,901	24,834,460	460,145	14,347,732
Heating and ventilating equipment.....	8,264,014	6,567,183	344,263	41,755	852,667	10,430	447,716
Pipe and fittings, cast-iron.....	6,630,286	2,826,351	214,602	6,007	500,997	25,152	3,057,177
Plumbing supplies, n. e. c.....	4,917,605	2,899,936	378,781	15,023	422,161	39,000	1,162,794
Structural and reinforcing steel.....	34,727,203	16,750,108	1,273,303	339,216	13,270,985	152,571	2,941,020
Tools, other than machine tools.....	1,423,305	308,732	8,828	3,825	238,214	15,674	848,032
Other products of iron and steel.....	27,974,357	10,974,049	1,183,486	150,075	9,549,436	226,318	5,890,993

¹ Includes material orders placed on Public Works Administration projects financed by the Emergency Relief Appropriation Acts of 1935, 1936, and 1937, and P. W. A. A. 1938 funds. Data on low-rent housing projects financed from N. I. R. A. and E. R. A. A. 1935 funds are also included.

² Includes projects financed by RFC Mortgage Co.

³ Includes projects financed by transfer of W. P. A. funds to other Federal agencies under sec. 3, E. R. A. A. 1938, and sec. 11-A, E. R. A. A. 1939.

⁴ Does not include National Youth Administration projects.

TABLE 20.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Third Quarter of 1939—Continued*

Type of material	Total	Projects					
		Public Works Adminis- tration	U. S. H. A. low-rent housing	Reconstruc- tion Finance Corporation	Regular Federal	Federal agency projects financed from W.P.A. funds	Operated by W. P. A.
Nonferrous metals and their products.....	\$3,927,971	\$2,332,381	\$251,765	\$8,787	\$866,030	\$24,145	\$444,863
Machinery, not including transportation equipment.....	85,231,031	21,510,818	1,058,002	359,906	57,599,557	219,709	4,483,039
Electrical machinery, apparatus, and supplies.....	20,910,376	5,075,964	65,905	20,476	13,797,405	33,679	1,911,947
Engines, turbines, tractors, and water wheels.....	18,655,848	3,555,118	-----	2,667	15,063,718	13,204	21,141
Other machinery.....	45,664,807	12,879,736	992,097	336,763	28,738,434	167,826	2,549,951
Transportation equipment—air, land, and water.....	1,702,078	277,597	723	72,460	896,229	53,379	401,690
Motor vehicles, trucks.....	921,043	228,934	-----	-----	268,178	22,241	401,690
Other transportation equipment.....	781,035	48,663	723	72,460	628,051	31,138	-----
Miscellaneous.....	39,485,622	8,531,628	1,547,272	56,739	12,112,633	516,293	10,721,052
Coal and coke.....	530,804	131,755	1,397	1,390	297,444	1,489	97,329
Paving materials and mixtures.....	12,439,909	1,921,630	4,334	2,792	1,950,510	52,184	8,508,459
Petroleum products.....	9,764,151	2,118,822	57,351	7,734	5,199,961	87,405	2,292,378
Rubber goods.....	529,341	187,080	713	1,429	121,371	5,375	213,373
Other materials.....	16,221,417	4,172,341	1,483,477	43,394	4,543,347	369,845	5,609,013

Table 20 shows the value of material orders placed on construction projects financed by Federal funds during the third quarter of 1939, by type of project.

Table 21 shows the estimated value of materials, supplies, and equipment purchased for National Youth Administration work projects during the last half of 1939.

TABLE 21.—*Estimated Value of Materials, Supplies, and Equipment Purchased for National Youth Administration Work Projects July Through December, 1939*

[Subject to revision]

Type of material	Value	Type of material	Value
All materials.....	\$2, 107, 109	Iron and steel and their products, not including machinery—Continued.	
Textiles and their products.....	150, 000	Pipe and fittings, cast-iron.....	\$15, 600
Forest products.....	249, 060	Plumbing supplies, n. e. c.....	26, 600
Furniture and related products.....	8, 660	Structural and reinforcing steel.....	21, 000
Lumber and timber products, n. e. c.....	240, 400	Tools, other than machine tools.....	211, 300
Chemicals and allied products.....	71, 900	Other products of iron and steel.....	129, 900
Paints, pigments, and varnishes.....	38, 600	Nonferrous metals and their products.....	22, 200
Other chemicals.....	33, 300	Machinery, not including transportation equipment.....	501, 185
Stone, clay, and glass products.....	160, 900	Electrical machinery, apparatus, and supplies.....	96, 600
Brick, hollow tile, and other clay products.....	17, 600	Engines, turbines, tractors, etc.....	7, 185
Cement.....	85, 100	Other machinery.....	397, 400
Concrete products.....	3, 900	Transportation equipment, motor-trucks.....	136, 515
Crushed stone.....	2, 100	Miscellaneous.....	384, 540
Sand and gravel.....	8, 500	Coal and coke.....	23, 900
Other stone, clay, and glass products.....	43, 700	Paving materials and mixtures.....	24, 300
Iron and steel and their products, not including machinery.....	430, 800	Petroleum products.....	69, 400
Heating and ventilating equipment.....	26, 400	Rubber goods.....	19, 900
		Other materials.....	247, 040

Rentals and services on projects operated by the Work Projects Administration for the third quarter of 1939, the second quarter of 1939, and the third quarter of 1938 are shown in table 22, by type of rental and service.

TABLE 22.—*Rentals and Services on Projects Operated by Work Projects Administration*

[Subject to revision]

Type of rental and service	Third quarter of 1939 ¹	Second quarter of 1939 ²	Third quarter of 1938 ³
All rentals and services.....	\$58, 344, 111	\$62, 487, 081	\$57, 609, 296
Motor vehicles.....	23, 608, 607	27, 796, 725	27, 685, 823
Teams and wagons.....	472, 824	572, 082	826, 577
Paving, road building, and construction equipment.....	20, 667, 329	19, 396, 612	19, 681, 253
Other equipment (including office equipment).....	1, 581, 404	1, 604, 535	1, 337, 084
Space rentals and services.....	4, 821, 596	5, 573, 346	3, 800, 856
Other services (including utilities).....	7, 192, 351	7, 542, 881	4, 276, 798

¹ Quarterly period ending September 30, 1939.

² Quarterly period ending June 30, 1939. Revised.

³ Quarterly period ending September 30, 1938. Revised.

Table 23 shows rentals and services on work projects of the National Youth Administration for the second half of 1939.

TABLE 23.—*Estimated Value of Rentals and Services Supplied to National Youth Administration Work Projects, July Through December 1939*

[Subject to revision]

Type of rental or service	Value	Type of rental or service	Value
Total.....	\$618, 100	Other equipment, including office equipment.....	\$19, 800
Motor vehicles.....	139, 500	Space rentals and services.....	81, 000
Teams and wagons.....	300	Other services, including utilities.....	367, 100
Paving, road building, and other construction equipment.....	10, 400		

In connection with the administration of the Public Contracts Act the Bureau of Labor Statistics has been collecting data on supply contracts awarded by Federal agencies of the United States for the manufacture or furnishing of materials, supplies, articles, and equipment in any amount exceeding \$10,000. The first public contracts were awarded under the act in September 1936.

Table 24 shows the value of public contracts awarded under the act for supplies during the fourth quarter of 1939, the third quarter of 1939, and the fourth quarter of 1938.

TABLE 24.—*Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material*

[Subject to revision]

Type of materials	Value of contracts awarded		
	Fourth quarter of 1939	Third quarter of 1939 ¹	Fourth quarter of 1938 ¹
All materials.....	\$105, 646, 359	\$173, 907, 899	\$239, 694, 173
Food and kindred products.....	2, 670, 177	2, 375, 334	2, 118, 058
Canned fruits and vegetables.....	884, 219	951, 968	379, 518
Canned sea foods.....	66, 086	59, 521	68, 378
Cereal preparations.....			10, 373
Coffee and tea.....	421, 755	143, 615	243, 278
Condensed and evaporated milk.....	266, 989	118, 971	37, 083
Feeds, prepared, for animals and fowls.....	155, 458	211, 424	125, 602
Flour and other grain-mill products.....	124, 399	102, 494	139, 799
Meat-packing products.....	146, 395	170, 792	392, 238
Shortening and vegetable cooking oil.....			123, 851
Sugar.....	315, 784	231, 719	283, 411
Miscellaneous subsistence stores and supplies.....	288, 492	384, 830	314, 527
Textiles and their products.....	14, 593, 241	8, 684, 124	4, 750, 819
Awnings, tents, sails, and canvas covers.....	509, 848	216, 074	12, 330
Clothing (overcoats, suits, trousers, etc.).....	1, 507, 801	214, 155	45, 591
Clothing, manufacture only ²			85, 220
Cordage and twine, including thread.....	170, 542	147, 994	37, 360
Cotton goods (drills, prints, sheeting, etc.).....	3, 187, 638	3, 664, 375	1, 747, 143
Cotton shirts.....		18, 403	
Furnishing goods, men's, n. o. e.....	1, 293, 180	1, 435, 269	76, 110
Housefurnishing goods (pillowcases, sheets, etc.).....	504, 035	727, 227	128, 428
Knit goods (hosiery, underwear, etc.).....	402, 158	363, 689	60, 778
Linoleum.....	72, 934		75, 258
Woolen goods (flannels, suiting, etc.).....	4, 644, 332	665, 022	1, 990, 727
Work clothing.....	472, 277	509, 673	165, 076
Miscellaneous textile products.....	1, 828, 490	722, 243	326, 798

¹ Revised.

² Labor only. Materials furnished by United States Government.

TABLE 24.—*Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Con.*

Type of materials	Value of contracts awarded		
	Fourth quarter of 1939	Third quarter of 1939	Fourth quarter of 1938
Forest products	\$1,464,028	\$2,255,242	\$652,526
Cork and cork products	11,855	12,450	—
Furniture	306,050	506,000	283,303
Lumber and timber products, n. e. c	671,843	631,891	203,517
Planing-mill products	365,130	939,435	89,854
Treated lumber and timber	—	105,459	75,852
Miscellaneous forest products	109,150	—	—
Chemicals and allied products	4,014,889	5,886,117	3,688,473
Ammunition and related products	1,405,073	3,561,738	182,771
Drugs and medicines	116,946	118,024	—
Explosives	769,822	584,673	1,186,090
Linsced oil	—	80,196	51,423
Paints and varnishes	154,862	317,188	54,823
Soap and soap chips	147,189	79,516	65,307
Miscellaneous chemicals	1,420,997	1,144,782	2,148,059
Products of asphalt, coal, and petroleum	7,819,401	6,406,734	8,778,068
Asphalt, oil, tar, and mixtures	450,598	318,023	477,288
Coal and coke	599,665	1,480,366	314,306
Fuel oil	3,375,207	1,619,066	1,996,163
Gasoline	3,134,892	2,659,200	5,774,936
Lubricating oils and greases	161,726	86,832	102,122
Miscellaneous coal and petroleum products	97,313	243,247	113,193
Leather and its manufactures	2,508,795	1,098,540	1,085,849
Boots and shoes	1,858,965	1,201,687	989,931
Gloves	438,123	—	—
Shoe-upper leather	—	294,025	—
Miscellaneous leather goods	211,707	112,828	95,918
Stone, clay, and glass products	1,506,679	3,273,901	3,285,532
Brick	12,241	96,773	376,703
Cement	697,221	1,361,417	1,255,658
Concrete pipe	—	204,867	354,731
Concrete, ready mixed	103,373	518,842	244,628
Crushed stone	10,700	125,958	110,685
Glass	132,768	14,995	19,600
Granite and marble	—	116,426	45,377
Riprap stone	107,100	228,531	84,035
Sand and gravel	103,412	290,972	397,289
Soil, black earth	—	51,666	71,701
Terra cotta	—	—	11,490
Tile, clay, including drain	23,940	—	30,721
Vitrified clay and terra-cotta pipe	24,841	12,748	40,423
Miscellaneous stone, clay, and glass products	291,083	250,706	242,491
Iron and steel and their products, not including machinery	8,862,939	33,751,921	5,751,978
Bolts, nuts, rivets, washers, etc.	40,619	69,231	93,114
Cast-iron pipe and fittings	200,836	315,889	74,447
Fencing materials	—	47,893	—
Forgings, iron and steel	194,801	3,378,605	1,243,039
Hardware, miscellaneous	12,143	10,650	—
Metal doors, sash, and frames	86,864	—	31,839
Metal furniture	654,725	892,947	127,939
Metal shingles and roofing	—	40,450	19,178
Pipe and fittings, n. e. c	—	—	157,064
Plumbing fixtures and supplies	12,115	24,271	—
Rails, steel	375,062	48,537	14,614
Railway tie plates	88,572	—	15,990
Reinforcing steel	923,831	176,291	244,853
Steel pipe and fittings	314,463	334,451	106,308
Steel sheets, plates, shapes, and strips	947,559	7,231,066	1,317,984
Stoves and ranges, other than electric	95,398	127,058	43,031
Structural steel, fabricated, and sheet-steel piling	480,013	7,692,230	1,052,575
Tools, other than machine tools	324,424	147,126	24,430
Wire products	791,528	259,190	151,577
Miscellaneous iron and steel products	3,319,656	12,956,027	1,033,996

TABLE 24.—*Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Con.*

Type of materials	Value of contracts awarded		
	Fourth quarter of 1939	Third quarter of 1939	Fourth quarter of 1938
Nonferrous metals and their alloys.....	\$3, 148, 758	\$4, 433, 937	\$2, 989, 930
Aluminum manufactures.....	305, 359	540, 470	251, 356
Brass products.....	612, 579	1, 316, 384	351, 559
Bronze products.....	310, 273	449, 874	39, 250
Copper products.....	315, 497	346, 045	-----
Fixtures, gas and electric.....	619, 163	64, 275	1, 799, 703
Lead products.....	123, 159	140, 345	23, 276
Magnesium.....	30, 207	-----	15, 385
Nickel.....	331, 080	192, 928	131, 200
Plated ware.....	67, 305	-----	35, 911
Sheet-metal work.....	28, 150	-----	43, 122
Tin.....	43, 822	16, 597	92, 877
Zinc.....	-----	33, 000	11, 350
Miscellaneous nonferrous metals and alloys.....	362, 164	1, 334, 019	194, 941
Machinery, not including transportation equipment and electrical equipment.....	7, 160, 861	11, 751, 680	11, 675, 918
Air-conditioning equipment.....	168, 766	62, 852	64, 141
Business machines.....	75, 396	104, 703	19, 778
Elevators and elevator equipment.....	-----	44, 381	-----
Engines, turbines, tractors, and parts.....	1, 219, 920	2, 164, 810	3, 270, 450
Filter and purification equipment.....	-----	91, 312	41, 720
Laundry machinery and equipment.....	21, 450	78, 591	117, 825
Machine tools.....	3, 199, 392	3, 289, 972	1, 448, 328
Phonographs and accessories.....	-----	-----	17, 000
Power shovels and draglines.....	241, 460	90, 339	102, 840
Printing and publishing machinery.....	29, 193	567, 072	122, 390
Pumps and pumping equipment.....	472, 872	1, 366, 357	1, 118, 882
Refrigerators and refrigerating and ice-making machinery.....	36, 586	235, 562	62, 684
Road machinery.....	18, 501	54, 151	103, 121
Windlasses, winches, and capstans.....	79, 493	202, 346	25, 450
Miscellaneous machinery and parts.....	1, 597, 832	3, 399, 232	5, 161, 309
Electrical machinery, apparatus, and supplies.....	6, 096, 307	11, 066, 960	4, 174, 228
Batteries.....	11, 709	58, 747	104, 140
Circuit breakers and switches.....	235, 558	1, 255, 834	424, 268
Electric cable, wire, and other conductors.....	1, 625, 441	1, 297, 083	181, 596
Generators and spare parts.....	282, 753	1, 463, 257	1, 040, 969
Heaters and ranges.....	165, 716	52, 337	33, 000
Motors.....	87, 879	12, 586	53, 558
Radio equipment and supplies.....	1, 699, 750	5, 288, 856	794, 584
Spark plugs.....	117, 449	37, 250	145, 954
Starters.....	19, 778	-----	-----
Switchboards, relay and control equipment.....	61, 031	249, 906	327, 167
Telephone and telegraph apparatus.....	619, 915	314, 568	109, 608
Transformers.....	572, 281	316, 061	408, 893
Welding equipment.....	35, 366	26, 840	28, 290
Miscellaneous electrical machinery, apparatus, and supplies.....	591, 686	692, 735	528, 401
Transportation equipment.....	41, 793, 522	77, 301, 145	183, 325, 955
Aircraft.....	16, 062, 757	66, 982, 735	3, 258, 576
Aircraft parts and equipment.....	2, 594, 451	3, 817, 618	3, 280, 005
Boats and boat equipment.....	475, 465	141, 148	-----
Motor vehicles, passenger.....	387, 057	1, 717, 792	82, 261
Motor vehicles, trucks.....	13, 205, 224	1, 465, 985	1, 228, 074
Naval vessels.....	1, 122, 400	3, 002, 489	175, 345, 000
Miscellaneous transportation equipment.....	7, 946, 168	173, 378	132, 039
Miscellaneous.....	4, 006, 762	5, 022, 264	7, 416, 839
Brooms, brushes, bristles, etc.....	132, 487	18, 455	57, 162
Dental goods and equipment.....	198, 622	-----	34, 176
Instruments, professional and scientific.....	1, 515, 045	2, 496, 135	572, 244
Office equipment and supplies, n. e. c.....	78, 430	109, 400	927, 257
Paper and allied products.....	124, 299	685, 213	3, 009, 302
Photographic apparatus and materials.....	265, 151	259, 544	133, 870
Printing, publishing, and subscriptions.....	25, 190	105, 740	20, 815
Rubber products.....	427, 156	157, 897	245, 947
Slag.....	69, 370	45, 450	178, 301
Steam and other packing, pipe and boiler covering.....	141, 324	19, 089	7, 815
Surgical and orthopedic supplies and appliances.....	231, 950	210, 911	195, 868
Tobacco manufactures.....	12, 563	16, 375	187, 766
Other materials.....	540, 470	723, 762	1, 550, 511
Rentals, services, etc. (equipment rental, repairs, aerial surveys, etc.).....	244, 705	174, 233	295, 805

The value of public contracts awarded for supplies by Federal agencies totaled \$105,646,000 during the fourth quarter of 1939. Of the contracts awarded in the fourth quarter of 1939 \$41,794,000 was for transportation equipment; \$14,593,000 for textiles and their products; \$8,863,000 for iron and steel and their products; and \$7,819,000 for products of asphalt, coal and petroleum.

