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EMPLOYMENT AND PAY ROLLS

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CONTENTS

Summary of employment reports for March 1939:	Page
Total nonagricultural employment.....	1
Industrial and business employment.....	1
Public employment.....	4
Detailed tables for March 1939:	
Industrial and business employment.....	7
Public employment.....	23

Tables

SUMMARY

TABLE 1.—All manufacturing industries combined and nonmanufacturing industries—employment, pay rolls, and weekly earnings, March 1939.....	4
TABLE 2.—Federal employment and pay rolls—summary, March 1939..	6
TABLE 3.—Value of material orders placed on projects financed wholly or partially from Federal funds and number of man-months of labor created in final fabrication of materials purchased, first quarter of 1939, fourth quarter of 1938, and first quarter of 1938.....	7

INDUSTRIAL AND BUSINESS EMPLOYMENT

TABLE 4.—Manufacturing and nonmanufacturing industries—employment, pay rolls, hours, and earnings, March 1939.....	9
TABLE 5.—Manufacturing and nonmanufacturing industries—employment, pay rolls, hours, and earnings, January through March 1939.....	14
TABLE 6.—Manufacturing and nonmanufacturing industries—indexes of employment and pay rolls, March 1938 through March 1939.....	20
TABLE 7.—Geographic divisions and States—comparison of employment and pay rolls in identical establishments in February and March 1939.....	21
TABLE 8.—Principal metropolitan areas—comparison of employment and pay rolls in identical establishments in February and March 1939.....	23

PUBLIC EMPLOYMENT

TABLE 9.—Executive service of the Federal Government—employment and pay rolls in February and March 1939.....	24
TABLE 10.—Insolvent National Bank Division of the Treasury Department, Federal Reserve Banks, and Government or Government-owned corporations—employment and pay rolls.....	25
TABLE 11.—Construction projects financed by Public Works Administration funds—employment, pay rolls, and man-hours worked, March 1939, by type of project.....	25

(iii)

IV

PUBLIC EMPLOYMENT—Continued

	Page
TABLE 12.—Housing projects of the U. S. Housing Authority—employment, pay rolls, and man-hours worked, March 1939, by geographic divisions.....	29
TABLE 13.—Projects financed by The Works Program—employment, pay rolls, and man-hours worked, March 1939, by type of project.....	30
TABLE 14.—National Youth Administration work projects and Student Aid financed by The Works Program—employment, pay rolls, and man-hours worked from the beginning of the program.....	31
TABLE 15.—Civilian Conservation Corps—employment and pay rolls, February and March 1939.....	32
TABLE 16.—Construction projects financed by the Reconstruction Finance Corporation—employment, pay rolls, and man-hours worked, March 1939, by type of project.....	32
TABLE 17.—Construction projects financed from regular Federal appropriations—employment, pay rolls, and man-hours worked, March 1939, by type of project.....	33
TABLE 18.—Construction and maintenance of State roads—employment and pay-roll disbursements, March 1939, February 1939, and March 1938.....	33

PURCHASES FROM PUBLIC FUNDS

TABLE 19.—Value of material orders placed on construction projects financed by Federal funds, first quarter of 1939, by type of project.....	35
TABLE 20.—Value of material orders placed on construction projects financed by Federal funds, fourth quarter of 1938, by type of project.....	37
TABLE 21.—Value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, first quarter of 1939, fourth quarter of 1938, and first quarter of 1938.....	38
TABLE 22.—Rentals and services on projects operated by the Works Progress Administration, fourth quarter of 1938, and third quarter of 1938, and fourth quarter of 1937.....	38
TABLE 23.—Rentals and services on work projects of the National Youth Administration, fourth quarter of 1938, third quarter of 1938, and fourth quarter of 1937.....	38
TABLE 24.—Value of public contracts awarded for materials, first quarter of 1939, fourth quarter of 1938, and first quarter of 1938....	39

Employment and Pay Rolls

SUMMARY OF REPORTS FOR MARCH 1939

Total Nonagricultural Employment

THERE was a further rise in nonagricultural employment in March, seasonal expansion in manufacturing and retail trade having accounted largely for the increase of approximately 200,000 workers since February. This gain was slightly smaller than the usual seasonal increase for this month. Compared with March of last year, there was a gain of 360,000 workers.

These figures do not include emergency employment which decreased approximately 68,000 in March, as follows: 39,000 on projects operated by the Works Progress Administration, 22,000 in the Civilian Conservation Corps, and 7,000 on work projects of the National Youth Administration.

Industrial and Business Employment

Gains in employment were shown by 64 of the 87 manufacturing and 10 of the 16 nonmanufacturing industries surveyed monthly by the Bureau of Labor Statistics. Pay-roll increases were shown by 61 manufacturing and 11 nonmanufacturing industries.

The increase of 0.8 percent or 51,000 wage earners in manufacturing industries was accompanied by a rise of 1.6 percent, or nearly \$2,800,000 in weekly pay rolls. These gains were somewhat smaller than the usual average increases of 1.0 percent in employment and 1.8 percent in pay rolls for March. The March gains raised the Bureau's indexes of factory employment and pay rolls to the highest levels recorded since the latter months of 1937. The March 1939 employment index (91.4 percent of the 1923-25 average) was 4.2 percent above the level of March of last year and the factory pay-roll index (86.9 percent of the 1923-25 average) was 12.7 percent higher. Employment in the durable-goods group of industries increased 1.1 percent and pay rolls rose 2.0 percent, while in the nondurable-goods group of industries employment increased 0.5 percent and pay rolls 1.4 percent. The durable-goods employment index in March 1939 (83.5 percent of the 1923-25 average) stood at the highest level since December 1937, while the nondurable-goods employment index

(98.9) was somewhat lower than in the late summer and autumn of last year.

Among the manufacturing industries in which substantial gains in number of workers were shown were women's clothing (7,100), fertilizers (6,300), canning and preserving (5,500), knit goods (4,400), electrical machinery (3,600), men's clothing (3,300), shoes (2,800), foundries and machine shops (2,800), marble-slate-granite (2,800), and steel (2,400). Industries in which the increases ranged from 1,500 to 2,000 workers were cement, stamped and enameled ware, millinery, stoves, brick, and agricultural implements. In the aircraft industry, employment in March stood at an all-time high (nearly 85 percent more workers being employed now than in 1929). Other industries in which the March employment indexes reached the highest levels since the latter months of 1937 were shipbuilding, engines-turbines, water wheels, stamped and enameled ware, textile machinery, pottery, knit goods, boots and shoes, and shirts and collars. Employment in the steel industry was at the highest level since December 1937, and electrical machinery plants and foundries reported the largest number of workers since March of last year. In the machine-tool industry, employment rose for the 7th consecutive month. The principal factory employment declines over the month interval were in the following industries: Woolen and worsted goods (10,900), cigars and cigarettes (3,800), meat packing (2,700), automobiles (2,400), book and job printing (1,300), and radios and phonographs (1,000).

The usual spring pick-up in retail trade resulted in an employment increase between February and March of 2.8 percent or 82,000 workers. This gain, slightly greater than the average March increase for the last 10 years, raised the March 1939 employment index to 83.8 percent of the 1929 average and 1.0 percent above the level of a year ago. Employment gains were reported in all retail lines with the exception of jewelry and wood-coal-ice. The general merchandising group showed a gain of 4.9 percent and apparel stores increased their employment by 10.4 percent. Among the other important lines of retail trade in which employment gains were shown over the month interval were: Food, automobiles, lumber and building material, furniture, hardware, drugs, and farmers' supplies.

Employment in wholesale trade establishments declined by 0.6 percent between February and March, the loss resulting largely from seasonal recessions among dealers in farm products (30.9 percent), agents and brokers (6.3 percent), and assemblers and country buyers (4.4 percent). Among the more important wholesale groups showing employment gains were: Food products; groceries; dry goods and apparel; and machinery, equipment, and supplies.

The decline of 0.9 percent, or 700 wage earners, in anthracite mining between mid-February and mid-March was insignificant when compared with the average March decline of 7.8 percent for the last 10 years. The accompanying pay-roll loss of 24.2 percent reflected decreased production in March. Bituminous coal mines curtailed employment 1.4 percent, or 5,000 workers, and pay rolls 4.3 percent. Employment in metal mines increased 0.1 percent, and oil wells showed an employment decline of 0.4 percent. In quarries there was a seasonal gain of 5.9 percent, or 2,100 workers. Employment in public utilities and laundries showed a meager gain during the month. Dyeing and cleaning plants took on 2,000 workers in response to the usual spring expansion in this industry, and hotels increased their forces slightly. Brokerage firms reduced their personnel by 1.2 percent, while insurance companies showed a gain of 0.2 percent.

Employment in private building construction expanded 6.4 percent between February and March, according to reports received from 14,425 contractors employing 107,643 workers in March. Corresponding pay rolls rose 13.4 percent. Since 1932, only 2 years—1934 and 1936—have shown a larger employment gain in March than was registered this year. The Middle Atlantic and Mountain States showed the most pronounced employment gains, 12.0 and 18.2 percent, respectively. Substantial increases were also shown in the East and West North Central, South Atlantic, East and West South Central, and Pacific States. The only decline in employment was reported in New England. The reports on which these figures are based do not cover construction projects financed by the Works Progress Administration, the Public Works Administration, and the Reconstruction Finance Corporation, or by regular appropriations of the Federal, State, or local governments.

A preliminary report of the Interstate Commerce Commission showed a gain since February of 0.6 percent or 6,179 persons in the number employed by class I railroads. The total number reported for March was 947,862. Corresponding pay-roll figures were not available when this report was prepared. For February they were \$140,178,409 as against \$148,350,333 for January, a loss of 5.5 percent.

Hours and earnings.—The average hours worked per week by wage earners in manufacturing industries were 37.1 in March, an increase of 0.7 percent since February. The average hourly earnings of these workers were 65.1 cents, an increase of 0.2 percent as compared with the preceding month. Average weekly earnings rose 0.8 percent to \$24.23.

Of the 14 nonmanufacturing industries for which man-hour data are available, 10 showed increases in average hours worked per week, and 8 showed gains in average hourly earnings. Eleven of the

sixteen nonmanufacturing industries surveyed reported higher average weekly earnings.

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

Industry	Employment			Pay roll			Average weekly earnings		
	Index March 1939	Percentage change from—		Index March 1939	Percentage change from—		Average in March 1939	Percentage change from—	
		Feb- ruary 1939	March 1938		Feb- ruary 1939	March 1938		Feb- ruary 1939	March 1938
All manufacturing industries combined ¹	(1929-35 =100) 91.4	+0.8	+4.2	(1929-35 =100) 86.9	+1.6	+12.7	\$24.23	+0.8	+8.2
Class I steam railroads ²	53.1	+6	+2.2	(³)	(³)	(³)	(³)	(³)	(³)
Coal mining:	(1929= 100)			(1929= 100)					
Anthracite ⁴	51.7	-9	-12.7	34.2	-24.2	-27.6	21.55	-23.5	-17.1
Bituminous ⁴	87.4	-1.4	-6.2	77.8	-4.3	+13.6	23.49	-2.9	+21.2
Metalliferous mining.....	61.0	+1	-2.2	53.6	+5	-4.8	27.66	+4	-2.7
Quarrying and nonmetallic mining.....	40.1	+5.9	+3.2	33.1	+11.7	+9.7	20.80	+5.4	+6.3
Crude-petroleum producing.....	66.1	-4	-10.1	61.5	-1.8	-9.4	33.47	-1.4	+8
Public utilities:									
Telephone and telegraph.....	73.5	+2	-1.9	92.2	+5	-4	\$ 30.88	+3	+1.5
Electric light and power and manufactured gas.....	89.6	(⁵)	-2.6	96.8	+4	-1.9	\$ 33.82	+4	+8
Electric-railroad and motor- bus operation and main- tenance.....	69.5	+3	-1.8	70.5	+9	+9	\$ 33.12	+6	+2.7
Trade:									
Wholesale.....	87.3	-6	-2.0	74.8	+3	+2	\$ 29.48	+1.0	+2.3
Retail.....	83.8	+2.8	+1.0	69.6	+1.8	+1.5	\$ 21.28	-9	+5
General merchandis- ing.....	93.2	+4.9	+3.0	83.4	+3.0	+1.4	\$ 17.84	-1.8	-1.5
Other than general merchandising.....	81.3	+2.1	+4	66.8	+1.5	+1.5	\$ 24.18	-7	+1.1
Hotels (year-round) ⁴	92.7	+1	-7	81.1	-2.1	+2	\$ 15.09	-2.2	+9
Laundries ⁴	92.9	+2	-2.0	79.3	+9	+1.0	17.54	+7	+3.0
Dyeing and cleaning ⁴	95.4	+3.5	-3.1	67.7	+7.1	-8	19.48	+3.4	+2.4
Brokerage.....	(⁵)	-1.2	-4.9	(⁵)	-1.1	-5.7	\$ 36.05	+1	-8
Insurance.....	(⁵)	+2	+9	(⁵)	+1.0	+1.2	\$ 36.32	+9	+4
Building construction.....	(⁵)	+6.4	-4.2	(⁵)	+13.4	-2	28.98	+6.6	+3.7

¹ Revised indexes—Adjusted to 1935 Census of Manufactures. Indexes for earlier months and years given in August issue of this pamphlet.

² Preliminary—Source: Interstate Commerce Commission.

³ Not available.

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

⁵ Average weekly earnings not strictly comparable with figures published in issues of this pamphlet dated earlier than January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

⁶ Less than $\frac{1}{10}$ of 1 percent.

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

Public Employment

Employment on projects financed from funds provided by the Public Works Administration showed a gain of 5,500, bringing the total number of workers on this program for the month ending March 15 to

222,100. This was 121,500 more than were working a year ago. Pay rolls for March 1939 amounted to \$16,377,000.

During the month ending March 15 more than 4,200 men were working on projects of the United States Housing Authority, and pay rolls amounted to \$468,000. 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 with P. W. A. building construction projects in this report.

There was a small decline of approximately 1,000 on construction projects financed from regular Federal appropriations during the month ending March 15, reducing the number of men at work to 171,000. Decreased employment was reported on the following types of projects: Forestry, reclamation, dredging, dikes and revetments, streets and roads, and water and sewerage. Marked increases in the number of man-hours worked on public-road projects and on ship construction resulted in a pay roll of \$18,283,000, an increase of over \$1,424,000 from February.

During the month ending March 15, over 2,000 men were working on construction projects financed by the Reconstruction Finance Corporation. Pay-roll disbursements for the period amounted to \$245,000.

In March there were 2,916,000 employees at work on projects operated by the Works Progress Administration, a decrease of 39,000 compared with February. As compared with March 1938 the employment level in March 1939 was higher by 521,000 workers. Pay-roll disbursements of \$156,871,000 were \$4,610,000 more than in February and \$37,227,000 more than in March a year ago. Declines in the number of persons working were reported on Federal projects under The Works Program and on work projects of the National Youth Administration. On Student Aid no change in employment was reported.

As is usual at the end of an enlistment period, there was a decrease in the number of persons in camps of the Civilian Conservation Corps. For March this decrease amounted to 22,000 and reduced the number of workers to 315,000. Of the total number in camps during this month 278,000 were enrollees, 5,000 reserve officers, 300 nurses, 1,600 educational advisers, and 30,000 supervisory and technical employees. For all groups of workers pay-roll disbursements in March were \$14,205,000.

In the regular services of the Federal Government increases in employment were reported in the executive, legislative, judicial, and military services. Of the employees in the executive service in March 121,000 were working in the District of Columbia and 758,000 outside

the District. Force-account employees (employees who are on the Federal pay roll and are engaged on construction projects) were 9 percent of the total number of employees in the executive service. Increases in employment were reported in the Departments of Interior, Agriculture, and Commerce; a decrease in the administrative offices of the Works Progress Administration.

The seasonal decline in employment on State-financed road projects continued with a drop of 18,000 in the number working during the month ending March 15. Of the 127,000 at work 16,000 were engaged on new road construction and 111,000 on maintenance. Combined pay rolls for both types of road work were \$9,185,000.

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

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

[Preliminary figures]

Class	Employment		Per-centage change	Pay rolls		Per-centage change
	March 1939	February 1939		March 1939	February 1939	
Federal services:						
Executive ²	878, 679	³ 875, 541	+0.4	\$134, 626, 223	³ \$130, 231, 207	+3.4
Judicial.....	2, 317	2, 210	+4.8	566, 058	537, 664	+5.3
Legislative.....	5, 292	5, 284	+2	1, 216, 315	1, 212, 994	+3
Military.....	344, 848	340, 852	+1.2	26, 899, 254	26, 609, 474	+1.1
Construction projects:						
Financed by P. W. A. ⁴	222, 061	216, 570	+2.5	16, 377, 207	16, 496, 563	-.7
U. S. H. A. low-cost housing.....	4, 293	3, 317	+29.4	467, 860	353, 132	+32.5
Financed by R. F. C. ⁵	2, 133	2, 593	-17.7	244, 675	298, 699	-18.1
Financed by regular Federal appropriations.....	171, 130	172, 264	-.7	18, 282, 989	16, 858, 526	+8.4
Federal projects under The Works Program	116, 721	117, 615	-.8	5, 171, 042	5, 684, 498	-9.0
Projects operated by W. P. A.	2, 915, 589	2, 955, 040	-1.3	156, 871, 041	152, 261, 190	+3.0
National Youth Administration:						
Work projects.....	234, 918	241, 623	-2.8	4, 437, 479	4, 456, 772	-.4
Student Aid.....	(⁶)	376, 209	-----	(⁶)	2, 424, 409	-----
Civilian Conservation Corps	314, 990	337, 191	-6.6	14, 205, 352	14, 789, 353	-3.9

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 109,566 employees and pay-roll disbursements of \$14,119,436 for March 1939, and 113,545 employees and pay-roll disbursements of \$13,555,890 for February 1939.

³ Revised.

⁴ Data covering P. W. A. projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds, and Public Works Administration Appropriation Act of 1938 funds are included. These data are not shown under The Works Program. Includes 25,672 wage earners and \$2,208,700 pay roll for March 1939; 30,709 wage earners and \$2,823,988 pay roll for February 1939, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 188,923 wage earners and \$13,283,402 pay roll for March 1939; 178,346 wage earners and \$12,719,680 pay roll for February 1939, covering Public Works Administration projects financed from funds provided by the Public Works Administration Appropriation Act of 1938.

⁵ Includes 186 employees and pay-roll disbursements of \$11,116 for March 1939; 235 employees and pay-roll disbursements of \$16,173 for February 1939 on projects financed by the RFC Mortgage Co.

⁶ March data not available.

The value of material orders placed on projects financed from regular Federal appropriations during the first quarter of 1939 amounted to \$91,211,000. Approximately 228,000 man-months of labor were involved in the final fabrication of these materials. On P. W. A. projects orders were placed for \$102,019,000 worth of materials, for which it is estimated 294,000 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 first quarter of 1939, the fourth quarter of 1938, and the first 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		
	First quarter of 1939	Fourth quarter of 1938	First quarter of 1938	First quarter of 1939	Fourth quarter of 1938	First quarter of 1938
Public Works Administration ¹	\$102,018,564	\$91,320,283	\$47,132,594	293,747	267,023	133,547
U. S. H. A. low-cost housing.....	3,090,065	792,886	-----	8,753	2,341	-----
Reconstruction Finance Corporation ²	1,857,299	1,392,913	2,806,039	4,760	3,484	7,104
Regular Federal appropriations.....	91,210,597	95,778,006	62,827,761	228,265	243,474	152,364
Federal projects under The Works Program:						
Construction.....	3,320,704	3,748,806	11,786,269	8,502	10,322	29,229
Professional, technical, and clerical.....	56,056	41,914	171,047	189	140	569
Projects operated by W. P. A.	(³)	85,623,408	80,051,783	(³)	251,771	252,411
Rentals and services on projects operated by W. P. A.	(³)	65,318,550	53,147,699	(³)	(³)	(³)
National Youth Administration:						
Work projects.....	(³)	2,054,268	1,036,868	(³)	6,040	3,324
Rentals and services on work projects.....	(³)	607,598	730,346	(³)	(³)	(³)

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 The Works Program. Includes low-cost housing projects financed from funds of N. I. R. A. and E. R. A. A., 1935.

² Includes RFC Mortgage Co.

³ Data not available.



DETAILED TABLES FOR MARCH 1939

Industrial and Business Employment

MONTHLY reports on employment and pay rolls are available for the following groups: 87 manufacturing industries; 16 nonmanufacturing industries, including private building construction; and class 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 March 1939 are shown in table 4. Percentage changes from February 1939 and March 1938 are also given.

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

The average weekly earnings shown in tables 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 all reporting establishments do not supply man-hours, average hours worked per week and average hourly earnings are necessarily based on data supplied by a smaller number of reporting firms. The size and composition of the reporting sample varies slightly from month to month. Therefore the average hours per week, average hourly earnings, and average weekly earnings shown are not strictly comparable from month to month. The sample, however, is believed to be sufficiently adequate in virtually all instances to indicate the general movements of earnings and hours over the period shown. The changes from the preceding month, expressed as percentages, are based on identical lists of firms for the 2 months, but the changes from March 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*

MANUFACTURING

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

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index, March 1939	Percentage change from—		Index, March 1939	Percentage change from—		March 1939	Percentage change from—		March 1939	Percentage change from—		March 1939	Percentage change from—	
		February 1939	March 1938		February 1939	March 1938		February 1939	March 1938		February 1939	March 1938		February 1939	March 1938
All manufacturing.....	91.4	+0.8	+4.2	86.9	+1.6	+12.7	\$24.23	+0.8	+8.2	37.1	+0.7	(?)	Cents 65.1	+0.2	(?)
Durable goods.....	88.5	+1.1	+5.3	80.1	+2.0	+18.8	27.12	+ .9	+12.8	36.7	+ .8	(?)	72.7	+ .3	(?)
Nondurable goods.....	98.9	+ .5	+3.2	94.6	+1.4	+7.6	21.61	+ .9	+4.2	37.5	+ .6	(?)	58.6	+ .1	(?)
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	88.3	+1.3	+4.6	81.6	+2.3	+26.9	27.01	+1.0	+21.3	35.8	+1.1	(?)	75.2	- .1	(?)
Blast furnaces, steel works, and rolling mills...	92.1	+ .8	+1.4	84.8	+1.7	+31.5	28.81	+1.0	+29.8	34.4	+ .9	+27.1	83.5	-(?)	+1.7
Bolts, nuts, washers, and rivets.....	91.9	+ .1	+13.2	92.3	-2.6	+49.8	25.64	-2.6	+32.2	36.9	-2.7	+35.2	69.5	0	-2.0
Cast-iron pipe.....	66.8	+1.7	+8.5	55.4	-(?)	+14.2	19.80	-1.6	+5.1	33.7	-2.0	+6.9	58.0	+ .1	-1.0
Cutlery (not including silver and plated cutlery) and edge tools.....	84.4	+1.8	+5.0	76.7	+3.2	+14.8	22.94	+1.3	+9.4	38.7	+1.2	+10.4	60.0	+ .5	-2.1
Forgings, iron and steel.....	48.0	-1.3	+4.6	45.9	-2.3	+29.7	28.10	-1.0	+24.0	37.3	+ .1	+21.6	75.2	-1.1	+1.5
Hardware.....	83.0	- .2	+17.7	81.9	+3.8	+45.2	23.93	+4.0	+23.4	36.6	+3.4	+22.9	65.5	+ .7	+ .5
Plumbers' supplies.....	74.0	+ .4	+4.7	63.3	-2.3	+20.6	24.28	-2.7	+15.2	36.1	-2.7	+15.5	67.2	-(?)	- .1
Stamped and enameled ware.....	137.4	+4.7	+7.3	137.0	+6.4	+15.3	23.92	+1.7	+7.3	38.1	+1.4	+8.5	62.7	+ .2	-1.0
Steam and hot-water apparatus and steam fittings.....	69.1	+1.2	+6.6	56.2	-1.6	+19.7	24.56	-2.8	+12.2	36.0	- .8	+17.7	68.2	-2.0	-4.4
Stoves.....	78.4	+4.9	+6.9	66.6	+7.1	+16.1	25.21	+2.1	+8.5	38.3	+1.9	+8.1	66.7	+ .2	+ .6
Structural and ornamental metalwork.....	66.2	+3.6	+6.9	57.6	+5.4	+13.8	27.54	+1.8	+6.3	37.7	+1.8	+4.4	73.1	- .2	+1.9
Tin cans and other tinware.....	85.5	+2.1	- .1	92.6	+8.0	- .3	23.57	+5.7	+2.4	38.7	+5.3	+2.8	60.8	- .1	+ .3
Tools (not including edge tools, machine tools, files, and saws).....	85.4	+ .7	+7.9	84.2	+ .4	+18.2	24.45	- .4	+9.7	40.0	- .1	+10.4	61.4	- .2	- .6
Wirework.....	161.4	+ .5	+19.8	169.5	+3.7	+38.2	25.36	+3.2	+15.4	37.7	+2.6	+15.8	67.5	+ .6	- .2
Machinery, not including transportation equipment.....	94.7	+1.4	-2.3	94.3	+2.7	+7.2	27.71	+1.3	+9.7	38.0	+1.1	(?)	72.8	+ .3	(?)
Agricultural implements (including tractors)...	124.8	+2.7	-17.0	136.7	+3.6	-14.9	30.19	+ .9	+2.6	37.8	+ .8	+1.2	80.3	- .1	+ .9
Cash registers, adding machines, and calculating machines.....	133.3	- .3	-6.4	120.3	+ .6	-7.5	29.17	+ .8	- .8	35.9	+ .4	-2.5	82.0	+ .2	+1.8

See footnotes at end of table.

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

MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index, March 1939	Percentage change from—		Index, March 1939	Percentage change from—		March 1939	Percentage change from—		March 1939	Percentage change from—		March 1939	Percentage change from—	
		February 1939	March 1938		February 1939	March 1938		February 1939	March 1938		February 1939	March 1938		February 1939	March 1938
Durable goods—Continued															
Machinery—Continued.													Cents		
Electrical machinery, apparatus, and supplies.....	85.2	+1.9	-1.5	86.9	+3.6	+12.3	\$28.22	+1.6	+14.0	38.0	+1.3	+15.1	74.5	+0.3	-0.1
Engines, turbines, water wheels, and wind-mills.....	93.8	+3.5	+4.9	112.1	+4.9	+11.2	30.92	+1.3	+5.9	39.5	+1.2	+5.7	78.8	+2	+2
Foundry and machine-shop products.....	84.1	+8	-3.5	79.5	+2.0	+5.8	27.02	+1.2	+9.3	37.8	+9	+9.3	71.5	+3	+4
Machine tools.....	128.4	+2.6	-5.5	135.0	+2.9	+4.5	29.83	+3	+10.6	40.2	+8	+9.0	74.2	-6	+1.4
Radios and phonographs.....	98.9	-3.5	+29.9	85.1	-2.9	+47.0	21.14	+6	+13.2	36.6	-2	+18.7	57.8	+5	-4.3
Textile machinery and parts.....	70.3	+6	+14.3	69.4	+1.9	+35.3	25.68	+1.3	+19.8	39.0	+2.1	+19.3	65.9	-1.0	-8
Typewriters and parts.....	127.6	+1.7	+10.6	136.2	+11.2	+44.7	25.63	+9.3	+30.9	39.0	+6.6	+31.6	65.7	+2.6	-4
Transportation equipment.....	95.7	-2	+23.6	92.1	+3	+41.5	31.00	+5	+14.4	34.6	+4	(2)	89.8	+3	(2)
Aircraft.....	961.7	+2.2	+8.3	989.1	+2.9	+21.1	31.38	+6	+11.9	42.1	+5	+4.8	76.1	+5	+8.1
Automobiles.....	103.8	-6	+30.9	97.2	-1	+56.0	31.11	+5	+19.0	33.7	+2	+18.6	92.4	+3	+6
Cars, electric and steam-railroad.....	33.4	-2.5	-2.8	32.3	-8	-3.6	26.44	+1.7	-9	35.4	-5	-1	74.8	+2.2	-7
Locomotives.....	16.5	-5.4	-54.0	13.7	+4.1	-57.8	26.67	+10.1	-8.3	34.4	+9.2	-8.4	77.5	+8	+1
Shipbuilding.....	108.7	+2.0	+8.8	115.5	+2.4	+9.9	31.78	+4	+2.5	37.9	+9	+1.8	83.8	+6	+5
Nonferrous metals and their products.....	94.3	+7	-8.5	89.5	+1.4	+20.5	25.67	+6	+11.0	38.3	+2	(2)	66.9	+4	(2)
Aluminum manufactures.....	153.1	+5.4	+14.7	159.8	+5.0	+23.4	26.68	-3	+7.7	39.5	+4	+10.7	67.6	-8	-2.9
Brass, bronze, and copper products.....	99.2	+4	+9.7	98.6	+2.2	+27.2	26.98	+1.8	+16.2	38.3	+1.7	+21.8	70.5	+1	-4.8
Clocks and watches and time-recording devices.....	83.6	+3	-2.7	85.5	-2.8	-8.2	21.63	-2.8	+10.7	37.1	-2.5	+14.6	58.3	-4	-2.9
Jewelry.....	92.7	+5	+6.8	76.9	+1.1	+13.1	23.03	+6	+6.0	39.3	+1	+7.2	57.9	+8	-2.5
Lighting equipment.....	87.5	-1.6	+22.2	80.3	-3.0	+44.4	25.82	-1.5	+19.0	35.9	-4.4	+11.5	71.8	+3.2	+6.1
Silverware and plated ware.....	66.7	+2.1	+8.2	64.7	+6.6	+26.5	26.64	+4.3	+17.0	41.4	+3.4	+13.7	64.8	+9	+3.0
Smelting and refining—copper, lead, and zinc.....	71.5	-6	+8	66.6	-8	+1.6	26.23	-2	+8	37.8	-2	-7	69.1	+3	+1.5
Lumber and allied products.....	62.6	0	+5	53.9	+1.7	+4.1	20.02	+1.7	+3.6	37.9	+2	(2)	53.3	+1.3	(2)
Furniture.....	78.9	+2	+5.8	66.1	+1	+16.3	20.20	-1	+9.3	38.5	-8	+9.4	52.7	+1.0	-3.0
Lumber:															
Millwork.....	53.4	+3	+5.3	43.7	+5	+10.6	21.65	+2	+5.3	39.9	-1	+4.8	54.4	+4	+1.2
Sawmills.....	49.1	+3	-3.7	42.4	+3.1	-4.6	19.34	+3.1	-1.0	37.0	+9	-3.5	53.3	+1.8	+3.2
Stone, clay, and glass products.....	69.6	+4.5	+9.3	61.6	+6.2	+16.2	23.70	+1.6	+6.4	36.2	+1.5	(2)	65.1	+4	(2)
Brick, tile, and terra cotta.....	49.7	+3.5	+13.6	37.1	+4.3	+29.1	19.59	+7	+13.6	36.1	0	+10.7	54.4	+1	+3.2
Cement.....	60.2	+9.8	+4.3	55.5	+13.5	+11.7	25.56	+3.4	+6.6	36.9	+2.9	+6.0	69.2	+6	+1

Glass.....	90.6	+1.2	+8.5	95.3	+2.1	+17.1	25.30	+9	+9.0	35.4	+1.6	+3.9	71.6	-.6	+3.7
Marble, granite, slate, and other products.....	44.8	+19.1	+8.9	34.3	+29.5	+8.6	25.92	+8.8	+1.1	36.3	+4.7	-3.2	71.8	+3.8	+2.7
Pottery.....	81.2	+1.5	+7.5	73.8	+2.0	+9.3	23.23	+5	+1.6	37.5	+1.2	+3.5	62.7	+8	-1.7
<i>Nondurable goods</i>															
Textiles and their products.....	101.4	+2	+6.7	89.0	+1.4	+14.1	17.39	+1.2	+6.9	36.2	+7	(2)	49.1	+2	(2)
Fabrics.....	91.2	-1.0	+10.9	79.4	-2.2	+17.5	16.56	-1.2	+6.0	36.6	-1.0	(2)	46.2	-2	(2)
Carpets and rugs.....	84.6	+2.3	+17.8	75.3	+5.3	+48.6	23.64	+2.9	+22.2	37.4	+2.0	+28.1	63.3	+9	-1.6
Cotton goods.....	87.7	-2	+6.4	75.7	-.4	+13.8	14.06	-.1	+6.5	36.5	-.4	+14.6	38.5	+1	-6.7
Cotton small wares.....	86.3	+7	+18.7	82.6	-.5	+22.9	18.21	-1.1	+3.4	39.5	-1.4	+4.3	46.8	+1	-.8
Dyeing and finishing textiles.....	116.0	-.5	+10.3	101.0	-1.0	+13.4	21.22	-.5	+2.7	39.3	-.8	+4.7	53.4	-3	-2.5
Hats, fur-felt.....	82.8	-3.4	-10.3	71.2	-13.4	-10.9	22.07	-10.4	-.5	30.6	-13.5	+3.8	69.5	-2.0	-5.8
Knit goods.....	116.0	+1.7	+6.8	119.4	+6	+7.9	18.09	-1.1	+1.0	37.0	0	+7.3	50.0	-3	-5.0
Hosiery.....	148.5	+1.4	+6.4	165.3	+6	+5.2	19.38	-.9	-1.3	37.0	+3	+5.3	53.0	-2	-5.0
Knitted outerwear.....	75.5	+3.6	+12.1	68.3	+1	+16.0	16.89	-3.4	+3.4	36.8	-1.3	+9.1	45.9	-1.4	-4.5
Knitted underwear.....	72.4	+1.2	+5.0	64.9	+1.7	+16.8	15.14	+5	+11.2	36.7	-2	+16.0	41.4	+3	-3.7
Knitted cloth.....	153.3	+1.0	+5.4	120.6	-.3	+8.8	17.53	-1.4	+3.6	37.6	-1.0	+4.6	46.3	-1.0	-2.5
Silk and rayon goods.....	63.8	-.7	+6.6	52.7	-1.0	+13.2	15.93	-.3	+6.1	37.5	-.2	+8.4	42.1	-1	-2.5
Woolen and worsted goods.....	76.8	-7.4	+41.2	61.9	-11.4	+50.6	18.66	-4.3	+6.8	34.3	-4.5	+16.6	54.4	+1	-8.5
Wearing apparel.....	123.0	+2.3	+2	104.8	+7.3	+9.4	19.91	+4.8	+9.1	35.7	+3.8	(3)	54.1	+5	(3)
Clothing, men's.....	106.7	+1.7	+9	86.2	+7.5	+13.8	21.07	+5.6	+12.6	35.1	+7	+14.1	59.9	+1.2	-.9
Clothing, women's.....	178.5	+3.3	-2.0	143.4	+6.3	+5.3	21.51	+3.0	+7.5	35.6	+3.6	+5.4	54.6	-.5	-1.4
Corsets and allied garments.....	103.7	+1.4	+4.7	108.9	+2.4	+9.3	17.61	+1.0	+4.3	39.3	+1.7	+7.0	45.1	-.6	-1.1
Men's furnishings.....	137.1	-.4	+2.8	122.2	-1.3	+6.2	14.20	-.9	+4.9	36.3	-.2	+2.8	37.6	+1.9	+2.3
Millinery.....	83.4	+7.2	+6	89.6	+11.2	+11.2	27.80	+17.5	+10.5	39.2	+9.3	+3.5	67.9	+2.9	+2.6
Shirts and collars.....	121.5	+1.6	+3.8	106.9	+3.5	+13.6	13.69	+1.9	+9.6	35.2	+1.9	+8.8	39.6	-.4	+5
Leather and its manufactures.....	97.6	+1.0	+3.6	83.2	-.1	+8.6	20.12	-1.2	+4.8	38.2	-2.6	(3)	51.7	+4	(3)
Boots and shoes.....	98.4	+1.3	+1.2	80.0	+6	+4.6	19.17	-.7	+3.1	38.0	-2.9	+6.9	49.2	+8	-.9
Leather.....	86.0	-1.0	+15.1	87.9	-2.3	+23.6	24.47	-1.4	+7.3	38.9	-1.2	+8.4	63.0	-.5	-1.0
Food and kindred products.....	112.0	+9	0	113.9	+1.6	+5	25.00	+7	+5	40.1	+7	(3)	62.9	-3	(3)
Baking.....	142.1	+4	+3	138.0	+1.0	+2	25.52	+6	-.1	41.8	+3	-.9	61.5	+2	+1.2
Beverages.....	227.8	+1.8	-1.2	265.2	+4.1	-2.2	32.15	+2.2	-1.2	37.8	+2.2	-2.9	85.8	+2	+1.9
Butter.....	92.0	+1.7	-7.5	79.3	+3	-4.8	22.47	-1.4	+3.0	46.0	-.2	+2.0	48.8	-1.4	+1.9
Canning and preserving.....	78.8	+9.1	+1.1	74.0	+5.4	+5.7	17.13	-3.4	+4.5	35.5	-.6	+4	49.4	-3.7	+2.5
Confectionery.....	77.5	+2	+5	75.0	-.9	+2.0	17.96	-1.1	+1.3	37.0	-.9	+5	48.5	+1	+8
Flour.....	76.8	+1.5	+1.5	74.4	+4.3	+1.2	25.13	+2.8	-.3	41.9	+2.7	-3.3	59.8	+9	+3.6
Ice cream.....	69.8	+3.0	-(3)	61.2	+3.0	+7	29.47	0	+6	46.0	+8	-1.1	63.4	-.7	+1.9
Slaughtering and meat packing.....	92.5	-2.2	-.5	100.6	-.7	-2	27.32	+1.5	+5	39.8	+7	+6	68.9	+9	-.2
Sugar, beet.....	40.8	+7	+5.4	45.7	-2.3	+3.3	28.62	-4.9	-1.3	40.1	-2.1	-(3)	75.6	-2.0	-4
Sugar refining, cane.....	88.3	+3.4	+8.3	85.8	+19.6	+25.6	26.21	+15.6	+16.7	40.8	+16.8	+11.1	64.2	-1.0	+4.5
Tobacco manufactures.....	59.5	-4.6	-6.7	51.5	+1.2	-5.9	16.22	+6.1	+1.1	34.2	+5.5	(3)	47.4	+3	(3)
Chewing and smoking tobacco and snuff.....	60.6	-1.3	-2.3	66.5	+4.2	-1.3	17.18	+5.5	+1.1	33.9	+4.5	-.7	51.0	+1.2	+1.6
Cigars and cigarettes.....	59.4	-5.1	-7.2	49.6	+6	-6.3	15.98	+6.0	+9	34.2	+5.7	-.9	46.9	+1	+1.9
Paper and printing.....	105.9	0	+6	104.2	+1.9	+2.9	28.37	+1.9	+2.3	38.3	+1.1	(3)	77.1	+4	(2)
Boxes, paper.....	101.6	+1.9	+7.5	107.1	+3.4	+3.7	21.54	+1.5	+5.8	39.8	+1.3	+6.6	54.6	-(3)	-1.0
Paper and pulp.....	105.9	-.4	+5	105.5	+4	+3.6	24.43	+7	+3.1	39.8	+6	+4.2	61.4	+1	-1.0
Printing and publishing:															
Book and job.....	100.3	-1.0	-1.7	92.0	+2.3	+4	30.55	+3.3	+2.1	38.2	+2.1	+1.0	81.1	+1.0	+1.0
Newspapers and periodicals.....	106.1	+8	+2	108.2	+1.9	+1.7	37.65	+1.2	+1.5	36.2	+2	-1.2	99.4	+1	+2.3

See footnotes at end of table.

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

MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index, March 1939	Percentage change from—		Index, March 1939	Percentage change from—		March 1939	Percentage change from—		March 1939	Percentage change from—		March 1939	Percentage change from—	
		Febru-ary 1939	March 1938		Febru-ary 1939	March 1938		Febru-ary 1939	March 1938		Febru-ary 1939	March 1938		Febru-ary 1939	March 1938
<i>Nondurable goods—Continued</i>															
Chemicals and allied products, and petroleum refining.....	114.4	+2.1	-0.6	121.6	+1.5	+3.7	\$28.46	-0.6	+4.3	38.5	+0.9	(²)	<i>Cents</i> 73.4	-1.3	(²)
Petroleum refining.....	116.2	-1	-4.1	131.3	-6	-3.8	35.17	-5	+3	36.3	-6	+0.2	97.3	+1	-(³)
Other than petroleum refining.....	114.0	+2.6	+4	118.6	+2.2	+6.6	25.73	-4	+6.1	39.3	+1.4	(²)	65.0	-1.6	(²)
Chemicals.....	116.5	+3	+2.7	130.9	+1.0	+10.5	31.08	+7	+7.7	39.9	+6	+7.5	78.0	0	0
Cottonseed—oil, cake, and meal.....	88.1	+3.3	-15.8	73.6	+6.0	-15.7	12.93	+2.7	+5	43.9	+5.0	-12.1	29.1	-1.9	+14.3
Druggists' preparations.....	108.0	+4	-6	119.1	+1.0	+3.7	24.86	+6	+5.3	39.2	-1	+3.1	59.3	-4	+4
Explosives.....	81.3	+5	-1.5	91.5	-1.2	+3.9	30.96	-1.8	+5.3	38.5	-1.6	+7.1	80.4	-2	-1.6
Fertilizers.....	132.2	+34.9	+2.0	105.6	+37.1	-3.3	14.76	+1.6	-4.9	37.4	+8.9	-6.5	39.5	-6.6	+2.0
Paints and varnishes.....	114.9	+2.1	+1.2	120.4	+4.1	+8.6	28.30	+1.9	+7.3	40.6	+2.1	+6.9	69.8	-2	+7
Rayon and allied products.....	317.3	-6	+1.7	313.9	-2	+11.4	24.26	+4	+9.6	37.6	-1	+10.1	64.6	+5	-4
Soap.....	90.5	+9	+1.7	92.5	+1.4	+3.2	29.01	+5	+1.5	39.4	+7	-7	73.9	-1	+3
Rubber products.....	82.8	+1.6	+13.6	85.4	+2.9	+40.2	27.42	+1.3	+23.5	38.1	+6	(²)	76.5	+3	(²)
Rubber boots and shoes.....	61.7	+1.7	+12.0	58.8	-1.7	+32.2	21.65	-3.4	+18.0	35.9	-4.0	+18.2	60.3	+7	-2
Rubber tires and inner tubes.....	67.2	+1.7	+9.0	76.1	+4.4	+47.7	32.64	+2.7	+35.5	33.9	+2.3	+34.2	96.1	+3	+8
Rubber goods, other.....	134.0	+1.6	+20.1	130.4	+1.9	+31.6	22.91	+4	+9.6	38.6	+5	+11.6	59.9	+(²)	+5

NONMANUFACTURING

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

Coal mining:															
Anthracite ¹	51.7	-0.9	-12.7	34.2	-24.2	-27.6	\$21.55	-23.5	-17.1	23.3	-24.9	-18.2	92.0	+0.3	+0.5
Bituminous ¹	87.4	-1.4	-6.2	77.8	-4.3	+13.6	23.49	-2.9	+21.2	26.5	-3.4	+20.0	88.4	-1.1	+6
Metalliferous mining	61.0	+1	-2.2	53.6	+5	-4.8	27.66	+4	-2.7	40.2	+1	-4.9	69.3	+4	+2.6
Quarrying and nonmetallic mining	40.1	+5.9	+3.2	33.1	+11.7	+9.7	20.80	+5.4	+6.3	37.5	+5.5	+1.4	55.4	-1.1	+4.9
Crude-petroleum producing	66.1	-4	-10.1	61.5	-1.8	-9.4	33.47	-1.4	+8	38.8	+(²)	-3.7	86.5	-1.0	+4.0
Public utilities:															
Telephone and telegraph ¹	73.5	+2	-1.9	92.2	+5	-4	30.88	+3	+1.5	39.0	+(²)	+(²)	82.0	+3	+8
Electric light and power and manufactured gas ¹	89.6	-(³)	-2.6	96.8	+4	-1.9	33.82	+4	+8	39.8	+1.0	-9	85.4	-5	+1.9
Electric-railroad and motorbus operation and maintenance ¹	69.5	+3	-1.8	70.5	+9	+9	33.12	+6	+2.7	45.7	+7	+1.2	71.5	-3	+1.2
Trade:															
Wholesale ¹	87.3	-6	-2.0	74.8	+3	+2	29.48	+1.0	+2.3	42.1	+1.0	+3	70.0	+3	+2.8
Retail ¹	83.8	+2.8	+1.0	69.6	+1.8	+1.5	21.28	-9	+5	42.5	-7	-1.0	54.8	+(²)	+2.4
General merchandising ¹	93.2	+4.9	+3.0	83.4	+3.0	+1.4	17.84	-1.8	-1.5	39.0	-5	-1	48.2	+1	-6
Other than general merchandising ¹	81.3	+2.1	+4	66.8	+1.5	+1.5	24.18	-7	+1.1	43.5	-7	-1.2	56.7	+1	+3.3
Hotels (year-round) ^{1, 5, 6}	92.7	+1	-7	81.1	-2.1	+2	15.09	-2.2	+9	46.7	-3	-2.0	31.7	-1.9	+1.9
Laundries ¹	92.9	+2	-2.0	79.3	+9	+1.0	17.54	+7	+3.0	42.3	+3	+4	41.7	+3	+2.1
Dyeing and cleaning ¹	95.4	+3.5	-3.1	67.7	+7.1	-8	19.48	+3.4	+2.4	41.1	+3.7	+3.2	49.2	+9	-8
Brokerage ¹	(⁷)	-1.2	-4.9	(⁷)	-1.1	-5.7	36.05	+1	-8	(⁷)	(⁷)	(⁷)	(⁷)	(⁷)	(⁷)
Insurance ¹	(⁷)	+2	+9	(⁷)	+1.0	+1.2	36.32	+9	+4	(⁷)	(⁷)	(⁷)	(⁷)	(⁷)	(⁷)
Building construction	(⁷)	+6.4	-4.2	(⁷)	+13.4	-2	28.98	+6.6	+3.7	30.4	+4.7	-1.9	95.5	+1.9	+5.4

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

² Not yet computed.

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

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

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

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

⁷ Not available.

TABLE 5.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1935 Census of Manufactures. Not comparable to indexes published in pamphlets, prior to August 1933. 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		
	March 1939	February 1939	January 1939	March 1939	February 1939	January 1939	March 1939	February 1939	January 1939	March 1939	February 1939	January 1939	March 1939	February 1939	January 1939
All manufacturing.....	91.4	90.7	89.5	86.9	85.5	83.4	\$24.23	\$24.07	\$23.86	37.1	36.9	36.3	<i>Cents</i> 65.1	<i>Cents</i> 64.9	<i>Cents</i> 64.1
Durable goods.....	83.5	82.6	81.6	80.1	78.5	76.6	27.12	26.86	26.65	38.7	38.4	35.8	72.7	72.6	72.9
Nondurable goods.....	98.9	98.4	97.1	94.6	93.3	91.0	21.61	21.49	21.28	37.5	37.3	36.8	58.6	58.6	58.6
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	88.3	87.2	85.9	81.6	79.8	77.7	27.01	26.71	26.37	35.8	35.3	34.8	75.2	75.4	75.7
Blast furnaces, steel works, and rolling mills.....	92.1	91.5	90.9	84.8	83.3	82.1	28.81	28.50	28.18	34.4	34.0	33.7	83.5	83.8	83.5
Bolts, nuts, washers, and rivets.....	91.9	91.8	90.8	92.3	94.7	89.4	25.64	26.33	25.11	36.9	37.9	36.1	69.5	69.6	69.7
Cast-iron pipe.....	66.8	65.7	65.8	55.4	55.4	52.9	19.80	20.06	19.15	33.7	34.3	32.5	58.0	57.8	58.3
Cutlery (not including silver and plated cutlery) and edge tools.....	84.4	82.9	81.4	76.7	74.4	73.9	22.94	22.65	22.95	38.7	38.3	38.1	60.0	59.9	60.9
Forgings, iron and steel.....	48.0	48.6	48.3	45.9	47.0	45.6	28.10	28.48	27.74	37.3	37.4	36.3	75.2	76.0	76.3
Hardware.....	83.0	83.2	84.7	81.9	78.9	81.8	23.93	23.04	23.42	36.6	35.4	35.5	65.5	65.1	66.0
Plumbers' supplies.....	74.0	73.7	72.0	63.3	64.8	60.7	24.28	24.95	23.95	36.1	37.1	35.9	67.2	67.2	66.2
Stamped and enameled ware.....	137.4	131.3	129.4	137.0	128.8	126.6	23.92	23.55	23.50	38.1	37.6	36.9	62.7	62.5	63.7
Steam and hot-water heating apparatus and steam fittings.....	69.1	68.2	65.8	56.2	57.1	53.8	24.56	25.24	24.71	36.0	36.3	35.4	68.2	69.5	69.7
Stoves.....	78.4	74.7	65.2	66.6	62.2	49.9	25.21	24.72	22.78	38.3	37.4	35.0	66.7	66.9	65.9
Structural and ornamental metalwork.....	66.2	64.0	61.7	57.6	54.6	51.8	27.54	26.93	26.59	37.7	37.0	36.5	73.1	72.9	73.1
Tin cans and other tinware.....	85.5	83.7	82.8	92.6	85.8	86.6	23.57	22.33	22.78	38.7	36.8	37.4	60.8	61.0	61.3
Tools (not including edge tools, machine tools, files, and saws).....	85.4	84.7	83.4	84.2	83.9	80.2	24.45	24.45	23.75	40.0	39.9	39.3	61.4	61.5	60.4
Wirework.....	161.4	160.6	162.8	169.5	163.5	161.9	25.36	24.60	24.01	37.7	36.8	35.9	67.5	66.9	67.1
Machinery, not including transportation equipment.....	94.7	93.4	91.4	94.3	91.8	87.4	27.71	27.31	26.55	38.0	37.6	36.6	72.8	72.5	72.4
Agricultural implements (including tractors).....	124.8	121.5	111.4	136.7	131.9	112.7	30.19	29.96	27.92	37.8	37.5	35.3	80.3	80.4	79.4
Cash registers, adding machines, and calculating machines.....	133.3	133.6	133.3	120.3	119.6	117.4	29.17	28.93	28.47	35.9	35.7	35.0	82.0	81.9	82.2
Electrical machinery, apparatus, and supplies.....	85.2	83.6	82.1	86.9	83.9	80.6	28.22	27.77	27.17	38.0	37.5	36.6	74.5	74.3	74.4
Engines, turbines, water wheels, and windmills.....	93.8	90.6	87.1	112.1	106.9	98.4	30.92	30.50	29.21	39.5	39.0	37.2	78.8	78.7	78.8
Foundry and machine-shop products.....	84.1	83.4	81.8	79.5	78.0	74.8	27.02	26.69	26.11	37.8	37.5	36.6	71.5	71.1	71.3
Machine tools.....	128.4	126.1	121.1	135.0	131.2	120.0	29.83	29.75	28.17	40.2	39.9	38.1	74.2	74.6	74.0

Radios and phonographs.....	98.9	102.5	108.4	85.1	87.7	96.8	21.14	21.15	22.15	36.6	36.7	37.7	57.8	57.7	59.1
Textile machinery and parts.....	70.3	69.9	67.5	69.4	68.1	64.6	25.68	25.32	24.89	39.0	38.2	38.1	65.9	66.5	65.4
Typewriters and parts.....	127.6	125.4	125.9	136.2	122.5	118.6	25.63	23.45	22.60	39.0	36.6	35.4	65.7	64.1	63.7
Transportation equipment.....	95.7	95.9	95.8	92.1	91.8	93.5	31.00	30.69	31.32	34.6	34.3	34.8	89.8	89.7	89.9
Aircraft.....	961.7	940.9	876.4	989.1	961.3	907.8	31.38	31.18	31.61	42.1	41.8	41.7	76.1	75.8	76.8
Automobiles.....	103.8	104.4	106.1	97.2	97.3	101.3	31.11	30.80	31.55	33.7	33.3	34.3	92.4	92.4	92.1
Cars, electric- and steam-railroad.....	33.4	34.3	29.4	32.3	32.6	27.1	26.44	26.00	25.21	35.4	35.5	34.5	74.8	73.2	73.0
Locomotives.....	16.5	17.5	18.6	13.7	13.2	15.3	26.67	24.22	26.38	34.4	31.5	33.9	77.5	76.9	77.7
Shipbuilding.....	108.7	106.6	101.0	115.5	112.9	106.7	31.78	31.65	31.60	37.9	37.6	37.5	83.8	83.3	83.7
Nonferrous metals and their products.....	94.3	93.6	92.2	89.5	88.3	84.6	25.67	25.48	24.85	38.3	38.3	37.0	66.9	66.5	66.8
Aluminum manufactures.....	153.1	145.3	138.7	159.8	152.1	142.8	26.68	26.77	26.35	39.5	39.3	38.3	67.6	68.1	68.7
Brass, bronze, and copper products.....	99.2	98.8	98.3	98.6	96.4	93.0	26.98	26.42	25.79	38.3	37.6	36.9	70.5	70.4	70.1
Clocks and watches and time-recording devices.....	83.6	83.6	82.9	85.5	88.0	80.0	21.63	22.25	20.41	37.1	38.0	35.0	58.3	58.5	58.2
Jewelry.....	92.7	92.3	87.4	76.9	76.1	71.9	23.03	22.82	22.77	39.3	39.2	38.7	57.9	57.4	58.1
Lighting equipment.....	87.5	89.0	89.8	80.3	82.7	78.2	25.82	26.13	24.47	35.9	37.6	35.2	71.8	69.5	69.3
Silverware and plated ware.....	66.7	65.3	63.3	64.7	60.7	56.6	26.64	25.56	24.58	41.4	40.1	38.8	64.8	64.1	63.7
Smelting and refining—copper, lead, and zinc.....	71.5	71.9	72.0	66.6	67.1	68.0	26.23	26.27	26.68	37.8	37.9	38.6	69.1	69.0	69.1
Lumber and allied products.....	62.6	62.6	61.9	53.9	53.0	52.0	20.02	19.80	19.81	37.9	37.9	37.1	53.3	52.5	54.1
Furniture.....	78.9	78.8	76.3	66.1	66.0	60.3	20.20	20.26	19.13	38.5	39.1	36.9	52.7	52.0	52.1
Lumber:															
Millwork.....	53.4	53.3	53.0	43.7	43.5	42.7	21.65	21.64	21.33	39.9	40.0	39.0	54.4	54.2	54.8
Sawmills.....	49.1	49.1	49.1	42.4	41.1	42.4	19.34	18.83	19.86	37.0	36.7	36.7	53.3	52.3	55.0
Stone, clay, and glass products.....	69.6	68.6	68.4	61.6	58.0	56.8	23.70	23.41	22.98	36.2	35.7	35.1	65.1	64.8	65.1
Brick, tile, and terra cotta.....	49.7	48.0	48.9	37.1	35.6	36.7	19.59	19.39	19.65	36.1	36.1	36.5	54.4	53.9	64.0
Cement.....	60.2	54.8	53.4	55.5	48.9	47.0	25.56	24.97	24.54	36.9	36.4	35.7	69.2	68.6	69.0
Glass.....	90.6	89.5	89.6	95.3	93.3	92.0	25.30	25.04	24.72	35.4	34.8	34.0	71.6	72.0	72.8
Marble, granite, slate, and other products.....	44.8	37.7	36.6	34.3	26.5	25.6	25.92	23.68	23.62	36.3	34.6	34.1	71.8	68.8	69.8
Pottery.....	81.2	80.0	78.6	73.8	72.3	66.3	23.23	23.46	21.83	37.5	37.2	35.5	62.7	62.9	62.8
<i>Nondurable goods</i>															
Textiles and their products.....	101.4	101.2	97.5	89.0	87.8	81.0	17.39	17.36	16.75	36.2	36.1	34.9	49.1	48.9	48.4
Fabrics:															
Carpets and rugs.....	91.2	92.1	90.8	79.4	81.2	78.9	16.56	16.82	16.55	36.6	37.0	36.4	46.2	46.1	46.2
Cotton goods.....	84.6	82.7	80.8	75.3	71.5	68.1	23.64	22.94	22.38	37.4	36.6	35.7	63.3	62.7	62.7
Cotton small wares.....	87.7	87.9	86.9	75.7	76.0	74.6	14.06	14.08	13.93	36.5	36.6	36.4	38.5	38.4	38.3
Dyeing and finishing textiles.....	86.3	85.7	83.9	82.6	83.0	79.5	18.21	18.48	18.07	39.5	39.9	38.8	46.8	47.0	47.5
Hats, fur-felt.....	116.0	116.6	113.3	101.0	102.0	96.9	21.22	21.38	20.85	39.3	39.6	38.3	53.4	53.8	54.1
Knit goods.....	82.8	85.7	83.9	71.2	82.2	79.7	22.07	24.75	24.58	30.6	35.5	34.5	69.5	71.4	71.4
Hosiery.....	116.0	114.1	110.4	119.4	118.7	111.7	18.09	18.28	17.83	37.0	37.1	35.6	50.0	50.2	50.9
Knitted outerwear.....	148.5	146.4	143.9	165.3	164.4	157.4	19.38	19.63	19.14	37.0	37.0	35.7	53.0	53.2	53.8
Knitted underwear.....	75.5	72.9	65.3	68.3	68.2	58.6	16.89	17.72	16.89	36.8	37.2	35.4	45.9	47.2	47.5
Knitted cloth.....	72.4	71.6	68.5	64.9	63.8	58.3	15.14	15.00	14.39	36.7	37.1	34.5	41.4	40.7	41.8
Silk and rayon goods.....	153.3	151.7	146.8	120.6	121.0	118.9	17.53	17.83	18.03	37.6	38.2	38.3	46.3	46.6	46.8
Woolen and worsted goods.....	63.8	64.3	63.0	52.7	53.2	50.7	15.93	15.97	15.45	37.5	37.6	36.4	42.1	42.2	42.0
Wearing apparel.....	76.8	82.9	84.4	61.9	69.8	70.9	18.66	19.50	19.48	34.3	36.8	37.0	54.4	53.0	52.6
Clothing, men's.....	123.0	120.2	111.0	104.8	97.7	82.4	19.91	19.07	17.38	35.7	34.5	32.3	54.1	53.9	52.5
Clothing, women's.....	106.7	104.9	96.7	86.2	80.2	68.6	21.07	20.17	18.52	35.1	33.7	31.2	59.9	59.5	58.6
Corsets and allied garments.....	178.5	172.9	159.6	143.4	134.8	111.7	21.51	20.81	18.70	35.6	34.4	32.7	54.6	55.1	52.2
Men's furnishings.....	103.7	102.3	99.8	108.9	106.3	99.0	17.61	17.45	16.54	39.3	38.6	36.2	45.1	45.5	45.7
Millinery.....	137.1	137.6	123.0	122.2	123.8	101.0	14.20	14.22	13.03	36.3	36.6	33.6	37.6	35.9	36.3
Shirts and collars.....	83.4	77.7	67.1	89.6	71.1	55.3	27.80	23.35	21.16	39.2	35.3	31.7	67.9	65.3	64.5
	121.5	119.6	114.3	106.9	103.3	93.1	13.69	13.49	12.61	35.2	34.8	32.6	39.6	39.6	39.4

See footnotes at end of table.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries—Continued*

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	March 1939	February 1939	January 1939	March 1939	February 1939	January 1939	March 1939	February 1939	January 1939	March 1939	February 1939	January 1939	March 1939	February 1939	January 1939
<i>Nondurable goods—Continued</i>															
Leather and its manufactures.....	97.6	98.6	92.9	83.2	83.3	77.5	\$20.12	\$20.34	\$19.71	38.2	39.1	38.1	Cents 51.7	Cents 52.0	Cents 52.5
Boots and shoes.....	98.4	97.1	92.7	80.0	79.5	72.6	19.17	19.31	18.54	38.0	39.1	37.9	49.2	49.5	49.8
Leather.....	86.0	86.8	86.0	87.9	90.0	88.3	24.47	24.67	24.76	38.9	39.3	39.0	63.0	63.0	63.9
Food and kindred products.....	112.0	111.0	113.7	113.9	112.1	115.3	25.00	24.83	24.96	40.1	39.8	40.0	62.9	63.2	62.8
Baking.....	142.1	141.5	140.3	138.0	136.6	136.1	25.52	25.40	25.47	41.8	41.6	41.6	61.5	61.5	61.7
Beverages.....	227.8	223.7	223.2	265.2	254.8	253.9	32.15	31.69	31.61	37.8	37.2	37.1	85.8	85.9	85.9
Butter.....	92.0	90.5	93.1	79.3	79.1	80.5	22.47	22.52	22.37	46.0	45.7	45.5	48.8	49.2	49.8
Canning and preserving.....	78.8	72.2	78.6	74.0	70.2	70.5	17.13	17.75	16.47	35.5	35.6	34.7	49.4	51.5	48.6
Confectionery.....	77.5	77.3	78.0	75.0	75.7	75.7	17.96	18.15	18.02	37.0	37.3	37.4	48.5	48.4	48.2
Flour.....	76.8	75.7	77.2	74.4	71.3	74.7	25.13	24.57	25.18	41.9	40.6	41.6	59.8	60.0	60.1
Ice cream.....	69.8	67.8	67.9	61.2	59.3	59.6	29.47	29.52	29.46	46.0	45.4	45.3	63.4	64.4	63.9
Slaughtering and meat packing.....	92.5	94.6	99.8	100.6	101.3	111.1	27.32	26.98	28.05	39.8	39.5	41.3	68.9	68.4	68.3
Sugar, beet.....	40.8	39.8	85.4	45.7	46.7	73.2	28.62	30.07	22.08	40.1	40.9	33.5	75.6	77.1	65.6
Sugar refining, cane.....	88.3	85.3	84.7	85.8	71.8	74.7	26.21	22.67	23.77	40.8	35.0	36.3	64.2	64.8	65.4
Tobacco manufactures.....	59.5	62.4	59.2	51.5	50.9	49.7	16.22	15.20	15.59	34.2	32.0	32.2	47.4	47.4	48.1
Chewing and smoking tobacco and snuff.....	60.6	61.4	60.5	66.5	63.8	66.5	17.18	16.37	17.29	33.9	32.4	34.3	51.0	50.7	50.6
Cigars and cigarettes.....	59.4	62.5	59.0	49.6	49.3	47.5	15.98	14.91	15.14	34.2	32.0	31.9	46.9	47.0	47.7
Paper and printing.....	105.9	105.9	105.7	104.2	102.3	102.2	28.37	27.89	27.80	38.3	37.9	37.9	77.1	76.8	76.5
Boxes, paper.....	101.6	99.7	98.1	107.1	103.5	99.5	21.54	21.24	20.68	39.8	39.2	38.4	54.6	54.7	54.4
Paper and pulp.....	105.9	106.3	105.5	105.5	105.1	102.6	24.43	24.16	23.82	39.8	39.6	38.7	61.4	61.1	61.6
Printing and publishing:															
Book and job.....	100.3	101.3	102.5	92.0	90.0	93.6	30.55	29.58	30.37	38.2	37.5	38.6	81.1	80.2	79.9
Newspapers and periodicals.....	106.1	105.3	104.7	108.2	106.2	104.9	37.65	37.30	36.85	36.2	36.0	36.0	99.4	99.6	98.2
Chemicals and allied products, and petroleum refining.....	114.4	112.1	112.0	121.6	119.8	119.8	28.46	28.45	28.63	38.5	38.2	38.3	73.4	74.2	74.4
Petroleum refining.....	116.2	116.4	117.1	131.3	132.1	134.5	35.17	35.18	35.75	36.3	36.6	36.6	97.3	96.7	98.0
Other than petroleum refining.....	114.0	111.1	110.7	118.6	116.0	115.3	25.73	25.75	25.66	39.3	38.8	38.9	65.0	66.1	65.8
Chemicals.....	116.5	116.1	115.5	130.9	129.6	127.9	31.08	30.89	30.63	39.9	39.7	39.3	78.0	78.0	78.0
Cottonseed—oil, cake, and meal.....	88.1	85.3	94.7	73.6	69.4	78.9	12.93	12.57	12.61	43.9	41.7	43.1	29.1	29.7	28.8
Druggists' preparations.....	108.0	107.6	107.6	119.1	117.9	118.5	24.86	24.73	24.93	39.2	39.2	39.1	59.3	59.6	60.3
Explosives.....	81.3	80.8	82.0	91.5	92.6	90.7	30.96	31.52	30.40	38.5	39.1	37.7	80.4	80.6	80.6
Fertilizers.....	132.2	98.0	94.2	105.6	77.1	77.1	14.76	14.63	15.17	37.4	34.6	35.8	39.5	42.3	42.4
Paints and varnishes.....	114.9	112.5	114.2	120.4	115.7	113.1	28.30	27.84	27.34	40.6	40.0	39.2	69.8	69.7	69.9
Rayon and allied products.....	317.3	319.1	313.2	313.9	314.4	309.5	24.26	24.15	24.22	37.6	37.7	38.0	64.6	64.0	63.7
Soap.....	90.5	89.7	88.8	92.5	91.2	91.2	29.01	28.87	29.33	39.4	39.1	39.1	73.9	74.0	75.2
Rubber products.....	82.8	81.5	81.1	85.4	83.0	83.9	27.42	27.28	27.72	36.1	36.0	35.9	76.5	76.0	76.8
Rubber boots and shoes.....	61.7	60.7	58.4	58.8	59.8	56.8	21.65	22.05	21.78	35.9	37.7	36.5	60.3	58.4	59.7
Rubber tires and inner tubes.....	67.2	66.1	67.1	76.1	72.9	76.2	32.64	31.68	32.59	33.9	33.2	34.2	96.1	95.3	95.7
Rubber goods, other.....	134.0	131.9	129.8	130.4	127.9	125.1	22.91	22.88	22.75	38.6	38.5	37.9	59.9	59.9	60.5

NONMANUFACTURING

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

													Cents	Cents	Cents
Coal mining:															
Anthracite ¹	51.7	52.2	50.0	34.2	45.2	38.0	\$21.55	\$28.20	\$24.74	23.3	30.9	27.0	92.0	92.0	92.8
Bituminous ¹	87.4	88.6	88.7	77.8	81.2	78.2	23.49	24.29	23.29	26.5	27.6	26.5	88.4	88.4	88.4
Metalliciferous mining	61.0	60.9	62.6	53.6	53.4	55.3	27.66	27.38	27.69	40.2	39.9	40.4	69.3	69.0	68.9
Quarrying and nonmetallic mining	40.1	37.9	38.3	33.1	29.7	30.2	20.80	19.52	19.76	37.5	35.4	36.1	55.4	55.6	54.9
Crude-petroleum producing	66.1	66.4	67.0	61.5	62.7	60.9	33.47	34.70	33.60	38.8	38.7	37.6	86.5	87.5	87.5
Public utilities:															
Telephone and telegraph ³	73.5	73.3	74.1	92.2	91.7	92.0	30.88	31.09	30.90	39.0	38.9	39.0	82.0	82.6	82.3
Electric light and power and manufactured gas ³	89.6	89.6	90.0	96.8	96.4	95.9	33.82	33.67	33.37	39.8	39.5	38.6	85.4	85.4	86.6
Electric-railroad and motorbus operation and maintenance ³	69.5	69.3	69.2	70.5	69.9	71.1	33.12	32.87	33.53	45.7	45.4	46.3	71.5	71.5	71.5
Trade:															
Wholesale ³	87.3	87.9	88.3	74.8	74.6	75.5	29.48	29.54	29.72	42.1	41.5	41.6	70.0	71.1	71.1
Retail ³	83.8	81.5	82.2	69.6	68.4	69.7	21.28	21.55	21.71	42.5	42.7	42.9	54.8	54.9	55.1
General merchandising ³	93.2	88.8	90.7	83.4	81.0	84.0	17.84	18.19	18.38	39.0	39.2	40.0	48.2	48.3	48.4
Other than general merchandising ³	81.3	79.6	80.0	66.8	66.8	67.7	24.18	24.34	24.48	43.4	43.8	45.7	56.8	56.8	57.1
Hotels (year-round) ^{3 4}	92.7	92.6	91.8	82.8	80.2	82.5	15.09	15.29	14.95	47.7	46.9	46.4	31.2	32.1	31.7
Laundries ²	92.9	92.8	93.3	79.3	78.6	79.6	17.51	17.32	17.41	42.3	42.2	42.1	41.7	41.3	41.4
Dyeing and cleaning ²	95.4	92.1	94.2	63.2	63.2	65.8	19.48	18.95	19.12	41.1	39.7	40.4	49.2	48.6	48.7
Brokerage ^{3 5}	-1.2	- .8		-1.1	- .6	- .5	36.05	35.71	35.93	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Insurance ^{3 5}	+ .2	(⁷)	.4	+1.0	-1.1	- .3	36.32	36.11	36.49	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Building construction ⁵	+6.4	-2.5	-11.5	+13.4	-6.1	-14.0	28.98	27.38	28.18	30.4	29.1	30.3	95.5	94.3	93.2

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

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

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

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

¹ Indexes of employment and pay rolls are not available, percentage changes from preceding month substituted.

⁶ Not available.

Less than 1/10 of 1 percent.

**INDEXES OF EMPLOYMENT AND PAY ROLLS, MARCH 1938 THROUGH
MARCH 1939**

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 March 1938 to March 1939, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to March 1939.

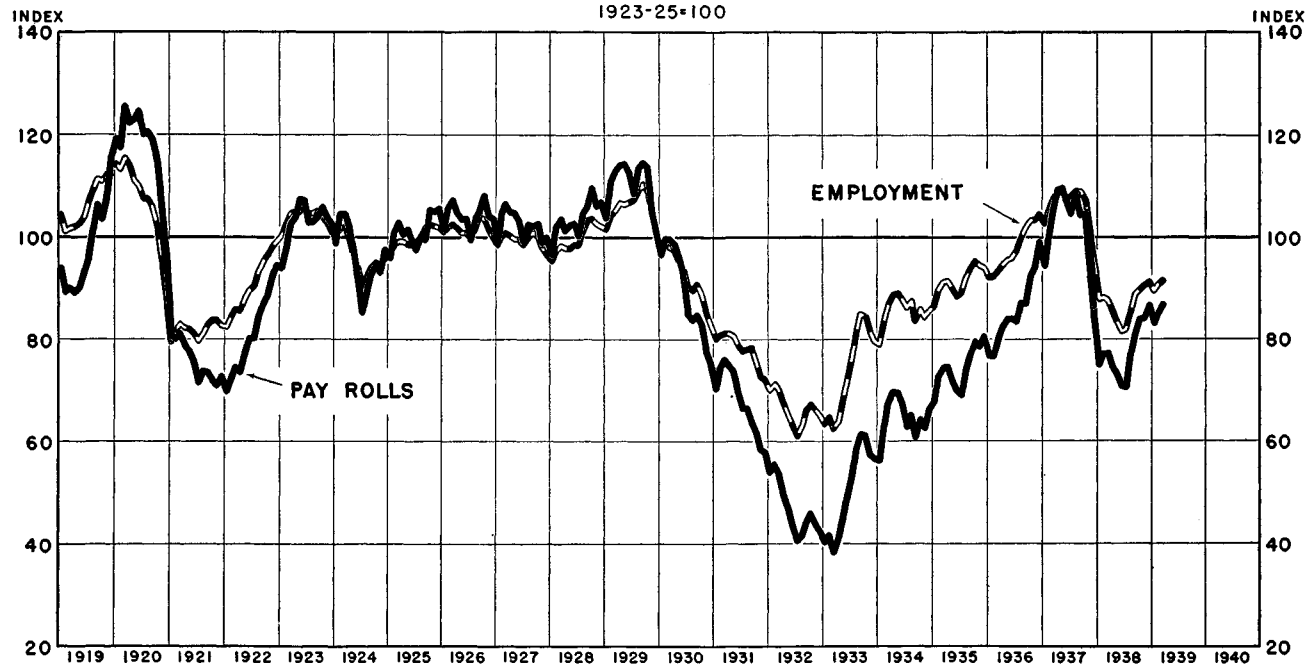
The indexes of factory employment and pay rolls are based on the 3-year average 1923-25 as 100. They relate to wage earners only and are computed from reports supplied by representative manufacturing establishments in 87 manufacturing industries. These reports cover more than 55 percent of the total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

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

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

EMPLOYMENT AND PAY ROLLS ALL MANUFACTURING INDUSTRIES

1923-25=100



UNITED STATES BUREAU OF LABOR STATISTICS

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

Industry	Employment													
	Av. 1938	1938										1939		
		Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<i>Manufacturing</i>														
All industries.....	86.8	87.7	85.7	83.4	81.6	81.9	85.7	88.8	89.5	90.5	91.2	89.5	90.7	91.4
Durable goods ³	77.3	79.3	77.0	75.0	72.4	70.3	71.7	75.3	79.0	82.1	83.1	81.6	82.6	83.5
Nondurable goods ⁴	96.0	95.8	94.0	91.5	90.3	92.9	99.0	101.7	99.4	98.4	98.8	97.1	98.4	98.9
<i>Nonmanufacturing</i>														
Anthracite mining.....	52.3	59.3	57.0	52.8	56.0	44.6	37.6	46.4	52.4	51.0	51.3	50.0	52.2	51.7
Bituminous-coal mining.....	86.7	93.2	85.8	82.2	80.2	78.5	80.1	83.4	87.2	88.6	89.3	88.7	88.6	87.4
Metalliferous mining.....	59.0	62.3	61.6	58.8	56.9	49.7	51.4	55.2	57.9	61.9	62.3	62.6	60.9	61.0
Quarrying and nonmetallic mining.....	42.3	38.9	41.7	43.7	43.6	44.1	44.6	44.6	44.4	44.4	41.4	38.3	37.9	40.1
Crude-petroleum producing.....	72.1	73.6	73.8	73.2	72.8	72.3	72.4	71.5	69.5	68.3	67.8	67.0	66.4	66.1
Telephone and telegraph.....	75.1	74.9	74.8	75.0	74.8	74.9	74.8	74.9	74.7	74.4	74.3	74.1	73.3	73.5
Electric light and power, and manufactured gas.....	92.3	92.0	91.8	91.7	92.2	92.3	92.7	92.5	92.5	91.9	91.4	90.0	89.6	89.6
Electric-railroad and motorbus operation and maintenance.....	70.3	70.8	71.1	70.6	70.4	70.1	69.5	69.3	69.9	69.5	69.4	69.2	69.3	69.5
Wholesale trade.....	88.8	89.1	88.5	87.3	87.2	86.8	87.6	88.5	89.1	89.8	90.0	88.3	87.9	87.3
Retail trade.....	85.2	83.0	88.2	83.8	83.6	81.1	80.0	84.7	85.9	86.9	98.1	82.2	81.5	83.8
General merchandising.....	98.0	90.5	101.0	92.4	91.9	87.9	86.4	97.0	99.4	104.5	144.1	90.7	88.8	93.2
Other than general merchandising.....	81.8	81.0	84.9	81.5	81.4	79.3	78.3	81.5	82.3	82.3	86.0	80.0	79.6	81.3
Year-round hotels.....	92.7	93.4	93.5	93.7	92.2	90.7	90.4	91.8	92.9	92.5	92.0	91.8	92.6	92.7
Laundries.....	95.7	94.8	95.4	96.2	96.6	97.8	97.5	96.5	94.4	93.7	93.4	93.3	92.8	92.9
Dyeing and cleaning.....	104.3	98.5	111.8	109.9	110.8	108.6	105.0	107.8	106.8	102.5	97.9	94.2	92.1	95.4
<i>Pay rolls</i>														
All industries.....	77.5	77.1	74.6	72.9	70.8	70.6	76.9	81.0	83.8	84.1	86.5	83.4	85.5	86.9
Durable goods ³	68.2	67.4	65.6	64.2	61.7	58.6	63.7	68.7	75.2	78.3	80.4	76.6	78.5	80.1
Nondurable goods ⁴	88.0	87.9	84.7	82.6	80.9	84.1	91.7	94.9	93.4	90.6	93.4	91.0	93.3	94.6
<i>Nonmanufacturing</i>														
Anthracite mining.....	38.2	47.3	39.0	38.3	49.7	20.2	20.0	29.4	43.4	36.2	42.5	38.0	45.2	34.2
Bituminous-coal mining.....	67.9	68.4	56.3	55.3	57.0	56.8	64.2	71.9	78.3	81.4	80.9	78.2	81.2	77.8
Metalliferous mining.....	50.4	56.3	53.3	51.2	46.1	38.0	43.7	46.1	49.2	52.3	54.1	55.3	53.2	53.6
Quarrying and nonmetallic mining.....	35.1	30.2	33.9	38.3	37.3	37.0	39.2	38.4	39.2	37.2	33.7	30.2	29.7	33.1
Crude-petroleum producing.....	66.5	68.0	68.0	66.7	67.6	66.7	66.8	66.5	63.7	63.3	62.5	60.9	62.7	61.5
Telephone and telegraph.....	92.1	92.6	91.6	91.3	90.9	90.9	91.3	92.6	95.3	93.0	92.5	92.0	91.7	92.2
Electric light and power, and manufactured gas.....	98.5	98.6	97.6	97.4	98.6	98.3	98.9	98.4	99.9	98.6	98.2	95.9	96.4	96.8
Electric-railroad and motorbus operation and maintenance.....	69.7	69.9	70.0	71.2	69.7	69.0	69.5	68.4	68.9	68.8	69.7	71.1	69.9	70.5
Wholesale trade.....	74.7	74.7	74.6	75.1	73.8	73.6	73.7	74.3	75.1	75.4	75.7	75.5	74.6	74.8
Retail trade.....	70.4	68.6	72.2	70.0	69.5	68.1	66.8	69.4	70.8	71.5	79.2	69.7	68.4	69.6
General merchandising.....	87.8	82.2	89.4	84.4	84.3	80.4	78.8	85.3	88.3	91.8	122.9	84.0	81.0	83.4
Other than general merchandising.....	66.8	65.8	68.6	67.0	66.4	65.6	64.3	66.1	67.2	67.3	70.1	66.7	65.8	66.8
Year-round hotels.....	80.3	80.9	80.5	80.5	79.6	77.4	77.4	78.9	80.8	81.3	81.1	80.2	82.8	81.1
Laundries.....	80.6	78.2	80.6	80.9	81.8	83.0	83.1	81.4	79.5	79.3	80.0	79.6	78.6	79.3
Dyeing and cleaning.....	75.3	68.2	87.2	80.7	83.3	77.5	74.3	81.7	78.0	73.9	68.3	65.8	63.2	67.7

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

² 12-month average for 1929=100. Comparable indexes are in November 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, railroad repair shops, nonferrous metals, lumber and allied products, and stone, clay, and glass products.

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

TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in February and March 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 grand total have not been weighted according to their relative importance.

The totals for all manufacturing industries combined include figures for miscellaneous manufacturing industries in addition to the 87 manufacturing industries presented in table 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," for "All manufacturing," for anthracite mining, bituminous-coal mining, metalliferous mining, quarrying and nonmetallic mining, crude-petroleum producing, public utilities, wholesale trade, retail trade, hotels, laundries, dyeing and cleaning, and brokerage and insurance.

TABLE 7.—Comparison of Employment and Pay Rolls in Identical Establishments in February and March 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 March 1939	Percentage change from February 1939	Amount of pay roll (1 week) March 1939	Percentage change from February 1939	Number of establishments	Number on pay roll March 1939	Percentage change from February 1939	Amount of pay roll (1 week) March 1939	Percentage change from February 1939
				<i>Dollars</i>					<i>Dollars</i>	
New England.....	13,088	862,419	+0.4	19,938,237	+0.5	3,574	595,035	-0.5	13,148,257	-0.2
Maine.....	760	50,811	-3.2	1,001,783	-4.5	271	42,852	-3.8	821,420	-5.4
New Hampshire.....	596	41,022	-3.2	821,006	-6.6	215	35,522	-3.8	700,453	-6.9
Vermont.....	445	16,085	+1.3	336,136	+1.6	155	10,679	+1.5	216,766	+4
Massachusetts.....	17,767	464,237	+1.4	10,979,744	+1.2	1,776	266,859	+3.5	5,865,528	+4
Rhode Island.....	1,151	92,695	-1.3	1,919,178	-2.0	431	76,331	-2.0	1,522,619	-3.0
Connecticut.....	2,369	197,569	+3	4,880,390	+2.0	726	162,752	+6	3,919,491	+2.6
Middle Atlantic.....	31,939	2,067,158	+7	54,789,496	+1.1	6,479	1,196,607	+7	31,188,248	+2.2
New York.....	20,274	932,969	+1.2	26,031,458	+2.5	2,596	437,270	+1.0	12,090,725	+5.4
New Jersey.....	3,938	348,430	+7	9,176,084	+1.6	1,621	280,969	+8	7,262,872	+1.8
Pennsylvania.....	7,727	785,759	-1.0	19,581,954	-1.0	2,262	478,368	+3	11,834,651	+1.4
East North Central.....	24,591	2,051,972	+8	55,472,307	+1.4	8,414	1,552,065	+6	42,758,078	+1.5
Ohio.....	6,743	514,135	+1.3	13,845,831	+2.2	2,372	394,601	+1.3	10,871,631	+2.4
Indiana.....	2,918	248,184	+1.2	6,286,125	+1.6	1,089	197,626	+1.8	5,140,364	+1.9
Illinois.....	46,915	589,617	+1.0	15,680,610	+1.9	2,442	387,725	+1.8	10,320,705	+5.4
Michigan.....	3,644	473,566	-3	13,922,751	+3	1,056	418,991	-8	12,480,831	-6
Wisconsin.....	4,871	226,470	+1.1	5,736,990	+6	1,455	153,122	+6	3,944,547	+7

See footnotes at end of table.

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

Geographic division and State	Total—all groups					Manufacturing				
	Number of establishments	Number on pay roll March 1939	Percentage change from February 1939	Amount of pay roll (1 week) March 1939	Percentage change from February 1939	Number of establishments	Number on pay roll March 1939	Percentage change from February 1939	Amount of pay roll (1 week) March 1939	Percentage change from February 1939
				<i>Dollars</i>					<i>Dollars</i>	
West North Central.	11,747	425,135	+0.8	10,398,212	+1.0	2,478	210,649	+0.2	5,110,685	+0.6
Minnesota.....	¹ 2,759	126,710	+2.0	5,556,422	+2.1	653	49,846	+1.6	1,304,864	+2.0
Iowa.....	1,830	58,567	+1.0	1,407,489	+3	357	34,240	+6	859,486	+2
Missouri.....	2,676	151,135	+8	3,561,020	+2	788	93,176	-6	2,103,309	-6
North Dakota.....	544	4,305	+1.4	101,769	-2.6	29	426	-5	11,348	+2.7
South Dakota.....	413	7,262	-6	189,689	-1.5	31	2,125	-3.7	50,521	-6.0
Nebraska.....	1,029	24,706	+9	563,058	+1.2	136	8,324	+2	208,640	+3.8
Kansas.....	² 2,496	58,450	¹⁰ -1	1,218,765	³ +2.0	484	22,512	+4	572,527	² +2.5
South Atlantic.	10,807	871,763	+1.5	16,638,885	+1.3	2,952	602,674	+1.7	10,555,588	+2.1
Delaware.....	242	15,310	+1.5	356,986	+2.9	84	10,900	+1.0	258,966	+2.6
Maryland.....	1,611	135,533	+2.1	3,226,177	+2.8	648	93,361	³ +2.3	2,241,532	³ +3.0
District of Columbia.....	1,059	39,819	+2.5	1,050,306	+1.6	43	3,403	-3	115,338	+1.4
Virginia.....	2,014	114,707	+1.5	2,125,716	+9	456	80,066	+1.9	1,425,922	+2.1
West Virginia.....	1,147	129,719	+3	3,179,452	+3	216	48,969	+1.1	1,227,154	+3.0
North Carolina.....	1,602	176,365	+1.5	2,636,426	+1.0	674	162,721	+1.7	2,395,115	+1.1
South Carolina.....	778	93,796	+3	1,337,223	+9	250	86,218	+1	1,198,569	+1.0
Georgia.....	1,422	118,409	+1.0	1,851,212	+3	397	93,987	+8	1,342,588	-2
Florida.....	932	50,300	+4.7	875,387	+3.7	184	23,049	+10.8	350,354	+11.6
East South Central.	4,238	282,298	+1.5	5,128,396	-8	1,017	181,590	+7	3,117,869	-2
Kentucky.....	1,305	75,312	-1.3	1,542,127	-2.5	277	31,529	+4	640,317	-1.2
Tennessee.....	1,235	98,937	-1.2	1,744,964	+4	366	73,345	+8	1,262,370	+4
Alabama.....	1,206	90,881	+1.1	1,585,878	-5	291	64,850	+5	1,050,293	-6
Mississippi.....	492	17,168	+1.1	253,427	-5	83	11,866	+1.2	164,889	+6
West South Central.	6,051	217,840	-2	4,800,924	-2	1,242	105,658	-1.3	2,258,055	-5
Arkansas.....	¹¹ 1,006	29,825	-5	608,063	-2	¹² 270	19,269	-2.3	315,622	+9
Louisiana.....	993	49,153	-8	941,929	-1	233	28,407	-1.2	520,658	-7
Oklahoma.....	1,299	37,452	+1	917,247	-4	134	10,066	+1.3	225,911	+1.7
Texas.....	² 2,753	101,410	+1	2,439,725	-2	605	47,916	-1.6	1,196,864	-1.1
Mountain.	4,123	113,260	+2	2,897,881	-4	554	30,157	+2	767,431	+1.2
Montana.....	617	16,070	-9	446,941	+1.3	74	4,275	-5.9	108,179	-4.3
Idaho.....	471	9,048	+1.8	221,244	+8	59	2,273	+5.4	49,102	+5
Wyoming.....	315	7,776	+2	220,790	-5	39	1,097	+1	37,000	-1
Colorado.....	1,316	38,556	+1.3	975,048	+2	195	13,367	+2.5	359,841	+4.7
New Mexico.....	280	6,271	+1.5	137,716	-4.7	28	697	+4.2	12,857	+4.3
Arizona.....	395	13,825	-2.1	368,482	-1.9	38	2,381	-8.8	56,110	-9.2
Utah.....	561	19,378	-2	457,887	-1.3	107	5,793	+1.1	137,231	+2.2
Nevada.....	168	2,336	+6	60,823	+4	14	274	+5.8	7,111	-2.4
Pacific.	10,444	444,367	+1.0	12,849,309	+1.5	2,658	+1.9	224,001	6,285,018	+2.9
Washington.....	2,540	82,498	+2.4	2,254,538	+3.0	544	47,636	+4.5	1,276,464	+5.8
Oregon.....	1,217	43,147	+2.9	1,140,323	+3.2	296	25,269	+4.0	650,323	+4.5
California.....	¹³ 6,687	318,722	+4	9,454,448	+9	1,818	151,096	+8	4,358,231	+1.8

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

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

³ Weighted percentage change.

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

⁵ Includes construction but not public works.

⁶ Does not include logging.

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

⁸ Less than 1/10 of 1 percent.

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 February and March 1939 is made in table 8 for 13 metropolitan areas which had a population of 500,000 or over in 1930. Cities within these areas, but having a population of 100,000 or over, are not included. Footnotes to the table indicate which cities are excluded. Data concerning them are presented 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 non-manufacturing 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 February and March 1939, by Principal Metropolitan Areas*

Metropolitan area	Number of establishments	Number on pay roll March	Percentage change from February	Amount of pay roll (1 week) March	Percentage change from February
New York ¹	14, 350	625, 867	+2.1	\$17, 283, 516	+2.5
Chicago ²	4, 475	415, 770	+ .6	11, 613, 602	+1.9
Philadelphia ³	2, 096	200, 184	+ .3	5, 434, 689	+1.4
Detroit.....	1, 533	302, 502	- .6	9, 443, 178	+ .8
Los Angeles ⁴	3, 012	149, 586	+ .3	4, 404, 369	+ .7
Cleveland.....	1, 583	108, 777	+ .9	3, 062, 796	+ .9
St. Louis.....	1, 415	112, 134	- .1	2, 773, 157	+ .4
Baltimore.....	1, 179	98, 995	+2.6	2, 426, 834	+3.1
Boston ⁵	1, 451	98, 624	+1.0	2, 642, 856	+2.7
Pittsburgh.....	1, 072	164, 729	- .2	4, 494, 783	+ .7
San Francisco ⁶	1, 626	79, 774	+1.7	2, 386, 020	+2.5
Buffalo.....	822	65, 042	- .9	1, 697, 887	- .5
Milwaukee.....	1, 006	96, 455	+2.3	2, 754, 699	+1.0

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

² Does not include Gary, Ind.

³ Does not include Camden, N. J.

⁴ Does not include Long Beach, Calif.

⁵ Figures relate to city of Boston only.

⁶ Does not include Oakland, Calif.

Public Employment

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

EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

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

TABLE 9.—Employment and Pay Rolls for the Executive Service of the United States Government, February and March 1939 ¹

[Subject to revision]

Class	Employment		Per-centage change	Pay rolls		Per-centage change
	March 1939	February 1939 ²		March 1939	February ² 1939	
Entire service:						
Total.....	878, 679	875, 541	+0.4	\$134, 626, 223	\$130, 231, 207	+3.4
Regular appropriation.....	729, 774	720, 969	+1.2	116, 172, 038	112, 731, 754	+3.1
Emergency appropriation.....	70, 942	72, 388	-2.0	8, 539, 927	8, 069, 459	+5.8
Force-account (regular and emergency).....	77, 963	82, 184	-5.1	9, 914, 258	9, 429, 994	+5.1
Inside the District of Columbia:						
Total.....	120, 861	120, 445	+ .3	21, 711, 379	21, 211, 797	+2.4
Regular appropriation.....	105, 822	105, 662	+ .2	19, 264, 608	18, 944, 005	+1.7
Emergency appropriation.....	9, 822	9, 822	0	1, 537, 255	1, 532, 594	+ .3
Force-account (regular and emergency).....	5, 217	4, 961	+5.2	909, 516	735, 198	+23.7
Outside the District of Columbia:						
Total.....	757, 818	755, 096	+ .4	112, 914, 844	109, 019, 410	+3.6
Regular appropriation.....	623, 952	615, 307	+1.4	96, 907, 430	93, 787, 749	+3.3
Emergency appropriation.....	61, 120	62, 566	-2.3	7, 002, 672	6, 536, 865	+7.1
Force-account (regular and emergency).....	72, 746	77, 223	-5.8	9, 004, 742	8, 694, 796	+3.6

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

² Revised.

INSOLVENT NATIONAL BANK DIVISION OF THE TREASURY DEPARTMENT, FEDERAL RESERVE BANKS, AND GOVERNMENT OR GOVERNMENT-OWNED CORPORATIONS

Semiannually the Civil Service Commission collects data for the Insolvent National Bank Division of the Treasury Department, Federal Reserve Banks, and Government or Government-owned corporations. Employment and pay rolls for these agencies are shown in table 10.

TABLE 10.—Employment and Pay Rolls in the Insolvent National Bank Division of the Treasury Department, Federal Reserve Banks, and Government or Government-Owned Corporations ¹

Establishment	Number of employees ²		Total pay roll	
	Dec. 31, 1938	June 30, 1938	6-month period ending Dec. 31, 1938	6-month period ending June 30, 1938
All establishments.....	24, 730	24, 962	\$20, 968, 073	\$20, 604, 746.
Treasury: Office of the Comptroller of the Currency, Division of Insolvent National Banks.....	377	399	444, 362	488, 254
Farm Credit Administration:				
Bank for cooperatives.....	198	199	274, 585	274, 878
Federal intermediate credit banks.....	443	453	536, 563	536, 085
Federal land banks ³	5, 053	5, 213	4, 615, 243	4, 646, 707
General agents' offices.....	415	424	518, 665	504, 869
Joint stock land banks.....	610	663	723, 424	762, 025
Production credit corporations.....	294	288	419, 590	409, 975
Federal Reserve Banks.....	10, 919	10, 803	9, 722, 718	9, 374, 066
Inland Waterways Corporation.....	2, 744	2, 995	1, 807, 560	1, 723, 257
Panama Railroad Co. ⁴	3, 672	3, 521	1, 896, 453	1, 875, 840
Spruce Production Corporation.....	5	4	8, 910	8, 790

¹ Employees of these agencies are not paid directly by the Federal Government.

² Data on number of employees refer to employees on pay roll with pay during the last pay-roll period of the month.

³ Includes land-bank appraisers.

⁴ Includes the Panama Railroad Steamship Line, which is owned and operated by the Panama Railroad Co.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

Details concerning employment, pay rolls, and man-hours worked during March on construction projects financed by Public Works Administration funds are given in table 11, by type of project.

TABLE 11.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, March 1939 ¹

[Subject to revision]

Type of project	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ²	Weekly average				
	Federal projects financed from National Industrial Recovery Act funds					
All projects.....	³ 2, 566	2, 419	\$197, 592	304, 672	\$0. 649	\$165, 171
Building construction.....	128	106	14, 112	12, 332	1. 144	4, 670
Naval vessels.....	46	46	8, 513	8, 495	1. 002	58, 092
Public roads ⁴	(⁵) 1, 413	1, 413	108, 328	185, 226	. 585	66, 000
Reclamation.....	404	375	50, 070	59, 057	. 848	22, 176
River, harbor, and flood control.....	173	173	3, 098	4, 041	. 767	275
Streets and roads.....	9	6	279	262	1. 065	0
Water and sewerage.....	378	285	12, 393	33, 784	. 367	13, 572
Miscellaneous.....	15	15	799	1, 475	. 542	386

See footnotes at end of table.

TABLE 11.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, March 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.....	34,463	29,431	\$3,159,093	3,559,644	\$0.887	\$4,496,608
Airport construction (exclusive of buildings).....	419	410	41,199	69,355	.594	35,947
Building construction.....	21,766	18,459	1,790,483	1,987,090	.901	3,510,343
Electrification.....	600	588	47,505	70,219	.677	281,628
Reclamation.....	7,813	6,682	934,980	1,011,749	.924	334,322
River, harbor, and flood control.....	530	451	66,342	66,822	.993	53,990
Ship construction.....	1,019	836	63,297	76,191	.831	122,667
Streets and roads.....	220	169	13,028	16,111	.809	16,340
Water and sewerage.....	339	313	23,955	29,908	.801	45,593
Miscellaneous.....	808	706	59,995	87,813	.683	87,032
Professional, technical, and clerical.....	949	817	118,309	144,386	.819	8,746
Non-Federal projects financed from National Industrial Recovery Act funds						
All projects ¹	4,900	4,254	\$687,513	407,609	\$1.687	\$392,023
Building construction ²	3,281	2,983	583,553	291,810	2.000	198,036
Railroad construction.....	6	6	18	40	.450	0
Streets and roads.....	396	324	9,293	15,972	.582	28,860
Water and sewerage.....	578	460	62,211	43,998	1.414	96,659
Miscellaneous.....	639	481	32,438	55,789	.581	68,468
Projects financed from Emergency Relief Appropriation Act 1935, 1936, and 1937 funds ³						
All projects.....	25,672	21,745	\$2,208,700	2,497,918	\$0.884	\$3,668,720
Building construction.....	15,033	12,529	1,277,019	1,354,764	.943	2,377,714
Electrification.....	1,109	882	63,555	90,502	.702	164,692
Heavy engineering.....	3,640	3,065	321,970	410,138	.785	421,883
Reclamation.....	1,058	972	86,128	129,035	.667	103,050
Streets and roads.....	592	495	35,747	60,320	.593	70,995
Water and sewerage.....	4,226	3,794	424,019	452,678	.937	530,158
Miscellaneous.....	14	8	262	481	.545	228
Non-Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	154,460	125,549	\$10,124,309	12,288,044	\$0.824	\$22,045,658
Building construction.....	106,293	86,207	6,822,154	7,863,757	.868	14,729,008
Electrification.....	1,506	1,195	80,450	116,035	.693	440,813
Heavy engineering.....	4,755	4,032	530,066	524,282	1.011	1,067,476
Reclamation.....	829	626	42,306	66,407	.637	102,856
River, harbor, and flood control.....	533	468	44,686	57,014	.784	189,896
Streets and roads.....	16,064	12,636	937,860	1,353,932	.693	1,858,618
Water and sewerage.....	23,588	19,568	1,594,467	2,215,597	.720	3,584,664
Miscellaneous.....	892	817	72,320	91,020	.795	72,327

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

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

³ Includes weekly average for public roads.

⁴ Under the jurisdiction of the Bureau of Public Roads.

⁵ Not available; weekly average included in total for all projects.

⁶ Includes data for workers engaged in construction of underground tunnel who, because of the additional risk involved, were paid at rates higher than those usually paid for building construction.

⁷ These data are also included in separate tables covering projects financed by The Works Program.

Construction projects financed by the Public Works Administration are those projects authorized by title II of the National Industrial Recovery Act of June 16, 1933. This program of public works was extended to June 30, 1937, by the Emergency Relief Appropriation Act of 1935 and title II of the First Deficiency Appropriation Act of 1936. The First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936, reappropriated unobligated funds originally made available under the Emergency Relief Appropriation Act of 1935 and authorized the use of \$300,000,000 from funds on hand or received from the sale of securities. The Public Works Administration was continued until July 1, 1939, by the Public Works Administration Extension Act of 1937 and the Public Works Administration Appropriation Act of 1938 further continued the program to June 30, 1941.

Federal construction projects for which data are included in table 11 are financed by allotments made by the Public Works Administration to the various agencies and departments of the Federal Government from funds provided under the National Industrial Recovery Act. The major portion of the low-cost housing program of the Public Works Administration, however, was financed by funds provided under the Emergency Relief Appropriation Act of 1935. Federal construction projects are also financed by allotments from funds provided under the Public Works Administration Appropriation Act of 1938. The work is performed either by commercial firms which have been awarded contracts, or by day labor hired directly by the Federal agencies.

Non-Federal projects are financed by allotments made by the Public Works Administration from funds available under either the National Industrial Recovery Act, the Emergency Relief Appropriation Act of 1935, the First Deficiency Appropriation Act of 1936, the Public Works Administration Extension Act of 1937, or the Public Works Administration Appropriation Act of 1938. Most of the allotments have been made to the States and their political subdivisions, but occasionally allotments have been made to commercial firms. In financing projects for the States or their political subdivisions from funds appropriated under the National Industrial Recovery Act, the Public Works Administration makes a direct grant of not more than 30 percent of the total labor and material cost. When funds provided under the Emergency Relief Appropriation Act of 1935, the First Deficiency Appropriation Act of 1936, the Public Works Administration Extension Act of 1937, or the Public Works Administration Appropriation Act of 1938 are used to finance a non-Federal project, as much as 45 percent of the total cost may be furnished in the form of a grant. The remaining 55 percent or more of the cost is financed by the recipient. When circumstances justify such action, the Public Works

Administration may provide the grantee with the additional funds by means of a loan. Allotments to commercial enterprises are made only as loans. All loans made by the Public Works Administration carry interest charges and have a definite date of maturity. Collateral posted with the Public Works Administration to secure loans may be offered for sale to the public. In this way a revolving fund is provided which enlarges the scope of the activities of the Public Works Administration.

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

UNITED STATES HOUSING AUTHORITY

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

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

Data on projects of the United States Housing Authority for March 1939 are shown in table 12. These figures pertain only to new projects under the United States Housing Authority and not to those formerly under the Public Works Administration.

TABLE 12.—Employment and Pay Rolls on Low-Cost Housing Projects Operated by the United States Housing Authority, March 1939 ¹

[Subject to revision]

Geographic division	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed
	Maximum number employed ²	Weekly average				
Five divisions.....	4, 293	3, 772	\$467, 860	382, 957	\$1. 222	\$915, 552
Middle Atlantic.....	3, 227	2, 924	399, 086	292, 042	1. 367	550, 413
East North Central.....	220	151	14, 452	13, 249	1. 091	185, 049
South Atlantic.....	434	372	32, 695	47, 327	. 691	136, 070
East South Central.....	172	127	7, 662	11, 098	. 690	18, 854
West South Central.....	240	198	13, 965	19, 241	. 726	25, 166

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

² Maximum employed during any 1 week of the month.

THE WORKS PROGRAM

By authority of Public Resolution No. 11, Seventy-fourth Congress, approved April 8, 1935, the President, in a series of Executive orders, inaugurated a broad program of work to be carried out by 61 units of the Federal Government. The Works Program was continued by title II of the First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936, and was further continued by the Emergency Relief Appropriation Act of 1937. The Emergency Relief Appropriation Act of 1938 extended this program to June 30, 1939. Employment created by this program includes employment on Federal projects and employment on projects operated by the Works Progress Administration. Federal projects are those conducted by Federal agencies which have received allotments from The Works Program fund. Projects operated by the Works Progress Administration are those projects conducted under the supervision of the Works Progress Administration with the cooperation of States, cities, or counties.

A record of employment, pay rolls, and man-hours worked on projects financed by The Works Program in March is shown in table 13, by type of project.

TABLE 13.—*Employment and Pay Rolls on Projects Financed by The Works Program, March 1939*¹

[Subject to revision]

Type of project	Wage earners		Monthly pay-roll disbursement	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed	Weekly average				
Federal projects						
All projects.....	2 116,721	107,975	\$5,171,042	11,592,125	\$0.446	\$1,017,740
Building construction.....	43,196	39,556	2,084,090	3,921,410	.531	298,062
Electrification.....	274	245	13,720	34,469	.398	3,000
Forestry ³	9,817	8,875	413,853	969,828	.427	60,334
Grade-crossing elimination ⁴	791	667	31,692	59,895	.529	103,002
Hydroelectric power plants ⁵	1,676	1,612	55,270	246,403	.224	74,020
Plant, crop, and livestock conservation ⁶	11,245	10,158	546,643	1,396,710	.391	38,412
Professional, technical, and clerical.....	5,411	5,173	386,009	574,471	.672	20,482
Public roads ⁴	751	637	45,478	77,624	.586	29,714
Reclamation.....	27,563	26,148	1,142,223	2,718,025	.420	247,520
River, harbor, and flood control.....	545	449	31,690	50,072	.633	5,460
Streets and roads.....	3,619	3,388	91,678	250,267	.366	35,450
Water and sewerage.....	948	860	27,132	81,254	.334	15,533
Miscellaneous.....	10,885	10,207	301,564	1,211,697	.249	86,751
P. W. A. projects financed from Emergency Relief Appropriation Act funds of 1935, 1936, and 1937 ⁶						
All projects.....	2 25,672	21,745	\$2,208,700	2,497,918	\$0.884	\$3,668,720
Building construction.....	15,033	12,529	1,277,019	1,354,764	.943	2,377,714
Electrification.....	1,109	882	63,555	90,502	.702	164,692
Heavy engineering.....	3,640	3,065	321,970	410,138	.785	421,883
Reclamation.....	1,058	972	86,128	129,035	.667	103,050
Streets and roads.....	592	495	35,747	60,320	.593	70,995
Water and sewerage.....	4,226	3,794	424,019	452,678	.937	530,158
Miscellaneous.....	14	8	262	481	.545	228
Projects operated by Works Progress Administration ⁷						
All projects.....	2 2,915,589	-----	\$156,871,041	313,646,827	\$0.500	(⁹)

¹ Unless otherwise noted data are for the month ending on the 15th.

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

³ The data for the Bureau of Entomology and Plant Quarantine, under plant, crop, and livestock conservation, and the Bureau of Forest Service, under forestry, are for the calendar month.

⁴ These data are for projects under the jurisdiction of the Bureau of Public Roads.

⁵ These data for projects under construction in Puerto Rico.

⁶ Includes data for 25,667 employees working on non-Federal projects. These data are included in separate tables covering projects under the jurisdiction of the Public Works Administration.

⁷ Data are for the calendar month. Not available by type of project.

⁸ Represents number of names on pay roll for week ending Mar. 25, 1939.

⁹ Data on a monthly basis are not available.

Employment, pay rolls, and man-hours worked on work projects of the National Youth Administration from the beginning of the program in January 1936 to March 1939, inclusive, are shown in table 14. Similar data for Student Aid are shown from September 1935, the starting date, to February 1939, inclusive.

**TABLE 14.—Employment and Pay Rolls on National Youth Administration Projects
Financed by The Works Program, September 1935, through March 1939 ¹**

[Subject to revision]

Year and month	Number of persons employed	Pay-roll disburse- ments	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Work projects					
January 1936 to March 1939, inclusive.....		\$116,346,067	319,597,763	\$0.364	² \$13,860,237
January to December 1936.....		28,883,589	75,827,799	.381	
January to December 1937 ³		32,663,342	87,242,108	.374	
January to December 1938 ³		41,558,174	117,910,943	.352	
January 1939 ³	237,468	4,346,711	12,637,013	.344	
February 1939.....	241,623	4,456,772	13,061,419	.341	
March 1939.....	234,918	4,437,479	12,918,481	.343	
Student Aid					
September 1935 to February 1939, inclusive.....		\$81,005,132	274,285,262	\$0.295	(⁴)
September to December 1935.....		6,363,503	19,612,976	.324	
January to December 1936 ³		25,914,836	85,517,290	.303	
January to December 1937 ³		24,368,503	83,874,409	.291	
January to December 1938 ³		19,681,126	68,750,836	.286	
January 1939 ³	370,183	2,252,755	7,952,452	.283	
February 1939.....	376,209	2,424,409	8,577,299	.283	

¹ Data are for a calendar month.

² Data on a monthly basis are not available. This total represents expenditures through Dec. 31, 1938, and includes rentals and services and some sponsors' contributions.

³ Revised.

⁴ No expenditures for materials on this type of project.

CIVILIAN CONSERVATION CORPS

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

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

Employment and pay rolls in the Civilian Conservation Corps in February and March 1939 are presented in table 15.

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

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	March 1939	February 1939	March 1939	February 1939
All groups.....	314, 990	337, 191	\$14, 205, 352	\$14, 789, 353
Enrolled personnel ²	278, 426	300, 809	8, 701, 281	9, 383, 838
Reserve officers.....	4, 961	5, 021	1, 298, 893	1, 279, 619
Nurses ³	303	309	32, 135	31, 989
Educational advisers ³	1, 597	1, 592	268, 505	266, 200
Supervisory and technical ³	29, 703	29, 460	3, 904, 538	3, 827, 707

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

² March data include 3,962 enrollees and pay roll of \$95,307 outside continental United States; in February the corresponding figures were 4,009 enrollees and pay roll of \$90,685.

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 March 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, March 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, 133	\$244, 675	281, 435	\$0. 869	\$523, 770
Building construction ³	1, 222	95, 246	117, 444	. 811	416, 953
Water and sewerage.....	911	149, 429	163, 991	. 911	106, 817

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 186 employees, pay-roll disbursements of \$11,116, 16,634 man-hours worked, and material orders placed of \$9,738 on projects financed by the RFC Mortgage Co.

CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

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

different types of materials for which orders were placed during the month.

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during March 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, March 1939 ¹

[Subject to revision]

Type of project	Number of wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum ² number employed	Weekly average				
All projects.....	³ 171,130	160,304	\$18,282,989	24,237,402	\$0.754	\$32,195,896
Building construction.....	14,832	12,373	1,315,728	1,376,138	.956	2,313,164
Electrification:						
Rural Electrification Administration projects ⁴	8,501	7,199	432,986	858,990	.504	2,613,321
Other than R. E. A. projects.....	136	85	6,209	7,552	.822	8,945
Forestry.....	21	20	1,307	2,383	.548	1,070
Heavy engineering.....	276	239	24,101	20,315	1.186	28,307
Public roads ⁵	(⁶) 38,353	38,353	3,503,093	6,072,566	.577	5,854,057
Reclamation.....	12,007	11,407	1,451,365	1,638,740	.886	4,412,413
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	26,483	23,258	2,488,011	3,741,596	.665	2,288,414
Locks and dams.....	7,712	6,902	881,815	1,149,032	.767	1,624,854
Ship construction:						
Naval vessels.....	48,988	47,978	7,049,285	7,885,358	.894	9,268,719
Other than naval vessels.....	9,753	8,789	882,159	1,053,471	.837	3,279,127
Streets and roads.....	2,676	2,496	158,149	294,818	.536	335,511
Water and sewerage.....	369	327	22,973	46,812	.491	63,851
Miscellaneous.....	1,023	878	65,808	89,631	.734	104,143

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

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

³ Includes weekly average for public-road projects.

⁴ Financed by Rural Electrification Administration loans.

⁵ Under the jurisdiction of the Bureau of Public Roads.

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 March 1939 compared with February 1939 and March 1938 is presented in table 18.

TABLE 18.—Employment and Pay Rolls on Construction and Maintenance of State Roads, March 1939, February 1939, and March 1938 ¹

[Subject to revision]

Item	Number of employees ²			Pay-roll disbursements		
	March 1939	February 1939	March 1938	March 1939	February 1939	March 1938
Total.....	127,459	145,096	128,191	\$9,184,740	\$10,113,396	\$8,504,260
New roads.....	16,292	21,027	11,379	1,091,070	1,465,050	678,180
Maintenance.....	111,167	124,069	116,812	8,093,670	8,648,346	7,826,080

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 first quarter of 1939 is presented in table 19.

In the first quarter of 1939 on the Public Works Administration program, orders were placed for materials valued at approximately \$102,019,000. Of this amount \$40,237,000 was expended for iron and steel products, \$14,425,000 for machinery, \$11,898,000 for forest products, and \$10,180,000 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 that have been, or will be, 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 the 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 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, 1935.

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

TABLE 19.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1939*¹

[Subject to revision]

Type of material	Projects				
	Public Works Administration ²	U. S. H. A. low-cost housing	Reconstruction Finance Corporation ³	Regular Federal	Federal construction under The Works Program
All materials.....	\$102,018,564	\$3,090,065	\$1,857,299	\$91,210,597	\$3,320,704
Textiles and their products.....	162,374	1,006	292	100,445	9,372
Awnings, tents, canvas, etc.....	27,029			33,185	2,359
Carpets and rugs.....	6,425			3,837	
Cordage and twine.....	11,103	331		24,342	776
Cotton products.....	2,895			353	160
Felt products.....	11,241			12	124
Jute products.....	10,052			778	352
Linoleum and asphalted-felt-base floor covering.....	77,786	675		18,580	622
Sacks and bags, other than paper.....	487			1,743	97
Waste and related products.....	2,410			6,083	297
Textiles and their products, n. e. c.....	12,946		292	11,532	4,685
Forest products.....	11,897,500	307,190	131,682	3,041,441	310,169
Cork products.....	46,441		12,500	11,814	
Furniture and related products.....	1,199,881	5,140	9,355	93,016	4,606
Lumber and timber products, n. e. c.....	6,684,100	156,473	103,914	2,608,036	249,943
Planing-mill products.....	3,914,532	145,577	5,913	301,281	54,531
Window and door screens and weather strip.....	17,479			1,173	
Forest products, n. e. c.....	35,067			26,121	1,089
Chemicals and allied products.....	872,613	8,335	128,650	612,017	131,387
Compressed and liquefied gases.....	23,919		4,785	18,457	5,149
Explosives.....	322,150	403	30,835	366,163	45,388
Paints, pigments, and varnishes.....	505,206	1,998	92,895	184,839	36,781
Chemicals and allied products, n. e. c.....	21,338	5,934	135	42,558	44,069
Stone, clay, and glass products.....	27,301,556	1,239,783	227,437	15,478,689	949,000
Asbestos products, n. e. c.....	183,382			711	2,592
Brick, hollow tile, and other clay products, n. e. c.....	6,856,690	286,975	11,945	324,524	33,152
Cement.....	5,439,820	750,785	119,939	7,043,992	663,015
Concrete products.....	4,739,835	148,416	18,262	571,472	57,604
Crushed stone.....	1,424,636		565	1,518,607	48,218
Glass.....	402,528		2,938	1,047,881	2,838
Lime.....	59,739	8,230	111	3,449	849
Marble, granite, slate, and other stone, cut and shaped.....	2,462,798	14,344	6,647	362,275	5,586
Minerals and earths, ground or otherwise treated.....	13,547			8,938	481
Sand and gravel.....	3,271,214	24,173	54,496	4,164,484	91,153
Steam and other packing, pipe and boiler covering, and gaskets.....	178,690	575	368	63,334	13,495
Tiling, floor and wall, and terrazzo.....	866,099	1,383	5,180	119,377	5,041
Wall plaster, wallboard, and building insulation.....	1,254,408	3,751	6,807	220,361	21,846
Stone, clay, and glass products, n. e. c.....	148,080	1,151	179	29,284	3,130
Iron and steel and their products, not including machinery.....	40,236,600	923,608	374,170	17,447,392	760,093
Bolts, nuts, washers, and rivets.....	274,750	164	19,137	334,617	13,284
Doors, shutters, window sash and frames, molding and trim, metal.....	2,333,736	218,252	9,206	828,483	31,111
Forgings, iron and steel.....	523,756		26,710	1,354,319	7,478
Hardware, miscellaneous.....	1,642,434	43,269	18,161	368,278	66,595
Heating and ventilating equipment, except pipe.....	4,564,793	80,557	32,015	719,565	16,187
Nails and spikes.....	268,340	258	2,633	49,996	14,790
Pipe and fittings, cast-iron.....	4,279,333	79,943	10,903	438,389	37,254
Pipe and fittings, wrought-iron and steel.....	2,427,141	54,160	10,067	863,763	51,918
Plumbing fixtures and supplies, except pipe.....	2,720,992	69,862	19,867	417,240	49,085
Rail fastenings, except spikes.....	3,721				163

See footnotes at end of table.

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

Type of material	Projects				
	Public Works Administration	U. S. H. A. low-cost housing	Reconstruction Finance Corporation	Regular Federal	Federal construction under The Works Program
Iron and steel and their products—Contd.					
Rails, steel.....	\$93,889			\$2,780	\$480
Springs, steel.....	17				7,922
Steel, reinforcing.....	5,153,360	\$258,219	\$9,736	1,846,831	143,688
Steel, structural.....	11,070,057	52,408	88,653	6,643,229	178,429
Stoves and ranges, other than electric.....	16,171			871	377
Switches, railway.....	2,218				
Tools, other than machine tools.....	284,186	2,994	12,138	203,076	77,174
Wire and wireworks products.....	530,239	266	1,868	592,670	46,244
Iron and steel and their products, n. e. c.....	4,047,467	63,256	113,076	2,783,285	17,914
Nonferrous metals and their products.....	1,449,517	101,757	10,258	2,498,757	22,883
Aluminum products.....	23,008		165	107,106	9
Copper products.....	402,465		3,566	182,632	8,022
Lead products.....	37,690			2,248	203
Sheet-metal products.....	882,214	1,470	5,911	2,005,041	12,054
Zinc products.....	467			3,743	
Nonferrous metals and their products, n. e. c.....	103,673	100,287	616	197,986	2,595
Machinery, not including transportation equipment.....	14,425,103	172,725	800,933	42,348,612	362,879
Electrical machinery, apparatus, and supplies.....	3,105,691	45,350	323,793	10,746,166	75,317
Electrical wiring and fixtures.....	4,647,069	64,603	10,325	4,567,926	51,928
Elevators and elevator equipment.....	551,341	10,859	7,060	476,183	168
Engines, turbines, tractors, and water wheels.....	913,628		59,125	11,564,375	67,019
Machine tools.....	173,688	286	2,076	343,286	9,720
Meters (gas, water, etc.) and gas generators.....	51,349				392
Pumps and pumping equipment.....	2,051,478	8,599	880	1,957,405	20,739
Radio apparatus and supplies.....	12,187			5,148	15
Refrigerators and refrigerating and ice-making apparatus.....	36,551	26,288		48,961	531
Machinery, n. e. c.....	2,882,121	16,740	397,674	12,640,162	137,050
Transportation equipment—air, land, and water.....	718,143		1,835	222,709	168,300
Aircraft parts.....	254				
Boats, steel and wooden.....	12,286			59,725	957
Carriages and wagons.....	1,674			179	280
Locomotives, other than steam.....	1,521				
Motor vehicles, passenger.....	5,971			71,929	2,047
Motor vehicles, trucks.....	235,984		1,835	68,958	71,391
Transportation equipment, n. e. c.....	460,453			21,918	93,625
Miscellaneous.....	4,955,158	335,661	182,042	9,460,535	606,621
Belting, miscellaneous.....	308			109	34
Coal and coke.....	190,426	3,821	563	122,864	8,566
Creosote.....	391			113	172
Instruments, professional and scientific.....	40,742	93	4,672	133,957	2,219
Mattresses and bed springs.....	7,543				241
Models and patterns.....	1,988			3,720	
Paper products.....	18,551	877	80	12,510	503
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	691,627		8,783	909,855	20,909
Petroleum products.....	1,263,910	11,634	17,888	2,865,723	191,718
Photographic apparatus and supplies.....	11,342			16,053	2,048
Roofing: Built-up and roll, asphalt shingles and roof coatings, except paint.....	727,466	6,600	7,317	75,747	55,376
Rubber products.....	74,158	185	6,474	52,151	8,823
Theatrical scenery and stage equipment.....	20,534				80
Window shades and fixtures.....	12,506			1,201	91
Other materials.....	1,893,666	312,451	136,265	5,266,532	315,841

¹ This table includes certain items which are not actually construction materials, i. e., fuel, transportation equipment, tools, furniture, etc. Data for projects operated by W. P. A. are not available.

² 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-cost housing projects from N. I. R. A. and E. R. A. A. 1935 funds are also included.

³ Includes projects financed by RFC Mortgage Co.

Table 20 shows the value of material orders placed on construction projects financed by Federal funds during the fourth quarter of 1938, by type of project.

TABLE 20.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1938 ¹

[Subject to revision]

Type of material	Total	Projects					
		Public Works Administration ²	U. S. H. A. low-cost housing	Reconstruction Finance Corporation ³	Regular Federal	Federal construction under The Works Program	Operated by W. P. A.
All materials.....	\$280,719,570	\$91,329,283	\$792,886	\$1,392,913	\$95,773,006	\$3,748,806	\$87,677,676
Textiles and their products.....	1,710,237	135,794	1,837	500	70,433	5,404	1,496,269
Forest products.....	24,143,749	9,417,717	72,019	71,383	3,913,525	411,828	10,257,277
Chemicals and allied products.....	4,759,689	767,762	2,748	32,555	811,208	97,815	3,047,801
Paints and varnishes.....	2,270,265	486,456	1,147	4,036	221,381	29,870	1,527,375
Other chemicals.....	2,489,424	281,306	1,601	28,519	589,827	67,945	1,520,226
Stone, clay, and glass products.....	87,102,899	27,215,255	183,191	189,908	25,947,771	1,168,792	32,397,982
Brick, hollow tile, and other clay products.....	9,273,492	4,893,463	18,832	15,017	435,529	53,685	3,856,966
Cement.....	26,219,266	5,493,585	9,500	81,214	11,467,895	673,586	8,493,486
Concrete products.....	14,173,903	8,060,008	142,186	28,325	1,254,970	84,968	4,603,446
Crushed stone.....	11,374,203	937,656	-----	18,052	4,464,650	103,682	5,850,163
Sand and gravel.....	17,129,802	3,251,187	7,145	38,104	6,906,209	159,963	6,767,194
Other stone, clay, and glass products.....	8,932,233	4,579,356	5,528	9,196	1,418,518	92,908	2,826,727
Iron and steel and their products, not including machinery.....	62,346,625	29,427,900	347,634	557,886	14,796,321	767,017	16,449,867
Heating and ventilating equipment.....	6,044,952	4,372,550	38,873	35,554	671,757	23,676	902,542
Pipe and fittings, cast-iron.....	7,586,939	3,342,224	61,671	6,187	462,800	88,419	3,625,638
Plumbing supplies, n. e. c.....	4,800,264	2,768,917	8,780	30,524	634,444	76,908	1,280,691
Structural and reinforcing steel.....	19,831,142	9,494,534	39,201	35,865	6,913,652	275,059	3,072,831
Tools, other than machine tools.....	1,739,077	32,700	2,307	1,013	20,940	45,959	1,636,158
Other products of iron and steel.....	22,344,251	9,416,975	196,802	448,743	6,092,728	256,996	5,932,007
Nonferrous metals and their products.....	1,487,997	489,478	6,662	8,191	416,842	57,962	508,882
Machinery, not including transportation equipment.....	54,977,758	13,726,567	27,814	368,057	35,974,982	415,828	4,464,510
Electrical machinery, apparatus, and supplies.....	21,565,460	7,082,580	18,040	29,337	12,808,783	122,241	1,504,479
Foundry and machine-shop products, n. e. c.....	18,739,346	3,741,832	7,302	338,281	12,956,151	194,639	1,501,141
Other machinery.....	14,672,952	2,902,155	2,472	439	10,210,048	98,948	1,458,890
Transportation equipment—air, land, and water.....	2,274,771	337,911	411	-----	501,989	20,556	1,413,904
Motor vehicles, trucks.....	1,722,006	133,444	-----	-----	154,920	19,738	1,413,904
Other transportation equipment.....	552,765	204,467	411	-----	347,069	818	-----
Miscellaneous.....	41,915,845	9,810,899	150,570	164,433	13,344,935	803,604	17,641,404
Coal.....	449,028	21,881	1,845	32	154,845	3,441	266,984
Paving materials and mixtures.....	11,417,040	972,603	-----	-----	1,933,621	81,484	8,429,332
Petroleum products.....	8,651,883	1,222,168	8,548	38,886	4,757,794	246,150	2,378,337
Rubber goods.....	476,070	77,645	353	6,729	57,438	7,609	326,296
Other materials.....	20,921,824	7,516,602	139,824	118,786	6,441,237	464,920	6,240,455

¹ This table includes certain items which are not actually construction materials, i. e., fuel, transportation equipment, tools, furniture, etc.

² 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. 1938 funds. Data on low-cost housing projects financed from N. I. R. A. and E. R. A. A. 1935 funds are also included.

³ Includes projects financed by RFC Mortgage Co.

The value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, by type of material, for the first quarter of 1939, the fourth quarter of 1938, and the first quarter of 1938 is shown in table 21.

TABLE 21.—*Value of Material Orders Placed on Federal Professional, Technical, and Clerical Projects Financed by The Works Program*

[Subject to revision]

Type of material	First quarter of 1939	Fourth quarter of 1938	First quarter of 1938
All materials.....	\$56,056	\$41,914	\$171,047
Computing machines.....	3,581		401
Furniture.....	8,949	2,155	2,640
Office supplies.....	15,020	5,083	10,877
Stationery.....	181	356	2,219
Typewriters.....	2,004	263	562
Other office machines.....	1,649	95	1,431
Other materials.....	21,600	29,790	135,278
Rental of machinery and equipment.....	3,072	4,142	17,639

Rentals and services on projects operated by the Works Progress Administration for the fourth quarter of 1938, the third quarter of 1938, and the fourth quarter of 1937 are shown in table 22, by type of rental and service.

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

[Subject to revision]

Type of rental and service	Fourth quarter of 1938 ¹	Third quarter of 1938 ²	Fourth quarter of 1937 ³
All rentals and services.....	\$65,318,550	\$56,254,967	\$44,151,434
Motor vehicles.....	30,733,795	26,148,930	19,999,770
Teams and wagons.....	916,090	850,600	1,149,911
Paving, road building, and construction equipment.....	21,503,792	19,704,116	15,649,200
Other equipment (including office equipment).....	1,566,397	1,340,827	764,806
Space rentals and services.....	4,916,736	3,822,545	2,658,342
Other services (including utilities).....	5,681,740	4,387,949	3,929,405

¹ Quarterly period ending Dec. 31, 1938.

² Quarterly period ending Sept. 30, 1938.

³ Quarterly period ending Dec. 31, 1937.

Table 23 shows rentals and services on work projects of the National Youth Administration for the fourth quarter of 1938, the third quarter of 1938, and the fourth quarter of 1937.

TABLE 23.—*Rentals and Services on Work Projects of National Youth Administration*

[Subject to revision]

Type of rental and service	Fourth quarter of 1938 ¹	Third quarter of 1938 ²	Fourth quarter of 1937 ³
All rentals and services.....	\$607,598	\$493,026	\$683,127
Motor vehicles.....	153,424	108,701	84,346
Teams and wagons.....	5,890	3,979	5,104
Paving, road building, and construction equipment.....	45,131	40,984	56,201
Other equipment (including office equipment).....	97,308	110,245	91,934
Space rentals and services.....	180,946	148,700	330,510
Other services (including utilities).....	124,899	80,417	115,032

¹ Quarterly period ending Dec. 31, 1938.

² Quarterly period ending Sept 30, 1938.

³ Quarterly period ending Dec. 31, 1937.

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 materials during the first quarter of 1939, the fourth quarter of 1938, and the first 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		
	First quarter, 1939 ¹	Fourth quarter, 1938 ²	First quarter, 1938 ³
All materials.....	\$22,807,506	\$82,417,553	\$59,587,602
Food and kindred products.....	1,081,776	2,118,058	1,440,281
Canned fruits and vegetables.....	60,616	379,518	70,646
Canned sea foods.....		68,378	
Cereal preparations.....		10,373	15,483
Coffee and tea.....	304,798	243,278	140,322
Condensed and evaporated milk.....	68,233	37,083	117,140
Feeds, prepared, for animals and fowls.....	93,464	125,602	279,675
Flour and other grain-mill products.....	63,614	139,799	177,915
Meat-packing products.....	163,651	392,238	104,637
Shortening and vegetable cooking oil.....		123,851	
Sugar.....	112,611	283,411	209,154
Miscellaneous subsistence stores and supplies.....	214,789	314,527	325,309
Textiles and their products.....	1,756,737	4,750,819	5,941,743
Canvas bags and covers.....		12,330	175,821
Clothing (overcoats, suits, trousers, etc.).....		45,591	359,103
Clothing, manufacture only ⁴		85,220	655,585
Cordage and twine, including thread.....		37,360	39,785
Cotton gloves.....			
Cotton goods (drills, prints, sheeting, etc.).....	556,414	1,747,143	1,063,160
Cotton shirts.....			
Furnishing goods, men's, n. e. c.....	46,021	76,110	355,397
Housefurnishing goods (pillow cases, sheets, etc.).....	108,350	128,428	120,068
Knit goods (hosiery, underwear, etc.).....	11,136	60,778	962,271
Linoleum.....		75,258	
Woolen goods (flannels, suiting, etc.).....	457,175	1,990,727	962,099
Work clothing.....	60,060	165,076	602,334
Miscellaneous textile products.....	517,581	326,798	646,120
Forest products.....	176,604	652,526	558,012
Cork and cork products.....			74,525
Furniture.....		283,303	30,617
Lumber and timber products, n. e. c.....	156,184	203,517	322,010
Planing-mill products.....	20,420	89,854	
Treated lumber and timber.....		75,852	52,431
Miscellaneous forest products.....			78,429
Chemicals and allied products.....	2,166,330	3,688,473	1,624,072
Ammunition and related products.....	139,931	10,856	407,664
Compressed and liquefied gases.....			13,673
Explosives.....	129,955	1,358,005	197,650
Linseed oil.....		51,423	77,604
Paints and varnishes.....	411,302	54,823	300,001
Soap and soap chips.....	74,936	65,307	173,347
Miscellaneous chemicals.....	1,410,206	2,148,059	454,133

See footnotes at end of table.

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.

[Subject to revision]

Type of materials	Value of contracts awarded		
	First quarter, 1939	Fourth quarter, 1938	First quarter, 1938
Products of asphalt, coal, and petroleum.....	\$1, 048, 096	\$8, 760, 735	\$9, 438, 450
Asphalt, oil, tar, and mixtures.....	136, 104	477, 288	1, 591, 850
Coal and coke.....	98, 163	314, 366	1, 153, 063
Fuel oil.....	389, 172	1, 996, 163	1, 159, 252
Gasoline.....	236, 991	5, 774, 936	5, 339, 192
Lubricating oils and greases.....	43, 884	102, 122	.....
Miscellaneous coal and petroleum products.....	143, 782	95, 860	195, 093
Leather and its manufactures.....	.....	948, 622	1, 314, 670
Boots and shoes.....	.....	571, 704	1, 234, 712
Boot and shoe cut stock.....	.....	.....	20, 603
Gloves.....	.....	.....	.....
Shoe upper leather.....	.....	281, 000	59, 355
Miscellaneous leather goods.....	.....	95, 918	.....
Stone, clay, and glass products.....	2, 069, 730	3, 274, 282	6, 209, 000
Brick.....	65, 350	376, 703	192, 910
Cement.....	827, 725	1, 244, 408	3, 075, 044
Concrete pipe.....	378, 320	354, 731	178, 648
Concrete, ready mixed.....	110, 080	244, 628	411, 570
Crushed stone.....	33, 614	110, 685	1, 065, 795
Glass.....	23, 704	19, 600	10, 217
Granite and marble.....	64, 534	45, 377	246, 247
Riprap stone.....	247, 170	84, 035	9, 996
Sand and gravel.....	95, 295	397, 289	524, 054
Soil, black earth.....	29, 401	71, 701	87, 522
Terra cotta.....	.....	11, 490	.....
Tile, clay, including drain.....	.....	30, 721	.....
Vitrified clay and terra cotta pipe.....	94, 934	40, 423	101, 417
Miscellaneous stone, clay, and glass products.....	99, 603	242, 491	305, 580
Iron and steel and their products, not including machinery.....	3, 630, 256	5, 811, 213	6, 302, 267
Bolts, nuts, rivets, washers, etc.....	43, 234	93, 114	142, 276
Cast-iron pipe and fittings.....	103, 328	74, 447	46, 069
Fencing materials.....	13, 481	.....	68, 821
Forgings, iron and steel.....	200, 903	1, 243, 039	535, 716
Hardware, miscellaneous.....	13, 726	.....	57, 752
Metal doors, sash, and frames.....	41, 896	31, 839	67, 258
Metal furniture.....	104, 886	127, 939	1, 671, 465
Metal shingles and roofing.....	13, 460	19, 178	.....
Pipe and fittings, n. e. c.....	11, 573	157, 064	17, 068
Plumbing fixtures and supplies.....	.....	.....	10, 000
Rails, steel.....	224, 571	14, 614	.....
Railway tie plates.....	.....	15, 990	.....
Reinforcing steel.....	261, 339	233, 341	633, 768
Steel pipe and fittings.....	79, 768	177, 055	317, 209
Steel sheets, plates, shapes, and strips.....	1, 070, 444	1, 317, 984	526, 416
Stoves and ranges, other than electric.....	.....	43, 031	36, 854
Structural steel, fabricated, and sheet-steel piling.....	432, 667	1, 052, 575	729, 937
Tools, other than machine tools.....	13, 850	24, 430	103, 119
Wire products.....	123, 209	151, 577	50, 108
Miscellaneous iron and steel products.....	777, 921	1, 033, 996	1, 288, 431
Nonferrous metals and their alloys.....	1, 444, 036	2, 940, 772	3, 624, 066
Aluminum manufactures.....	369, 326	251, 356	552, 006
Brass products.....	29, 600	351, 559	453, 472
Bronze products.....	12, 085	39, 250	10, 612
Copper products.....	79, 352	.....	336, 208
Fixtures, gas, and electric.....	18, 460	1, 799, 703	77, 142
Lead products.....	.....	23, 276	70, 565
Magnesium.....	.....	15, 385	.....
Nickel.....	104, 000	131, 200	71, 756
Plated ware.....	.....	35, 911	11, 992
Sheet-metal work.....	.....	11, 456	153, 819
Tin.....	80, 640	92, 877	881, 356
Zinc.....	40, 533	11, 350	13, 925
Miscellaneous nonferrous metals and alloys.....	710, 040	177, 449	991, 213

See footnotes at end of table.

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.

[Subject to revision]

Type of materials	Value of contracts awarded		
	First quarter, 1939	Fourth quarter, 1938	First quarter, 1938
Machinery, not including transportation equipment and electrical equipment.....	\$3,371,474	\$11,199,442	\$4,655,257
Air-conditioning equipment.....		64,141	51,732
Elevators and elevator equipment.....		41,720	
Engines, turbines, tractors, and parts.....	558,396	2,856,140	1,950,040
Filter and purification equipment.....		84,485	23,034
Laundry machinery and equipment.....		1,448,328	562,019
Machine tools.....	1,447,241	947,035	108,266
Office equipment.....		17,000	
Phonographs and accessories.....		102,840	167,001
Power shovels and draglines.....	119,282	122,390	
Printing and publishing machinery.....		1,118,882	479,640
Pumps and pumping equipment.....	437,438	62,684	115,403
Refrigerators and refrigerating and ice-making machinery.....	48,539	103,121	
Road machinery.....	24,656	25,450	91,173
Windlasses, winches, and capstans.....	18,436	4,205,226	1,106,949
Miscellaneous machinery and parts.....	717,486		
Electrical machinery, apparatus, and supplies.....	2,276,828	4,174,228	6,754,036
Batteries.....		104,140	20,801
Circuit breakers and switches.....	20,968	424,268	51,785
Electric cable, wire, and other conductors.....	330,173	181,396	1,106,019
Generators and spare parts.....	194,150	1,040,969	2,581,627
Heaters and ranges.....		33,000	
Lamps, incandescent, and X-ray tubes.....			
Motors.....	27,651	53,558	27,530
Radio equipment and supplies.....	671,879	794,584	167,203
Spark plugs.....		145,954	174,072
Starters.....			94,129
Switchboards, relay and control equipment.....	295,476	327,167	120,324
Telephone and telegraph apparatus.....	77,205	103,608	125,997
Transformers.....	318,098	408,893	238,307
Welding equipment.....	59,572	28,290	
Miscellaneous electrical machinery, apparatus, and supplies.....	281,656	528,401	2,046,242
Transportation equipment.....	2,471,011	28,600,322	8,755,441
Aircraft.....		912,448	5,392,615
Aircraft parts and equipment.....	403,073	3,090,588	1,734,600
Boats and boat equipment.....	13,130		23,469
Motor vehicles, passenger.....	126,079	82,261	197,993
Motor vehicles, trucks.....	1,882,298	1,186,986	1,101,879
Naval vessels.....		23,196,000	
Miscellaneous transportation equipment.....	46,431	132,039	304,985
Miscellaneous.....	1,414,628	5,498,061	2,970,307
Brooms, brushes, bristles, etc.....	34,714	57,162	
Dental goods and equipment.....		34,176	
Instruments, professional and scientific.....	624,874	572,244	421,704
Paper and allied products.....	156,260	3,009,302	317,093
Photographic apparatus and materials.....	34,541	133,870	262,114
Printing, publishing, and subscriptions.....	25,000	20,815	174,488
Rubber products.....	11,700	245,947	138,745
Slag.....	141,699	178,301	
Steam and other packing, pipe and boiler covering.....		7,815	41,409
Surgical and orthopedic supplies and appliances.....	19,906	195,868	143,375
Tobacco manufactures.....		187,766	
Other materials.....	241,969	585,944	392,857
Rentals, services, etc. ¹	124,065	268,851	1,078,622

¹ For period ending Mar. 31, 1939.

² For period ending Dec. 31, 1938. Revised.

³ For period ending Mar. 31, 1938. Revised.

⁴ Labor only. Materials furnished by United States Government.

⁵ Includes equipment rental, repairs, aerial surveys, etc.

The value of public contracts awarded for materials by Federal agencies totaled \$22,808,000 during the first quarter of 1939. Of the contracts awarded in the first quarter of 1939, \$3,530,000 was for iron and steel products; \$3,371,000, for machinery, not including electrical machinery and transportation equipment; \$2,471,000, for transportation equipment; and \$2,277,000 for electrical machinery, apparatus, and supplies.

