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EMPLOYMENT AND PAY ROLLS

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Employment and Pay Rolls



SUMMARY OF REPORTS FOR JUNE 1939

Total Nonagricultural Employment

EMPLOYMENT in nonagricultural industries showed a further gain of nearly 400,000 in June. Approximately 143,000 of this increase was accounted for by the resumption of operations in the bituminous-coal mining industry following the signing of new wage agreements. Even with this increase eliminated, the current gain was larger than any rise reported for the month of June during the past 9 years with the exception of 1936. Over 1,200,000 more workers were employed in private nonagricultural activities this June than a year ago.

These figures do not include emergency employment which decreased approximately 75,000 in June as follows: 30,000 on projects operated by the Works Progress Administration, 11,000 on work projects of the National Youth Administration, and 34,000 in the Civilian Conservation Corps.

Industrial and Business Employment

Employment and pay-roll gains from May to June were quite general. Of the 87 manufacturing industries surveyed monthly by the Bureau of Labor Statistics, 46 reported more workers employed and 57 reported larger pay rolls. Of the 16 nonmanufacturing industries covered, 12 had more workers in June than in May and 10 had larger pay rolls.

The gains of 0.6 percent or 37,000 wage earners in factory employment and 1.8 percent or \$2,900,000 in weekly wage disbursements of manufacturing industries were contraseasonal. The usual changes from May to June are declines of 0.6 percent in employment and 0.8 percent in pay rolls. The increases from June 1938 to June 1939 were 11.0 percent for factory employment and 21.3 percent for factory pay rolls.

The durable-goods group of manufacturing industries employed 0.7 percent more workers than in May of this year and 15.9 percent more than in June of last year. In the nondurable-goods group there were corresponding increases of 0.3 percent and 7.4 percent. Pay rolls in the durable-goods group were 2.4 percent higher than in May 1939

and 31.9 percent above June 1938, while in the nondurable-goods group the gains were 1.2 percent and 12.5 percent.

Many of the employment gains in the separate manufacturing industries were greater than seasonal and in some instances they were contrary to the usual seasonal pattern. Among the industries showing such increases were locomotives, aircraft, brick, millwork, shipbuilding, machine tools, glass, furniture, steel, foundries and machine shops, woolen and worsted goods, meat packing, petroleum refining, cigars and cigarettes, shoes, men's clothing, and baking.

Among the industries reporting employment losses that were larger than seasonal were cottonseed—oil, cake, and meal; millinery; hardware; lighting equipment; dyeing and finishing textiles; wirework; shirts and collars; and carpets and rugs. Cotton-goods mills and women's clothing firms reported less-than-seasonal employment declines and silk and rayon goods mills showed a contraseasonal decrease.

The unbroken series of monthly employment gains in aircraft factories, which began in October of last year, continued in June when employment for that industry was nearly 13 times the 1923–25 average and was nearly $2\frac{1}{2}$ times the 1929 figure. The June employment index for shipbuilding was 121.3 percent of the 1923–25 average, gains having been reported each month since last August. The June index is above the level of any month since April 1923. Employment in machine-tool factories has also risen each month since August 1938, the June 1939 index being 137.0 percent of the 1923–25 average, the highest level since February 1938.

The employment gain in June in retail trade, although slight, was significant as increases from May to June have been shown in only 4 of the preceding 10 years. The employment and pay-roll levels for this industry were considerably higher than in June of last year. The general merchandising group, consisting of mail-order houses and department, variety, and general merchandising stores, showed a slight employment gain. Dealers in lumber and building materials and in coal, wood, and ice increased their personnel seasonally, while firms dealing in farmers' supplies and furniture cut their forces seasonally. The remaining lines of retail trade showed employment gains, those of a seasonal nature being food, automotive, drugs, and hardware.

The employment increase of 1.1 percent in wholesale establishments was contraseasonal, with most lines of trade sharing in the gain. Among these lines were food products; groceries; dry goods and apparel; machinery, equipment, and supplies; petroleum and its products; automobiles; chemicals, drugs, and allied products; and lumber and building materials. Among the few lines reporting reduced employment were farm products and farm supplies, hardware; jewelry and optical goods, and leather and leather goods.

The gains in bituminous-coal mining of 64.9 percent in employment and 245.8 percent in pay rolls were contraseasonal and indicated the return to work of 143,000 wage earners between mid-May and mid-June and an increase of more than \$5,500,000 in weekly wages. Many firms had only partially resumed operations or were still idle during the May 15 period following the signing of wage contracts. Therefore the June gains reflected the general resumption of operations in bituminous-coal mines.

The decrease of 2.6 percent in the number of anthracite mine workers was less than seasonal, while the large pay-roll decline (36.7 percent) indicated a slackening of activity following the unusual pay-roll gains of April and May. The employment loss of 1.0 percent in metal mining was contraseasonal, while the pick-up of 3.9 percent in quarries was greater than the average June increase (1.5 percent) for the last 10 years. The employment gains in the public utilities, in laundries, and in dyeing and cleaning establishments were also better-than-average for this month according to available records, while the decline of 0.8 percent in year-round hotels was seasonal.

Employment in private building construction showed an increase of 1.4 percent from May to June, according to reports from 14,299 contractors employing 133,687 workers in June. Pay rolls decreased 0.7 percent. The June expansion in employment was retarded to some extent by the recession reported in New York State, which showed a further decrease of 8.3 percent. The combined report for the Middle Atlantic area showed a decrease of 5.7 percent. The substantial gains reported in the East and West North Central States and New England in the past two months were continued with more moderate increases of 7.1 percent, 5.0 percent, and 4.4 percent, respectively. Increases of 4.6 percent and 8.7 percent were reported from the West South Central States and the Mountain States while employment in the East South Central States dropped 4.9 percent, and in the Pacific States, 1.4 percent. Employment in the South Atlantic region rose 2.1 percent, all of the South Atlantic States reporting increases except Delaware, Maryland, and the District of Columbia. The decrease of 11.7 percent in the District of Columbia was due primarily to labor difficulties. 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 May of 3.6 percent or 34,138 persons in the number employed by class I railroads. The total number working in June was 991,900. Corresponding pay-roll figures were not available when this report was prepared. For May they were \$150,858,242 as against \$144,962,740 in April, an increase of 4.1 percent.

Hours and earnings.—The average hours worked per week by wage earners in manufacturing industries were 37.2 in June, an increase of 1.4 percent since May and the average hourly earnings of these workers were 65.0 cents, an increase of 0.1 percent as compared with the preceding month. Average weekly earnings of factory workers climbed 1.5 percent to \$24.25.

Of the 14 nonmanufacturing industries for which man-hour data are available, 8 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 June 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, June 1939*

Industry	Employment			Pay rolls			Average weekly earnings		
	Index June 1939	Percentage change from—		Index June 1939	Percentage change from—		Average in June 1939	Percentage change from—	
		May 1939	June 1938		May 1939	June 1938		May 1939	June 1938
All manufacturing industries combined ¹	(1929-25 = 100) 90.6	+0.6	+11.0	(1929-25 = 100) 85.9	+1.8	+21.3	\$24.25	+1.5	+9.6
Class I steam railroads ²	55.5	+3.6	+8.4	(³)	(³)	(³)	(³)	(³)	(³)
Coal mining:	(1929 = 100)			(1929 = 100)					
Anthracite ⁴	51.2	-2.6	-8.5	36.1	-36.7	-27.4	23.30	-35.0	-20.7
Bituminous ⁴	79.1	+64.9	-1.4	70.6	+245.8	+23.9	23.12	+109.6	+25.6
Metalliferous mining.....	61.2	-1.0	+9.4	53.9	-3	+17.0	27.56	+7	+6.9
Quarrying and nonmetallic mining.....	47.4	+3.9	+8.7	41.8	+5.4	+12.0	22.13	+1.4	+3.0
Crude-petroleum producing.....	67.0	+1.4	-8.0	62.4	+2.0	-7.6	33.74	+6	+5
Public utilities:									
Telephone and telegraph.....	76.1	+8	+1.8	93.6	-1	+3.0	\$ 30.44	-.9	+1.1
Electric light and power and manufactured gas.....	92.2	+1.3	+1	100.2	+1.4	+1.6	\$ 33.99	+1	+1.5
Electric-railroad and motor-bus operation and maintenance.....	69.9	+5	-7	71.2	+1.5	+2.2	\$ 33.24	+1.0	+2.9
Trade:									
Wholesale.....	88.1	+1.1	+1.0	75.7	+1.2	+2.7	\$ 29.97	+1	+1.6
Retail.....	86.4	+8	+3.3	72.5	+1.5	+4.3	\$ 21.36	+7	+1.1
General merchandising.....	97.4	+6	+5.9	88.1	+1.6	+4.0	\$ 18.05	+1.0	-1.2
Other than general merchandising.....	83.5	+9	+2.6	69.3	+1.4	+4.3	\$ 24.00	+5	+1.7
Hotels (year-round) ^{4, 6}	93.2	-8	+1.1	82.1	-3	+3.3	\$ 15.06	+4	+2.2
Laundries ⁴	98.7	+3.3	+2.1	86.9	+3.5	+6.2	17.98	+3	+4.0
Dyeing and cleaning ⁴	109.9	+2.7	-8	84.1	+1.3	+1.0	20.98	-1.4	+1.8
Brokerage.....	(³)	-1.9	-3.4	(³)	-2.5	-1.4	\$ 35.71	-.5	+2.1
Insurance.....	(³)	+4	+1.0	(³)	+5	+2.3	\$ 36.48	+1	+1.3
Building construction.....	(³)	+1.4	+5.5	(³)	-7	+11.3	30.87	-2.0	+5.0

¹ Revised indexes—Adjusted to 1935 Census of Manufacturers.

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

Public Employment

With the gain in the number of projects under construction, employment on projects financed from Public Works Administration funds increased to 293,100 during the month ending June 15. This represents an increase of 19,500 over the preceding month and 172,200 over June 1938. Pay rolls of \$25,956,000 for the month were \$3,201,000 greater than in May.

There were 8,700 men at work on projects of the United States Housing Authority during the month ending June 15, an increase of 2,200 as compared with May. Pay-roll disbursements increased from \$783,000 in May to \$1,118,000 in June. These figures cover new construction and demolition and pertain only to those projects started under the United States Housing Authority; those formerly under the Public Works Administration are shown under the Public Works Administration building construction projects in this report.

The seasonal increase in employment on projects financed from regular Federal appropriations continued through June with a gain of 31,800 over May, bringing the number at work to 248,500. Increases in employment were reported on all types of projects except forestry and heavy engineering. The increases on public road, rural electrification, ship construction, and dredging, dike, and revetment projects were relatively large. Pay-roll disbursements increased from \$21,812,000 in May to \$26,438,000 for the month ending June 15.

There were approximately 2,500 men working on projects financed by the Reconstruction Finance Corporation, an increase of 200 as compared with the preceding month. Pay rolls for the month ending June 15 were \$291,000.

The decline, beginning in March, in work-relief employment on projects operated by the Works Progress Administration continued through June with a decrease of 30,000 in the number employed. The number at work during June was 2,438,000 as compared with 2,468,000 in May and 2,767,000 in June 1938. Pay rolls of \$134,377,000 for June were \$5,711,000 less than in May and \$11,699,000 less than in June 1938. There was a substantial increase in employment on Federal projects under The Works Program and a decrease on work projects of the National Youth Administration. Data on employment and pay rolls for Student Aid in June will not be available until next month.

During June there were 302,000 workers in camps of the Civilian Conservation Corps, 34,000 less than in May and 8,000 more than in June a year ago. Of the total number in camps during the month 264,300 were enrollees, 4,800 reserve officers, 300 nurses, 1,600 educational advisers, and 31,000 supervisory and technical employees.

Increases in the number of people employed in the regular services of the Federal Government were reported in the executive, legislative, and military services, and a decrease in the judicial service. Of the 925,000 employees in the executive service, 123,000 were working in the District of Columbia and 802,000 outside the District. Force-account employees (employees who are on the Federal pay roll and are engaged on construction projects) were 9.3 percent of the total number of employees in the executive service. Increases in employment were reported in the Department of Agriculture, Department of the Interior, Post Office, War, and Navy Departments, and in the Railroad Retirement Board. Decreases were reported in the Treasury Department and administrative offices of the Works Progress Administration.

The number of men employed on roads financed wholly from State or local funds increased 9,900 in June. Of the 142,000 at work, approximately 20,000 were engaged in the construction of new roads and 122,000 on maintenance work. Pay rolls for both types of road work were \$10,743,000.

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

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

[Preliminary figures]

Class	Employment		Per-centage change	Pay rolls		Per-centage change
	June	May		June	May	
Federal Services:						
Executive ²	925,260	903,112	+2.5	\$140,140,533	\$136,408,999	+2.7
Judicial.....	2,292	2,322	-1.3	561,879	607,732	-7.5
Legislative.....	5,353	5,336	+ .3	1,218,290	1,219,849	- .1
Military.....	363,734	354,612	+2.6	28,483,256	26,438,718	+7.8
Construction projects:						
Financed by P. W. A. ⁴	293,103	273,614	+7.1	25,956,205	22,754,996	+14.1
U. S. H. A. low-rent housing.....	8,670	6,473	+21.1	1,118,077	782,965	+42.8
Financed by R. F. C. ⁵	2,503	2,336	+7.1	290,517	275,512	+5.4
Financed by regular Federal appropriations.....	248,525	216,716	+14.7	26,437,806	21,811,566	+21.2
Federal projects under The Works Program:						
.....	183,749	147,925	+24.2	8,590,116	7,159,718	+20.0
Projects operated by W. P. A.....	2,438,254	2,463,158	-1.2	134,376,895	140,088,103	-4.1
National Youth Administration:						
Work projects.....	212,607	223,892	-5.0	3,962,582	4,271,347	-7.2
Student Aid.....	(6)	372,885	.....	(6)	2,499,574	.....
Civilian Conservation Corps.....	302,339	335,902	-10.0	14,132,205	15,022,973	-5.9

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 119,314 employees and pay-roll disbursements of \$15,634,335 for June 1939, and 113,161 employees and pay-roll disbursements of \$14,246,341 for May 1939.

³ Revised.

⁴ Data covering P. W. A. projects financed from National Industrial Recovery Act funds, Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds, and Public Works Administration Appropriation Act of 1938 funds are included. These data are not shown under The Works Program. Includes 19,146 wage earners and \$1,936,132 pay roll for June 1939; 21,200 wage earners and \$1,972,241 pay roll for May 1939, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 267,626 wage earners and \$23,272,006 pay roll for June 1939; 245,167 wage earners and \$19,970,789 pay roll for May 1939, covering Public Works Administration projects financed from funds provided by the Public Works Administration Appropriation Act of 1938.

⁵ Includes 689 employees and pay-roll disbursements of \$64,414 for June 1939; 713 employees and pay-roll disbursements of \$66,632 for May 1939 on projects financed by the RFC Mortgage Co.

⁶ June data not available.

The value of material orders placed on projects financed from regular Federal appropriations during the second quarter of 1939 amounted to \$109,911,000. Approximately 207,000 man-months of labor were involved in the final fabrication of these materials. On P. W. A. projects orders were placed for \$117,544,000 worth of materials, for which it is estimated 271,000 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 and second quarters of 1939, and the second 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		
	Second quarter of 1939	First quarter of 1939	Second quarter of 1938	Second quarter of 1939	First quarter of 1939	Second quarter of 1938
Public Works Administration ¹	\$117,543,090	\$102,018,564	\$55,569,059	270,518	234,998	126,046
U. S. H. A. low-rent housing.....	4,947,175	3,090,065	-----	11,433	7,116	-----
Reconstruction Finance Corporation ² ..	2,909,351	1,857,290	2,325,705	5,932	3,773	4,358
Regular Federal appropriations	109,910,717	91,210,597	85,308,721	206,657	171,628	164,364
Federal projects under The Works Program:						
Construction.....	3,374,808	3,320,704	14,233,067	7,056	6,969	30,823
Professional, technical, and clerical.	59,238	56,056	115,360	109	117	235
Projects operated by W. P. A.....	(³)	82,778,507	94,914,514	(³)	202,437	224,742
Rentals and services on projects operated by W. P. A.....	(³)	66,553,240	48,342,335	(³)	(³)	(³)
National Youth Administration:						
Work projects.....	(³)	2,024,229	1,090,657	(³)	4,957	2,596
Rentals and services on work projects.....	(³)	752,526	604,725	(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-rent 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 JUNE 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 June 1939 are shown in table 4. Percentage changes from May 1939 and June 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 April, May, and June 1939, where available, are presented in table 5. The April and May figures, where given, may differ in some instances from those previously published, because of revisions necessitated primarily by the inclusion of late reports.

The average weekly earnings shown in tables 4 and 5 are computed by dividing the total weekly pay rolls in the reporting establishments by the total number of full- and part-time employees reported. As not all reporting establishments supply man-hours, average hours worked per week and average hourly earnings are necessarily based on data furnished by a smaller number of reporting firms. The size and composition of the reporting sample 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 June 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 Aug. 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 June 1939	Percentage change from—		Index June 1939	Percentage change from—		June 1939	Percentage change from—		June 1939	Percentage change from—		June 1939	Percentage change from—	
		May 1939	June 1938		May 1939	June 1938		May 1939	June 1938		May 1939	June 1938		May 1939	June 1938
All manufacturing.....	90.6	+0.6	+11.0	85.9	+1.8	+21.3	\$24.25	+1.5	+9.6	37.2	+1.6	(?)	Cents 64.8	+0.1	(?)
Durable goods.....	83.9	+7	+15.9	81.4	+2.4	+31.9	27.43	+2.3	+14.6	37.4	+2.1	(?)	72.4	+1	(?)
Nondurable goods.....	97.0	+3	+7.4	91.0	+1.2	+12.5	21.31	+1.0	+4.8	37.1	+1.2	(?)	58.2	+1.2	(?)
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	87.5	+2	+12.5	80.7	+2.9	+36.5	26.89	+2.7	+21.3	35.6	+2.2	(?)	75.7	+5	(?)
Blast furnaces, steel works, and rolling mills.....	92.3	+1.1	+12.1	83.4	+4.3	+43.6	28.30	+3.1	+28.0	33.6	+2.5	+27.3	84.2	+5	+2
Bolts, nuts, washers and rivets.....	88.2	-9	+14.1	81.9	+1	+33.9	23.59	+9	+17.2	34.0	+1.2	+20.1	60.5	-2	-2.2
Cast-iron pipe.....	67.8	-2	+6.8	62.0	-2.4	+21.5	21.58	-2.3	+13.8	36.9	-2.1	+14.7	58.2	-2	+1
Cutlery (not including silver and plated cutlery) and edge tools.....	83.4	+4.0	+10.5	77.7	+7.9	+26.3	23.56	+3.7	+14.4	38.8	+1.7	+14.0	61.4	+1.3	-1.8
Forgings, iron and steel.....	48.0	-8	+19.6	45.7	-1.8	+56.0	27.95	-1.1	+30.5	36.5	-9	+26.4	76.6	-4	+3.2
Hardware.....	68.5	-9.9	+11.8	71.4	-4.8	+36.4	25.21	+5.7	+22.1	38.5	+5.0	+21.7	65.5	+6	+3
Plumbers' supplies.....	74.8	+1.2	+3.2	67.7	+8	+17.6	25.56	-4	+14.1	38.1	+2	+12.0	67.1	-6	+1.8
Stamped and enameled ware.....	134.7	+1.4	+19.7	131.4	+2.5	+31.8	23.44	+1.1	+10.1	37.3	+1.2	+11.9	62.5	-3	-1.3
Steam and hot-water heating apparatus and steam fittings.....	69.1	+8	+6.6	58.9	+3.8	+15.4	25.66	+3.0	+8.2	36.9	+3.2	+8.4	69.6	+1	-3
Stoves.....	82.7	+3	+15.7	70.0	+1.6	+26.5	25.04	+1.3	+9.2	37.9	+1.0	+8.4	66.2	+1	+6
Structural and ornamental metalwork.....	67.8	+8	+16.3	60.6	+2.5	+29.8	28.13	+1.6	+11.5	39.1	+2.3	+11.9	72.1	-7	-5
Tin cans and other tinware.....	93.0	+4.4	+4.5	102.4	+5.8	+10.6	24.00	+1.4	+4.7	39.4	+1.3	+3.7	60.9	-1	+2.0
Tools (not including edge tools, machine tools, files, and saws).....	84.0	-1	+15.0	81.4	+6	+33.6	24.05	+8	+16.4	39.0	+2	+15.9	61.8	+6	+3
Wirework.....	144.2	-6.8	+24.9	152.2	-7	+52.6	25.26	+6.6	+22.2	37.6	+5.5	+20.1	67.3	+1.1	+2.0

For footnotes see end of table.

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

MANUFACTURING—Continued

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

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index June 1939	Percentage change from—		Index June 1939	Percentage change from—		June 1939	Percentage change from—		June 1939	Percentage change from—		June 1939	Percentage change from—	
		May 1939	June 1938		May 1939	June 1938		May 1939	June 1938		May 1939	June 1938		May 1939	June 1938
<i>Durable goods—Continued</i>															
Machinery, not including transportation equipment	95.6	+0.7	+11.0	98.4	+1.6	+26.2	\$27.97	+0.8	+13.6	39.6	+0.9	(?)	72.5	-0.1	(?)
Agricultural implements (including tractors)	113.6	-3.3	-9.3	118.9	-5.6	-4.1	28.85	-2.3	+5.8	37.1	-1.5	+5.5	78.0	-0.8	+(?)
Cash registers, adding machines, and calculating machines	130.4	+6	-5.0	123.5	+1.7	+1.8	30.62	+1.1	+7.5	37.6	+8	+6.8	82.1	+2	+4
Electrical machinery, apparatus, and supplies	85.8	-1	+14.0	88.0	+1.1	+32.0	28.42	+1.2*	+15.7	38.3	+1.3	+16.6	74.4	-1	-3
Engines, turbines, water wheels, and windmills	99.6	+1.6	+16.5	117.5	+3	+31.5	30.57	-1.3	+12.8	39.2	-8	+12.8	78.2	-7	-1
Foundry and machine-shop products	85.1	+6	+10.0	82.4	+2.5	+25.4	27.71	+1.8	+13.8	38.7	+1.4	+14.3	71.6	+5	+2
Machine tools	137.0	+2.5	+18.3	153.2	+2.7	+54.8	31.78	+1	+30.8	42.5	+2	+27.3	74.8	-1	+2.9
Radios and phonographs	108.5	+12.6	+33.1	95.2	+13.2	+32.9	21.63	+6	-2	37.2	+8	+1.2	58.3	-3	-1.4
Textile machinery and parts	73.1	+5	+34.8	75.5	+5.1	+59.8	26.70	+4.5	+18.6	40.5	+5.1	+21.5	66.1	-5	-2.8
Typewriters and parts	124.0	-1.6	+7.8	114.3	-11.1	+22.0	22.13	-9.6	+13.2	34.5	-6.8	+15.0	64.0	-3.0	-1.6
Transportation equipment	89.9	-4	+44.1	89.2	+1.8	+55.4	32.31	+5.6	+11.3	36.3	+4.9	(?)	89.3	+4	(?)
Aircraft	1,283.4	+8.4	+57.7	1,310.6	+12.5	+71.5	31.17	+3.8	+8.7	42.0	+2.0	+6.8	73.6	+2.3	+2.3
Automobiles	91.6	-1.8	+48.9	88.6	+6	+62.7	32.75	+7.0	+14.1	35.3	+6.6	+13.3	93.0	+5	+8
Cars, electric and steam-railroad	32.3	-3.0	+27.8	31.8	-4.8	+32.7	26.94	-1.0	+3.8	36.5	-6	+4.7	73.8	-8	-3
Locomotives	27.0	+20.4	+7.5	24.4	+24.0	+24.5	29.01	+3.1	+15.7	37.7	+3.1	+15.4	77.0	+(?)	+3
Shipbuilding	121.5	+3.0	+23.7	132.4	+3.8	+26.4	32.53	+7	+3.6	38.5	-1.0	+2.9	83.2	+1.4	+6
Nonferrous metals and their products	91.6	-9	+14.8	96.7	-1	+30.8	25.62	+9	+14.0	39.2	+1.0	(?)	67.0	-4	(?)
Aluminum manufactures	154.7	+1.6	+27.3	161.2	+2.8	+47.4	26.65	+1.2	+15.9	39.1	+1.2	+16.7	68.0	-1	-4
Brass, bronze, and copper products	98.7	-4	+15.1	99.0	-4	+36.5	27.32	-(?)	+18.6	38.8	+8	+19.1	70.7	-6	-8
Clocks and watches and time-recording devices	79.9	-2.8	+6.2	79.8	-2.4	+33.8	21.30	+4	+25.1	36.4	+2	+27.9	58.5	+2	-1.3
Jewelry	87.7	+1.9	+13.0	73.0	+5.4	+20.8	23.12	+3.4	+6.9	38.8	+3.8	+10.6	59.1	-9	-2.6
Lighting equipment	76.2	-6.2	+19.6	67.0	-5.6	+32.4	24.79	-1.6	+11.5	35.6	+1.4	+10.6	69.7	-6	+2
Silverware and plated ware	65.5	-1.1	+12.1	58.6	-2.1	+31.4	24.53	-1.0	+17.2	38.5	-2.1	+17.2	64.0	+6	+7
Smelting and refining—copper, lead, and zinc	71.0	-4	+10.2	66.4	-8	+10.0	26.34	+2	-1	38.1	+8	-1.6	69.1	-1	+1.6

Lumber and allied products.....	68.8	+2.3	+10.0	60.4	+3.8	+18.0	20.96	+1.5	+7.2	39.1	+1.3	(9)	54.3	+1	(2)
Furniture.....	78.7	+2.3	+11.1	64.9	+2.9	+23.8	19.91	+7	+10.8	38.0	+1.6	+8.2	52.7	-8	-8
Lumber:															
Millwork.....	57.2	+6.2	+15.2	48.6	+8.1	+20.8	22.45	+1.8	+5.2	41.4	+1.5	+5.4	54.3	+1	-1
Sawmills.....	54.4	+1.4	+8.6	51.9	+3.1	+14.3	21.26	+1.7	+5.2	39.2	+1.1	+9	55.2	+6	+5.3
Stone, clay, and glass products.....	74.4	+2.6	+13.1	66.9	+4.4	+18.6	23.94	+1.7	+4.9	37.2	+2.1	(2)	64.7	+4	(2)
Brick, tile, and terra cotta.....	57.1	+6.6	+18.3	46.2	+14.5	+28.4	21.25	+7.4	+8.6	39.5	+5.5	+4.0	53.8	+1.4	+4.3
Cement.....	70.5	+5.7	+3.5	69.3	+9.0	+6.4	27.31	+3.2	+2.8	39.0	+2.9	+8	70.0	+3	+2.0
Glass.....	93.0	+1.7	+17.3	96.0	+4.7	+23.7	24.86	+2.9	+6.3	35.0	+2.2	+2.8	71.1	+7	+2.4
Marble, granite, slate, and other products.....	45.9	-3.3	+5.0	36.5	-9.7	+8.0	26.76	-6.6	+3.0	37.5	-4.7	+1.3	71.8	-1.6	+3.2
Pottery.....	79.6	-1.4	+9.0	69.2	-5.4	+13.3	21.59	-4.0	+3.9	36.2	-1.1	+8.3	63.1	+1.3	-2
<i>Nondurable goods</i>															
Textiles and their products.....	94.9	-1.2	+12.2	77.6	-3	+24.4	16.49	+1.0	+12.8	35.4	+1.5	(2)	47.2	-2	(2)
Fabrics.....	87.8	-6	+13.7	74.6	+5	+21.9	16.18	+1.2	+7.2	35.9	+1.1	(2)	45.8	-3	(2)
Carpets and rugs.....	78.8	-1.3	+64.3	64.3	-4	+81.0	21.49	+8	+6.9	34.0	+1.3	+11.5	63.2	-4	-1.3
Cotton goods.....	84.1	-1.3	+10.6	70.8	-1.9	+21.0	13.69	-7	+9.7	35.8	+2	+13.8	38.3	-9	-4.4
Cotton small wares.....	79.0	-3.9	+15.8	73.0	-2.4	+21.9	17.75	+1.6	+5.3	37.9	+6	+6.5	47.4	+6	-1.0
Dyeing and finishing textiles.....	106.4	-5.5	+8.6	88.6	-6.0	+15.3	20.29	-5	+6.0	37.4	-4	+7.6	53.7	-1	-1.5
Hats, fur-felt.....	79.8	+4.2	+30.0	74.7	+16.1	+54.1	23.24	+11.5	+18.5	33.4	+10.2	+15.1	70.9	+1.6	-1.6
Knit goods.....	113.0	-1.0	+8.8	109.5	+2	+9.6	17.16	+1.1	+7	35.3	+1.5	+7.0	49.1	-9	-4.6
Hosiery.....	141.7	-2.6	+6.9	144.0	-1.8	+3.8	17.95	+9	-3.0	34.3	+8	+3.7	52.0	-8	-5.4
Knitted outerwear.....	75.5	+3.5	+10.1	68.6	+2.7	+18.4	16.96	-8	+7.4	36.7	-7	+7.8	46.1	-7	+7
Knitted underwear.....	74.8	+6	+13.9	65.1	+3.8	+29.1	15.13	+3.1	+13.3	37.5	+4.2	+18.1	40.5	-2	-2.4
Knitted cloth.....	152.6	+5.9	+13.3	123.8	+11.7	+24.4	17.66	+5.6	+10.2	38.2	+4.9	+15.7	45.3	-4	-4.4
Silk and rayon goods.....	56.4	-4.0	+5.4	45.5	-2.1	+11.4	15.38	+2.0	+5.6	35.4	+1.2	+5.2	43.0	+5	+2
Woolen and worsted goods.....	79.8	+6.3	+30.7	66.7	+9.5	+40.8	19.32	+3.0	+7.9	36.7	+3.0	+9.3	52.6	+1	-1.6
Wearing apparel.....	109.3	-2.6	+9.6	80.9	-1.5	+29.2	17.46	+1.1	+17.8	34.6	+2.3	(2)	49.8	-1	(2)
Clothing, men's.....	97.9	+1.3	+25.2	71.7	+7.6	+66.1	19.04	+6.3	+32.7	33.8	+4.7	+25.9	56.8	+1.2	+3.5
Clothing, women's.....	151.9	-4.9	+2.6	103.1	-6.6	+15.3	18.06	-1.8	+12.3	35.6	+2.0	+17.8	47.8	-1.6	-2.0
Corsets and allied garments.....	106.6	-2	+9.8	109.1	-2.5	+27.1	17.09	-2.2	+15.7	38.0	-2.7	+19.3	45.1	+4	-1.6
Men's furnishings.....	128.1	+7	+3.5	113.4	+8.1	+12.5	13.83	+7.5	+10.4	35.7	+4.5	+3.7	37.7	+1.3	+5.4
Millinery.....	58.2	-17.1	-3.0	40.6	-22.6	-8.7	18.43	-6.7	-5.9	28.8	-7.4	+1.1	63.0	-1.1	-1
Shirts and collars.....	115.6	-2.0	+2.0	100.9	-1.2	+21.4	13.33	+8	+19.1	34.2	+1	+11.0	39.4	+8	+4.6
Leather and its manufactures.....	88.1	+1.3	+7.7	69.2	+7.9	+20.5	18.85	+8.6	+11.9	35.1	+6.2	(2)	52.7	+5	(2)
Boots and shoes.....	87.4	+1.2	+5.9	63.2	+9.1	+19.7	17.44	+7.8	+13.0	34.2	+7.3	+10.7	50.2	+4	+2.5
Leather.....	83.5	+1.9	+15.8	84.6	+4.4	+22.2	24.30	+2.4	+5.6	38.7	+2.0	+5.3	63.0	+8	+7
Food and kindred products.....	122.8	+5.1	+2.8	125.6	+3.9	+3.2	25.12	-1.2	+4	40.5	-6	(2)	62.2	-1.0	(2)
Baking.....	146.7	+9	+1.8	145.1	+1.2	+2.3	25.96	+3	+6	42.2	-1	-5	61.8	+4	+1.5
Beverages.....	265.1	+7.6	+5.2	330.8	+9.8	+8.2	34.78	+2.0	+2.9	40.8	+2.1	+7	85.5	+3	+2.0
Butter.....	107.2	+5.7	-2.6	92.7	+6.5	-1.9	22.63	+8	+6	47.7	+2.2	+1.6	47.3	-1.4	-4
Canning and preserving.....	121.1	+30.3	+6.3	102.0	+19.1	+1.3	15.54	-8.5	-4.7	34.2	-2.1	-4.5	46.4	-7.2	+7
Confectionery.....	68.8	-2.6	+1.4	68.4	-1.7	+8	18.52	+9	+2.1	36.6	-1	+7	50.5	+7	+3
Flour.....	78.4	+1.9	+4.1	77.2	+2.8	+2.1	25.40	+1.0	-2.0	42.0	+2	-6.0	60.3	+1.1	+4.6
Ice cream.....	94.4	+8.4	+3.0	80.0	+6.4	+3.2	28.42	-1.9	+1	47.1	-1.0	-2.0	59.9	-6	+2.0
Slaughtering and meat packing.....	97.8	+2.5	+4.5	109.8	+2.0	+4.9	28.25	-5	+4	40.9	-8	+4	69.1	+4	+4
Sugar, beet.....	50.8	+5.0	+7.1	55.0	+5.5	+6.9	27.89	+4	+8	41.1	+1.5	+9	70.0	-1.4	-1.4
Sugar refining, cane.....	84.2	+3.9	-7.0	74.5	+6.2	-8.4	23.87	+2.2	-1.5	37.2	+1.6	-6.5	64.2	+6	+5.4

For footnotes see end of table.

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

MANUFACTURING—Continued

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

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index June 1939	Percentage change from—		Index June 1939	Percentage change from—		June 1939	Percentage change from—		June 1939	Percentage change from—		June 1939	Percentage change from—	
		May 1939	June 1938		May 1939	June 1938		May 1939	June 1938		May 1939	June 1938		May 1939	June 1938
<i>Nondurable goods—Continued</i>															
Tobacco manufactures.....	63.8	+1.6	-1.5	58.9	+5.6	-0.8	\$17.19	+3.8	+0.7	33.6	+3.7	(²)	47.4	+0.4	(²)
Chewing and smoking tobacco and snuff.....	59.2	-4	-2.2	65.7	+1	-6.7	17.25	+5	-4.6	33.8	+2	-6.3	51.0	+3	+1.6
Cigars and cigarettes.....	64.4	+1.9	-1.3	58.0	+6.5	-1	17.17	+4.5	+1.3	36.9	+4.0	-1.0	47.0	+5	+2.6
Paper and printing.....	104.8	-1.1	+2.5	102.2	-1.6	+6.5	23.04	-5	+3.5	33.1	-5	(²)	77.0	+2	(²)
Boxes, paper.....	99.5	-6	+7.9	105.5	+1.2	+16.0	21.75	+1.8	+7.5	39.8	+2.1	+9.6	55.1	-1	-1.6
Paper and pulp.....	106.1	-5	+4.1	104.4	-1.1	+10.0	24.13	-6	+5.6	39.0	-1.0	+6.8	61.8	+4	-9
Printing and publishing:															
Book and job.....	97.5	-2.2	+9	88.7	-2.4	+5.6	30.28	-2	+4.6	38.1	-8	+4.5	80.9	+6	+6
Newspapers and periodicals.....	105.7	-1.1	+1.0	107.0	-2.0	+2.7	37.18	-9	+1.7	36.2	-9	-3	98.8	-2	+2.1
Chemicals and allied products, and petroleum refining.....	109.2	-2.1	+3.8	119.8	-5	+6.2	29.48	+1.6	+2.3	39.5	+2	(²)	76.2	+1.9	(²)
Petroleum refining.....	119.4	+2.1	-1.3	134.4	+1.7	-2.4	34.87	-3	-1.1	36.1	-7	-6	96.9	+3	-6
Other than petroleum refining.....	100.7	-3.1	+5.2	115.3	-1.3	+9.7	26.97	+1.9	+4.3	39.5	+7	(²)	68.0	+1.9	(²)
Chemicals.....	114.5	(³)	+4.4	129.1	+2	+9.4	31.07	+2	+4.8	40.0	+1	+5.7	77.7	+1	-9
Cottonseed—oil, cake, and meal.....	47.2	-27.3	-18.4	40.9	-21.4	-14.8	13.37	+8.1	+4.6	42.2	+4.5	-10.5	30.5	+1.8	+15.7
Druggists' preparations.....	107.0	+1	-6	119.0	+4	+4.0	24.95	+3	+5.5	39.8	+1.3	+5.2	59.2	-1.1	+2
Explosives.....	85.9	+4.8	+7.2	96.3	+5.0	+11.5	30.92	+8	+4.0	38.4	(²)	+5.4	80.6	+8	-1.3
Fertilizers.....	70.4	-36.2	+2.1	64.7	-38.5	-6	16.79	-3.7	-2.5	35.4	-7.1	-6.1	47.5	+3.7	+3.4
Paints and varnishes.....	119.3	+8	+5.6	126.4	-7	+9.3	28.62	-1.4	+3.6	41.1	-1.1	+3.4	69.7	-3	+1
Rayon and allied products.....	303.6	-1.6	+14.4	301.8	+1.1	+24.7	24.61	+2.8	+9.1	38.4	+3.4	+9.7	64.0	-7	-6
Soap.....	89.4	+1.9	+5.2	93.5	+3.6	+8.9	29.74	+1.6	+3.5	40.0	+2.1	+3.0	74.6	-4	+5
Rubber products.....	90.2	-1.5	+13.6	84.3	+2.7	+32.8	27.98	+4.2	+16.9	36.5	+2.8	(²)	76.5	+8	(²)
Rubber boots and shoes.....	58.0	-4.8	+7.5	57.5	+1.1	+27.2	22.69	+6.3	+18.4	37.3	+4.3	+16.3	60.8	+1.9	+1.7
Rubber tires and inner tubes.....	66.7	-7	+10.4	76.8	+4.5	+33.6	33.06	+5.2	+21.0	34.9	+5.0	+21.3	94.7	+3	+5
Rubber goods, other.....	127.5	-9	+20.0	124.5	+1	+33.3	22.77	+1.1	+11.1	38.1	+1	+11.1	60.3	+8	+1.1

NONMANUFACTURING

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

Coal mining:																	
Anthracite ¹	51.2	-2.6	-8.5	36.1	-36.7	-27.4	\$23.30	-35.0	-20.7	25.4	-34.5	-18.7	92.8	+1.1	-0.3		
Bituminous ¹	79.1	+64.9	-1.4	70.6	+245.8	+23.9	23.12	+109.6	+25.6	25.4	+86.2	+25.3	89.7	+3.0	-1.5		
Metalliferous mining.....	61.2	-1.0	+9.4	53.9	-.3	+17.0	27.56	+7	+6.9	39.3	+2	+3.7	70.6	+7	+3.3		
Quarrying and nonmetallic mining.....	47.4	+3.9	+8.7	41.8	+5.4	+12.0	22.13	+1.4	+3.0	40.1	+1.3	-1.3	54.9	+1	+4.2		
Crude-petroleum producing.....	67.0	+1.4	-8.0	62.4	+2.0	-7.6	33.74	+6	+5	38.8	-.2	-3.2	86.9	+4	+3.3		
Public utilities:																	
Telephone and telegraph ²	70.1	+8	+1.8	93.6	-.1	+3.0	30.44	-.9	+1.1	39.1	-.4	+4	80.9	-.7	-.2		
Electric light and power and manufactured gas ²	92.2	+1.3	+1	100.2	+1.4	+1.6	33.99	+1	+1.5	40.1	+1	-.3	84.9	-(³)	+1.8		
Electric-railroad and motorbus operation and maintenance ²	69.9	+5	-7	71.2	+1.5	+2.2	33.24	+1.0	+2.9	46.3	+1.5	+2.8	71.0	-.1	+4		
Trade:																	
Wholesale ²	88.1	+1.1	+1.0	75.7	+1.2	+2.7	29.97	+1	+1.6	42.1	0	-.3	71.4	+2	+2.6		
Retail ²	86.4	+8	+3.3	72.5	+1.5	+4.3	21.36	+7	+1.1	42.7	+6	-1.0	55.1	+3	+2.1		
General merchandising ²	97.4	+6	+5.9	88.1	+1.6	+4.6	18.05	+1.0	-1.2	39.2	+6	-.7	48.7	+1	-.8		
Other than general merchandising ²	83.5	+9	+2.6	69.3	+1.4	+4.3	24.00	+5	+1.7	43.8	+6	-1.0	57.1	+3	+2.9		
Hotels (year-round) ^{4, 5, 6}	93.2	-.8	+1.1	82.1	-.3	+3.3	15.06	+4	+2.2	46.9	+3	-.5	32.4	+6	+2.4		
Laundries ⁴	98.7	+3.3	+2.1	86.9	+3.5	+6.2	17.98	+3	+4.0	43.3	+5	+1.3	41.9	-.1	+2.3		
Dyeing and cleaning ⁴	109.9	+2.7	-.8	84.1	+1.3	+1.0	20.98	-1.4	+1.8	43.5	-1.2	+1	48.8	-.8	-(³)		
Brokers ⁵	(⁷)	-1.9	-3.4	(⁷)	-2.5	-1.4	35.71	-.5	+2.1	(⁷)	(⁷)	(⁷)	(⁷)	(⁷)	(⁷)		
Insurance ⁵	(⁷)	+4	+1.0	(⁷)	+5	+2.3	36.48	+1	+1.3	(⁷)	(⁷)	(⁷)	(⁷)	(⁷)	(⁷)		
Building construction.....	(⁷)	+1.4	+5.5	(⁷)	-.7	+11.3	30.87	2.0	+5.0	33.4	-.4	+9	92.8	1.8	+4.4		

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 not all reporting firms furnish man-hours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample. Hours and earnings for manufacturing industries now relate to 87 industries instead of 89 which were covered in the July and prior issues of the pamphlet. The two industries excluded are electric- and steam-railroad repair shops. The averages for the durable-goods group have also been affected by this exclusion.

² Not yet computed.

³ Less than 1/10 of 1 percent.

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

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

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

⁷ Not available.

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

MANUFACTURING

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

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	June 1939	May 1939	April 1939	June 1939	May 1939	April 1939	June 1939	May 1939	April 1939	June 1939	May 1939	April 1939	June 1939	May 1939	April 1939
All manufacturing.....	90.6	90.1	91.1	85.9	84.4	84.9	\$24.25	\$23.90	\$22.85	37.2	36.7	36.4	Cents 64.8	Cents 64.9	Cents 64.8
Durable goods.....	83.9	83.3	84.1	81.4	79.5	80.2	27.43	26.93	27.00	37.4	36.7	36.5	72.4	72.4	72.6
Nondurable goods.....	97.0	96.7	97.8	91.0	89.9	90.2	21.31	21.11	20.92	37.1	36.7	36.4	58.2	58.4	58.2
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	87.5	87.3	88.3	80.7	78.4	80.1	26.89	26.17	26.46	35.6	34.9	35.1	75.7	75.3	75.8
Blast furnaces, steel works, and rolling mills.....	92.3	91.3	92.3	83.4	79.9	82.8	28.30	27.40	28.07	33.6	32.8	33.6	84.2	83.5	83.5
Bolts, nuts, washers and rivets.....	88.2	89.0	90.0	81.9	81.8	82.0	23.59	23.46	23.26	34.0	33.7	33.5	69.5	69.6	69.4
Cast-iron pipe.....	67.8	67.9	67.4	62.0	63.6	58.5	21.58	22.32	20.71	36.9	38.2	35.4	58.2	58.1	58.2
Cutlery (not including silver and plated cutlery) and edge tools.....	83.4	80.2	84.7	77.7	72.0	74.2	23.56	22.65	22.17	38.8	38.1	37.6	61.4	60.4	59.8
Forgings, iron and steel.....	48.0	48.4	48.7	45.7	46.5	46.5	27.95	28.17	28.05	36.5	36.7	36.8	76.6	77.0	76.0
Hardware.....	68.5	76.1	80.7	71.4	75.1	76.7	25.21	23.87	23.05	38.5	36.7	35.2	65.5	65.1	65.5
Plumbers' supplies.....	74.8	73.9	73.4	67.7	67.2	64.6	25.56	25.81	24.98	38.1	38.2	37.0	67.1	67.6	67.6
Stamped and enameled ware.....	134.7	132.8	135.3	131.4	128.2	131.8	23.44	23.19	23.34	37.3	37.1	36.9	62.5	62.4	63.0
Steam and hot-water heating apparatus and steam fittings.....	69.1	68.6	68.8	58.9	56.7	56.0	25.06	24.92	24.52	36.9	35.7	35.2	69.6	69.6	69.7
Stoves.....	82.7	82.4	81.1	70.0	68.9	69.0	25.04	24.77	25.19	37.9	37.3	38.1	66.2	66.5	66.7
Structural and ornamental metalwork.....	67.8	67.2	66.9	60.6	59.1	59.5	28.13	27.71	28.06	39.1	38.2	38.4	72.1	72.7	73.1
Tin cans and other tinware.....	93.0	89.1	88.2	102.4	96.8	94.0	24.00	23.66	23.19	39.4	38.9	38.1	60.9	60.9	61.1
Tools (not including edge tools, machine tools, files, and saws).....	84.0	84.1	84.5	81.4	80.9	81.6	24.05	23.83	23.95	39.0	38.8	39.1	61.8	61.5	61.4
Wirework.....	144.2	154.7	159.4	152.2	153.3	162.9	25.26	23.91	24.68	37.6	35.9	36.7	67.3	66.8	67.5
Machinery, not including transportation equipment.....	95.6	94.9	95.1	96.4	94.9	98.7	27.97	27.86	27.45	38.6	38.3	37.7	72.5	72.5	72.7
Agricultural implements (including tractors).....	113.6	117.5	123.8	118.9	126.0	134.9	28.85	29.56	30.00	37.1	37.7	37.9	78.0	78.7	79.5
Cash registers, adding machines, and calculating machines.....	130.4	129.5	129.9	123.5	121.4	119.8	30.62	30.29	29.81	37.6	37.3	36.7	82.1	82.0	81.8
Electrical machinery, apparatus, and supplies.....	85.8	85.9	86.1	88.0	87.0	85.7	28.42	28.11	27.57	38.3	37.8	37.2	74.4	74.4	74.2
Engines, turbines, water wheels, and windmills.....	99.6	98.0	96.3	117.5	117.2	115.1	30.57	30.95	30.94	39.2	39.5	39.3	78.2	78.7	79.2
Foundry and machine-shop products.....	85.1	84.6	84.5	82.4	80.4	78.8	27.71	27.23	26.70	38.7	38.3	37.4	71.6	71.0	71.4
Machine tools.....	137.0	133.6	131.2	153.2	149.3	140.8	31.78	31.70	30.46	42.5	42.4	40.9	74.8	74.9	74.6
Radios and phonographs.....	108.5	96.4	94.6	95.2	84.1	80.8	21.63	21.73	21.19	37.2	36.9	36.2	58.3	58.9	58.6

Textile machinery and parts.....	73.1	72.7	72.0	75.5	71.8	71.4	26.70	25.65	25.79	40.5	38.7	38.8	66.1	66.4	66.6
Typewriters and parts.....	124.0	126.0	128.2	114.3	128.5	134.2	22.13	24.49	25.13	34.5	37.1	38.5	64.0	66.0	65.3
Transportation equipment.....	89.9	90.3	95.2	89.2	87.6	94.4	32.31	31.04	31.80	36.3	34.9	35.5	89.3	89.5	89.8
Aircraft.....	1,283.4	1,183.9	1,078.4	1,310.6	1,165.2	1,063.7	31.17	30.04	30.09	42.0	41.2	40.8	73.6	73.7	74.0
Automobiles.....	91.6	93.3	101.8	88.6	88.0	99.5	32.75	31.18	32.33	35.3	33.5	34.9	93.0	93.1	92.8
Cars, electric and steam-railroad.....	32.3	33.7	33.1	31.8	33.5	31.5	26.94	27.21	26.06	36.5	36.7	34.6	73.8	74.0	75.3
Locomotives.....	27.0	22.4	19.1	24.4	19.6	16.2	29.01	28.15	27.14	37.7	36.6	35.2	77.0	77.0	77.1
Shipbuilding.....	121.5	118.0	112.3	132.4	127.6	117.3	32.53	32.29	31.22	38.5	38.9	37.6	83.2	82.1	83.1
Nonferrous metals and their products.....	91.6	92.4	93.5	86.7	86.8	86.0	25.52	25.38	24.90	38.2	37.7	37.1	67.0	67.2	66.9
Aluminum manufactures.....	154.7	152.2	154.6	161.2	156.8	160.6	26.65	26.34	26.56	39.1	38.7	38.8	68.0	68.1	68.4
Brass, bronze, and copper products.....	98.7	99.1	98.4	99.0	99.4	95.9	27.32	27.18	26.43	38.8	38.5	37.6	70.7	70.8	70.4
Clocks and watches and time-recording devices.....	79.9	82.2	83.7	79.8	81.8	84.1	21.30	21.03	21.24	36.4	35.6	36.2	58.5	59.1	58.7
Jewelry.....	87.7	86.1	90.4	73.0	69.3	71.1	23.12	22.46	21.90	38.8	37.3	36.7	59.1	59.0	59.1
Lighting equipment.....	76.2	81.2	83.5	67.0	70.9	68.9	24.79	24.63	23.27	35.6	35.1	33.2	69.7	70.1	69.9
Silverware and plated ware.....	65.5	66.2	66.3	58.6	59.8	59.4	24.53	24.80	24.61	38.5	39.3	39.0	64.0	63.7	63.4
Smelting and refining—copper, lead, and zinc.....	71.0	71.3	72.0	66.4	66.6	66.2	26.34	26.29	25.90	38.1	38.0	37.5	69.1	69.2	69.1
Lumber and allied products.....	66.8	65.3	64.3	60.4	58.2	55.7	20.96	20.73	20.08	39.1	39.6	37.7	54.3	54.3	53.9
Furniture.....	78.7	77.0	77.9	64.9	63.1	63.5	19.91	19.86	19.74	38.0	37.5	37.3	52.7	53.0	53.2
Lumber:															
Millwork.....	57.2	53.9	54.2	48.6	45.0	43.9	22.45	21.99	21.40	41.4	41.0	39.7	54.3	53.8	54.0
Sawmills.....	54.4	53.7	51.8	51.9	50.3	46.3	21.26	21.00	19.94	39.2	38.6	37.5	55.2	55.2	54.2
Stone, clay, and glass products.....	74.4	72.5	72.7	66.9	64.1	63.0	23.94	23.48	22.96	37.2	36.4	35.5	64.7	64.6	64.8
Brick, tile, and terra cotta.....	57.1	53.6	53.6	46.2	40.4	39.6	21.25	19.91	19.46	39.5	37.4	36.4	53.8	53.4	53.5
Cement.....	70.5	66.8	66.5	69.3	63.6	61.9	27.31	26.63	25.91	39.0	38.1	37.6	70.0	70.0	68.9
Glass.....	93.0	91.5	91.9	96.0	91.7	89.4	24.86	24.15	23.37	35.0	34.2	33.1	71.1	70.6	70.7
Marble, granite, slate, and other products.....	45.9	47.5	47.2	36.5	40.4	38.8	26.76	28.63	27.55	37.5	39.5	37.0	71.8	72.7	74.9
Pottery.....	79.6	80.7	81.6	69.2	73.1	74.9	21.59	22.46	22.82	36.2	36.6	36.5	63.1	62.3	63.1
<i>Nondurable goods</i>															
Textiles and their products.....	94.9	96.1	98.6	77.6	77.8	79.8	16.49	16.35	16.36	35.4	34.8	34.7	47.2	47.7	47.9
Fabrics.....	87.8	88.3	88.8	74.6	74.2	73.9	16.18	16.01	15.86	35.9	35.5	35.4	45.8	45.9	45.7
Carpets and rugs.....	78.8	79.8	83.7	64.3	64.6	70.6	21.40	21.32	22.39	34.0	33.6	35.6	63.2	63.5	63.0
Cotton goods.....	84.1	85.2	86.7	70.8	72.2	73.2	13.69	13.78	13.72	35.8	35.7	35.6	38.3	38.6	38.4
Cotton small wares.....	79.0	82.3	83.7	73.0	74.8	76.1	17.75	17.84	17.34	37.9	37.6	38.8	47.4	46.7	45.5
Dyeing and finishing textiles.....	106.4	112.7	114.4	88.6	94.3	97.0	20.29	20.29	20.64	37.4	37.6	38.1	53.7	53.5	53.9
Hats, fur-felt.....	79.8	76.6	80.8	74.7	64.3	55.7	23.24	21.33	17.48	33.4	30.9	25.0	70.9	70.0	69.5
Knit goods.....	113.0	114.1	114.9	109.5	109.3	112.4	17.16	16.93	17.27	35.3	34.9	35.6	49.1	49.4	49.4
Hosiery.....	141.7	145.4	147.2	144.0	146.0	154.3	17.95	17.75	18.40	34.3	34.1	35.5	52.0	52.4	52.2
Knitted outerwear.....	75.5	73.0	72.1	68.6	66.7	63.6	16.96	16.98	16.32	36.7	37.0	35.5	46.1	46.1	46.1
Knitted underwear.....	74.8	74.3	73.5	68.1	65.6	64.7	15.13	14.74	14.77	37.5	36.2	36.2	40.5	40.7	41.0
Knitted cloth.....	152.6	144.1	150.2	123.8	110.8	112.4	17.66	17.07	16.68	38.2	36.6	35.9	45.3	46.1	45.9
Silk and rayon goods.....	56.4	58.7	62.0	45.5	46.5	48.7	15.38	15.19	15.02	35.4	35.1	35.2	43.0	42.9	42.3
Woolen and worsted goods.....	79.8	75.0	69.0	66.7	60.9	52.3	19.32	18.77	17.54	30.7	35.7	33.3	52.6	52.6	52.7
Wearing apparel.....	109.3	112.2	119.0	80.9	82.1	88.8	17.46	17.43	17.84	34.6	33.6	33.7	49.8	51.0	51.7
Clothing, men's.....	97.9	96.7	103.8	71.7	66.6	74.3	19.04	18.04	18.85	33.8	31.9	32.6	56.8	57.4	57.7
Clothing, women's.....	151.9	159.7	171.1	103.1	110.4	118.0	18.06	19.03	18.86	35.6	34.7	33.8	47.8	50.1	51.6
Corsets and allied garments.....	106.6	106.8	106.1	109.1	111.8	111.2	17.09	17.57	17.58	38.0	38.9	38.7	45.1	45.3	45.4
Men's furnishings.....	128.1	127.3	132.3	113.4	104.9	109.9	13.83	12.88	12.96	35.7	33.8	34.3	37.7	36.7	36.5
Millinery.....	58.2	70.2	77.7	40.6	52.5	63.9	18.43	19.99	21.70	28.8	31.1	32.3	63.0	64.0	62.9
Shirts and collars.....	115.6	118.0	119.3	100.9	102.2	102.6	13.33	13.40	13.44	34.2	34.3	34.7	39.4	39.5	39.1

For footnotes see end of table.

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

MANUFACTURING—Continued

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

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	June 1939	May 1939	April 1939	June 1939	May 1939	April 1939	June 1939	May 1939	April 1939	June 1939	May 1939	April 1939	June 1939	May 1939	April 1939
<i>Nondurable goods—Continued</i>															
Leather and its manufactures.....	88.1	87.0	94.0	69.3	64.2	74.5	\$18.85	\$17.48	\$18.73	35.1	32.8	35.8	<i>Cents</i> 52.7	<i>Cents</i> 52.0	<i>Cents</i> 52.5
Boots and shoes.....	87.4	86.4	94.5	63.2	57.9	70.1	17.44	15.93	17.58	34.2	31.8	35.3	50.2	50.4	50.1
Leather.....	83.5	82.0	84.5	84.6	81.0	83.7	24.30	23.78	23.83	38.7	37.0	37.8	63.0	62.9	62.9
Food and kindred products.....	122.8	116.8	114.0	125.6	120.9	113.9	25.13	25.48	24.57	40.5	40.7	39.4	62.2	63.2	62.7
Baking.....	146.7	145.4	142.0	145.1	143.4	135.7	25.96	25.91	25.11	42.2	42.2	41.1	61.8	61.7	61.3
Beverages.....	265.1	246.4	235.7	330.8	301.3	282.2	34.78	33.92	33.15	40.8	40.0	38.8	85.5	85.8	86.2
Butter.....	107.2	101.4	95.6	92.7	87.0	82.1	22.63	22.53	22.33	47.7	46.7	46.2	47.3	48.3	48.3
Canning and preserving.....	121.1	92.9	92.8	102.0	85.6	81.0	15.54	17.01	16.13	34.2	34.9	34.0	46.4	50.0	48.9
Confectionery.....	68.8	70.6	72.3	68.4	69.6	67.2	18.52	18.33	17.27	36.6	36.7	35.3	50.5	50.0	48.4
Flour.....	78.4	77.0	75.3	77.2	75.0	72.6	25.40	25.29	24.96	42.0	42.0	41.5	60.3	60.0	59.8
Ice cream.....	94.4	87.1	75.8	80.0	75.2	65.7	28.42	20.02	29.22	47.1	47.1	46.5	59.9	61.5	62.5
Slaughtering and meat packing.....	97.8	95.4	91.8	109.8	107.7	99.5	28.25	28.39	27.23	40.9	41.2	39.3	69.1	68.9	69.4
Sugar, beet.....	50.8	48.3	43.5	55.0	52.2	45.6	27.89	27.71	26.94	41.1	40.5	37.0	70.0	70.9	76.5
Sugar refining, cane.....	84.2	81.0	93.9	74.5	70.2	85.1	23.87	23.36	24.42	37.2	36.6	38.7	64.2	63.8	63.0
Tobacco manufactures.....	63.8	62.8	61.7	58.9	55.8	53.2	17.19	16.00	16.08	36.6	35.3	34.0	47.4	47.2	47.4
Chewing and smoking tobacco and snuff.....	59.2	59.5	60.6	65.7	65.6	64.3	17.25	17.26	16.59	33.8	33.8	33.2	51.0	51.1	50.2
Cigars and cigarettes.....	64.4	63.2	61.9	58.0	54.5	51.7	17.17	16.45	15.96	36.9	35.5	34.1	47.0	46.7	47.0
Paper and printing.....	104.8	106.0	105.9	102.2	103.9	103.3	28.04	28.22	28.08	38.1	38.2	38.1	77.0	77.2	77.0
Boxes, paper.....	99.5	100.1	100.4	105.5	104.2	103.8	21.75	21.28	21.13	39.8	39.1	39.2	55.1	55.0	54.6
Paper and pulp.....	106.1	106.7	106.3	104.4	105.5	104.6	24.13	24.25	24.11	39.0	39.4	39.4	61.8	61.6	61.2
Printing and publishing:															
Book and job.....	97.5	99.8	99.9	88.7	90.9	90.2	30.28	30.31	30.01	38.1	38.5	38.0	80.9	80.2	80.5
Newspapers and periodicals.....	105.7	106.8	106.5	107.0	109.2	108.9	37.18	37.62	37.60	36.2	36.3	36.3	98.8	100.1	99.8
Chemicals and allied products, and petroleum refining.....	109.2	111.5	114.8	119.8	120.4	120.4	29.48	28.81	27.90	38.5	38.4	38.2	76.2	74.9	73.2
Petroleum refining.....	119.4	117.0	116.1	134.4	132.1	128.5	34.87	35.10	34.39	36.1	36.3	35.6	96.9	97.0	97.3
Other than petroleum refining.....	106.7	110.1	114.4	115.3	116.8	117.9	26.97	26.11	25.26	39.5	39.1	39.1	68.0	66.8	65.0
Chemicals.....	114.5	114.5	115.0	129.1	128.9	127.9	31.07	31.00	30.66	40.0	39.9	39.5	77.7	77.6	77.7
Cottonseed—oil, cake, and meal.....	47.2	64.9	73.5	40.9	52.0	60.3	13.37	12.39	12.75	42.2	40.5	42.2	30.5	30.0	29.9
Druggists' preparations.....	107.0	106.8	107.6	119.0	118.5	119.4	24.95	24.85	25.05	39.8	39.3	39.1	59.2	59.7	60.7
Explosives.....	85.9	82.0	80.8	96.3	91.2	89.5	30.92	30.68	30.57	38.4	38.3	37.7	80.6	80.0	81.1
Fertilizers.....	70.4	110.4	157.5	64.7	105.2	135.2	16.70	17.61	15.84	35.4	38.5	40.2	47.5	45.8	39.4

Paints and varnishes.....	119.3	118.4	117.6	126.4	127.3	123.2	28.62	29.12	28.24	41.1	41.5	40.7	69.7	70.1	69.7
Rayon and allied products.....	303.6	308.5	315.4	301.8	298.3	304.4	24.61	23.70	23.64	38.4	36.6	36.5	64.0	64.7	64.7
Soap.....	89.4	87.7	88.4	93.5	90.3	91.2	29.74	29.23	29.28	40.0	39.0	39.2	74.6	75.1	74.9
Rubber products.....	80.2	81.4	82.2	84.3	82.1	83.1	27.88	28.81	27.09	36.5	36.7	35.7	78.5	74.2	78.1
Rubber boots and shoes.....	58.0	61.0	60.7	57.5	56.8	59.0	22.09	21.35	22.23	37.3	35.8	37.1	60.8	59.7	59.9
Rubber tires and inner tubes.....	66.7	67.2	67.2	76.8	73.5	73.6	33.06	31.46	31.48	34.9	33.2	33.3	94.7	94.4	94.7
Rubber goods, other.....	127.5	128.7	132.3	124.5	124.4	126.9	22.77	22.69	22.62	38.1	38.2	38.0	60.3	60.1	60.2

NONMANUFACTURING

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

Coal mining:															
Anthracite ¹	51.2	52.6	53.0	36.1	57.0	43.4	\$23.30	\$35.84	\$27.08	25.4	38.8	29.2	92.8	91.8	92.3
Bituminous ²	79.1	47.9	25.9	70.6	20.4	17.6	23.12	11.32	18.10	25.4	14.1	21.4	89.7	86.0	88.4
Metalliferous mining.....	61.2	61.9	61.5	53.9	54.1	52.6	27.50	27.03	27.03	39.3	40.0	39.1	70.6	69.1	69.5
Quarrying and nonmetallic mining.....	47.4	45.6	43.0	41.8	39.7	35.9	22.13	21.74	21.11	40.1	40.0	37.9	54.9	54.5	55.4
Crude-petroleum producing.....	67.0	66.1	65.8	62.4	61.2	60.8	33.74	34.04	33.90	38.8	38.8	38.1	86.9	86.1	87.2
Public utilities:															
Telephone and telegraph ³	76.1	75.5	74.1	93.6	93.7	92.1	30.44	30.72	30.81	39.1	38.8	39.0	80.9	81.8	81.7
Electric light and power and manufactured gas ³	92.2	91.0	90.3	100.2	98.8	96.9	33.99	33.82	33.47	40.1	40.1	39.1	84.9	84.6	85.5
Electric-railroad and motorbus operation and maintenance ³	69.9	69.6	69.1	71.2	70.1	69.6	33.24	32.89	32.83	46.3	45.6	45.6	71.0	71.2	71.2
Trade:															
Wholesale ³	88.1	87.2	87.3	75.7	74.9	74.8	29.97	29.72	29.75	42.1	42.1	41.6	71.4	71.1	71.9
Retail ³	86.4	85.7	85.5	72.5	71.5	71.3	21.36	21.19	21.29	42.7	42.4	42.4	55.1	55.0	54.8
General merchandising ³	97.4	96.8	96.9	88.1	86.7	86.6	18.05	17.90	17.86	39.2	38.9	39.0	48.7	48.8	48.4
Other than general merchandising ³	83.5	82.8	82.5	69.3	68.3	68.1	24.00	23.86	24.25	43.8	43.5	43.5	57.1	56.9	56.7
Hotels (year-round) ^{2,3,4}	93.2	93.9	93.2	82.1	82.4	81.9	15.06	15.22	15.01	46.9	46.6	46.6	32.4	32.4	31.7
Laundries ²	98.7	95.5	93.5	86.9	83.9	79.9	17.98	18.07	17.57	43.3	43.0	42.2	41.9	42.4	42.1
Dyeing and cleaning ²	109.9	107.0	102.2	84.1	83.0	73.3	20.98	21.12	19.71	43.5	43.9	41.0	48.8	49.1	49.2
Brokerage ^{3,5}	-1.9	-1.4	-3	-2.5	-1.1	-1.3	35.71	36.08	36.26	(6)	(6)	(6)	(6)	(6)	(6)
Insurance ^{3,5}	+4	+3	+1	+5	+6	+6	36.48	36.82	36.71	(6)	(6)	(6)	(6)	(6)	(6)
Building construction ⁵	+1.4	+6.7	+10.8	-7	+11.9	+14.9	30.87	31.40	29.92	33.4	33.5	31.2	92.8	94.1	96.2

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 not all reporting firms furnish man-hours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample. Hours and earnings for all manufacturing industries now relate to 87 industries instead of 89 which were covered in the July and prior issues of the pamphlet. The 2 industries excluded are electric- and steam-railroad repair shops. The averages for the durable-goods group have also been affected by this exclusion.

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

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

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

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

⁶ Not available.

**INDEXES OF EMPLOYMENT AND PAY ROLLS, JUNE 1938 THROUGH
JUNE 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 June 1938 to June 1939, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to June 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 the clerical field force. The coverage of the reporting samples for the various nonmanufacturing industries ranges from 25 percent for wholesale trade to 80 percent for quarrying and non-metallic mining and public utilities.

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

TABLE 6.—Indexes of Employment and Pay Rolls in Selected Manufacturing ¹ and Non-manufacturing ² Industries, June 1938 to June 1939, Inclusive

Industry	Employment													
	A. v. 1938	1938						1939						
		June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<i>Manufacturing</i>														
All industries.....	80.8	81.6	81.9	85.7	88.8	89.5	90.5	91.2	89.5	90.7	91.4	91.1	90.1	90.6
Durable goods ³	77.3	72.4	70.3	71.7	75.3	79.0	82.1	83.1	81.6	82.6	83.5	84.1	83.3	83.9
Nondurable goods ⁴	96.0	90.3	92.9	99.0	101.7	99.4	98.4	98.8	97.1	98.4	98.9	97.8	96.7	97.0
<i>Nonmanufacturing</i>														
Anthracite mining.....	52.3	56.0	44.6	37.6	46.4	52.4	51.0	51.3	50.0	52.2	51.7	53.0	52.6	51.2
Bituminous-coal mining.....	86.7	80.2	78.5	80.1	83.4	87.2	88.6	89.3	88.7	88.6	87.4	25.9	47.9	79.1
Metalliferous mining.....	59.0	56.0	49.7	51.4	55.2	57.9	61.9	62.3	62.6	60.9	61.0	61.5	61.9	61.2
Quarrying and nonmetallic mining.....	42.3	43.6	44.1	44.6	44.6	44.4	44.4	41.4	38.3	37.9	40.1	43.0	45.6	47.4
Crude-petroleum producing.....	72.1	72.8	72.3	72.4	71.5	69.5	68.3	67.8	67.0	66.4	66.2	65.8	66.1	67.0
Telephone and telegraph.....	75.1	74.8	74.9	74.8	74.9	74.7	74.4	74.3	74.1	73.3	73.4	74.1	75.5	76.1
Electric light and power, and manufactured gas.....	92.3	92.2	92.3	92.7	92.5	92.5	91.9	91.4	90.0	89.6	89.5	90.3	91.0	92.2
Electric-railroad and motorbus operation and maintenance.....	70.3	70.4	70.1	69.5	69.3	69.9	69.5	69.4	69.2	69.3	69.5	69.1	69.6	69.9
Wholesale trade.....	88.8	87.2	86.8	87.6	88.5	89.1	89.8	90.0	88.3	87.9	87.4	87.3	87.2	88.1
Retail trade.....	85.2	83.6	81.1	80.0	84.7	85.9	86.9	98.1	82.2	81.5	83.8	85.5	85.7	86.2
General merchandising.....	98.0	91.9	87.9	86.4	97.0	99.4	104.5	144.1	90.7	88.8	93.2	96.9	96.8	97.2
Other than general merchandising.....	81.8	81.4	79.3	78.3	81.5	82.3	82.3	86.0	80.0	79.6	81.3	82.5	82.8	83.3
Year-round hotels.....	92.7	92.2	90.7	90.4	91.8	92.9	92.5	92.0	91.8	92.6	92.7	93.2	93.9	93.2
Laundries.....	95.7	96.6	97.8	97.5	96.5	94.4	93.7	93.4	93.3	92.8	92.9	93.5	95.5	98.7
Dyeing and cleaning.....	104.3	110.8	108.6	105.0	107.8	106.8	102.5	97.9	94.2	92.1	95.4	102.2	107.0	109.9
<i>Manufacturing</i>														
All industries.....	77.5	70.8	70.6	76.9	81.0	83.8	84.1	86.5	83.4	85.5	86.9	84.9	84.4	85.9
Durable goods ³	68.2	61.7	58.6	63.7	68.7	75.2	78.3	80.4	76.6	78.5	80.1	80.2	79.5	81.4
Nondurable goods ⁴	88.0	80.9	84.1	91.7	94.9	93.4	90.6	93.4	91.0	93.3	94.6	90.2	89.9	91.0
<i>Nonmanufacturing</i>														
Anthracite mining.....	38.2	49.7	20.2	20.0	29.4	43.4	36.2	42.5	38.0	45.2	34.2	43.4	57.0	36.1
Bituminous-coal mining.....	67.9	57.0	56.8	64.2	71.9	78.3	81.4	80.9	78.2	81.2	77.8	17.6	20.4	70.6
Metalliferous mining.....	50.4	46.1	38.0	43.7	46.1	49.2	52.3	54.1	55.3	53.4	53.6	52.6	54.1	53.9
Quarrying and nonmetallic mining.....	35.1	37.3	37.0	39.2	38.4	39.2	37.2	33.7	30.2	29.7	33.1	35.9	39.7	41.8
Crude-petroleum producing.....	66.5	67.6	66.7	66.8	66.5	63.7	63.2	62.5	60.9	62.7	61.3	60.8	61.2	62.4
Telephone and telegraph.....	92.1	90.9	90.9	91.3	92.6	95.3	93.0	92.5	92.0	91.7	91.9	92.1	93.7	93.6
Electric light and power, and manufactured gas.....	98.5	98.6	98.3	98.0	98.4	99.9	98.6	98.2	95.9	96.4	96.7	96.9	98.8	100.2
Electric-railroad and motorbus operation and maintenance.....	60.7	69.7	69.0	69.5	68.4	68.9	68.8	69.7	71.1	69.9	70.5	69.6	70.1	71.2
Wholesale trade.....	74.7	73.8	73.6	73.7	74.3	75.1	75.4	75.7	75.5	74.6	74.7	74.8	74.9	75.7
Retail trade.....	70.4	69.5	68.1	66.8	69.4	70.8	71.5	79.2	69.7	68.4	69.6	71.3	71.5	72.5
General merchandising.....	87.8	84.3	80.4	78.8	85.3	88.3	91.8	122.9	84.0	81.0	83.4	86.6	86.7	88.1
Other than general merchandising.....	66.8	66.4	65.6	64.3	66.1	67.2	67.3	70.1	66.7	65.8	66.8	68.1	68.3	69.3
Year-round hotels.....	80.3	79.6	77.4	77.4	78.9	80.8	81.3	81.1	80.2	82.8	81.1	81.9	82.4	82.1
Laundries.....	80.6	81.8	83.0	83.1	81.4	79.5	79.3	80.0	79.6	78.6	79.3	79.9	83.9	86.9
Dyeing and cleaning.....	75.3	83.3	77.5	74.3	81.7	78.0	73.9	68.3	65.8	63.2	67.7	73.3	83.0	84.1

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.

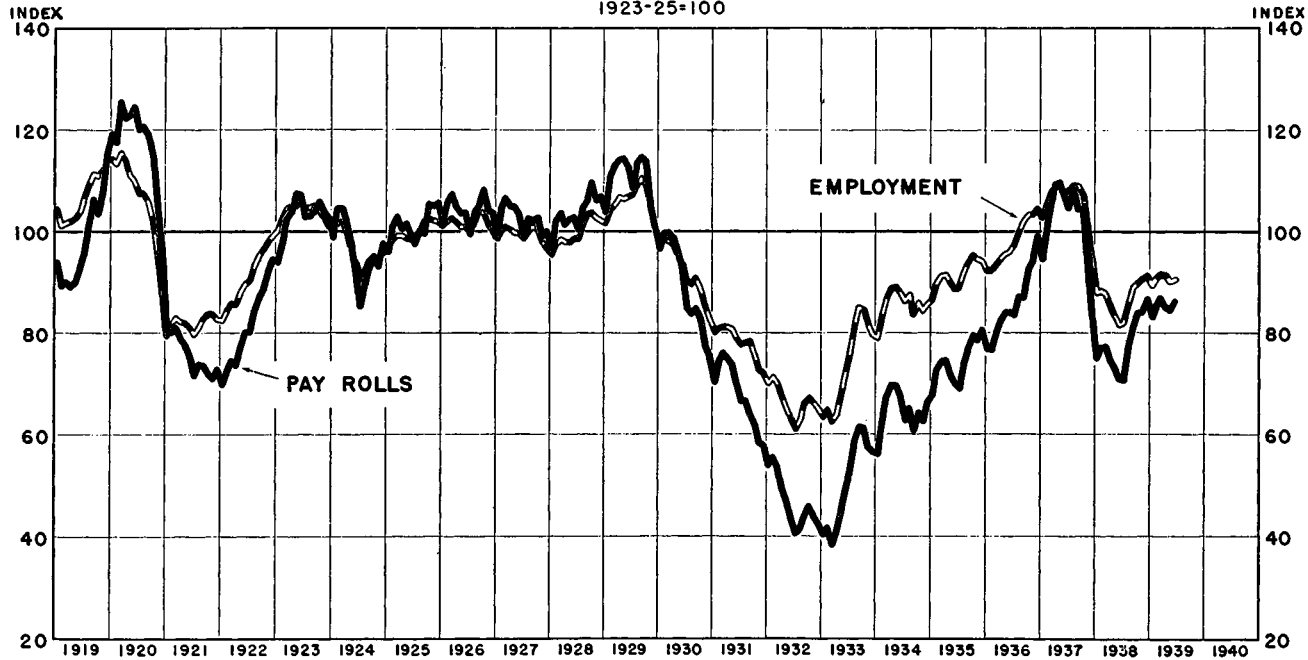
² 12-month average for 1929=100. Comparable indexes are in November 1934 and subsequent issues of Employment and Pay Rolls, or in February 1935 and subsequent issues of Monthly Labor Review, except for anthracite and bituminous-coal mining, year-round hotels, laundries, and dyeing and cleaning. Indexes 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.

EMPLOYMENT AND PAY ROLLS ALL MANUFACTURING INDUSTRIES

1923-25=100



UNITED STATES BUREAU OF LABOR STATISTICS

TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in May and June 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 June 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 June 1939	Percentage change from May 1939	Amount of pay roll (1 week) June 1939	Percentage change from May 1939	Number of establishments	Number on pay roll June 1939	Percentage change from May 1939	Amount of pay roll (1 week) June 1939	Percentage change from May 1939
				<i>Dollars</i>				<i>Dollars</i>		
New England.....	12, 658	858, 733	+0.3	19, 834, 004	+1.4	3, 641	589, 019	+ ⁽¹⁾ 12, 898, 336	+1.3	
Maine.....	773	55, 473	+3.4	1, 075, 508	+5.6	283	47, 097	+3.7	883, 327	+6.1
New Hampshire.....	605	39, 510	+1	799, 267	+0.9	217	33, 775	-3	670, 725	+6
Vermont.....	443	16, 976	+6	377, 915	+1.9	152	10, 957	-9	242, 209	+1.8
Massachusetts.....	² 7, 316	469, 655	-1	10, 898, 949	+1.0	1, 818	260, 317	-7	5, 756, 365	+8
Rhode Island.....	1, 150	99, 847	+3	1, 920, 632	+2.6	439	74, 529	+2	1, 532, 465	+2.6
Connecticut.....	1, 871	195, 272	+4	4, 763, 733	+1.0	737	162, 344	+3	3, 813, 245	+7
Middle Atlantic.....	31, 274	2, 037, 928	+2.1	53, 779, 485	+2.5	6, 642	1, 198, 583	+8	30, 893, 416	+3.0
New York.....	19, 830	912, 454	+5	25, 333, 209	+1.4	² 2, 619	427, 886	+6	11, 662, 375	+1.9
New Jersey.....	3, 890	354, 877	+1.1	9, 267, 541	+1.9	1, 629	287, 396	+9	7, 378, 819	+1.9
Pennsylvania.....	7, 554	770, 597	+4.4	19, 178, 735	+4.2	2, 364	468, 301	+3	11, 952, 222	+4.9
East North Central.....	24, 552	2, 028, 695	+3	55, 324, 775	+2.8	8, 461	1, 524, 818	+4	443, 415, 945	+5.6
Ohio.....	6, 763	514, 153	+1.4	13, 387, 189	+4.4	2, 417	391, 434	+2	10, 741, 218	+3.6
Indiana.....	² 2, 824	247, 415	+9	6, 322, 733	+2.7	1, 050	196, 698	+1	7, 5, 178, 363	+9.1
Illinois.....	⁶ 8, 869	593, 730	+2	15, 717, 352	+8	2, 444	591, 217	-7	10, 368, 133	+1.3
Michigan.....	3, 689	432, 013	-1.7	13, 197, 011	+3.5	1, 070	379, 971	-4	12, 850, 856	+14.3
Wisconsin.....	⁴ 4, 407	241, 384	+1.3	6, 198, 490	+2.5	1, 480	166, 198	+1	4, 277, 275	+3.1

For footnotes see end of table.

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

Geographic division and State	Total—all groups					Manufacturing				
	Number of establishments	Number on pay roll June 1939	Percentage change from May 1939	Amount of pay roll (1 week) June 1939	Percentage change from May 1939	Number of establishments	Number on pay roll June 1939	Percentage change from May 1939	Amount of pay roll (1 week) June 1939	Percentage change from May 1939
				<i>Dollars</i>					<i>Dollars</i>	
West North Central	11,611	430,400	+1.5	10,667,725	+1.9	2,478	212,111	+2.7	5,230,294	+2.5
Minnesota.....	⁸ 2,856	150,906	+2.7	3,638,198	+2.8	641	62,406	+3.0	1,386,243	+1.7
Iowa.....	1,836	60,698	+1.8	1,400,718	+2.2	376	36,591	+3.0	904,781	+1.2
Missouri.....	2,638	145,046	+1.9	3,464,482	+2.5	796	86,050	+2.1	1,994,271	+4.4
North Dakota.....	471	4,619	+1.7	113,084	-3.2	29	550	+8.7	13,956	+8.5
South Dakota.....	440	8,399	+4.2	216,426	+2.2	31	2,442	+8.3	66,436	+7.0
Nebraska.....	1,053	25,815	-9.9	598,986	+(-)	139	9,106	+1.6	232,836	+1.1
Kansas.....	⁹ 2,317	64,918	¹⁰ +1.7	1,275,831	+4.3	466	24,666	+3.0	631,771	+1.8
South Atlantic	10,489	847,072	+3.3	16,372,858	+10.3	2,974	591,653	-4.4	10,407,918	+1.1
Delaware.....	224	15,078	-2.2	370,191	+1.8	30	10,865	-0.8	263,990	+2.2
Maryland.....	1,687	156,245	+1.6	3,400,772	+4.8	638	96,408	+4.1	2,402,711	+3.2
District of Columbia.....	1,027	37,306	+4.4	1,021,259	+6.8	44	3,446	+1.1	119,493	+1.9
Virginia.....	1,906	108,678	+2.9	2,030,926	+4.8	466	77,093	+5.1	1,382,357	+1.3
West Virginia.....	1,099	125,620	+28.1	3,116,876	+76.5	212	45,337	+2.0	1,102,151	+4.1
North Carolina.....	1,663	179,694	-1.3	2,631,990	-1.1	699	166,357	-1.3	2,397,450	-1.2
South Carolina.....	754	87,877	-3.1	1,246,024	-1.4	249	81,018	-2.1	1,117,432	-1.6
Georgia.....	1,373	113,851	-1.3	1,736,862	-1.1	388	89,435	-1.6	1,278,870	-1.3
Florida.....	936	42,725	-3.7	767,958	-3.3	198	21,699	-4.1	343,462	-3.5
East South Central	4,032	269,883	+7.4	4,933,433	+11.3	1,021	174,334	+1.1	2,963,324	+(-)
Kentucky.....	1,256	74,532	+25.0	1,634,117	+37.1	279	32,949	+1.7	692,689	+1.7
Tennessee.....	1,181	98,668	+7.1	1,745,813	+1.1	365	73,088	+3.1	1,261,340	+1.5
Alabama.....	1,048	78,643	+3.9	1,274,145	+2.7	284	56,750	-0.8	852,094	-2.3
Mississippi.....	547	18,040	+1.4	279,358	+1.4	93	11,547	-1.1	197,201	+1.4
West South Central	5,378	212,466	+4.4	4,706,793	+8.8	1,243	103,898	+5.6	2,219,847	+1.9
Arkansas.....	¹¹ 834	26,398	+1.1	401,711	+4.4	248	16,716	+1.3	265,986	+1.6
Louisiana.....	989	53,104	+(-)	1,051,307	+1.8	239	29,316	-1.0	546,934	+2.2
Oklahoma.....	1,345	38,976	+7.7	972,319	+4.4	141	11,031	+3.2	264,574	+1.9
Texas.....	¹² 2,210	94,988	+6.6	2,281,456	+5.6	615	46,835	+4.4	1,152,353	+1.0
Mountain	3,745	103,780	-2.2	2,628,894	+3.0	556	33,543	+3.3	889,637	+1.4
Montana.....	591	16,732	-2.6	472,104	-1.0	73	4,602	+2.7	124,171	+2.6
Idaho.....	450	8,981	+2.3	228,553	+2.8	61	3,001	+7.3	79,753	+9.0
Wyoming.....	203	7,950	+3.5	221,647	+35.7	37	1,425	+10.5	45,621	+6.5
Colorado.....	1,113	35,985	-1.7	906,009	+1.9	196	14,344	+7.3	385,601	-1.3
New Mexico.....	285	5,865	-6.9	114,540	-13.8	30	742	-3.3	14,128	+1.6
Arizona.....	364	10,174	+5.5	258,537	-6.6	40	2,858	+2.9	67,759	-3.1
Utah.....	493	15,831	+4.8	364,243	+8.9	105	6,222	+7.5	144,661	+4.7
Nevada.....	156	2,261	+2.1	66,171	-3.1	14	259	+1.8	7,933	+3.5
Pacific	10,419	477,247	+2.1	13,783,480	+1.9	2,697	250,477	+2.8	7,106,125	+2.9
Washington.....	2,484	89,800	+4.1	2,483,688	+4.0	550	52,909	+4.0	1,473,610	+3.7
Oregon.....	1,179	47,364	+6.5	1,246,461	+4.0	296	29,388	+10.7	744,483	+6.1
California.....	¹³ 6,756	340,083	+1.1	10,053,431	+1.1	1,851	168,180	+1.8	4,888,032	+2.1

¹ Less than 1/10 of 1 percent.

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

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

⁴ Weighted percentage change.

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

⁶ Includes construction but not public works.

⁷ Does not include logging.

⁸ Includes banks; real estate; pipe-line transportation; motor transportation (other than operation and maintenance); water transportation; hospitals and clinics; and personal, business, mechanical repair, and miscellaneous services.

⁹ Includes financial institutions, miscellaneous services, and restaurants.

¹⁰ Weighted percentage change, including hired farm labor.

¹¹ Includes automobile dealers and garages; and sand, gravel, and building stone.

¹² Includes banks, insurance, and office employment.

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

A comparison of employment and pay rolls in May and June 1939 is made in table 8 for 13 metropolitan areas each of 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 specify 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 nonmanufacturing industries presented in table 4, with the exception of building construction, and include also miscellaneous industries.

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

TABLE 8.—Comparison of Employment and Pay Rolls in Identical Establishments in May and June, by Principal Metropolitan Areas

Metropolitan area	Number of establishments, June 1939	Number on pay roll, June 1939	Percentage change from May 1939	Amount of pay roll (1 week), June 1939	Percentage change from May 1939
New York ¹	14, 293	616, 380	-0.3	\$16, 898, 114	+0.3
Chicago ²	4, 434	417, 263	+1.0	11, 654, 996	+1.5
Philadelphia ³	2, 085	198, 111	+0.6	5, 326, 569	+2.5
Detroit.....	1, 565	272, 582	-1.2	9, 000, 848	+4.6
Los Angeles ⁴	2, 815	150, 553	+2.6	4, 406, 788	+2.8
Cleveland.....	1, 602	110, 148	+0.7	3, 072, 572	+1.9
St. Louis.....	1, 385	112, 214	+0.9	2, 805, 571	+2.0
Baltimore.....	1, 153	103, 583	+1.1	2, 612, 489	+4.3
Boston ⁵	3, 007	168, 444	-0.5	4, 222, 158	+1.5
Pittsburgh.....	1, 064	161, 950	+3.6	4, 524, 427	+0.7
San Francisco ⁶	1, 564	77, 183	+3.1	2, 312, 268	+3.0
Buffalo.....	779	63, 902	+0.8	1, 725, 207	+3.2
Milwaukee.....	1, 014	97, 241	-0.6	2, 712, 892	+0.9

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 Does not include Cambridge, Lynn, and Somerville.

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 May and June 1939 are given in table 9.

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

[Subject to revision]

Class	Employment		Per-centage change	Pay rolls		Per-centage change
	June	May ²		June	May ²	
Entire service:						
Total.....	925, 260	903, 112	+2.5	\$140, 140, 533	\$136, 408, 999	+2.7
Regular appropriation.....	772, 598	756, 101	+2.2	120, 582, 742	117, 875, 565	+2.3
Emergency appropriation.....	66, 376	67, 310	-1.4	8, 663, 841	8, 711, 632	-.5
Force-account (regular and emergency).....	86, 286	79, 701	+8.3	10, 893, 950	9, 821, 802	+10.9
Inside the District of Columbia:						
Total.....	123, 505	122, 792	+ .6	22, 178, 128	21, 951, 284	+1.0
Regular appropriation.....	107, 700	107, 103	+ .6	19, 609, 296	19, 462, 739	+ .8
Emergency appropriation.....	10, 131	10, 050	+ .8	1, 598, 296	1, 581, 338	+1.1
Force-account (regular and emergency).....	5, 674	5, 639	+ .6	970, 536	907, 207	+7.0
Outside the District of Columbia:						
Total.....	801, 755	780, 320	+2.7	117, 962, 405	114, 457, 715	+3.1
Regular appropriation.....	664, 898	648, 998	+2.4	100, 973, 446	98, 412, 826	+2.6
Emergency appropriation.....	56, 245	57, 260	-1.8	7, 065, 545	7, 130, 294	-.9
Force-account (regular and emergency).....	80, 612	74, 062	+8.8	9, 923, 414	8, 914, 595	+11.3

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

² Revised.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

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

TABLE 10.—*Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, June 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.....	1, 669	1, 536	\$126, 449	210, 522	\$0. 601	\$223, 268
Building construction.....	85	72	11, 216	8, 549	1. 312	1, 109
Naval vessels.....	38	38	6, 438	6, 768	. 951	43, 742
Public roads ³	(9)	664	42, 559	78, 035	. 545	57, 000
Reclamation.....	317	297	40, 290	51, 511	. 782	10, 592
River, harbor, and flood control.....	328	246	20, 718	35, 696	. 580	86, 730
Water and sewerage.....	231	214	4, 871	20, 321	. 166	24, 095
Miscellaneous.....	6	5	357	642	. 556	0

For footnotes see end of table.

TABLE 10.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, June 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.....	39,069	34,237	\$4,109,042	4,470,172	\$0.919	\$4,551,797
Airport construction (exclusive of buildings).....	482	452	50,719	87,038	.577	136,693
Building construction.....	24,612	20,950	2,427,466	2,585,798	.939	3,584,061
Electrification.....	545	522	41,845	54,727	.765	90,284
Reclamation.....	0,104	8,537	1,103,147	1,235,872	.965	383,651
River, harbor, and flood control.....	628	567	77,033	85,296	.903	121,202
Ship construction.....	1,158	993	90,478	110,857	.816	57,323
Streets and roads.....	398	340	34,288	41,756	.821	51,563
Water and sewerage.....	507	441	26,346	37,278	.707	50,314
Miscellaneous.....	790	677	64,059	87,259	.734	61,191
Professional, technical, and clerical.....	845	738	103,661	143,391	.723	8,915
Non-Federal projects financed from National Industrial Recovery Act funds						
All projects ¹	4,662	3,959	\$621,018	453,892	\$1.370	\$587,933
Building construction ²	2,981	2,640	514,037	320,021	1.606	303,676
Railroad construction.....	9	9	60	88	.730	0
Streets and roads.....	504	375	14,630	24,785	.591	72,901
Water and sewerage.....	634	446	60,034	43,280	1.387	77,659
Miscellaneous.....	534	483	32,845	65,718	.500	133,697
Projects financed from Emergency Relief Appropriation Act 1935, 1936, and 1937 funds³						
All projects.....	10,146	15,999	\$1,936,132	2,138,423	\$0.905	\$3,510,292
Building construction.....	8,522	7,076	821,791	837,483	.981	1,224,287
Electrification.....	628	513	47,148	65,069	.718	106,346
Heavy engineering.....	4,495	3,800	474,930	554,105	.857	1,014,914
Reclamation.....	1,198	1,012	114,264	170,542	.670	82,867
Streets and roads.....	642	526	33,511	48,891	.685	95,654
Water and sewerage.....	3,661	3,072	444,468	461,733	.963	473,696
Miscellaneous.....						512,528
Non-Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	228,557	187,397	\$19,162,964	22,343,400	\$0.858	\$37,661,151
Building construction.....	130,868	114,433	11,813,170	12,856,433	.919	20,807,993
Electrification.....	2,462	1,910	174,921	223,422	.783	383,905
Heavy engineering.....	12,094	10,269	1,668,568	1,501,895	1.111	2,293,509
Reclamation.....	463	352	31,145	47,776	.652	34,056
River, harbor, and flood control.....	702	609	62,600	74,435	.841	230,331
Streets and roads.....	41,502	33,387	2,768,080	4,056,667	.682	5,024,457
Water and sewerage.....	30,645	25,830	2,502,988	3,518,384	.737	5,000,845
Miscellaneous.....	731	607	51,474	64,388	.799	3,685,665

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

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

³Includes weekly average for public roads.

⁴Under the jurisdiction of the Bureau of Public Roads.

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

⁶Includes 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.

⁷These 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 10 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-rent 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, locomotive and passenger- and freight-car building in commercial shops.

UNITED STATES HOUSING AUTHORITY

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

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

Table 11 shows data for June 1939 on projects of the U. S. Housing Authority. These figures pertain only to new projects under the U. S. Housing Authority and not to those formerly under the Public Works Administration.

TABLE 11.—*Employment and Pay Rolls on Low-Rent Housing Projects Operated by the United States Housing Authority, June 1939*

[Subject to revision]

Geographic division	Employment		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ¹	Weekly average				
Six divisions.....	8,679	7,415	\$1,118,077	969,644	\$1.153	\$2,264,690
Middle Atlantic.....	5,815	5,012	889,179	676,286	1.315	1,370,804
East North Central.....	841	715	92,591	96,410	.960	148,510
West North Central.....	51	43	3,579	6,803	.526	0
South Atlantic.....	971	820	65,283	95,907	.681	271,939
East South Central.....	775	640	52,634	68,686	.766	455,540
West South Central.....	226	185	14,811	25,552	.580	17,887

¹ 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 June is shown in table 12, by type of project.

TABLE 12.—*Employment and Pay Rolls on Projects Financed by The Works Program, June 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	Weekly average				
Federal projects						
All projects.....	2 183, 749	167, 976	\$8, 590, 116	20, 017, 961	\$0. 429	\$1, 181, 312
Airport construction (exclusive of buildings).....	205	204	12, 230	22, 587	. 541	353
Building construction.....	73, 457	65, 935	3, 786, 275	7, 290, 471	. 519	507, 535
Electrification.....	95	92	5, 519	12, 588	. 438	330
Forestry ²	17, 808	15, 872	727, 684	1, 913, 464	. 380	91, 050
Grade-crossing elimination ³	1, 323	1, 090	68, 965	118, 328	. 583	49, 061
Hydroelectric power plants ⁴	1, 040	583	19, 263	72, 496	. 260	28, 377
Plant, crop, and livestock conservation ⁵	16, 942	14, 940	827, 980	2, 105, 007	. 393	55, 730
Professional, technical, and clerical.....	6, 825	6, 557	500, 103	770, 156	. 649	23, 961
Public roads ⁶	880	669	50, 565	78, 707	. 642	66, 030
Reclamation.....	36, 324	35, 064	1, 693, 085	4, 279, 647	. 396	203, 526
River, harbor, and flood control.....	2, 841	2, 365	146, 711	265, 506	. 553	72, 031
Streets and roads.....	15, 299	14, 739	338, 561	1, 858, 098	. 182	21, 660
Water and sewerage.....	1, 072	1, 014	45, 059	112, 738	. 400	1, 203
Miscellaneous.....	9, 637	8, 912	368, 116	1, 118, 148	. 329	60, 465
Public Works Administration projects financed from Emergency Relief Appropriation Act funds of 1935, 1936, and 1937⁶						
All projects.....	2 19, 146	15, 999	\$1, 936, 132	2, 138, 423	\$0. 905	\$3, 510, 292
Building construction.....	8, 522	7, 076	821, 791	837, 483	. 981	1, 224, 287
Electrification.....	628	513	47, 148	65, 069	. 718	106, 346
Heavy engineering.....	4, 495	3, 800	474, 930	554, 105	. 857	1, 014, 914
Reclamation.....	1, 198	1, 012	114, 284	170, 542	. 670	82, 867
Streets and roads.....	642	526	33, 511	48, 891	. 685	95, 654
Water and sewerage.....	3, 661	3, 072	444, 468	461, 733	. 963	473, 696
Miscellaneous.....						512, 528
Projects operated by Works Progress Administration⁷						
All projects.....	2 438, 254	.....	\$134, 376, 895	264, 748, 834	\$0. 508	(⁸)

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

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

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

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

⁵ These data are for projects under construction in Puerto Rico.

⁶ 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 June 24, 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 June 1939, inclusive, are shown in table 13. Similar data for Student Aid are shown from September 1935, the starting date, to May 1939, inclusive.

TABLE 13.—Employment and Pay Rolls on National Youth Administration Projects, Financed by The Works Program, From the Beginning of Program Through June 1939¹

[Subject to revision]

Year and month	Number of persons employed	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Work projects					
January 1936 to June 1939, inclusive.....		\$128, 912, 526	355, 544, 715	\$0. 363	\$16,636,992
January to December 1936.....		28, 883, 589	75, 827, 799	.381	
January to December 1937.....		32, 068, 342	87, 242, 108	.374	
January to December 1938.....		41, 558, 174	117, 910, 943	.352	
January 1939.....	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	
April 1939.....	227, 113	4, 332, 530	12, 455, 047	.348	
May 1939.....	223, 892	4, 271, 347	12, 267, 080	.348	
June 1939.....	212, 607	3, 962, 582	11, 224, 825	.353	
Student Aid					
September 1935 to May 1939, inclusive.....		\$88, 443, 128	300, 461, 072	\$0. 294	(²)
September to December 1935.....		6, 363, 503	19, 612, 976	.324	
January to December 1936.....		25, 914, 836	85, 517, 290	.303	
January to December 1937.....		24, 368, 503	83, 874, 409	.291	
January to December 1938.....		19, 681, 126	68, 750, 836	.286	
January 1939.....	370, 183	2, 252, 755	7, 952, 452	.283	
February 1939.....	376, 209	2, 424, 409	8, 577, 299	.283	
March 1939.....	378, 602	2, 443, 022	8, 624, 637	.283	
April 1939.....	383, 344	2, 495, 400	8, 813, 497	.283	
May 1939.....	372, 885	2, 499, 574	8, 737, 676	.286	

¹ Data are for a calendar month.

² Data on a monthly basis are not available. This total represents expenditures through Mar. 31, 1939, and includes rentals and services and some sponsors' contributions.

³ 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 May and June 1939 are presented in table 14.

TABLE 14.—Employment and Pay Rolls in the Civilian Conservation Corps, May and June 1939¹

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	June	May	June	May
All groups.....	302, 339	335, 902	\$14, 132, 205	\$15, 022, 973
Enrolled personnel ²	264, 532	297, 462	8, 276, 096	9, 317, 489
Reserve officers.....	4, 779	4, 980	1, 114, 824	1, 280, 945
Nurses ³	312	308	32, 662	33, 032
Educational advisers ³	1, 576	1, 589	267, 604	270, 398
Supervisory and technical ³	31, 140	31, 563	4, 440, 029	4, 121, 109

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

² June data include 3,898 enrollees and pay roll of \$88,189 outside continental United States; in May the corresponding figures were 3,918 enrollees and pay roll of \$86,262.

³ Included in executive service, table 2.

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 June are presented in table 15, by type of project.

TABLE 15.—Employment and Pay Rolls on Projects¹ Financed by the Reconstruction Finance Corporation, by Type of Project, June 1939¹

[Subject to revision]

Type of project	Maximum number of wage earners ²	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects.....	2, 503	\$290, 517	357, 017	\$0. 814	\$371, 068
Building construction ³	1, 771	166, 841	220, 646	. 756	232, 605
Water and sewerage.....	732	123, 676	136, 371	. 907	138, 463

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 689 employees; pay-roll disbursements of \$64,414; 79,335 man-hours worked, and material orders placed on \$64,177 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 June are given in table 16, by type of project.

TABLE 16.—*Employment and Pay Rolls on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, June 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.....	\$ 248, 525	234, 938	\$26, 437, 806	36, 953, 112	\$0. 715	\$43, 545, 500
Building construction.....	16, 527	13, 501	1, 490, 256	1, 626, 248	. 916	2, 877, 816
Electrification:						
Rural Electrification Administration projects ⁴	12, 536	10, 472	666, 790	1, 377, 873	. 484	2, 806, 986
Other than R. E. A. projects.....	84	61	5, 374	6, 768	. 794	10, 876
Forestry.....	38	38	2, 375	5, 058	. 420	598
Heavy engineering.....	287	276	49, 516	34, 940	1. 417	497, 589
Public roads ⁵	(6)	89, 803	8, 812, 810	14, 616, 939	. 603	14, 668, 917
Reclamation.....	13, 883	13, 389	1, 776, 456	2, 158, 885	. 823	2, 264, 891
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	32, 498	28, 196	2, 955, 722	4, 579, 737	. 646	3, 123, 354
Locks and dams.....	8, 997	8, 490	1, 109, 367	1, 505, 658	. 737	902, 350
Ship construction:						
Naval vessels.....	54, 802	53, 083	7, 863, 304	8, 836, 273	. 890	9, 354, 987
Other than naval vessels.....	14, 540	13, 543	1, 411, 627	1, 709, 631	. 826	5, 497, 287
Streets and roads.....	3, 163	2, 921	196, 352	365, 946	. 537	308, 899
Water and sewerage.....	265	230	27, 628	30, 959	. 892	39, 636
Miscellaneous.....	1, 072	935	67, 229	97, 597	. 689	1, 101, 314

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-ROAD PROJECTS

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

TABLE 17.—Employment and Pay Rolls on Construction and Maintenance of State Roads, June 1939, May 1939, and June 1938 ¹

[Subject to revision]

Type of construction	Number of employees ²			Pay-roll disbursements		
	June 1939	May 1939	June 1938	June 1939	May 1939	June 1938
Total.....	141,750	131,815	179,867	\$10,743,330	\$9,765,000	\$12,059,910
New roads.....	20,177	15,696	19,875	1,417,300	1,093,200	1,445,870
Maintenance.....	121,573	116,119	159,992	9,326,030	8,672,400	10,614,040

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 second quarter of 1939 is presented in table 18.

In the second quarter of 1939 on the Public Works Administration program, orders were placed for materials valued at approximately \$117,544,000. Of this amount \$38,836,000 was expended for iron and steel products, \$16,513,000 for machinery, \$14,894,000 for cement and concrete products, and \$13,377,000 for forest products.

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

Estimates have been made of the man-months of labor created in fabricating the materials used on the various programs (see table 3). The estimates include only the labor required in the fabrication of material in the form in which it is to be used. No estimate is made of the labor required in producing the raw materials or in transporting them to the point of manufacture. In manufacturing structural steel, for example, the only labor included is that occurring in the fabricating mills; no estimate is made for the labor created in mining, smelting, and transporting the ore; nor for the labor in 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 18.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second Quarter of 1939

[Subject to revision]

Type of material	Projects				
	Public Works Administration ¹	U. S. H. A. low-rent housing	Reconstruction Finance Corporation ²	Regular Federal appropriations	Federal construction under The Works Program
All materials.....	\$117,543,696	\$4,947,175	\$2,909,351	\$109,910,717	\$3,374,808
Textiles and their products.....	241,857	6,659	1,774	136,307	27,992
Awnines, tents, canvas, etc.....	3,530	-----	-----	9,564	905
Carpets and rugs.....	18,731	-----	691	16,063	-----
Cordage and twine.....	22,838	91	-----	24,625	2,822
Cotton products.....	2,589	-----	-----	244	97
Felt products.....	4,077	329	3	204	39
Jute products.....	11,416	405	-----	965	194
Linoleum and asphalted-felt-base floor covering.....	142,428	5,664	-----	39,244	17,980
Sacks and bags, other than paper.....	727	-----	-----	6,868	87
Upholstering, filling, batting, padding, and wadding.....	-----	-----	480	21,225	-----
Waste and related products.....	4,100	-----	-----	8,052	453
Textiles and their products, n. e. c.....	31,421	-----	600	9,253	5,415
Forest products.....	13,376,888	434,894	116,961	4,374,531	402,059
Cork products.....	48,468	7	-----	18,108	359
Furniture and related products.....	3,324,345	78,400	846	255,854	6,567
Lumber and timber products, n. e. c.....	6,544,631	194,472	85,044	3,570,512	348,203
Planing-mill products.....	3,398,713	159,063	31,071	522,262	46,284
Window and door screens and weatherstrip.....	20,429	2,932	-----	7,483	333
Forest products, n. e. c.....	40,302	-----	-----	312	253
Chemicals and allied products.....	1,066,852	10,647	29,146	709,225	125,256
Ammunition and related products.....	29	52	-----	-----	-----
Compressed and liquefied gases.....	31,860	21	3,438	18,590	4,363
Explosives.....	390,513	292	149	447,255	16,642
Paints, pigments, and varnishes.....	619,349	8,331	25,559	211,803	96,291
Chemicals and allied products, n. e. c.....	25,101	1,951	-----	31,577	7,960
Stone, clay, and glass products.....	36,457,639	1,340,253	604,713	25,049,621	869,420
Asbestos products, n. e. c.....	227,914	5,202	-----	12,364	127
Brick, hollow tile, and other clay products, n. e. c.....	8,030,910	515,968	127,234	424,848	80,032
Cement.....	6,862,969	269,677	316,762	11,565,571	422,446
Concrete products.....	8,719,537	319,311	15,533	874,368	65,763
Crushed stone.....	1,427,371	-----	972	4,277,899	70,579
Glass.....	503,604	1,079	11,633	59,049	4,779
Lime.....	75,791	22,918	377	6,577	1,272
Marble, granite, slate, and other stone, cut and shaped.....	3,846,821	11,728	21,150	621,668	45,568
Minerals and earths, ground or otherwise treated.....	2,893	-----	-----	424	-----
Sand and gravel.....	3,816,855	94,751	97,919	6,644,986	136,409
Steam and other packing, pipe and boiler covering, and gaskets.....	202,939	3,530	236	50,974	3,811
Tiling, floor and wall, and terrazzo.....	1,030,671	68,187	8,456	147,128	23,986
Wall plaster, wallboard, and building insulation.....	1,458,753	25,793	4,183	346,738	11,382
Stone, clay, and glass products, n. e. c.....	250,611	2,109	258	17,027	3,266
Iron and steel and their products, not including machinery.....	38,836,411	1,654,588	597,424	22,179,972	662,020
Bolts, nuts, washers, and rivets.....	270,522	119	2,269	380,002	10,998
Doors, shutters, window sash and frames, molding and trim, metal.....	2,273,026	211,824	122,470	958,998	18,131
Forgings, iron and steel.....	573,853	-----	185	1,598,360	12,620
Hardware, miscellaneous.....	1,828,824	84,879	42,811	549,314	99,051
Heating and ventilating equipment, except pipe.....	5,477,174	128,708	12,270	749,346	17,881

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

² Includes projects financed by RFC Mortgage Co.

TABLE 18.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second Quarter of 1939—Continued

Type of material	Projects				
	Public Works Administration	U. S. H. A. low-rent housing	Reconstruction Finance Corporation	Regular Federal appropriations	Federal construction under The Works Program
Iron and steel and their products, not including machinery—Continued.					
Nails and spikes.....	\$280,647	\$356	\$1,076	\$54,186	\$16,029
Pipe and fittings, cast-iron.....	4,685,644	136,121	8,614	639,971	56,825
Pipe and fittings, wrought-iron and steel.....	2,563,443	194,389	26,751	1,685,584	66,615
Plumbing fixtures and supplies, except pipe.....	2,825,422	118,026	27,218	330,401	60,556
Rail fastenings, except spikes.....	16,546	.....	80	.....	.....
Rails, steel.....	7,197	.....	915	1,145	.....
Springs, steel.....	48	.....	.....	.....	.....
Steel reinforcing.....	4,704,929	392,758	72,015	3,899,636	120,287
Steel, structural.....	9,309,648	99,344	135,616	6,926,692	83,438
Stoves and ranges, other than electric.....	28,469	179,784	.....	6	903
Switches, railway.....	41	.....	300	.....	.....
Tools, other than machine tools.....	398,952	6,280	9,095	199,257	29,329
Wire and wireworks products.....	573,430	4,706	6,934	842,060	47,258
Iron and steel and their products, n. e. c.....	3,038,596	97,294	129,405	3,364,874	22,099
Nonferrous metals and their products.....	2,082,978	192,424	13,913	650,224	19,908
Aluminum products.....	69,952	.....	4	76,325	.....
Copper products.....	496,574	.....	266	290,918	10,885
Lead products.....	71,882	6	.....	986	83
Sheet-metal products.....	1,344,191	24,575	13,607	190,580	6,365
Zinc products.....	580	.....	.....	100	.....
Nonferrous metals and their products, n. e. c.....	99,799	167,843	36	91,315	1,675
Machinery, not including transportation equipment.....	16,513,157	717,535	1,454,778	44,812,330	386,932
Electrical machinery, apparatus and supplies.....	3,442,027	62,731	442,991	11,493,634	95,723
Electrical wiring and fixtures.....	4,641,555	136,180	39,017	5,065,785	78,745
Elevators and elevator equipment.....	842,808	64,305	7,970	457,117	1,216
Engines, turbines, tractors, and water wheels.....	1,199,436	.....	15,589	10,524,873	29,621
Machine tools.....	181,117	98	1,029	388,757	11,170
Meters (gas, water, etc.) and gas generators.....	194,770	.....	8,655	95	218
Pumps and pumping equipment.....	1,222,390	15,141	36,739	1,686,431	17,487
Radio apparatus and supplies.....	18,742	.....	.....	1,821	.....
Refrigerators and refrigerating and ice-making apparatus.....	121,291	404,046	.....	43,622	749
Machinery, n. e. c.....	4,739,021	34,944	902,788	15,170,195	152,193
Transportation equipment, air, land, and water.....	306,641	68	.....	292,462	116,352
Aircraft parts.....	123	.....	.....	.....	.....
Boats, steel and wooden.....	1,624	.....	.....	38,382	355
Carriages and wagons.....	271	68	.....	640	875
Locomotives, other than steam.....	21,102	.....	.....	.....	.....
Locomotives, steam.....	13,886	.....	.....	.....	.....
Motor vehicles, passenger.....	3,517	.....	.....	48,462	1,893
Motor vehicles, trucks.....	232,771	.....	.....	160,260	64,638
Transportation equipment, n. e. c.....	33,347	.....	.....	44,718	48,591
Miscellaneous.....	8,661,273	590,077	90,642	11,706,045	765,769
Belting, miscellaneous.....	33	.....	875	7	613
Coal and coke.....	134,516	2,051	869	158,087	10,212
Creosote.....	318	.....	.....	.....	405
Instruments, professional and scientific.....	87,097	26	.....	174,806	1,372
Mattresses and bed springs.....	28,712	.....	.....	.....	115
Models and patterns.....	684	.....	.....	.....	.....
Paper products.....	20,020	3,707	21	12,213	470
Paving materials— <i>asphalt, tar, crushed slag, and mixtures</i>	1,558,918	.....	1,517	1,416,803	36,207
Petroleum products.....	1,752,286	14,287	10,808	3,932,489	181,561
Photographic apparatus and supplies.....	41,194	210	.....	20,935	2,811
Roofing— <i>built-up and roll, asphalt shingles and roof coatings, except paint</i>	943,382	21,614	23,230	89,785	41,230
Rubber products.....	152,643	344	3,550	106,726	19,256
Theatrical scenery and stage equipment.....	76,131	.....	.....	128,558	.....
Window shades and fixtures.....	35,661	37,049	.....	647	2,478
Other materials.....	3,829,678	510,798	49,772	5,664,989	469,039

Table 19 shows the value of material orders placed on construction projects financed by Federal funds during the first quarter of 1939, by type of project.

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

[Subject to revision]

Type of material	Total	Projects					
		Public Works Administration ¹	U. S. H. A. low-rent housing	Reconstruction Finance Corporation ¹	Regular Federal	Federal construction under The Works Program	Operated by W. P. A.
	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
All materials.....	286,299,965	102,018,564	3,090,065	1,857,299	91,210,597	3,320,704	84,802,736
Textiles and their products.....	5,949,884	192,374	1,006	292	100,445	9,372	5,676,395
Forest products.....	25,256,793	11,897,500	307,190	131,682	3,041,441	313,169	9,568,756
Furniture and related products.....	1,508,886	1,199,881	5,140	9,355	93,016	4,606	196,888
Lumber and timber products, n. e. c.....	19,174,334	6,684,100	156,473	103,914	2,608,036	249,943	9,371,868
Forest products, n. e. c.....	4,573,518	4,013,519	145,577	18,413	310,389	55,620	-----
Chemicals and allied products.....	4,477,414	872,613	8,335	128,650	612,017	131,387	2,724,413
Paints, pigments, and varnishes.....	2,198,597	505,206	1,998	92,895	184,839	36,781	1,376,878
Other chemicals.....	2,278,817	367,407	6,337	35,755	427,178	94,606	1,347,534
Stone, clay, and glass products.....	72,115,282	27,301,556	1,239,783	227,437	15,478,689	949,000	26,918,797
Brick, hollow tile, and other clay products.....	11,573,521	6,856,690	286,975	11,945	324,524	33,152	4,060,235
Cement.....	19,957,033	5,439,820	750,785	119,939	7,043,992	663,015	5,939,482
Concrete products.....	10,295,363	4,739,835	148,416	18,202	571,472	57,604	4,750,774
Crushed stone.....	7,096,474	1,424,636	-----	565	1,518,607	48,218	4,104,448
Sand and gravel.....	12,937,460	3,271,214	24,173	54,496	4,164,484	91,153	5,331,940
Other stone, clay, and glass products.....	10,255,411	5,569,301	29,434	22,230	1,855,610	55,858	2,722,918
Iron and steel and their products not including machinery.....	77,404,785	40,236,600	923,608	374,170	17,447,392	760,093	17,662,922
Heating and ventilating equipment.....	6,194,459	4,564,793	80,557	32,015	719,565	16,187	781,342
Pipe and fittings, cast-iron.....	8,712,307	4,279,333	79,943	10,903	438,389	37,254	3,866,485
Plumbing supplies, n. o. c.....	4,571,375	2,720,992	69,862	19,867	417,240	49,085	1,294,329
Structural and reinforcing steel.....	29,252,159	16,223,417	310,627	98,389	8,490,060	322,117	3,807,549
Tools, other than machine tools.....	2,133,989	284,186	2,994	12,138	203,076	77,174	1,554,421
Other products of iron and steel.....	26,540,496	12,163,879	379,625	200,858	7,179,062	258,276	6,358,796
Nonferrous metals and their products.....	4,612,774	1,449,517	101,757	10,258	2,498,757	22,883	529,603
Machinery, not including transportation equipment.....	82,609,585	14,425,103	172,725	800,933	42,348,612	362,879	4,499,333

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

² Includes projects financed by RFC Mortgage Co.

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

Type of material	Total	Projects					
		Public Works Administration	U.S.H.A. low-rent housing	Reconstruction Finance Corporation	Regular Federal	Federal construction under The Works Program	Operated by W. P. A.
Electrical machinery, apparatus, and supplies.....	<i>Dollars</i> 16,504,184	<i>Dollars</i> 3,105,691	<i>Dollars</i> 45,350	<i>Dollars</i> 323,793	<i>Dollars</i> 10,746,166	<i>Dollars</i> 75,317	<i>Dollars</i> 2,207,867
Engines, turbines, tractors, and water wheels.....	12,649,289	913,628	-----	59,125	11,564,375	67,019	45,142
Other machinery.....	33,456,112	10,405,784	127,375	418,015	20,038,071	220,543	2,246,324
Transportation equipment—air, land, and water.....	1,969,688	718,143	-----	1,835	222,709	168,300	857,701
Motor vehicles, trucks.....	1,235,869	235,984	-----	1,835	68,958	71,391	857,701
Other transportation equipment.....	732,819	482,159	-----	-----	153,751	96,909	-----
Miscellaneous.....	31,904,835	4,953,158	335,061	182,042	9,460,535	608,621	16,364,818
Coal.....	805,775	190,426	3,821	563	122,864	8,566	479,535
Paving materials and mixtures.....	6,907,252	691,627	-----	8,783	909,855	20,909	5,276,078
Petroleum products.....	6,594,072	1,263,910	11,634	17,888	2,865,723	191,718	2,243,199
Rubber goods.....	480,802	74,158	185	6,474	52,151	8,823	339,011
Other materials.....	17,116,934	2,735,037	320,021	148,334	5,509,942	376,605	8,026,995

The value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, by type of material, for the second quarter of 1939, the first quarter of 1939, and the second quarter of 1938 is shown in table 20.

TABLE 20.—Value of Material Orders Placed on Federal Professional, Technical, and Clerical Projects Financed by The Works Program

[Subject to revision]

Type of material	Second quarter of 1939	First quarter of 1939	Second quarter of 1938
All materials.....	\$59,298	\$56,056	\$115,360
Computing machines.....	-----	3,581	2,382
Furniture.....	1,610	8,949	14,404
Office supplies.....	12,742	15,020	21,663
Stationery.....	2,232	181	2,486
Typewriters.....	500	2,004	1,063
Other office machines.....	431	1,649	4,368
Other materials.....	32,548	21,600	34,224
Rental of machinery and equipment.....	9,235	3,072	34,770

Rentals and services on projects operated by the Works Progress Administration for the first quarter of 1939, the fourth quarter of 1938, and the first quarter of 1938 are shown in table 21, by type of rental and service.

TABLE 21.—*Rentals and Services on Projects Operated by Works Progress Administration*

[Subject to revision]

Type of rental and service	First quarter of 1939	Fourth quarter of 1938	First quarter of 1938
All rentals and services.....	\$66, 553, 240	\$65, 318, 550	\$53, 147, 699
Motor vehicles.....	31, 795, 286	30, 733, 795	22, 831, 410
Teams and wagons.....	777, 848	916, 090	935, 965
Paving, road building, and construction equipment.....	19, 078, 362	21, 503, 792	18, 650, 797
Other equipment (including office equipment).....	1, 687, 746	1, 566, 397	1, 819, 063
Space rentals and services.....	5, 850, 352	4, 916, 736	3, 043, 525
Other services (including utilities).....	7, 363, 646	5, 681, 740	5, 866, 939

Table 22 shows rentals and services on work projects of the National Youth Administration for the first quarter of 1939, the fourth quarter of 1938, and the first quarter of 1938.

TABLE 22.—*Rentals and Services on Work Projects of National Youth Administration*

[Subject to revision]

Type of rental and service	First quarter of 1939	Fourth quarter of 1938	First quarter of 1938
All rentals and services.....	\$752, 526	\$607, 598	\$730, 346
Motor vehicles.....	207, 162	153, 424	140, 502
Teams and wagons.....	6, 735	5, 890	9, 769
Paving, road building, and construction equipment.....	39, 001	45, 131	47, 509
Other equipment (including office equipment).....	96, 879	97, 308	104, 607
Space rentals and services.....	197, 637	180, 946	315, 476
Other services (including utilities).....	205, 112	124, 899	112, 463

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 23 shows the value of public contracts awarded under the act for supplies during the second quarter of 1939, the first quarter of 1939, and the second quarter of 1938.

TABLE 23.—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		
	Second quarter 1939 ¹	First quarter 1939	Second quarter 1938
All materials.....	\$106,869,077	\$131,443,375	\$108,127,846
Food and kindred products.....	1,046,129	1,486,504	3,042,572
Canned fruits and vegetables.....	268,078	60,016	348,864
Canned sea foods.....	16,085	.....	.....
Cereal preparations.....	14,716	14,452	15,356
Coffee and tea.....	535,446	319,472	533,240
Condensed and evaporated milk.....	279,665	104,525	701,005
Feeds, prepared, for animals and fowls.....	103,941	152,358	151,629
Flour and other grain mill products.....	114,368	111,459	118,508
Meat-packing products.....	180,708	163,651	308,235
Sugar.....	194,050	207,681	185,026
Miscellaneous subsistence stores and supplies.....	230,072	352,290	673,709
Textiles and their products.....	3,636,034	6,721,580	15,304,150
Canvas bags and covers.....	17,225	42,667	187,703
Clothing (overcoats, suits, trousers, etc.).....	.....	.....	1,505,399
Clothing, manufacture only.....	376,991	77,630	227,833
Cordage and twine, including thread.....	99,026	16,604	430,058
Cotton gloves.....	.....	.....	155,800
Cotton goods (drills, prints, sheeting, etc.).....	970,836	3,790,594	7,544,393
Cotton shirts.....	29,048	40,508	.....
Furnishing goods, men's, n. e. c.....	256,490	627,351	1,071,864
Housefurnishing goods (pillowcases, sheets, etc.).....	440,369	249,837	258,434
Knit goods (hosiery, underwear, etc.).....	169,135	462,929	1,810,262
Linoleum.....	43,509	.....	62,765
Woolen goods (fannels, suiting, etc.).....	683,197	470,928	470,987
Work clothing.....	187,317	178,491	676,204
Miscellaneous textile products.....	362,951	764,069	607,448
Forest products.....	1,407,612	523,961	1,249,244
Cork and cork products.....	49,000	.....	.....
Furniture.....	156,664	25,075	169,656
Lumber and timber products, n. e. c.....	170,430	395,089	201,463
Planing-mill products.....	1,031,518	82,420	665,956
Treated lumber and timber.....	.....	11,118	17,114
Miscellaneous forest products.....	.....	10,289	87,055
Chemicals and allied products.....	2,027,802	3,015,088	3,318,780
Ammunition and related products.....	543,890	170,018	457,351
Compressed and liquefied gases.....	265,683	36,280	192,071
Explosives.....	677,679	136,205	247,448
Linsced oil.....	.....	107,598	11,453
Paints and varnishes.....	260,402	500,209	94,016
Soap and soap chips.....	203,186	163,351	155,375
Miscellaneous chemicals.....	667,962	1,851,477	2,161,066
Products of asphalt, coal, and petroleum.....	14,855,337	4,478,691	21,940,483
Asphalt, oil, tar, and mixtures.....	1,873,593	427,887	2,751,356
Coal and coke.....	659,031	167,007	1,969,100
Fuel oil.....	8,223,221	907,710	9,009,413
Gasoline.....	1,979,197	2,741,063	5,214,353
Lubricating oils and greases.....	1,949,881	43,884	2,118,668
Miscellaneous coal and petroleum products.....	170,414	191,140	877,593
Leather and its manufactures.....	169,300	14,310	2,464,195
Boots and shoes.....	.....	.....	1,872,682
Boots and shoe cut stock.....	.....	.....	128,875
Gloves.....	51,062	.....	54,897
Shoe upper-leather.....	.....	14,310	259,050
Miscellaneous leather goods.....	118,238	.....	148,291

See footnotes at end of table.

TABLE 23.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Continued

Type of materials	Value of contracts awarded		
	Second quarter 1939 ¹	First quarter 1939	Second quarter 1938
Stone, clay and glass products	\$3,807,687	\$4,160,913	\$14,330,059
Brick.....	145,665	65,350	103,915
Cement.....	1,471,772	1,975,107	6,018,173
Concrete pipe.....	78,337	562,222	210,887
Concrete, ready-mixed.....	424,263	304,594	960,054
Crushed stone.....	937,598	82,042	3,017,041
Glass.....	44,985	32,037	38,106
Granite and marble.....	25,732	153,138	594,376
Riprap stone.....	22,500	261,570	51,770
Sand and gravel.....	319,554	385,723	2,967,520
Soil, black earth.....	51,276	64,230	26,400
Terra cotta.....	.....	37,370	33,406
Tile, clay, including drain.....	63,904	14,100	.....
Vitrified clay and terra cotta pipe.....	76,158	94,934	29,556
Miscellaneous stone, clay, and glass products.....	145,993	128,493	269,855
Iron and steel and their products, not including machinery	8,390,450	5,687,451	9,345,922
Bolts, nuts, rivets, washers, etc.....	.....	43,234	23,899
Cast-iron pipe and fittings.....	191,155	187,772	165,171
Fencing materials.....	10,808	26,447	.....
Forgings, iron and steel.....	365,357	665,879	626,327
Hardware, miscellaneous.....	10,625	13,726	25,200
Metal doors, sash, and frames.....	161,227	53,622	.....
Metal furniture.....	331,514	208,163	121,303
Metal shingles and roofing.....	.....	13,460	.....
Pipe and fittings, n. e. c.....	.....	.....	85,415
Plumbing fixtures and supplies.....	25,145	.....	17,901
Rails, steel.....	31,160	224,571	505,220
Reinforcing steel.....	271,320	482,786	830,008
Steel pipe and fittings.....	294,641	193,331	339,674
Steel sheets, plates, shapes, and strips.....	2,242,423	1,298,703	196,377
Stoves and ranges, other than electric.....	135,320	38,554	216,860
Structural steel, fabricated, and sheet-steel piling.....	1,179,398	838,650	2,278,551
Tools, other than machine tools.....	44,350	13,850	272,846
Wire products.....	55,252	146,842	183,915
Miscellaneous iron and steel products.....	3,040,755	1,237,861	3,457,246
Nonferrous metals and their alloys	1,821,201	2,628,851	1,983,275
Aluminum manufactures.....	225,805	622,723	254,469
Brass products.....	281,853	82,189	128,169
Bronze products.....	38,750	27,524	.....
Copper products.....	559,304	116,025	38,612
Fixtures, gas and electric.....	77,552	50,953	28,183
Magnesium.....	25,340	.....	14,299
Nickel.....	101,500	122,440	12,089
Plated ware.....	10,470	.....	.....
Sheet-metal work.....	46,510	22,477	871,957
Tin.....	.....	80,640	38,600
Zinc.....	45,356	40,533	.....
Miscellaneous nonferrous metals and alloys.....	408,761	1,463,347	596,897
Machinery, not including transportation equipment and electrical equipment	9,248,544	6,442,688	5,172,699
Air-conditioning equipment.....	146,813	.....	34,088
Elevators and elevator equipment.....	48,979	20,850	.....
Engines, turbines, tractors, and parts.....	3,274,285	856,367	984,777
Filter and purification equipment.....	26,514	.....	13,382
Laundry machinery and equipment.....	28,275	10,756	36,081
Machine tools.....	1,639,673	2,264,848	615,051
Office machines.....	10,000	51,000	59,239
Power shovels and draglines.....	30,085	177,606	331,619
Printing and publishing machinery.....	133,634	.....	240,297
Pumps and pumping equipment.....	782,000	1,024,304	155,057
Refrigerators and refrigerating and ice-making machinery.....	.....	67,884	92,918
Road machinery.....	73,891	78,133	91,486
Windlasses, winches and capstans.....	313,023	96,167	313,351
Miscellaneous machinery and parts.....	2,741,372	1,794,773	2,205,353

See footnotes at end of table.

TABLE 23.—*Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Continued*

Type of materials	Value of contracts awarded		
	Second quarter 1939 ¹	First quarter 1939	Second quarter 1938
Electrical machinery, apparatus, and supplies.....	\$5,495,044	\$4,802,185	\$4,120,420
Batteries.....	37,537	-----	75,832
Circuit breakers and switches.....	245,924	811,678	623,897
Electric cable, wire, and other conductors.....	1,738,435	482,668	994,404
Generators and spare parts.....	194,413	303,763	572,157
Heaters and ranges.....	-----	40,153	28,057
Motors.....	155,565	131,931	18,179
Radio equipment and supplies.....	1,678,264	987,828	534,047
Spark plugs.....	188,641	-----	81,767
Switchboards, relay and control equipment.....	149,525	370,868	200,138
Telephone and telegraph apparatus.....	432,508	186,707	228,490
Transformers.....	244,032	742,514	395,290
Welding equipment.....	14,520	86,737	71,314
Miscellaneous electrical machinery, apparatus and supplies.....	415,680	657,338	305,848
Transportation equipment.....	42,976,168	89,635,035	13,128,035
Aircraft.....	34,346,234	5,111,978	6,890,371
Aircraft parts and equipment.....	3,594,959	1,231,946	3,163,114
Boats and boat equipment.....	54,387	52,430	243,419
Motor vehicles, passenger.....	314,002	212,589	228,103
Motor vehicles, trucks.....	2,634,184	3,262,171	2,202,511
Naval vessels.....	1,818,622	79,642,000	-----
Miscellaneous transportation equipment.....	213,780	122,521	400,517
Miscellaneous.....	10,487,769	1,845,488	12,719,012
Brooms, brushes, bristles, etc.....	39,419	34,714	90,549
Dental goods and equipment.....	108,151	-----	34,117
Instruments, professional and scientific.....	2,242,560	390,361	607,072
Paper and allied products.....	4,561,241	256,604	4,791,574
Photographic apparatus and materials.....	607,443	57,041	614,887
Printing, publishing, and subscriptions.....	176,319	35,911	202,721
Rubber products.....	619,844	128,711	232,259
Slag.....	176,961	200,806	810,836
Steam and other packing, pipe and boiler covering.....	338,516	-----	429,012
Surgical and orthopedic supplies and appliances.....	62,306	75,129	140,139
Tobacco manufactures.....	12,563	-----	94,096
Other materials.....	533,540	354,501	2,798,649
Rentals, services, etc. ²	1,008,897	311,710	1,873,101

¹ Labor only. Materials furnished by the U. S. Government.

² Includes equipment rental, repairs, aerial surveys, etc.

The value of public contracts awarded for supplies by Federal agencies totaled \$106,869,000 during the second quarter of 1939. Of the contracts awarded in the second quarter of 1939, \$42,976,000 was for transportation equipment; \$14,855,000, for products of asphalt, coal, and petroleum; \$9,249,000, for machinery, not including electrical machinery and transportation equipment; and \$8,390,000, for iron and steel and their products.

