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EMPLOYMENT AND PAY ROLLS

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Employment and Pay Rolls

SUMMARY OF REPORTS FOR JUNE 1938

Total Nonagricultural Employment

THERE was a further decline of about 60,000 in nonagricultural employment in June, due primarily to reductions in factory working forces. In other major lines of activity employment was relatively stable except for seasonal changes. The figures do not take account of workers in agriculture or on Works Progress Administration and other Federal emergency projects.

Most of the larger industrial States of the East and North reported employment declines in June, including Michigan, Massachusetts, New York, and Pennsylvania. Among the industries contributing to the decline were automobiles, steel, machinery, shoes, textiles, and clothing.

There was an increase during June in the number of workers engaged on most of the works programs financed from Federal funds, as industrial employment continued to decline. The most marked gains occurred on work projects of the National Youth Administration, Federal projects under The Works Program, and on construction projects financed from regular Federal appropriations. In the regular services of the Federal Government increases occurred in the executive and legislative services and decreases occurred in the judicial and military services.

Industrial and Business Employment

In manufacturing industries, it is estimated that about 132,000 wage earners were laid off between mid-May and mid-June, a reduction of 1.9 percent. Factory pay rolls were reduced by 2.9 percent or approximately \$4,100,000 a week. Ordinarily factory employment and pay rolls decline from May to June, as indicated by the fact that during the period 1919 to 1937, inclusive, June employment has shown declines 10 times and June pay rolls 11 times. Since June 1937, when factories were operating near recovery peak levels, the number of wage earners in factories had been reduced by one-fourth, or 2,110,000, and weekly pay rolls by 35 percent, or \$72,600,000.

As in earlier months, the principal declines in manufacturing employment were reported by the heavy industries, in particular, machinery, steel products, automobiles, and railroad repair shops. The durable-goods industries as a group reduced employment by 3.5 percent from May, while the nondurable-goods industries reported a decline of 0.8 percent. Seasonal curtailments reduced forces in factories manufacturing women's clothing, shoes, and silk, while labor disputes affected carpet mills and rayon factories.

Most of the manufacturing employment gains were seasonal, such as those in canning, ice cream, and other food industries. Increases in woolen mills, shirt factories, and millwork were either greater than seasonal or contraseasonal.

In the nonmanufacturing industries employment changes, for the most part, were small. Mining employment was generally curtailed except for anthracite mines, which added 4,600 men, a gain of 6.0 percent. About 10,000 bituminous-coal miners and 3,000 metal miners were laid off as business slackened, and year-round hotels had 5,000 fewer workers. Retail and wholesale firms reduced their staffs by 7,000 and 1,600 employees, respectively, largely because of seasonal declines in sales. The principal reductions in retail trade employment were reported by firms dealing in general merchandise (0.5 percent), automobiles and accessories (1.2 percent), furniture (1.6 percent), farmers' supplies (6.5 percent), and jewelry (1.4 percent). Small seasonal increases were reported by retail stores dealing in food, apparel, lumber and building materials, and coal, wood, and ice. Wholesale firms selling dry goods and apparel had 1.8 percent fewer employees, and wholesale dealers in furniture and housefurnishings reported a reduction of 0.7 percent in their forces. A seasonal expansion in employment was reported by wholesale firms selling lumber and building materials, farm products, groceries and other food products, tobacco, and petroleum and petroleum products.

Public utility companies as a group reported virtually no change in employment, as the declines reported by telephone and telegraph companies and firms operating electric railroads and motorbusses were offset by the gain in light and power companies.

Employment in the private building construction industry (which does not include construction projects financed by the Public Works Administration or the Reconstruction Finance Corporation, or by regular appropriations of the Federal, State, and local governments) showed an increase of 0.2 percent as against June gains ranging from 3 to 6 percent in recent years.

Laundries and dyeing and cleaning establishments reported seasonal increases of 0.5 percent and 0.9 percent, respectively; insurance firms had 0.4 percent more employees than in May, and brokerage firms reduced their forces 1.4 percent, a continuation of the monthly declines which began in May 1937.

Class I railroads employed 914,765 workers in June, including 11,943 executives, officials, and staff assistants, according to a preliminary tabulation by the Interstate Commerce Commission. This was 9,192 workers more than were reported for May, a gain of 1.1 percent. June pay rolls for railroads were not available when this report was prepared. For May they were \$138,698,266 and for April \$139,631,127, a decrease of 0.7 percent. The compensation of executives, officials, and staff assistants has been included in these figures and amounts to \$5,769,995 for May and \$5,810,000 for April.

Hours and earnings.—Factory wage earners averaged 34.4 hours of work per week in June, a decline of 0.2 percent since May. Their average hourly earnings were 64.8 cents, or 0.3 percent lower than in the preceding month, and their average weekly earnings (\$22.30) were 1.0 percent lower.

More hours worked per week were reported by 9 of the 14 nonmanufacturing industries for which man-hour data are available. The outstanding increase was 20.7 percent in anthracite mining. Average hourly earnings were slightly larger for 6 of the nonmanufacturing industries and average weekly earnings were higher for 9 of the 16 nonmanufacturing industries covered.

Prior to January 1938 the wording of the definition on the schedules for public utilities, wholesale and retail trade, hotels, and brokerage and insurance firms called for the inclusion of higher-salaried employees such as corporation officers, executives, and others whose duties are mainly supervisory. These employees have, for the most part, always been excluded from employment reports for other industries, and beginning with January it was requested that they be omitted also for the industries named above. For this reason the average hours worked per week, average hourly earnings, and average weekly earnings for these industries are not comparable with the figures appearing in issues of this pamphlet dated earlier than January 1938.

Employment and pay-roll indexes and average weekly earnings in June 1938 for all manufacturing industries combined, for selected nonmanufacturing industries, and for class I railroads, with percentage changes over the month and year intervals except in the few industries for which data are not available, are presented in table 1.

TABLE 1.—*Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, June 1938*

Industry	Employment			Pay roll			Average weekly earnings		
	Index June 1938	Percentage change from—		Index June 1938	Percentage change from—		Average in June 1938	Percentage change from—	
		May 1938	June 1937		May 1938	June 1937		May 1938	June 1937
All manufacturing industries combined ¹	(1929-25=100) 75.9	-1.9	-24.9	(1929-25=100) 67.2	-2.9	-34.7	\$22.30	-1.0	-13.1
Class I steam railroads ²	51.2	+1.1	-21.9	(3)	(3)	(3)	(3)	(3)	(3)
Coal mining:	(1929=100)			(1929=100)					
Anthracite ⁴	56.0	+6.0	-9.2	49.7	+29.9	-10.1	28.94	+22.6	-1.0
Bituminous ⁴	80.1	-2.6	-16.8	57.1	+2.8	-31.5	18.93	+5.5	-17.7
Metalliferous mining.....	55.8	-5.1	-29.8	46.0	-10.2	-40.9	25.49	-5.4	-15.8
Quarrying and nonmetallic mining.....	43.6	-3	-21.3	37.3	-2.6	-29.1	21.61	-2.3	-9.9
Crude-petroleum producing.....	72.9	-5	-7.2	67.6	+1.3	-4.0	34.48	+1.8	+3.4
Public utilities:									
Telephone and telegraph.....	74.8	-3	-4.8	90.9	-4	+2.6	\$ 31.08	-1	+7.8
Electric light and power and manufactured gas.....	92.2	+6	-4.2	98.7	+1.3	-1.7	\$ 33.72	+7	+2.6
Electric-railroad and motorbus operation and maintenance.....	70.4	-4	-4.0	69.6	-2.2	-2.1	\$ 32.30	-1.8	+2.0
Trade:									
Wholesale.....	87.2	-2	-3.4	73.6	-2.1	-3.6	\$ 29.68	-1.9	-2
Retail.....	83.6	-2	-7.6	69.5	-7	-6.6	\$ 21.46	-5	+1.1
General merchandising.....	91.9	-5	-10.6	84.3	-2	-8.9	\$ 18.22	+3	+1.9
Other than general merchandising.....	81.4	-1	-6.6	66.4	-8	-5.9	\$ 24.11	-7	+8
Hotels (year-round) ⁴	92.1	-1.7	-2.4	79.4	-1.3	-9	\$ 14.89	+3	+1.6
Laundries ⁴	96.6	+5	-7.0	81.8	+1.1	-6.5	17.26	+7	+5
Dyeing and cleaning ⁴	110.9	+9	-6.4	83.3	+3.2	-9.7	20.98	+2.3	-3.5
Brokerage.....	(3)	-1.4	-18.8	(3)	-1.6	-26.4	\$ 33.87	-2	-9.3
Insurance.....	(3)	+4	+2.1	(3)	+9	-2.8	\$ 36.30	+5	-4.8
Building construction.....	(3)	+2	-30.4	(3)	+1.1	-30.7	29.43	+1.0	-3

¹ Revised indexes—Adjusted to 1933 Census of Manufactures.

² Preliminary—Source: Interstate Commerce Commission.

³ Not available.

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

⁵ Average weekly earnings not strictly comparable with figures published in issues of this pamphlet dated earlier than January 1938 (except for the January figures), 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

During June more workers were employed on Public Works Administration construction projects than in any month since November 1937. Of the 117,000 at work 24,000 were engaged on Federal and non-Federal projects financed from National Industrial Recovery Act funds and 93,000 on projects financed from funds provided by the Emergency Relief Appropriation Acts of 1935, 1936, and 1937. Pay-roll disbursements totaling \$9,774,000 were \$569,000 larger than in the preceding month.

A marked seasonal expansion in road construction during the month accounted in large part for substantially increased employment on projects financed by regular Federal appropriations. Employment

in June on these projects totaled 222,000—19,000 more than in May and 35,000 more than in June 1937. Gains in employment were registered on all types of projects with the exception of building construction, electrification, naval vessels, and water and sewerage projects. Total pay-roll disbursements in June amounted to \$21,363,000.

In June nearly 3,000 workers were employed on construction projects financed by the Reconstruction Finance Corporation, fewer than in any month since the Bureau first began collecting data on the program in April 1934. The June employment figure was virtually the same as for May. Pay-roll disbursements, on the other hand, were somewhat higher in June (\$493,000 compared with \$460,000 in May), because of the increase in the number of man-hours worked during the month.

Employment on projects operated by the Works Progress Administration continued to increase. The number at work in June amounted to 2,767,000, a gain of 88,000 from May and of 747,000 from June 1937. Pay rolls in June were \$145,943,000, an increase of \$38,968,000 compared with June of last year. The upward trend in employment on Federal projects under The Works Program continued during the month, the 37,000 added to the pay rolls increasing the total number working to 288,000. Pay-roll disbursements on these projects amounted to \$15,163,000. Employment on work projects of the National Youth Administration increased sharply. Data on employment and pay rolls for Student Aid projects in June will not be available until next month.

In the regular services of the Federal Government increases in the number working were reported for the executive and legislative services and decreases were reported for the judicial and military services. Of the 858,000 employees in the executive service in June, 116,000 were working in the District of Columbia and 742,000 outside the District. Force-account employees (employees who are on the Federal pay roll and are engaged on construction projects) were 7 percent of the total number of employees in the executive service. The Post Office Department, the Department of Agriculture, and the Works Progress Administration were among the agencies reporting increases in employment and the War Department and the Treasury Department reported decreases.

Employment in the Civilian Conservation Corps continued to decrease, dropping to the lowest point since September 1937. In June 294,000 workers were in camps, a decline of 12,000 compared with May and of 30,000 from June 1937. Of the total number in camps in June 251,000 were enrollees, 5,000 Reserve officers, 300 nurses, 1,500 educational advisers, and 36,000 supervisory and tech-

nical employees. Monthly pay-roll disbursements for all groups of workers amounted to \$13,506,000.

The number of workers on roads financed wholly from State or local funds increased 6,000 in June. Of the 180,000 working, 160,000 were engaged on maintenance projects and 20,000 on new road construction. Pay rolls for both types of road work amounted to \$12,060,000 in June, an increase of \$673,000 from May.

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

TABLE 2.—*Summary of Federal Employment and Pay Rolls, June 1938*¹

[Preliminary figures]

Class	Employment		Percent- age change	Pay rolls		Percent- age change
	June	May		June	May	
Federal services:						
Executive ²	857,520	³ 841,176	+1.9	\$128,071,062	³ \$124,983,174	+2.5
Judicial.....	2,083	2,143	-2.8	515,428	516,115	-.1
Legislative.....	5,251	5,220	+6	1,211,535	1,206,474	+4
Military.....	328,744	329,256	-2	25,524,486	25,059,048	+1.9
Construction projects:						
Financed by Public Works Administration ⁴	116,874	115,710	+1.0	9,773,522	9,204,258	+6.2
Financed by Reconstruction Finance Corporation ⁵	2,984	3,032	-1.6	493,122	459,501	+7.3
Financed by regular Federal appropriations.....	222,096	202,845	+9.5	21,362,606	19,763,004	+8.1
Federal projects under The Works Program.....	288,010	251,115	+14.7	15,163,038	12,608,884	+20.3
Projects operated by Works Progress Administration.....	2,767,125	2,678,702	+3.3	145,943,462	137,876,630	+5.9
National Youth Administration:						
Work projects.....	202,184	172,134	+17.5	3,437,299	2,967,134	+15.8
Student Aid.....	(⁶)	326,644		(⁶)	2,393,532	
Civilian Conservation Corps.....	293,859	306,141	-4.0	13,506,062	14,237,636	-5.1

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 103,114 employees and pay-roll disbursements of \$13,381,719 for June and 102,716 employees and pay-roll disbursements of \$12,803,923 for May.

³ Revised.

⁴ Data covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds are included. These data are not shown under The Works Program. Includes 93,141 wage earners and \$7,630,319 pay roll for June; 91,206 wage earners and \$7,131,788 pay roll for May, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds.

⁵ Includes 97 employees and pay-roll disbursements of \$8,345 for June and 80 employees and pay-roll disbursements of \$6,759 for May on projects financed by the RFC Mortgage Co.

⁶ Not available.

The value of material orders placed on projects financed from regular Federal appropriations during the second quarter of 1938 amounted to \$85,309,000. Approximately 219,000 man-months of labor were involved in the final fabrication of these materials. On Public Works Administration projects orders were placed for \$51,-218,000 worth of materials, for which it is estimated 145,000 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 second quarter of 1938, the first quarter of 1938, and the second quarter of 1937, 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 1938	First quarter of 1938	Second quarter of 1937	Second quarter of 1938	First quarter of 1938	Second quarter of 1937
Public Works Administration ¹	\$51,217,783	\$41,728,099	\$90,775,701	145,220	118,234	252,600
Reconstruction Finance Corporation ² ..	2,204,430	2,786,893	2,956,408	5,193	6,698	7,056
Regular Federal appropriations.....	85,308,721	62,827,761	56,728,102	218,604	152,364	132,704
Federal Projects under The Works Program:						
Construction.....	13,086,761	10,343,751	26,238,218	34,575	25,652	70,245
Professional, technical, and clerical..	115,360	180,126	297,805	323	590	1,008
Projects operated by Works Progress Administration.....	(3)	81,088,651	56,266,574	(3)	252,411	170,767
Rentals and services on projects operated by Works Progress Administration.....	(3)	53,147,699	39,128,795	(3)	(3)	(3)
National Youth Administration:						
Work projects.....	(3)	1,036,868	663,090	(3)	3,324	2,074
Rentals and services on work projects.....	(3)	730,346	(3)	(3)	(3)	(3)

¹ Data covering projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds are included. These data are not shown under The Works Program.

² Includes RFC Mortgage Co.

³ Data not available.



DETAILED TABLES FOR JUNE 1938

Industrial and Business Employment

MONTHLY reports on employment and pay rolls are available for the following groups: 89 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, and in virtually all industries the samples are large enough to be entirely representative. 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, average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in June 1938 are shown in table 4. Percentage changes from May 1938 and June 1937 are also given.

Indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings for April, May, and June 1938, are presented in table 5. The April and May figures may differ in some instances from those previously published because of revisions necessitated by the inclusion of late reports and other causes.

Average weekly earnings shown in tables 4 and 5 are computed by dividing the total weekly pay rolls in the reporting establishments by the total number of full- and part-time employees reported. As all reporting establishments do not supply man-hour data, average hours worked per week and average hourly earnings are necessarily based on data supplied by a smaller number of reporting firms. The size and composition of the reporting sample vary slightly from month to month and therefore the average hours per week, average hourly earnings, and average weekly earnings shown in tables 4 and 5 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.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June 1938*

MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1933 Census of Manufactures. Not comparable to indexes published in pamphlets prior to October 1939]

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index, June 1938	Percentage change from—		Index, June 1938	Percentage change from—		June 1938	Percentage change from—		June 1938	Percentage change from—		June 1938	Percentage change from—	
		May 1938	June 1937		May 1938	June 1937		May 1938	June 1937		May 1938	June 1937		May 1938	June 1937
All manufacturing industries.....	75.9	-1.9	-24.9	67.2	-2.9	-34.7	\$22.30	-1.0	-13.1	34.4	-0.2	-12.7	<i>Cents</i> 64.8	-0.3	-0.5
Durable goods.....	65.8	-3.5	-33.4	58.1	-4.0	-44.5	24.22	-.5	-16.6	34.0	+1	-16.9	71.8	-.3	+1.8
Nondurable goods.....	86.7	-.8	-16.2	78.8	-1.9	-21.8	20.52	-1.1	-6.7	34.7	-.6	-8.1	53.7	-.1	-1.5
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	73.1	-3.2	-27.9	57.4	-5.7	-43.0	22.17	-2.7	-27.9	29.6	-2.1	-26.7	76.3	+2	+1.0
Blast furnaces, steel works, and rolling mills.....	78.8	-4.0	-25.8	59.0	-7.7	-52.2	22.21	-3.8	-35.5	26.5	-4.1	-34.3	84.1	+6	-1.0
Bolts, nuts, washers, and rivets.....	58.8	-4.2	-28.2	52.3	-6.0	-44.0	20.16	-1.9	-22.0	28.3	-2.6	-28.3	71.1	+8	+8.7
Cast-iron pipe.....	57.3	+3	-18.8	41.0	+9	-31.3	19.11	+6	-15.2	32.7	+1.0	-18.0	57.6	-.4	+2.7
Cutlery (not including silver and plated cutlery) and edge tools.....	70.7	-1.5	-18.0	58.0	-.3	-32.7	20.51	+1.2	-18.0	33.6	-1.2	-20.7	62.8	+1.5	+4.1
Forgings, iron and steel.....	40.7	-6.2	-43.9	28.4	-8.2	-60.2	21.36	-2.1	-29.1	28.0	-2.2	-31.7	73.8	-.2	+3.4
Hardware.....	57.7	-3.5	-40.3	53.1	-1.6	-45.0	20.77	+2.0	-7.9	31.8	+1.4	-12.7	65.3	+6	+5.5
Plumbers' supplies.....	80.4	+9	-13.6	57.4	-2.2	-21.8	22.55	-3.1	-12.9	34.1	-1.6	-16.0	66.0	-1.5	+3.6
Steam and hot-water heating apparatus and steam fittings.....	56.8	-.3	-28.8	46.4	+7.5	-39.3	23.79	+7.8	-14.7	34.1	+9.9	-17.0	69.8	-1.5	+2.4
Stoves.....	74.5	-2.6	-37.4	58.3	-5.2	-45.1	22.95	-2.6	-12.3	34.9	-2.1	-14.5	66.4	-.3	+2.5
Structural and ornamental metalwork.....	56.2	-2.3	-28.7	50.4	-4.4	-34.8	25.26	-2.2	-14.2	31.7	-2.8	-17.6	72.8	+6	+4.0
Tin cans and other tinware.....	90.1	+1.6	-17.5	95.1	+1.6	-18.4	22.71	.8	-1.1	37.8	-.3	-6.1	60.1	-6	+5.4
Tools (not including edge tools, machine tools, files, and saws).....	73.2	-2.3	-27.9	65.2	-4.8	-43.2	20.71	-2.5	-21.3	33.4	-2.3	-23.6	61.7	+1	+2.3
Wirework.....	103.5	-10.8	-42.9	85.8	-12.8	-54.5	20.59	-2.3	-21.3	31.3	-1.6	-20.5	65.8	-.6	-.1
Machinery, not including transportation equipment.....	96.0	-4.0	-33.4	76.9	-5.4	-44.0	24.63	-1.4	-15.8	33.8	-.9	-13.7	72.7	-.3	+3.9
Agricultural implements.....	117.2	-9.5	-16.7	141.0	-13.2	-22.8	26.84	-4.1	-7.4	36.7	-1.5	-9.3	73.4	-2.8	+2.1
Cash registers, adding machines, and calculating machines.....	121.9	-2.0	-10.3	115.8	-.5	-21.1	28.56	+1.5	-12.1	35.2	+1.2	-15.0	81.8	+9	+3.6
Electrical machinery, apparatus, and supplies.....	75.2	-3.6	-37.2	67.3	-2.6	-46.7	24.49	+1.0	-15.0	32.7	+1.3	-18.5	74.7	-.2	+3.4

See footnotes at end of table.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June 1938—Continued*

MANUFACTURING—Continued

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1933 Census of Manufactures. Not comparable to indexes published in pamphlets prior to October 1936]

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index, June 1938	Percentage change from—		Index, June 1938	Percentage change from—		June 1938	Percentage change from—		June 1938	Percentage change from—		June 1938	Percentage change from—	
		May 1938	June 1937		May 1938	June 1937		May 1938	June 1937		May 1938	June 1937		May 1938	June 1937
Durable goods—Continued															
Machinery—Continued.															
Engines, turbines, tractors, and water wheels.....	104.4	-3.8	-30.3	95.0	-6.5	-39.3	\$27.50	-2.8	-12.8	33.9	-2.6	-15.2	Cents 81.5	-0.2	+2.1
Foundry and machine-shop products.....	75.7	-4.4	-32.8	65.8	-6.1	-44.9	24.30	-1.8	-18.9	33.9	-2.0	-22.4	71.4	-1	+5.0
Machine tools.....	108.8	-6.5	-28.7	86.1	-11.0	-47.7	24.31	-4.8	-26.6	33.4	-4.3	-27.6	72.7	-5	+1.4
Radios and phonographs.....	92.2	+6.9	-49.4	75.1	+7.2	-51.9	22.07	+4	-4.8	36.9	+2.0	-3.6	59.9	-1.5	+(?)
Textile machinery and parts.....	56.1	-6.4	-35.7	46.8	-3.5	-50.0	23.00	+3.1	-22.3	34.0	+1.8	-22.5	67.9	+1.5	+5
Typewriters and parts.....	112.3	-5	-27.0	80.2	+1.4	-46.9	19.56	+1.9	-27.3	30.0	+1.7	-29.6	65.1	+3	+3.1
Transportation equipment.....	62.3	-8.7	-60.7	57.7	-3.7	-54.9	29.64	+5.5	-8.4	33.4	+4.6	-11.2	83.9	+5	+2.3
Aircraft.....	715.2	-4.0	-14.2	655.7	-4.1	-12.7	29.11	-1	+1.8	39.7	-1.8	-11.9	73.8	+1.2	+15.5
Automobiles.....	61.6	-10.3	-53.3	53.7	-4.3	-60.3	29.60	+6.7	-11.1	32.0	+6.3	-13.4	92.7	+6	+2.6
Cars, electric and steam-railroad.....	28.6	-10.8	-62.6	31.1	-9.4	-65.9	26.14	+1.6	-8.8	35.0	+1.0	-12.3	74.6	+0	+3.9
Locomotives.....	30.5	-7.6	-48.7	19.6	-12.2	-61.8	25.08	-4.9	-25.6	32.7	-3.4	-29.9	76.8	-1.6	+6.1
Shipbuilding.....	92.9	-2	-10.1	108.9	+2.1	-4.8	31.61	+2.3	+5.8	37.3	+4	-4	83.3	+1.2	+4.5
Railroad repair shops.....	39.9	-2.7	-37.7	41.0	-8.5	-40.3	29.70	-9	-4.2	41.1	-2	-6.8	71.9	-3	3.1
Electric railroad.....	59.8	-1.1	-4.7	66.2	-1.6	-1.4	31.19	-5	+3.5	43.8	-5	-1.5	69.8	+1	+5.3
Steam railroad.....	38.4	-3.0	-40.1	39.2	-3.8	-43.1	29.35	-8	-5.1	40.7	-2	-8.6	72.2	-4	+3.9
Nonferrous metals and their products.....	79.6	-3.5	-30.1	65.5	-4.7	-41.3	22.20	-1.2	-15.9	33.5	-1.2	-17.0	68.0	+1	+1.2
Aluminum manufactures.....	91.5	-3.6	-29.4	84.8	-8.1	-37.4	22.75	-4.7	-11.3	33.4	-4.3	-15.4	68.2	-4	+5.0
Brass, bronze, and copper products.....	82.0	-1.9	-33.0	67.2	-4.6	-46.3	23.14	-2.8	-20.0	32.6	-2.4	-20.6	70.9	-4	+7.7
Clocks and watches and time-recording devices.....	86.8	-4.4	-28.6	63.4	-7.0	-46.5	16.85	-2.7	-25.2	29.3	-1.6	-30.1	58.6	+1	+8.5
Jewelry.....	75.8	+3.0	-15.0	53.7	+6.3	-23.6	21.82	+3.2	-10.2	35.2	+4.0	-9.8	60.9	-6	-2.7
Lighting equipment.....	59.6	-6.3	-37.9	49.6	-2.2	-47.9	22.10	+4.3	-16.0	32.1	+1.0	-19.9	68.8	+2.4	+4.9
Silverware and plated ware.....	67.7	-1.5	-9.0	52.0	-3.8	-24.8	20.85	-2.3	-17.4	32.6	-4.0	-16.3	63.4	+1.2	-1.5
Smelting and refining—copper, lead, and zinc.....	68.4	-3.8	-23.0	61.0	-4.8	-28.5	26.14	-1.1	-7.2	38.4	-1.9	-8.2	68.2	+9	+1.2
Stamped and enameled ware.....	96.6	-8.2	-39.3	84.8	-8.6	-47.8	21.35	-4	-14.0	33.8	-3	-13.7	62.7	-3	-1.1
Lumber and allied products.....	54.2	-4	-25.7	48.1	+1.5	-33.5	19.52	+1.8	-10.6	37.5	+2.0	-12.1	53.1	-1	+1.3
Furniture.....	64.5	+1.1	-27.6	49.7	+4.0	-36.9	18.42	+2.8	-12.8	35.0	+4.9	-16.0	53.1	-1.9	+3.4
Lumber:															
Millwork.....	45.1	+2.0	-21.6	42.4	+2.0	-26.2	21.36	+(?)	-6.0	39.0	+4	-10.7	54.9	-1	+5.2
Sawmills.....	41.6	-1.9	-25.4	38.1	-1	-33.6	19.76	+1.8	-11.0	38.6	+1.2	-10.4	52.7	+8	-6

Stone, clay, and glass products	57.2	-3	-22.7	51.3	-2.5	-23.2	22.77	-2.1	-7.0	35.7	-1.2	-10.7	64.1	+2	+3.5
Brick, tile, and terra cotta.....	39.8	-2	-27.0	32.5	+8	-33.7	19.43	+1.0	-9.2	37.7	+2.1	-9.5	51.8	+(2)	+5
Cement.....	63.5	+2.1	-8.8	65.9	-8	-12.2	26.62	-2.9	-3.8	38.9	-3.1	-7.0	68.4	+2	+2.8
Glass.....	79.5	-1.8	-29.3	77.1	-1.8	-35.4	23.48	-(2)	-8.7	33.4	-9	-12.0	70.5	+9	+3.4
Marble, granite, slate, and other products.....	37.5	+6	-14.8	32.7	-4.8	-12.9	25.19	-5.4	+2.1	37.1	-5.6	-3.2	67.8	-6	+5.0
Pottery.....	68.3	-4	-14.6	54.0	-6.7	-23.1	20.93	-6.3	-10.1	34.0	-2.7	-18.3	63.6	-4	+7.4
<i>Nondurable goods</i>															
Textiles and their products	80.2	-2.6	-22.4	60.3	-5.3	-34.0	15.08	-2.8	-14.8	31.4	-1.9	-11.3	47.9	-3	-4.1
Fabrics.....	76.5	-4	-23.3	62.0	-1.1	-33.9	15.29	-7	-13.9	32.4	-1	-11.5	47.3	-5	-2.8
Carpets and rugs.....	57.1	-10.3	-13.8	46.7	-1	-53.4	19.29	+11.4	-17.2	30.1	+11.8	-18.6	64.2	-3	+1.9
Cotton goods.....	80.4	-6	-22.0	61.0	-2.8	-36.7	12.52	-2.3	-19.0	31.3	-1.3	-15.9	40.1	-7	-3.3
Cotton small wares.....	75.4	-3.0	-22.6	69.0	-3.4	-21.6	16.82	-5	-2.8	34.7	-4	-4.4	48.4	+4	+3
Dyeing and finishing textiles.....	97.8	-3.8	-10.9	76.7	-7.7	-19.9	18.97	-4.0	-10.2	34.5	-4.0	-5.2	54.7	-1	-4.8
Hats, fur-felt.....	55.4	-17.5	-34.0	40.8	-14.1	-44.7	20.05	+1.2	-16.3	29.6	+5.6	-15.4	72.0	-1.3	+9
Knit goods.....	99.7	+7	-15.6	96.1	-1.6	-19.2	16.68	-2.3	-4.3	33.1	-2.0	-8.0	51.4	-1	+3.9
Silk and rayon goods.....	53.5	-0.6	-32.5	41.2	-11.5	-39.8	15.04	-2.0	-10.9	33.5	-1.5	-9.2	44.2	-8	-1.9
Woolen and worsted goods.....	58.3	+12.7	-32.2	45.4	+21.7	-42.2	18.02	+8.0	-14.7	33.7	+9.8	-7.0	53.7	-1.6	-8.2
Wearing apparel.....	86.9	-6.8	-20.5	54.6	-13.3	-33.8	14.31	-7.1	-16.8	29.2	-6.0	-10.9	48.9	+3	-7.1
Clothing, men's.....	72.2	-5.3	-32.3	43.2	-9.9	-50.2	14.09	-5.0	-26.6	26.2	-4.0	-21.5	54.8	+1	-6.6
Clothing, women's.....	118.7	-10.6	-13.6	72.0	-18.5	-21.3	16.25	-8.8	-9.0	30.2	-8.9	-4.3	49.3	+2	-6.3
Corsets and allied garments.....	85.5	-1.3	-4.5	76.5	-9.7	-10.2	14.91	-8.5	-5.7	31.7	-9.2	-5.2	46.5	+6	+1.0
Men's furnishings.....	112.4	-1.7	-17.7	82.1	+3.3	-20.8	12.74	+5.1	-3.7	34.3	+4.6	+1	35.1	+2.5	-1.0
Millinery.....	42.9	-17.7	-16.3	28.0	-19.8	-25.0	18.35	-2.5	-10.4	28.4	-9.5	-4.8	63.0	+8.2	-12.6
Shirts and collars.....	106.8	+1.2	-9.4	80.2	-4.0	-21.1	11.22	-5.2	-12.7	30.8	-4.3	-10.7	37.8	+1.0	-3.0
Leather and leather manufactures	78.5	-4.8	-16.3	55.1	-5.5	-31.6	16.30	-7	-13.3	31.7	+9	-16.8	51.4	+4	-3.2
Boots and shoes.....	80.8	-5.8	-14.1	49.6	-8.3	-32.4	14.71	-2.6	-21.4	30.4	+2	-19.0	48.6	+4	-3.6
Leather.....	73.9	-1	-24.6	76.1	+1.9	-29.8	23.11	+2.0	-6.9	36.8	+2.7	-7.2	63.0	-8	+2
Food and kindred products	107.3	+5.4	-4.7	111.1	+3.8	-4.1	24.98	-1.5	+7	40.7	-1	-2.3	61.4	-1.6	+2.1
Baking.....	132.1	+1.7	-3.2	130.4	+1.8	-2.5	25.76	+(2)	+7	42.3	+2	-3.8	61.3	-2	+4.6
Beverages.....	212.7	+4.1	-5.2	245.0	+5.1	-6.0	33.51	+9	-9	40.3	+1.4	-3.3	84.1	-2	+2.4
Butter.....	90.2	+3.2	-5.6	75.1	+2.2	-2.0	23.18	-9	+3.8	48.1	-7	-1.7	48.0	-3	+5.8
Canning and preserving.....	110.6	+33.4	-9.9	107.1	+25.4	-13.3	15.98	-5.9	-3.8	34.9	+1.3	-9.0	46.7	-8.1	+3.4
Confectionery.....	67.5	+8	-2.0	67.2	+5.6	-1.2	18.21	+4.7	+8	37.4	+4.0	-2.5	49.0	+7	+3.7
Flour.....	72.8	+1.8	-1.1	74.4	+4.3	+2	20.66	+2.4	+1.4	44.5	+2.9	-8	59.6	-1	+1.8
Ice cream.....	83.2	+4.8	-8.1	77.6	+4.9	-4.7	28.42	+1	+3.8	47.6	-6	-2.7	60.1	+1.2	+4.3
Slaughtering and meat packing.....	84.8	+1.8	-4.6	95.0	+1.0	-3.6	28.19	-7	+1.0	40.7	-1.5	-5	69.0	+4	+1.1
Sugar, beet.....	42.1	+9.0	-14.8	49.8	+6.6	-9.9	27.89	-2.2	+5.7	40.8	+3.6	-3.8	70.8	-5.8	+10.7
Sugar refining, cane.....	75.9	-6	+1.3	72.1	-1.4	+5.4	21.22	-8	+4.0	39.7	-3	-1.3	61.0	-6	+1.6
Tobacco manufactures	60.3	+1.5	+3	55.2	+5.1	-9	16.91	+3.5	-1.3	36.9	+4.9	-3.5	45.7	-9	+2.3
Chewing and smoking tobacco and snuff.....	55.1	-1.0	-2.1	68.2	+6.9	-1.7	18.62	+7.9	+4	36.6	+6.9	-1.8	50.9	+1.0	+2.0
Cigars and cigarettes.....	60.9	+1.7	+7	53.6	+4.8	-8	16.57	+3.0	-1.4	37.0	+4.7	-3.7	45.1	-1.1	-7.2
Paper and printing	97.2	-1.3	-9.1	91.4	-2.6	-12.9	27.04	-1.3	-4.2	38.4	-1.5	-8.4	77.4	+2	+4.3
Boxes, paper.....	88.6	-5	-14.0	89.3	-1.4	-17.4	19.89	-9	-3.9	36.7	-8	-10.2	55.3	-1	+6.4
Paper and pulp.....	104.5	-9	-13.3	95.4	-2.4	-22.5	22.89	-1.5	-10.6	36.7	-1.7	-12.4	62.5	+1	+2.1
Printing and publishing:															
Book and job.....	87.8	-2.6	-7.9	80.3	-4.1	-12.1	29.02	-1.5	-4.6	36.5	-2.4	-7.8	80.6	+8	+3.2
Newspapers and periodicals.....	102.2	-9	-3.0	99.8	-1.6	-3.7	36.81	-8	-8	35.8	-7	-2.7	99.4	-1	+3.4

See footnotes at end of table.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June 1938—Continued*

MANUFACTURING—Continued

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1933 Census of Manufactures. Not comparable to indexes published in pamphlets prior to October 1936]

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index, June 1938	Percentage change from—		Index, June 1938	Percentage change from—		June 1938	Percentage change from—		June 1938	Percentage change from—		June 1938	Percentage change from—	
		May 1938	June 1937		May 1938	June 1937		May 1938	June 1937		May 1938	June 1937		May 1938	June 1937
Nondurable goods—Continued															
Chemicals and allied products, and petroleum re-															
fining.....	103.9	-3.1	-16.1	114.8	-2.5	-16.4	\$23.80	+0.6	-0.4	37.3	-1.0	-5.5	Cents		
Petroleum refining.....	117.6	+2	-6.7	136.6	-1.3	-4.4	35.25	-1.5	+2.4	36.3	-2.2	-1.3	77.0	+1.8	+4.5
Other than petroleum refining.....	100.6	-4.0	-18.5	108.0	-3.0	-20.4	25.63	+1.1	-2.4	37.7	-1.5	-6.9	97.8	+4	+2.4
Chemicals.....	107.7	+1	-22.2	117.2	+1.1	-23.7	29.90	+1.0	-1.8	37.7	+3	-6.3	68.5	+1.9	+3.8
Cottonseed—oil, cake, and meal.....	47.9	-16.3	+9.1	42.9	-16.4	+10.9	12.87	-1	+1.7	48.3	-2.2	-5.7	79.3	+5	+4.7
Druggists' preparations.....	103.7	-2	-4.6	114.8	+2	-5.4	24.03	+4	-8	37.7	+8	-4.8	26.1	+2.5	+5.8
Explosives.....	84.9	+1	-10.4	89.3	+4.0	-13.3	29.30	+3.9	-3.2	35.4	+4.2	-5.5	60.0	-1	+2.5
Fertilizers.....	62.3	-31.1	-17.7	66.3	-30.8	-16.3	17.33	+5	+1.7	38.0	-2.2	-3.4	81.5	+3	+2.5
Paints and varnishes.....	116.7	-1.7	-16.0	118.2	-3.3	-17.2	27.79	-1.6	-1.3	39.9	-2.1	-5.2	45.8	+3.0	+6.3
Rayon and allied products.....	284.2	-6.5	-27.4	258.1	-6.2	-34.1	22.42	+4	-9.3	34.6	+(2)	-12.9	69.7	+6	+1.0
Soap.....	91.7	+(2)	-10.5	107.1	-1	-7.0	28.81	-1	+4.0	38.8	0	-2.2	64.8	+3	+4.5
Rubber products.....	70.6	-1.3	-39.2	63.2	+2	-39.1	23.75	+1.4	-12.8	31.3	+7	-11.5	74.5	-1	+6.1
Rubber boots and shoes.....	53.5	+2.1	-26.2	41.0	+3.2	-41.2	19.18	+1.1	-20.1	32.1	+2.2	-18.5	77.0	+(5)	-2.4
Rubber tires and inner tubes.....	62.2	-(2)	-32.9	58.4	+2.5	-40.4	27.35	+2.5	-11.2	28.7	+2.9	-10.4	59.8	-1.1	-2.3
Rubber goods, other.....	102.7	-3.7	-27.7	92.7	-4.3	-36.0	20.49	-6	-11.6	34.5	-1.8	-12.5	94.5	-6	-1.4

NONMANUFACTURING

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

Coal mining:															
Anthracite ¹	56.0	+6.0	-9.2	49.7	+29.9	-10.1	\$28.91	+22.6	-1.0	30.6	+20.7	-2.9	93.2	+1.2	+2.1
Bituminous ²	80.1	-2.6	-16.8	57.1	+2.8	-31.5	18.93	+5.5	-17.7	21.0	+5.8	-19.4	87.9	-7	-8
Metalliciferous mining.....	55.8	-5.1	-29.8	45.0	-11.2	-49.9	25.49	-5.4	-15.8	37.6	-5.6	-19.6	67.9	+1	-5.7
Quarrying and nonmetallic mining.....	43.6	-3	-21.3	37.3	-2.6	-29.1	21.61	-2.3	-9.9	40.4	-1.5	-19.5	53.5	-9	-6
Crude-petroleum producing.....	72.9	-1.5	-7.2	67.6	+1.3	-4.0	34.48	+1.8	+3.4	40.4	+2.2	+6	83.9	-2	+2.3

Public utilities:															
Telephone and telegraph ¹	74.8	- .3	-4.8	90.9	- .4	+2.6	31.08	- .1	+7.8	38.4	+ .3	+1.9	85.5	- .1	+5.1
Electric light and power and manufactured gas ¹	92.2	+ .6	-4.2	98.7	+1.3	-1.7	33.72	+ .7	+2.6	40.2	+2.7	-1.6	84.1	-1.7	+4.1
Electric-railroad and motorbus operation and maintenance ¹	70.4	- .4	-4.0	69.6	-2.2	-2.1	32.39	-1.8	+2.0	45.0	-2.0	-3.9	70.9	+ .2	+6.2
Trade:															
Wholesale ¹	87.2	- .2	-3.4	73.6	-2.1	-3.6	29.58	-1.9	- .2	42.5	- .7	-2.1	70.1	- .9	+1.6
Retail ¹	83.6	- .2	-7.6	69.5	- .7	-6.6	21.46	- .5	+1.1	42.7	- .3	- .7	55.9	+ .2	+3.5
General merchandising ¹	91.9	- .5	-10.6	84.3	- .2	-8.9	18.22	+ .3	+1.9	39.3	+ .1	+ .7	49.4	+ .8	+2.2
Other than general merchandising ¹	81.4	- .1	-6.6	66.4	- .8	-5.9	24.11	- .7	+ .8	43.7	- .4	-1.1	59.6	+ .1	+3.6
Hotels (year-round) ^{1, 2, 3}	92.1	-1.7	-2.4	79.4	-1.3	- .9	14.89	+ .3	+1.6	46.9	+ .2	-3.7	31.2	- .5	+3.2
Laundries ²	96.6	+ .5	-7.0	81.8	+1.1	-6.5	17.26	+ .7	+ .5	42.4	+ .5	-3.2	41.1	+ .1	+4.8
Dyeing and cleaning ²	110.9	+ .9	-6.4	83.3	+3.2	-9.7	20.98	+2.3	-3.5	43.4	+2.7	-5.1	48.4	- .5	+2.7
Brokerage ⁴	(⁶)	-1.4	-18.8	(⁶)	-1.6	-26.4	33.87	- .2	-9.3	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Insurance ⁴	(⁶)	+ .4	+2.1	(⁶)	+ .9	-2.8	36.30	+ .5	-4.8	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Building construction.....	(⁶)	+ .2	-30.4	(⁶)	+1.1	-39.7	29.43	+1.0	- .3	32.6	+ .8	-4.8	90.4	+ (²)	+4.0

¹ Average weekly earnings are computed from figures furnished by all reporting establishments. Average hours and average hourly earnings are computed from data supplied by a smaller number of establishments as all reporting firms do not furnish man-hours. Percentage changes over year are computed from indexes. Percentage changes over month, in average weekly earnings for the manufacturing groups, for all manufacturing industries combined, and for retail trade are also computed from indexes.

² Less than 1/10 of 1 percent.

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

⁴ Average weekly earnings, hourly earnings, and hours not strictly comparable with figures published in pamphlets prior to January 1938 as they now exclude corporation officers executives, and other employees whose duties are mainly supervisory.

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

⁶ Not available.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June, May, and April 1938*

MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1933 Census of Manufactures. Not comparable to indexes published in pamphlets prior to October 1936. 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 1938	May 1938	April 1938	June 1938	May 1938	April 1938	June 1938	May 1938	April 1938	June 1938	May 1938	April 1938	June 1938	May 1938	April 1938
All manufacturing industries.....	75.9	77.4	79.6	67.2	69.2	70.7	\$22.30	\$22.17	\$22.38	34.4	34.4	34.2	<i>Cents</i> 64.8	<i>Cents</i> 65.0	<i>Cents</i> 65.3
Durable goods.....	65.8	68.2	70.0	58.1	60.5	61.8	24.22	23.76	24.16	34.0	33.9	33.6	71.8	72.2	72.2
Nondurable goods.....	86.7	87.4	89.8	78.8	80.3	82.0	20.52	20.64	20.52	34.7	34.9	34.7	58.7	58.8	59.0
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	78.1	75.5	76.9	57.4	60.9	61.2	22.17	22.75	22.44	29.6	30.2	29.8	76.3	76.3	76.2
Blast furnaces, steel works, and rolling mills.....	78.8	82.1	84.4	59.0	63.9	63.3	22.21	23.08	22.91	26.5	27.6	27.6	84.1	83.7	83.2
Bolts, nuts, washers, and rivets.....	58.8	61.4	60.8	52.3	55.7	51.3	20.16	20.56	19.11	28.3	29.2	27.1	71.1	70.5	70.5
Cast-iron pipe.....	57.3	57.1	57.2	41.0	40.6	40.6	19.11	19.06	19.03	32.7	32.7	32.5	57.6	57.5	57.6
Cutlery (not including silver and plated cutlery) and edge tools.....	70.7	71.8	74.9	58.0	58.2	60.0	20.51	20.28	20.04	33.6	33.9	33.4	62.8	62.1	61.6
Forgings, iron and steel.....	40.7	43.4	44.2	28.4	31.0	31.7	21.36	21.82	21.96	28.9	29.6	30.0	73.8	73.9	73.3
Hardware.....	57.7	59.8	61.1	53.1	53.9	52.4	20.77	20.37	19.42	31.8	31.4	30.0	65.3	64.9	64.6
Plumbers' supplies.....	80.4	79.7	78.7	57.4	58.7	51.0	22.55	23.28	21.66	34.1	34.7	32.1	66.0	67.0	67.5
Steam and hot-water heating apparatus and steam fittings.....	56.8	57.0	55.7	46.4	43.1	41.7	23.79	22.01	21.76	34.1	30.9	30.4	69.8	70.9	71.4
Stoves.....	74.5	76.5	75.3	58.3	61.5	59.3	22.95	23.61	23.09	34.9	35.7	35.0	66.4	66.6	66.2
Structural and ornamental metalwork.....	56.2	57.5	59.0	50.4	52.7	53.3	25.26	25.77	25.41	34.7	35.8	35.4	72.8	72.2	71.8
Tin cans and other tinware.....	90.1	88.7	88.1	95.1	93.6	93.9	22.71	23.36	22.82	37.8	37.9	36.9	60.1	61.9	62.3
Tools (not including edge tools, machine tools, files, and saws).....	73.2	74.9	76.7	65.2	68.5	69.9	20.71	21.25	21.18	33.4	34.0	34.1	61.7	61.8	61.8
Wirework.....	103.5	116.0	117.4	85.8	98.3	102.1	20.59	20.99	21.56	31.3	31.6	31.8	65.8	66.5	67.9
Machinery, not including transportation equipment.....	86.0	89.6	93.2	76.9	81.3	84.2	24.68	24.96	24.94	33.8	34.1	34.0	72.7	72.9	73.0
Agricultural implements.....	117.2	129.5	136.5	141.0	162.5	163.6	26.84	27.98	27.50	36.7	37.2	36.8	73.4	75.4	74.9
Cash registers, adding machines, and calculating machines.....	121.9	124.4	126.0	115.8	116.4	115.0	28.56	28.16	27.49	35.2	34.8	34.0	81.8	81.2	80.9
Electrical machinery, apparatus, and supplies.....	75.2	78.0	81.6	67.3	69.1	72.7	24.49	24.27	24.42	32.7	32.3	32.6	74.7	74.9	74.6
Engines, turbines, tractors, and water wheels.....	104.4	108.5	119.3	95.0	101.6	115.0	27.50	28.35	29.50	33.9	34.8	35.9	81.5	81.6	82.5
Foundry and machine-shop products.....	75.7	79.2	81.7	65.8	70.1	71.5	24.30	24.74	24.47	33.9	34.7	34.4	71.4	71.3	71.2
Machine tools.....	108.8	116.4	122.1	86.1	96.8	101.3	24.31	25.54	25.51	33.4	34.9	35.0	72.7	73.0	72.9

Radios and phonographs.....	92.2	80.3	88.0	75.1	70.1	69.0	22.07	21.64	20.91	36.9	35.9	33.5	59.9	60.7	62.6
Textile machinery and parts.....	56.1	60.0	60.3	46.8	48.4	48.5	23.00	22.30	22.22	34.0	33.4	33.2	67.9	67.0	67.0
Typewriters and parts.....	112.3	112.9	111.4	80.2	79.1	78.4	19.56	19.19	19.27	30.0	29.5	29.5	65.1	64.9	65.1
Transportation equipment.....	62.3	69.2	72.0	67.7	59.9	65.4	29.64	24.95	23.94	33.4	31.9	32.7	88.9	88.5	88.5
Aircraft.....	715.2	745.1	703.9	655.7	683.7	659.3	29.11	29.14	28.47	39.7	40.4	39.8	73.8	72.9	72.1
Automobiles.....	61.6	68.7	73.1	53.7	56.1	62.5	29.60	27.71	25.78	32.0	30.1	31.3	92.7	92.0	91.9
Cars, electric- and steam-railroad.....	28.6	32.1	37.1	31.1	34.4	39.6	26.14	25.67	25.56	35.0	34.6	34.2	74.6	74.2	74.8
Locomotives.....	30.5	33.0	37.5	19.6	22.3	25.7	25.08	26.38	26.68	32.7	33.8	34.5	76.8	78.0	77.4
Shipbuilding.....	92.9	93.1	90.5	108.9	106.7	105.9	31.61	30.92	31.57	37.3	37.0	36.4	83.3	82.7	84.2
Railroad repair shops.....	39.9	41.0	42.3	41.0	42.5	43.2	29.70	28.94	29.55	41.1	41.3	40.8	71.9	72.0	72.0
Electric railroad.....	59.8	60.4	61.3	66.2	67.3	67.7	31.19	31.32	31.18	43.8	44.0	44.0	69.8	69.8	69.5
Steam railroad.....	38.4	39.6	40.0	39.2	40.8	41.5	29.35	29.62	29.19	40.7	40.9	40.4	72.2	72.3	72.3
Nonferrous metals and their products.....	79.6	82.5	84.9	65.5	63.7	63.3	22.20	22.55	22.15	33.5	33.8	33.0	66.0	66.3	66.6
Aluminum manufactures.....	91.5	94.9	97.1	84.8	92.3	92.6	22.75	23.97	23.55	33.4	35.0	33.9	68.2	68.6	69.5
Brass, bronze, and copper products.....	82.0	83.6	85.0	67.2	70.5	69.0	23.14	23.78	22.95	32.6	33.4	31.9	70.9	71.4	72.0
Clocks and watches and time-recording devices.....	86.8	90.7	94.0	63.4	68.1	68.4	16.85	17.25	16.70	29.3	28.5	27.2	58.6	60.5	61.3
Jewelry.....	75.8	73.6	78.1	53.7	50.6	52.2	21.82	21.00	20.58	35.2	33.9	33.9	60.9	61.2	60.7
Lighting equipment.....	59.6	63.6	66.1	49.6	50.7	50.8	22.10	21.14	19.86	32.1	31.4	29.2	68.8	67.2	68.0
Silverware and plated ware.....	67.7	68.8	70.4	52.0	54.0	54.3	20.85	21.41	21.00	32.6	32.9	33.4	63.4	63.0	63.0
Smelting and refining—copper, lead, and zinc.....	68.4	71.1	73.1	61.0	64.0	64.8	26.14	25.42	25.96	38.4	39.1	38.1	68.2	67.6	68.1
Stamped and enameled ware.....	96.6	105.3	108.2	84.8	92.8	93.3	21.35	21.45	22.26	33.8	33.0	35.3	62.7	62.9	63.0
Lumber and allied products.....	54.2	54.4	55.0	48.1	47.4	47.1	19.52	19.21	18.91	37.5	36.8	36.0	53.1	53.1	53.5
Furniture.....	64.5	63.8	65.4	49.7	47.8	49.2	18.42	17.96	17.92	35.0	33.2	33.2	53.1	54.6	54.4
Lumber:															
Millwork.....	45.1	44.2	45.3	42.4	41.6	40.7	21.36	21.39	20.43	39.0	38.9	37.7	54.9	55.1	54.1
Sawmills.....	41.6	42.4	42.3	38.1	38.2	37.3	19.70	19.42	19.17	33.6	38.2	37.1	52.7	51.8	52.8
Stone, clay, and glass products.....	57.2	67.4	56.9	51.3	52.6	49.4	22.77	23.12	22.00	35.7	36.0	34.6	64.1	64.0	63.8
Brick, tile, and terra cotta.....	39.8	39.9	38.7	32.5	32.3	29.2	19.43	19.17	17.89	37.7	36.6	34.6	51.8	51.8	51.6
Cement.....	63.5	62.2	60.5	65.9	66.4	58.8	26.62	27.44	24.98	38.9	40.2	36.7	68.4	68.3	68.1
Glass.....	79.5	80.9	81.8	77.1	78.5	77.1	23.48	23.44	22.88	33.4	33.6	33.2	70.5	69.8	69.1
Marble, granite, slate, and other products.....	37.5	37.3	35.9	32.7	34.4	31.8	25.19	25.94	26.02	37.1	39.3	37.9	67.8	68.7	69.2
Pottery.....	68.3	68.6	69.6	54.0	58.0	56.5	20.93	22.38	21.49	34.0	34.9	34.4	63.6	64.2	63.8
<i>Nondurable goods</i>															
Textiles and their products.....	80.2	82.3	86.3	60.3	63.7	69.6	15.03	15.23	15.60	31.4	31.9	31.6	47.9	47.9	49.5
Fabrics.....	76.5	76.8	78.1	62.0	62.7	64.0	15.29	15.12	15.16	32.4	32.2	31.9	47.3	47.3	48.0
Carpets and rugs.....	57.1	63.7	68.4	40.7	46.7	51.8	19.29	17.41	17.95	30.1	27.1	27.8	64.2	64.2	64.7
Cotton goods.....	80.4	80.9	83.2	64.0	65.9	67.9	12.52	12.70	12.78	31.3	31.1	31.1	40.1	40.8	41.1
Cotton small wares.....	75.4	77.7	78.3	69.0	71.5	70.6	16.82	16.89	16.69	34.7	34.8	34.6	48.4	48.2	48.2
Dyeing and finishing textiles.....	97.8	101.7	103.4	76.7	83.1	86.0	18.97	19.74	20.10	34.5	36.0	36.8	54.7	54.4	54.1
Hats, fur-felt.....	55.4	67.1	80.7	40.8	47.5	53.6	20.05	19.27	18.00	29.6	27.9	23.3	72.0	73.6	72.0
Knit goods.....	99.7	99.0	103.3	96.1	97.7	102.6	16.68	17.06	17.27	33.1	33.7	33.3	51.4	51.3	52.6
Silk and rayon goods.....	53.5	59.1	59.7	41.2	46.5	45.8	15.30	14.90	13.35	33.5	34.0	33.8	44.2	44.6	43.8
Woolen and worsted goods.....	58.3	51.7	46.6	45.4	37.3	34.0	18.02	16.65	16.74	33.7	30.6	28.7	53.7	54.6	58.4
Wearing apparel.....	86.9	93.2	103.0	54.6	63.0	74.6	15.52	16.49	16.49	29.2	31.0	31.2	48.9	49.1	52.1
Clothing, men's.....	72.2	76.2	90.6	43.2	47.9	64.5	14.00	14.86	16.77	26.2	27.1	28.5	54.8	55.1	58.1
Clothing, women's.....	118.7	132.8	143.3	72.0	88.4	99.1	16.25	18.14	18.92	30.2	33.1	32.4	49.3	49.7	52.9
Corsets and allied garments.....	85.5	86.6	87.2	76.5	81.7	86.4	14.91	16.27	16.47	31.7	31.9	35.4	46.5	46.3	46.1
Men's furnishings.....	112.4	114.4	116.3	82.1	79.5	83.9	12.74	12.16	12.55	34.3	33.2	33.8	35.1	33.8	34.5

See footnotes at end of table.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June, May, and April 1938—Contd.*

MANUFACTURING—Continued

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1933 Census of Manufactures. Not comparable to indexes published in pamphlets prior to October 1936.]
Comparable series available upon request]

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	June 1938	May 1938	April 1938	June 1938	May 1938	April 1938	June 1938	May 1938	April 1938	June 1938	May 1938	April 1938	June 1938	May 1938	April 1938
<i>Nondurable goods—Continued</i>															
Textiles and their products—Continued.															
Wearing apparel—Continued.													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Millinery.....	42.9	52.1	60.8	28.0	35.0	46.6	\$18.35	\$19.72	\$22.42	28.4	31.9	35.4	63.0	58.2	63.7
Shirts and collars.....	106.8	105.6	108.4	80.2	83.5	85.5	11.22	11.87	11.78	30.8	32.1	31.2	37.8	37.7	38.0
Leather and its manufactures.....	78.5	82.5	88.0	55.1	59.3	67.1	16.30	16.66	17.84	31.7	31.4	34.1	51.4	52.2	51.3
Boots and shoes.....	80.8	85.8	92.7	49.6	54.1	65.7	14.71	15.39	16.90	30.4	30.4	33.8	48.6	49.8	48.7
Leather.....	73.9	74.0	74.6	76.1	74.7	74.4	23.11	22.57	22.32	36.8	35.8	35.1	63.0	63.3	63.6
Food and kindred products.....	107.3	101.8	101.0	111.1	107.0	104.1	24.98	25.40	24.89	40.7	40.7	40.1	61.4	62.4	62.1
Baking.....	132.1	129.9	129.9	130.4	128.1	126.3	25.76	25.84	25.36	42.3	42.3	41.8	61.3	61.5	61.0
Beverages.....	212.7	204.3	198.4	245.0	233.1	223.0	33.51	33.30	32.83	40.3	39.7	39.1	84.1	84.4	81.7
Butter.....	90.2	87.5	85.0	75.1	73.5	68.4	23.18	23.37	22.31	48.1	48.5	47.2	48.0	48.2	47.7
Canning and preserving.....	110.6	82.9	80.5	107.1	85.4	80.4	15.98	17.05	16.53	34.9	34.5	34.6	46.7	50.5	49.4
Confectionery.....	67.5	66.9	71.6	67.2	63.6	60.0	18.21	17.22	16.79	37.4	35.7	35.1	49.0	48.7	47.9
Flour.....	72.8	71.5	71.8	74.4	71.3	70.9	26.66	26.00	25.76	44.5	43.6	42.8	59.6	59.1	59.7
Ice cream.....	83.2	71.4	69.9	77.6	74.0	66.6	28.42	28.43	29.06	47.6	47.6	46.9	60.1	59.6	61.7
Slaughtering and meat packing.....	84.8	83.3	83.0	95.6	94.6	92.0	28.19	28.38	27.73	40.7	41.2	40.1	69.0	68.8	69.1
Sugar, beet.....	42.1	38.6	38.7	49.8	46.7	45.6	27.89	28.52	27.74	40.8	39.4	39.9	70.8	75.2	72.9
Sugar refining, cane.....	75.9	76.4	66.9	72.1	73.1	65.0	24.22	24.67	25.05	39.7	39.9	41.2	61.0	61.9	60.9
Tobacco manufactures.....	60.3	59.4	59.1	55.2	52.5	49.3	18.91	16.31	15.54	38.9	35.2	33.0	45.7	48.2	46.6
Chewing and smoking tobacco and snuff.....	55.1	55.7	56.4	68.2	63.8	66.1	18.62	17.16	17.57	36.6	34.3	35.2	50.9	50.4	50.3
Cigars and cigarettes.....	60.9	59.8	59.3	53.6	51.1	47.3	16.57	16.13	15.10	37.0	35.3	32.7	45.1	45.8	46.1
Paper and printing.....	97.2	98.5	93.7	91.4	93.8	94.6	27.04	27.41	27.80	38.4	37.0	36.9	77.4	78.9	78.5
Boxes, paper.....	88.6	89.0	80.8	86.3	87.5	87.2	19.89	20.33	20.10	36.7	36.9	36.8	55.3	55.5	55.0
Paper and pulp.....	104.5	105.4	106.9	96.4	98.7	99.9	22.89	23.20	23.16	36.7	37.3	37.4	62.5	62.3	62.0
Printing and publishing.....															
Book and job.....	87.8	90.2	91.7	80.3	83.7	81.8	29.02	29.40	29.27	36.5	37.3	37.1	80.6	79.9	79.9
Newspapers and periodicals.....	102.2	103.1	103.9	99.8	101.4	102.0	36.81	36.92	36.88	35.8	36.3	36.4	99.4	98.4	97.3
Chemicals and allied products, and petroleum refining.....	103.9	107.2	110.5	114.8	117.7	116.3	28.80	28.50	27.32	37.3	37.7	37.0	77.0	75.7	74.2
Petroleum refining.....	117.6	117.4	117.8	136.6	138.4	133.8	35.26	35.78	34.47	36.3	37.0	35.8	97.8	97.5	96.8
Other than petroleum refining.....	100.6	104.8	108.7	108.0	111.3	113.9	25.63	25.17	24.17	37.7	37.9	37.5	68.5	67.2	65.9
Chemicals.....	107.7	107.6	109.4	117.2	115.9	116.6	29.90	29.63	29.42	37.7	37.6	37.2	79.3	78.9	79.5
Cottonseed—oil, cake, and meal.....	47.9	57.3	74.9	42.9	51.2	64.9	12.87	12.82	12.29	48.3	49.3	49.0	26.1	25.4	25.3
Druggists' preparations.....	103.7	104.0	104.3	114.8	114.6	114.8	24.03	23.89	23.89	37.7	37.6	37.7	60.0	59.8	60.0

Explosives.....	84.9	84.8	86.0	89.3	85.9	86.5	29.30	28.55	28.32	36.4	34.9	34.9	81.5	81.7	81.1
Fertilizers.....	62.3	90.4	123.0	66.3	95.7	121.1	17.33	17.46	16.24	38.0	39.0	40.6	45.8	44.9	40.1
Paints and varnishes.....	110.7	118.7	118.0	118.2	122.2	116.7	27.79	28.17	27.11	39.9	40.7	39.4	69.7	69.3	68.9
Rayon and allied products.....	284.2	304.0	303.1	258.1	275.0	260.3	22.42	22.34	21.21	34.6	34.6	32.6	64.8	64.6	65.0
Soap.....	91.7	91.7	93.8	107.1	107.2	108.5	28.81	28.84	28.54	38.8	38.7	38.4	74.5	74.7	74.4
Rubber products.....	70.6	71.5	72.7	65.2	63.1	61.7	23.75	23.39	22.47	31.3	31.1	30.1	77.0	76.9	76.7
Rubber boots and shoes.....	53.5	52.4	53.9	41.0	39.7	38.1	19.18	18.98	17.72	32.1	31.4	29.3	59.8	60.5	60.5
Rubber tires and inner tubes.....	62.2	62.3	63.0	58.4	57.0	54.6	27.35	26.67	25.21	28.7	27.9	26.6	94.5	95.0	94.6
Rubber goods, other.....	102.7	106.6	108.9	92.7	96.8	98.6	20.49	20.72	20.70	34.5	35.1	35.0	59.7	59.4	59.3

NONMANUFACTURING

(Indexes are based on 12-month average, 1929=100)

Coal mining:															
Anthracite ¹	56.0	52.8	57.0	49.7	38.3	39.0	\$28.94	\$23.61	\$22.26	30.6	25.1	23.5	93.2	92.3	92.7
Bituminous ¹	80.1	82.2	85.8	57.1	55.5	56.3	18.93	17.82	17.39	21.0	19.7	19.8	87.9	88.4	86.8
Metalliferous mining.....	55.8	58.8	61.6	46.0	51.2	53.3	25.49	27.12	27.01	37.6	40.1	40.0	67.9	67.8	67.6
Quarrying and nonmetallic mining.....	43.6	43.7	41.7	37.3	38.3	33.9	21.61	22.11	20.55	40.4	41.0	37.8	53.5	53.9	54.2
Crude-petroleum producing.....	72.9	73.2	73.8	67.6	66.7	68.0	34.48	33.64	34.28	40.4	39.4	39.9	83.9	85.2	84.3
Public utilities:															
Telephone and telegraph ²	74.8	75.0	74.8	90.9	91.3	91.6	31.08	31.14	31.30	38.4	38.4	39.4	85.5	85.6	84.2
Electric light and power and manufactured gas ³	92.2	91.7	91.8	98.7	97.4	97.6	33.72	33.38	33.34	40.2	39.2	40.1	84.1	85.2	83.4
Electric-railroad and motorbus operation and maintenance ³	70.4	70.6	71.1	69.6	71.2	70.0	32.39	32.96	32.21	45.0	45.9	45.1	70.9	70.7	70.4
Trade:															
Wholesale ³	87.2	87.3	88.5	73.6	75.1	74.6	29.58	30.30	29.59	42.5	42.8	42.6	70.1	71.3	69.8
Retail ³	83.6	83.8	88.2	69.5	70.0	72.2	21.46	21.45	21.09	42.7	42.7	42.6	55.0	54.5	54.5
General merchandising ³	91.9	92.4	101.0	84.3	84.4	89.4	18.22	18.15	17.66	39.3	39.3	39.5	49.4	48.9	47.6
Other than general merchandising ³	81.4	81.5	84.9	66.4	67.0	68.6	24.11	24.18	23.98	43.7	43.7	43.6	56.6	56.2	56.6
Hotels (year round) ^{2,3,6}	92.1	93.7	93.5	79.4	80.5	80.5	14.89	14.80	14.87	46.9	46.6	46.9	31.2	31.5	31.6
Laundries ²	96.6	96.2	95.4	81.8	80.9	80.6	17.26	17.10	17.20	42.4	42.0	42.1	41.1	41.1	41.1
Dyeing and cleaning ²	110.9	109.9	111.8	83.3	80.7	87.2	20.98	20.30	21.58	43.4	42.1	44.1	48.4	48.4	49.1
Brokerage ^{3,6}	-1.4	-2.0	-2.0	-1.6	-4.9	-3.4	33.87	33.75	34.47	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Insurance ^{3,6}	+4	+2	+2	+9	-1	-3	36.30	36.02	36.75	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Building construction ⁶	+2	+3.4	+5.5	+1.1	+5.8	+7.3	29.43	29.07	28.66	32.6	32.3	31.4	90.4	90.3	90.9

¹ Average weekly earnings are computed from figures furnished by all reporting establishments. Average hours and average hourly earnings are computed from data supplied by a smaller number of establishments as all reporting firms do not furnish man-hours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample.

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 Not available.

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

⁶ Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted.

INDEXES OF EMPLOYMENT AND PAY ROLLS

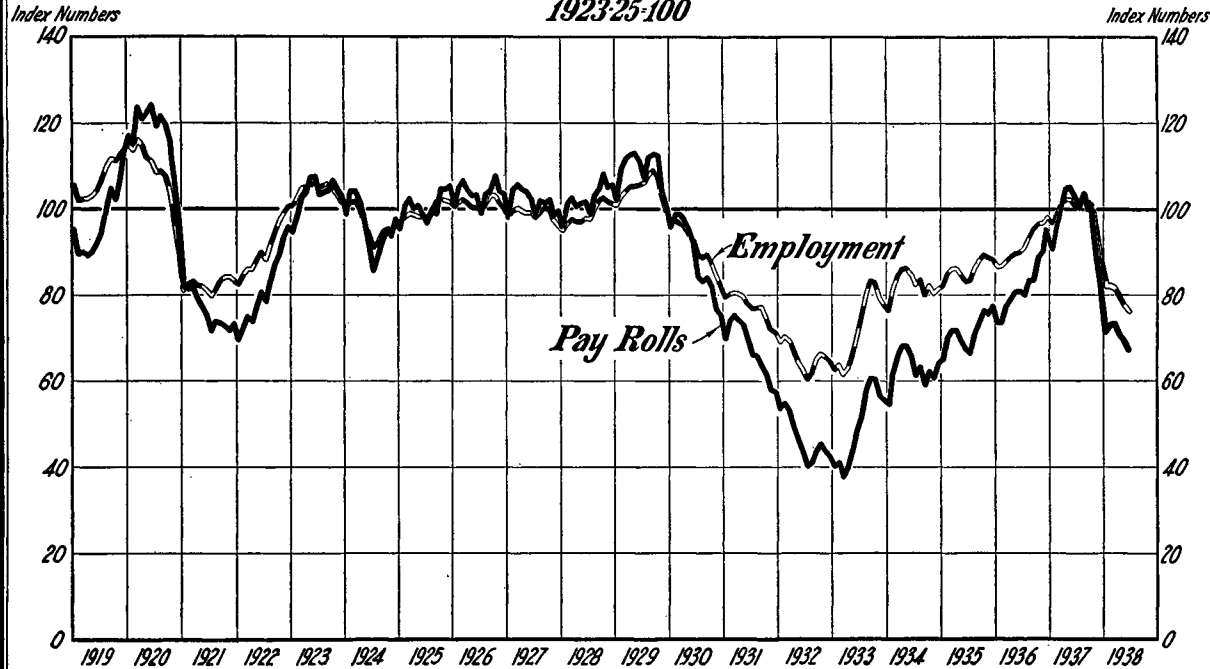
Indexes of employment and pay rolls are given in table 6 for all manufacturing industries combined, for the durable- and nondurable-goods groups of manufacturing industries, and of 13 nonmanufacturing industries, including 2 subgroups under retail trade, by months, from June 1937 to June 1938, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to June 1938.

The indexes of factory employment and pay rolls are computed from returns supplied by representative establishments in 89 manufacturing industries and cover wage earners only. The base used in computing these indexes is the 3-year average 1923-25 as 100. In June 1938 reports were received from 25,714 manufacturing establishments employing 3,734,235 workers, whose weekly earnings were \$83,277,915. The employment reports received from these establishments cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 89 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, dyeing and cleaning, and building construction cover wage earners only, but the figures for public utilities, trade, hotels, brokerage, and insurance relate to all employees, except corporation officers, executives, and other employees whose duties are mainly supervisory. For crude-petroleum producing they cover wage earners and clerical field force.

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

EMPLOYMENT & PAY ROLLS ALL MANUFACTURING INDUSTRIES 1923=25=100



UNITED STATES BUREAU OF LABOR STATISTICS

TABLE 6.—*Indexes of Employment and Pay Rolls in Selected Manufacturing¹ and Non-manufacturing² Industries, June 1937 to June 1938, Inclusive*

Industry	Employment														
	Avg. for year 1937	1937							1938						
		June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	
Manufacturing															
All industries.....	99.3	101.1	101.4	102.3	102.1	100.5	94.7	88.6	82.2	82.3	81.7	79.6	77.4	75.9	
Durable goods ³	95.5	98.8	98.9	98.1	97.3	97.6	92.4	84.3	75.1	73.3	72.4	70.0	68.2	65.8	
Nondurable goods ⁴	103.4	103.5	104.1	106.9	107.3	103.6	97.3	93.3	89.9	92.1	91.7	89.8	87.4	86.7	
Nonmanufacturing															
Anthracite mining.....	60.2	61.6	54.3	49.7	58.1	61.5	60.9	61.4	59.6	60.0	59.3	57.0	52.8	56.0	
Bituminous-coal mining.....	99.3	96.2	93.7	97.4	99.4	102.4	101.4	99.4	96.9	95.5	93.2	85.8	82.2	80.1	
Metalliferous mining.....	76.8	79.5	82.0	83.4	84.1	82.9	75.4	70.4	67.4	63.6	62.3	61.6	58.8	55.8	
Quarrying and nonmetallic mining.....	51.4	55.4	55.5	54.9	54.7	53.3	49.9	43.9	38.2	37.8	38.9	41.7	43.7	43.6	
Crude-petroleum producing.....	76.5	78.5	78.5	79.3	78.2	77.5	77.2	76.5	75.3	74.2	73.6	73.8	73.2	72.9	
Telephone and telegraph.....	77.8	78.5	79.7	79.8	79.8	79.6	78.9	78.0	77.8	75.7	74.9	74.8	75.0	74.8	
Electric light and power, and manufactured gas.....	95.6	96.3	97.5	98.3	98.6	98.5	97.3	96.1	93.8	92.6	92.0	91.8	91.7	92.2	
Electric-railroad and motorbus operation and maintenance ⁵	73.1	73.3	73.4	73.4	73.7	73.4	73.2	72.8	72.3	71.2	70.8	71.1	70.6	70.4	
Wholesale trade.....	92.0	90.3	90.6	91.8	93.0	94.0	93.5	93.3	91.0	90.4	89.1	88.5	87.8	87.2	
Retail trade.....	89.8	90.5	87.6	86.2	90.7	92.1	91.7	100.4	84.1	82.4	83.0	88.7	83.8	83.6	
General merchandising.....	104.3	102.9	95.9	93.8	103.7	108.1	109.8	145.9	91.5	88.8	90.5	101.0	92.4	91.9	
Other than general merchandising.....	85.9	87.2	85.4	84.2	87.3	87.9	86.9	88.5	82.1	80.7	81.0	84.9	81.5	81.4	
Year-round hotels.....	94.9	94.4	93.6	94.3	95.7	96.9	96.6	94.9	94.3	94.5	93.4	93.5	93.7	92.1	
Laundries.....	100.6	103.9	105.8	104.7	104.1	99.9	97.8	97.0	96.8	95.7	94.8	95.4	96.2	96.6	
Dyeing and cleaning.....	107.5	118.5	111.0	110.3	112.8	110.5	103.5	99.2	96.8	95.6	98.5	111.8	109.9	110.9	
Pay rolls															
Manufacturing															
All industries.....	98.0	102.9	100.4	103.8	100.1	100.1	89.5	80.9	71.7	73.2	73.3	70.7	69.2	67.2	
Durable goods ³	97.5	104.6	100.7	104.0	99.4	101.7	89.9	77.0	63.9	63.7	63.8	61.8	60.5	58.1	
Nondurable goods ⁴	98.5	100.8	100.0	103.5	100.9	98.2	89.0	85.8	81.6	85.1	85.3	82.0	80.3	78.8	
Nonmanufacturing															
Anthracite mining.....	46.9	55.3	38.2	29.6	34.2	55.4	49.0	51.3	46.5	46.1	47.3	39.0	38.3	49.7	
Bituminous-coal mining.....	88.5	83.3	77.7	86.3	90.9	100.7	91.1	95.1	70.4	74.0	68.4	56.3	55.5	57.1	
Metalliferous mining.....	74.0	77.7	77.8	83.0	82.2	81.7	71.6	65.1	59.1	55.8	56.3	53.3	51.2	46.0	
Quarrying and nonmetallic mining.....	45.4	52.6	50.8	53.2	50.1	49.3	41.7	33.4	27.7	28.6	30.2	33.9	38.3	37.3	
Crude-petroleum producing.....	68.2	70.4	70.5	70.8	71.2	69.9	70.2	69.8	68.2	69.6	68.0	68.0	66.8	67.6	

¹ 3-year average, 1923-25=100—adjusted to 1933 Census of Manufactures. Comparable indexes are in February 1937 and subsequent issues of Employment and Pay Rolls or in April 1937 and subsequent issues 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.

⁵ Not including electric-railroad car building and repairing. See transportation equipment and railroad repair-shop groups, manufacturing industries, table 4.

TABLE 6.—Indexes of Employment and Pay Rolls in Selected Manufacturing and Non-manufacturing Industries, June 1937 to June 1938, Inclusive—Continued

Industry	Pay rolls														
	Avg. for year 1937	1937							1938						
		June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	
<i>Nonmanufacturing—Con.</i>															
Telephone and telegraph.....	89.6	88.6	92.1	92.1	92.3	94.9	91.4	94.7	93.7	89.9	92.6	91.6	91.3	90.9	
Electric light and power, and manufactured gas.....	99.6	100.4	102.2	102.6	104.0	105.3	103.8	102.4	98.9	98.5	98.6	97.6	97.4	98.7	
Electric-railroad and motor- bus operation and maintenance ¹	70.6	71.1	70.8	73.1	71.6	71.4	71.8	71.9	70.6	70.2	69.9	70.0	71.2	69.6	
Wholesale trade.....	76.6	76.3	76.9	79.0	78.3	79.3	78.3	77.8	75.4	75.3	74.7	74.6	75.1	73.6	
Retail trade.....	73.1	74.4	72.8	72.3	74.4	75.9	75.3	80.6	70.1	68.4	68.6	72.2	70.0	69.5	
General merchandis- ing.....	92.5	92.5	87.3	85.7	92.4	96.2	97.1	123.3	84.6	81.5	82.2	89.4	84.4	84.3	
Other than general merchandising.....	69.1	70.6	69.8	69.5	70.7	71.7	70.8	71.8	67.1	65.7	65.8	68.6	67.0	66.4	
Year-round hotels.....	80.6	80.1	79.4	80.5	82.4	84.1	84.3	82.6	81.6	83.6	80.9	80.5	80.5	79.4	
Laundries.....	83.0	87.5	89.0	88.0	86.4	83.4	81.1	81.1	80.1	79.1	78.6	80.6	80.9	81.8	
Dyeing and cleaning.....	77.6	92.2	79.5	81.3	85.7	83.6	73.7	68.6	65.5	65.2	68.2	87.2	80.7	83.3	

¹ Not including electric-railroad car building and repairing. See transportation equipment and railroad repair-shop groups, manufacturing industries, table 4.

TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in May and June 1938, 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 89 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.

TABLE 7.—Comparison of Employment and Pay Rolls in Identical Establishments in May and June 1938, 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 employees, June 1938	Percentage change from May 1938	Amount of pay roll (1 week) June 1938	Percentage change from May 1938	Number of establishments	Number employees, June 1938	Percentage change from May 1938	Amount of pay roll (1 week) June 1938	Percentage change from May 1938
				<i>Dollars</i>					<i>Dollars</i>	
New England.....	13, 788	782, 618	-2.7	16, 560, 202	-2.6	3, 653	502, 796	-3.9	10, 043, 658	-4.2
Maine.....	832	50, 870	-1.2	944, 704	-6.3	301	40, 180	-2.4	693, 365	-0.1
New Hamp- shire.....	630	32, 518	-3.6	609, 864	-7.0	292	25, 487	-5.0	444, 755	-10.0
Vermont.....	479	15, 487	+1.1	327, 937	-2	154	8, 913	+3.7	177, 823	+1.9
Massachusetts.....	¹ 8, 145	<i>414, 125</i>	<i>-3.1</i>	<i>9, 464, 535</i>	<i>-2.3</i>	¹ 1, 899	<i>227, 241</i>	<i>-5.2</i>	<i>4, 759, 516</i>	<i>-4.5</i>
Rhode Island.....	1, 255	77, 627	-1.3	1, 551, 812	-1	429	58, 037	-1.4	1, 086, 691	-3
Connecticut.....	2, 447	171, 989	-3.1	3, 661, 490	-2.8	758	142, 038	-3.3	2, 887, 708	-3.4
Middle Atlantic.....	32, 518	1, 906, 673	-1.3	49, 034, 231	-5	5, 542	1, 026, 337	-1.7	24, 413, 167	-2.3
New York.....	20, 574	859, 825	-1.8	23, 821, 330	-1.2	² 2, 389	376, 397	-1.7	9, 672, 879	-1.2
New Jersey.....	4, 389	322, 605	-3	8, 075, 847	-6	³ 831	226, 211	+5	<i>5, 556, 546</i>	<i>-6</i>
Pennsylvania.....	7, 553	724, 242	-1.2	17, 134, 054	+5	² 2, 322	<i>423, 729</i>	<i>-2.0</i>	<i>9, 183, 742</i>	<i>-4.3</i>
East North Central.....	25, 643	1, 835, 485	-2.6	45, 187, 381	-2.7	8, 670	1, 314, 489	-3.4	32, 044, 502	-3.8
Ohio.....	7, 573	503, 797	-2.1	11, 841, 278	-2.3	2, 561	365, 924	-2.5	8, 260, 736	-3.3
Indiana.....	² 9, 961	<i>219, 745</i>	<i>-3.1</i>	<i>4, 928, 441</i>	<i>-4.4</i>	¹ 1, 042	<i>163, 326</i>	<i>-4.0</i>	<i>3, 808, 968</i>	<i>-5.8</i>
Illinois.....	⁵ 6, 715	<i>538, 519</i>	<i>-1.6</i>	<i>13, 568, 288</i>	<i>-2.9</i>	² 2, 481	<i>354, 689</i>	<i>-2.3</i>	<i>8, 644, 263</i>	<i>-3.1</i>
Michigan.....	4, 015	318, 687	-5.7	9, 172, 313	-4.2	² 1, 045	281, 216	-6.9	<i>7, 654, 555</i>	<i>-4.9</i>
Wisconsin.....	⁶ 4, 379	<i>225, 437</i>	<i>-4</i>	<i>5, 377, 066</i>	<i>-4</i>	¹ 1, 541	<i>154, 329</i>	<i>+3.9</i>	<i>3, 640, 180</i>	<i>+4.6</i>
West North Central.....	12, 433	411, 297	-8	9, 771, 876	-8	2, 631	200, 532	-1.1	4, 787, 625	-2
Minnesota.....	2, 336	97, 272	+1	2, 471, 140	-6	608	45, 423	-1.0	1, 191, 235	-7
Iowa.....	2, 076	58, 556	-8	1, 314, 922	-8	422	31, 069	-5	738, 039	-6
Missouri.....	3, 008	157, 579	-2.0	3, 659, 073	-9	890	85, 483	-2.4	1, 855, 183	+2
North Dakota.....	543	4, 877	+2.0	117, 394	-7	55	708	+6.5	18, 964	+1.4
South Dakota.....	449	7, 770	+9	200, 965	+1.6	39	2, 223	+3.1	57, 174	+6.5
Nebraska.....	1, 393	29, 716	+4	673, 231	+3	162	10, 223	+3.8	257, 112	+3.8
Kansas.....	⁸ 2, 578	<i>55, 527</i>	<i>+1.8</i>	<i>1, 299, 151</i>	<i>+1.7</i>	⁴ 455	<i>25, 451</i>	<i>-3</i>	<i>669, 838</i>	<i>-1.8</i>
South Atlantic.....	11, 366	534, 021	-1.1	14, 480, 142	-1.1	2, 981	517, 670	-9	8, 691, 095	-2.0
Delaware.....	211	13, 170	+5	2, 38, 157	-1.2	84	9, 642	+7	<i>215, 377</i>	<i>-1.0</i>
Maryland.....	<i>1, 614</i>	<i>124, 133</i>	<i>-1.7</i>	<i>2, 799, 794</i>	<i>-2.0</i>	<i>621</i>	<i>84, 163</i>	<i>-2.5</i>	<i>1, 821, 406</i>	<i>-2.6</i>
District of Co- lumbia.....	1, 122	39, 774	-1.9	1, 048, 044	-6	40	3, 332	-1	111, 838	+2
Virginia.....	2, 181	111, 261	+5	2, 047, 278	+4	480	73, 232	-7	1, 325, 691	+5
West Virginia.....	1, 267	126, 963	-3.8	2, 750, 191	-1.0	272	45, 181	-7.3	978, 578	-11.4
North Carolina.....	1, 567	150, 597	+1.0	2, 276, 158	- ⁽¹⁰⁾	661	137, 096	+1.3	2, 043, 730	+4
South Carolina.....	749	69, 864	+2.3	934, 186	-4	214	62, 450	+2.5	798, 246	-4
Georgia.....	1, 486	105, 459	-1.5	1, 568, 694	+1	397	89, 571	-1.7	1, 054, 761	+1.3
Florida.....	1, 166	42, 890	-6.2	757, 640	-8.8	212	22, 003	-1.9	341, 535	-5.5
East South Central.....	5, 186	273, 963	-1.4	4, 676, 610	-3.5	1, 096	159, 010	-1.9	2, 591, 906	-3.2
Kentucky.....	1, 419	80, 236	+1.8	1, 491, 741	-1.6	330	30, 577	+2.0	593, 695	+3
Tennessee.....	1, 449	95, 521	-7	1, 607, 003	-1.3	388	67, 225	-5	1, 092, 234	-9
Alabama.....	1, 695	80, 659	-4.8	1, 312, 492	-8.1	306	50, 545	-5.1	762, 876	-8.5
Mississippi.....	623	17, 547	-2.6	265, 374	-3.8	102	10, 593	-5.1	143, 051	-5.4
West South Central.....	6, 372	228, 362	-3	5, 153, 476	-1.5	1, 387	109, 624	-1	2, 389, 944	-2.0
Arkansas.....	¹¹ 1, 084	<i>29, 342</i>	<i>+⁽¹⁰⁾</i>	<i>511, 251</i>	<i>+2.9</i>	³ 372	<i>17, 816</i>	<i>+6</i>	<i>299, 945</i>	<i>+4.0</i>
Louisiana.....	1, 073	54, 081	-1.6	1, 075, 681	-2.4	259	30, 400	-2.1	560, 515	-2.7
Oklahoma.....	1, 424	43, 173	-1	1, 078, 481	-1.2	147	11, 640	+1.2	280, 574	-2.3
Texas.....	<i>2, 791</i>	<i>101, 766</i>	<i>+2</i>	<i>2, 433, 063</i>	<i>-2.2</i>	<i>679</i>	<i>49, 668</i>	<i>+6</i>	<i>1, 257, 910</i>	<i>-2.9</i>

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

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

³ Includes laundries.

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 financial institutions, miscellaneous services, and restaurants.

⁹ Weighted percentage change including hired farm labor.

¹⁰ Less than 1/10 of 1 percent.

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

TABLE 7.—Comparison of Employment and Pay Rolls in Identical Establishments in May and June 1938, by Geographic Divisions and by States—Continued

Geographic division and State	Total—all groups					Manufacturing				
	Number of establishments	Number employees, June 1938	Percentage change from May 1938	Amount of pay roll (1 week) June 1938	Percentage change from May 1938	Number of establishments	Number employees, June 1938	Percentage change from May 1938	Amount of pay roll (1 week) June 1938	Percentage change from May 1938
				<i>Dollars</i>					<i>Dollars</i>	
Mountain	4,262	114,961	-1.5	2,890,394	-2.4	589	32,029	-0.1	821,641	+0.3
Montana.....	653	13,912	-11.9	396,469	-14.8	89	4,166	-6.9	113,902	-4.4
Idaho.....	487	10,126	+4.3	238,465	+4.7	61	3,084	+11.5	83,502	+18.7
Wyoming.....	322	8,527	+1.3	227,049	+1.8	30	1,593	+2.0	52,715	-4.0
Colorado.....	1,254	39,450	-1.8	961,211	+1.4	190	11,724	-3.8	301,851	+1.1
New Mexico.....	293	6,370	-1.1	134,921	+2.3	32	980	+8.2	18,933	+11.6
Arizona.....	458	13,915	-1.6	363,060	-4.3	45	2,898	-9.7	70,293	-4.1
Utah.....	618	19,721	+2.2	460,016	-3.4	117	6,918	+6.5	169,447	-3.3
Nevada.....	177	2,940	-(10)	88,203	-3.3	16	666	-10.4	19,998	-7.7
Pacific	10,177	429,564	+1.8	12,090,647	+1.0	2,593	222,780	+1.9	5,996,899	+1.3
Washington.....	2,062	89,502	+1.9	2,319,077	+1.6	560	47,621	+1.7	1,204,342	+2.7
Oregon.....	1,418	48,327	+5.1	1,213,019	+3.0	307	27,516	+8.1	682,100	+6.2
California.....	12,579 ¹	291,735	+1.2	8,528,551	+5.5	1,726	147,643	+1.0	4,110,457	+1.1

¹⁰ Less than 1/10 of 1 percent.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 1938 is made in table 8 for 13 metropolitan areas which had a population of 500,000 or over in 1930. Cities within these areas, but having a population of 100,000 or over, are not included, as data concerning them are tabulated separately and are available on request.

Footnotes to the table indicate which cities are excluded. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 4 with the exception of building construction, and include also miscellaneous industries.

TABLE 8.—Comparison of Employment and Pay Rolls in Identical Establishments in May and June 1938, by Principal Metropolitan Areas

Metropolitan area	Number of establishments	Number on pay roll, June	Percentage change from May	Amount of pay roll (1 week), June	Percentage change from May
New York ¹	14,605	572,479	-2.5	\$15,365,590	-2.0
Chicago ¹	4,497	413,646	-1.5	11,079,993	-2.9
Philadelphia ²	2,007	176,039	-1.8	4,618,192	-5.5
Detroit.....	1,779	209,067	-7.5	6,134,430	-5.5
Los Angeles ³	3,084	151,240	+1.1	4,400,911	-9.9
Cleveland.....	1,791	113,970	-2.1	2,776,913	-4.5
St. Louis.....	1,565	119,726	-1.2	2,840,718	-6.6
Baltimore.....	1,171	94,315	-2.7	2,144,450	-1.7
Boston ⁴	1,516	96,938	-1.1	2,668,931	-9.9
Pittsburgh.....	1,120	155,031	-4.9	3,710,963	-6.2
San Francisco ⁵	1,724	83,712	+1.2	2,487,251	+7.7
Buffalo.....	881	53,605	-3.3	1,402,767	-2.0
Milwaukee.....	1,160	92,799	-1.4	2,376,769	-3.3

¹ Does not include Elizabeth, Jersey City, Newark, or Paterson, N. J.; nor Yonkers, N. Y.² Does not include Gary, Ind.³ Figures relate to city of Boston only.⁴ Does not include Camden, N. J.⁵ Does not include Oakland, Calif.⁶ Does not include Long Beach, 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 1938 are given in table 9.

TABLE 9.—Employment and Pay Rolls for the Executive Service of the U. S. Government, May and June 1938 ¹

[Subject to revision]

Item	Employment		Per-centage change	Pay rolls		Per-centage change
	June	May ²		June	May ²	
Entire service:						
Total.....	857, 520	841, 176	+1.9	\$128, 071, 062	\$124, 983, 174	+2.5
Regular appropriation.....	729, 657	715, 946	+1.9	111, 486, 947	108, 814, 593	+2.5
Emergency appropriation.....	62, 984	61, 147	+3.0	8, 305, 085	8, 104, 303	+2.5
Force-account (regular and emer- gency).....	64, 879	64, 083	+1.2	8, 279, 030	8, 064, 278	+2.7
Inside the District of Columbia:						
Total.....	115, 774	114, 556	+1.1	20, 414, 797	20, 243, 385	+ .8
Regular appropriation.....	98, 573	96, 715	+1.9	17, 753, 910	17, 481, 787	+1.6
Emergency appropriation.....	12, 533	12, 431	+ .8	1, 931, 023	1, 935, 748	- .2
Force-account (regular and emer- gency).....	4, 668	5, 410	-13.7	729, 864	825, 850	-11.6
Outside the District of Columbia:						
Total.....	741, 746	726, 620	+2.1	107, 656, 265	104, 739, 789	+2.8
Regular appropriation.....	631, 084	619, 231	+1.9	93, 733, 037	91, 332, 806	+2.6
Emergency appropriation.....	59, 451	48, 716	+3.6	6, 374, 062	6, 168, 555	+3.3
Force-account (regular and emer- gency).....	60, 211	58, 673	+2.6	7, 549, 166	7, 238, 428	+4.3

¹ Date 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 1938*¹

(Subject to revision)

Type of project	Wage earners		Monthly pay-roll disbursements	Number of men-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ¹	Weekly average				
Federal projects financed from National Industrial Recovery Act funds						
All projects.....	\$ 13, 137	11, 494	\$1, 066, 312	1, 463, 294	\$0. 729	\$1, 467, 851
Building construction.....	1, 751	1, 419	203, 191	172, 876	1. 175	156, 246
Naval vessels.....	2, 180	1, 241	199, 975	221, 527	. 903	214, 312
Public roads ⁴	(²)	5, 799	336, 628	627, 502	. 536	320, 000
Reclamation.....	1, 690	1, 607	204, 611	251, 963	. 812	630, 380
River, harbor, and flood control.....	1, 617	1, 332	113, 173	179, 163	. 632	145, 562
Miscellaneous.....	100	96	8, 734	10, 263	. 851	1, 411
Non-Federal projects financed from National Industrial Recovery Act funds						
All projects.....	10, 596	8, 666	\$1, 076, 891	951, 915	\$1. 131	\$1, 300, 960
Building construction ⁶	4, 121	3, 423	561, 645	380, 594	1. 476	483, 832
Railroad construction.....	33	23	182	375	. 485	0
Streets and roads.....	1, 239	966	58, 034	81, 694	. 710	148, 833
Water and sewerage.....	3, 676	3, 002	353, 467	326, 774	1. 082	514, 246
Miscellaneous.....	1, 527	1, 252	103, 563	162, 478	. 637	154, 049
Projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds ⁷						
All projects ⁸	93, 141	77, 459	\$7, 630, 319	9, 387, 127	\$0. 813	\$14, 104, 772
Building construction ⁸	60, 235	50, 441	5, 239, 787	5, 881, 032	. 801	9, 677, 239
Electrification.....	890	710	53, 562	79, 670	. 672	280, 562
Heavy engineering.....	5, 943	5, 053	589, 570	698, 479	. 844	1, 063, 730
Reclamation.....	1, 185	947	86, 554	118, 090	. 733	66, 149
River, harbor, and flood control.....	598	561	55, 757	87, 452	. 638	71, 237
Streets and roads.....	12, 453	9, 998	674, 322	1, 246, 022	. 541	1, 183, 801
Water and sewerage.....	11, 569	9, 529	908, 414	1, 244, 403	. 730	1, 570, 826
Miscellaneous.....	268	220	22, 353	31, 979	. 699	191, 228

¹ Data are for the month ending on the 15th.² Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.³ Includes weekly average for public roads.⁴ Under the jurisdiction of the Bureau of Public Roads.⁵ Not available; weekly average included in total for all projects.⁶ Includes data for workers engaged in construction of underground tunnel who, because of the additional risk involved, were paid at rates higher than those usually paid for building construction.⁷ These data are also included in separate tables covering projects financed by The Works Program.⁸ Includes a maximum of 2,393 and an average of 2,034 employees working on low-cost housing projects financed from Emergency Relief Appropriation Act of 1935 funds who were paid \$277.10 for 267,955 man-hours of labor. Material orders in the amount of \$178,485 were placed for these projects. These data are also included in separate tables covering projects financed from The Works Program.

Construction projects financed by the Public Works Administration are those projects authorized by title II of the National Industrial Recovery Act of June 16, 1933. This program of public works was extended to June 30, 1937, by the Emergency Relief Appropriation Act of 1935 and title II of the First Deficiency Appropriation Act of 1936. The First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936, reappropriated

unobligated funds originally made available under the Emergency Relief Appropriation Act of 1935 and authorized the use of \$300,000,000 from funds on hand or received from the sale of securities. The Public Works Administration was continued until July 1, 1939, by the Public Works Administration Extension Act of 1937.

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-cost housing program now under way, however, is financed by funds provided under the Emergency Relief Appropriation Act of 1935. 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, or the Public Works Administration Extension Act of 1937. 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, or the Public Works Administration Extension Act of 1937 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.

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. 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 11, by type of project.

TABLE 11.—Employment and Pay Rolls on Projects Financed by The Works Program, June 1938 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.....	2 288, 010	262, 635	\$15, 163, 038	28, 871, 519	\$0. 525	\$5, 134, 729
Building construction.....	110, 976	103, 034	6, 527, 823	10, 377, 243	. 629	1, 286, 267
Electrification.....	334	293	16, 853	39, 959	. 422	24, 840
Forestry ³	17, 353	14, 660	705, 465	1, 768, 711	. 399	213, 933
Grade-crossing elimination ⁴	5, 322	4, 338	332, 901	534, 205	. 623	348, 428
Hydroelectric power plants ⁵	2, 236	2, 115	75, 600	324, 237	. 233	38, 898
Plant, crop, and livestock conservation ⁶	21, 713	20, 089	980, 631	2, 633, 731	. 372	124, 196
Professional, technical, and clerical.....	4, 961	4, 844	437, 504	649, 241	. 674	35, 144
Public roads ⁴	3, 484	2, 815	180, 988	308, 446	. 587	298, 492
Reclamation.....	40, 081	38, 899	2, 223, 446	4, 708, 259	. 472	1, 419, 104
River, harbor, and flood control.....	44, 975	39, 397	2, 223, 438	4, 006, 043	. 555	1, 018, 534
Streets and roads.....	22, 377	19, 230	998, 884	2, 129, 547	. 469	217, 534
Water and sewerage.....	955	867	21, 025	111, 093	. 189	2, 532
Miscellaneous.....	13, 243	12, 054	438, 470	1, 280, 804	. 342	79, 807

See footnotes at end of table.

TABLE 11.—*Employment and Pay Rolls on Projects Financed by The Works Program, June 1938—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				
Public Works Administration projects financed from Emergency Relief Appropriation Act funds of 1935, 1936, and 1937 ⁶						
All projects.....	² 93, 141	77, 450	\$7, 630, 319	9, 337, 127	\$0. 813	\$14, 104, 772
Building construction.....	60, 235	50, 441	5, 239, 787	5, 881, 032	. 891	9, 677, 239
Electrification.....	890	710	53, 562	79, 670	. 672	280, 562
Heavy engineering.....	5, 943	5, 053	589, 570	698, 479	. 844	1, 063, 730
Reclamation.....	1, 185	947	86, 554	118, 090	. 733	66, 140
River, harbor, and flood control.....	598	561	55, 757	87, 452	. 638	71, 237
Streets and roads.....	12, 453	9, 998	674, 322	1, 246, 022	. 541	1, 183, 801
Water and sewerage.....	11, 560	9, 529	908, 414	1, 244, 403	. 730	1, 570, 826
Miscellaneous.....	268	220	22, 353	31, 979	. 699	191, 228
Projects operated by Works Progress Administration ⁷						
All projects.....	⁸ 2,767, 125	-----	\$145, 943, 462	290, 711, 566	\$0. 502	(⁹)

¹ Unless otherwise noted data are for the month ending on the 15th.² Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.³ The data for the Bureau of Entomology and Plant Quarantine, under plant, crop, and livestock conservation, and the Bureau of Forest Service, under forestry, are for the calendar month.⁴ These data are for projects under the jurisdiction of the Bureau of Public Roads.⁵ These data are for projects under construction in Puerto Rico.⁶ Includes data for 90,748 employees working on non-Federal projects and 2,393 employees working on low-cost housing projects. These data are included in separate tables covering projects under the jurisdiction of the Public Works Administration.⁷ Data are for the calendar month. Not available by type of project.⁸ Represents number of names on pay roll for week ending June 25, 1938.⁹ Data on a monthly basis are not available.

Table 12 shows the 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 1938, inclusive. Similar data for Student Aid are shown from September 1935, the starting date, to June 1938, inclusive.

TABLE 12.—*Employment and Pay Rolls on National Youth Administration Projects Financed by The Works Program From Beginning of Program Through June 1938*¹

[Subject to revision]

Year and month	Number of persons employed	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Work projects					
January 1936 to June 1938, inclusive.....	-----	\$78,618,852	210,195,440	\$0.374	? \$7,316,288
January to December 1936.....	-----	28,883,589	75,827,790	.381	-----
January to December 1937.....	-----	32,601,360	87,092,351	.374	-----
January 1938.....	144,797	2,549,914	6,896,668	.370	-----
February 1938.....	151,406	2,667,226	7,288,377	.366	-----
March 1938.....	154,567	2,751,797	7,610,360	.362	-----
April 1938.....	158,082	2,760,533	7,673,809	.360	-----
May 1938.....	172,134	2,967,134	8,286,913	.358	-----
June 1938.....	202,184	3,437,299	9,519,163	.361	-----
Student Aid					
September 1935 to May 1938, inclusive.....	-----	\$67,281,828	226,454,452	\$0.297	(3)
September to December 1935.....	-----	6,363,503	19,612,976	.324	-----
January to December 1936.....	-----	25,888,559	85,424,610	.303	-----
January to December 1937 ⁴	-----	23,997,634	82,794,398	.290	-----
January 1938 ⁴	307,544	2,001,786	6,980,595	.287	-----
February 1938 ⁴	319,707	2,162,506	7,584,382	.285	-----
March 1938 ⁴	328,037	2,217,742	7,781,022	.285	-----
April 1938 ⁴	333,902	2,256,566	7,920,942	.285	-----
May 1938.....	326,644	2,393,532	8,355,521	.286	-----

¹ Data are for a calendar month.

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

³ No expenditures for materials on this type of project.

⁴ Revised.

CIVILIAN CONSERVATION CORPS

The Civilian Conservation Corps, created in April 1933, was further extended under the authority of the Emergency Relief Appropriation Act of 1935. During the fiscal year 1937 the Civilian Conservation Corps was continued from appropriations authorized by the First Deficiency Appropriation Act of 1936. Beginning with July 1, 1937, the Civilian Conservation Corps was continued for 3 years by an act of Congress. The Civilian Conservation Corps is usually regarded as a part of The Works Program, although it is now financed by a separate appropriation.

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 1938 are presented in table 13.

TABLE 13.—Employment and Pay Rolls in the Civilian Conservation Corps, May and June 1938 ¹

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	June	May	June	May
All groups.....	293, 859	306, 141	\$13, 506, 062	\$14, 237, 636
Enrolled personnel ²	250, 555	262, 494	7, 087, 136	8, 195, 731
Reserve officers.....	5, 069	5, 014	1, 316, 237	1, 302, 260
Nurses ³	275	288	29, 262	30, 002
Educational advisers ³	1, 547	1, 540	260, 026	255, 664
Supervisory and technical ³	36, 413	36, 805	4, 813, 401	4, 453, 889

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 3,514 enrollees and pay roll of \$82,923 outside continental United States; in May the corresponding figures were 3,549 enrollees and \$75,215.

³ Included in executive service, table 9.

CONSTRUCTION PROJECTS FINANCED BY RECONSTRUCTION FINANCE CORPORATION

Statistics of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in June are presented in table 14, by type of project.

TABLE 14.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, June 1938 ¹

[Subject to revision]

Type of project	Maximum number of wage earners ²	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects.....	2, 964	\$493, 122	555, 943	\$0. 887	\$775, 767
Building construction ³	171	16, 499	19, 411	. 850	26, 076
Water and sewerage.....	2, 706	468, 576	523, 016	. 896	742, 244
Miscellaneous.....	107	8, 047	13, 516	. 595	7, 447

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 97 employees, pay-roll disbursements of \$8,345, 6,643 man-hours worked, and material orders placed of \$20,224 on projects financed by RFC Mortgage Co.

CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

When a construction contract is awarded or force-account work is started by a department or agency of the Federal Government, the Bureau of Labor Statistics is immediately notified, on forms supplied by the Bureau, of the name and address of the contractor, the amount of the contract, and the type of work to be performed. Blanks are then mailed by the Bureau to the contractor or Government agency

doing the work. These reports are returned to the Bureau and show the number of men on pay rolls, the amounts disbursed for pay, the number of man-hours worked on the project, and the value of the different types of materials for which orders were placed during the month.

The Bureau has collected data concerning construction projects for which contracts have been awarded since July 1, 1934. The Bureau does not have statistics covering projects financed from regular Federal appropriations for which contracts were awarded previous to that date.

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during June are given in table 15, by type of project.

TABLE 15.—*Employment and Pay Rolls on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, June 1938*¹

[Subject to revision]

Type of project	Number of wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ²	Weekly average				
All projects.....	222,096	209,340	\$21,362,606	29,998,260	\$0.712	\$33,760,157
Building construction.....	20,727	16,846	1,863,001	2,000,846	.931	3,152,344
Electrification:						
Rural Electrification Administration projects ³	6,513	5,335	374,471	715,596	.523	2,797,825
Other than Rural Electrification Administration projects.....	187	114	8,950	11,969	.748	12,343
Forestry.....	143	138	7,566	17,843	.424	1,836
Heavy engineering.....	118	102	14,285	17,139	.833	12,591
Public roads ⁴	(6)	91,309	6,735,400	11,817,611	.570	11,225,667
Reclamation.....	15,227	14,442	1,908,639	2,310,011	.826	3,834,526
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	29,639	25,689	2,896,145	4,267,317	.670	2,871,568
Locks and dams.....	9,390	8,303	992,158	1,322,433	.750	1,835,519
Ship construction:						
Naval vessels.....	42,603	41,536	6,172,525	6,879,460	.897	5,917,019
Other than naval vessels.....	1,465	1,141	111,910	127,726	.876	1,390,875
Streets and roads.....	2,893	2,685	163,277	321,898	.523	508,288
Water and sewerage.....	301	247	19,436	31,648	.614	82,336
Miscellaneous.....	1,636	1,453	89,843	156,763	.573	122,420

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 total for all projects.

STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements in the construction and maintenance of roads financed wholly from State or local funds in June 1938, compared with May 1938, and June 1937, is presented in table 16.

TABLE 16.—*Employment and Pay Rolls on Construction and Maintenance of State Roads, June 1938, May 1938, and June 1937*¹

[Subject to revision]

Item	Number of employees ²			Pay-roll disbursements		
	June 1938	May 1938	June 1937	June 1938	May 1938	June 1937
Total.....	179, 867	174, 137	167, 774	\$12, 059, 910	\$11, 387, 365	\$11, 069, 510
New roads.....	19, 875	17, 674	19, 382	1, 445, 870	1, 242, 665	1, 331, 500
Maintenance.....	159, 992	156, 463	148, 392	10, 614, 040	10, 174, 700	9, 708, 010

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.

*Material Orders Placed*¹

The value of material orders placed on construction projects financed by Federal funds in the second quarter of 1938 is presented in table 17.

In the second quarter of 1938 on the Public Works Administration program orders were placed for materials valued at approximately \$51,218,000. Of this amount \$15,524,000 was expended for iron and steel products, \$5,750,000 for cement and concrete products, \$7,905,000 for machinery, and \$3,690,000 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 that have been or will be created in fabricating the materials used on the various programs. (See table 3.) The estimates include only the labor required in the fabrication of material in the form in which it is to be used. No estimate is made of the labor required in producing the raw materials or in transporting them to the point of manufacture. In manufacturing structural steel, for example, the only labor included is that occurring in the fabricating mills; no estimate is made for the labor created in mining, smelting, and transporting the ore; nor for the labor in the blast furnaces, the open-hearth furnaces, and the blooming mills.

The information concerning man-months of labor created in fabricating materials is obtained by sending a questionnaire to each firm receiving an award for materials to be financed from Federal or State funds. The manufacturer is requested to make an estimate of the number of man-hours created in his plant in manufacturing the materials specified in the contract. For materials purchased directly by contractors the Bureau estimates the man-months of labor created. This estimate is based upon the findings of the Census of Manufactures, 1935.

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

TABLE 17.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second Quarter of 1933*¹

[Subject to revision]

Type of material	Projects			
	Public Works Administration ²	Reconstruction Finance Corporation ³	Regular Federal appropriations	Federal construction under The Works Program
All materials.....	\$51,217,783	\$2,704,430	\$35,308,721	\$13,086,761
Textiles and their products.....	115,678		57,735	18,455
Awnings, tents, canvas, etc.....	2,275		16,089	1,460
Carpets and rugs.....	25,315		28	
Cordage and twine.....	2,952		18,961	2,038
Cotton goods.....	602		330	3,580
Felt goods.....	5,043		320	29
Jute goods.....	6,091		432	1,270
Linoleum.....	72,303		15,406	5,482
Sacks and bags.....	223		548	131
Upholstering materials, n. e. c.....				129
Waste.....	874		5,621	4,336
Forest products.....	3,689,945	29,964	4,081,757	1,115,657
Cork products.....	26,518		8,076	674
Lumber and timber products, n. e. c.....	2,404,108	23,581	3,683,012	924,138
Planing mill products.....	1,239,038	6,383	380,905	189,862
Window and door screens and weather strip.....	20,281		9,764	983
Chemicals and allied products.....	462,010	58,016	598,964	323,422
Ammunition and related products.....	8,096			
Chemicals, miscellaneous.....	8,701	12	4,346	7,671
Compressed and liquefied gases.....	12,175	16,940	18,339	9,165
Explosives.....	165,814	40,122	391,370	47,601
Paints and varnishes.....	267,224	942	184,909	258,985
Stone, clay, and glass products.....	13,766,716	240,612	20,898,157	2,855,245
Asbestos products, n. e. c.....	30,264		447	3,210
Brick, hollow tile, and other clay products.....	3,161,554	1,443	512,153	133,024
Cement.....	3,694,249	184,339	9,475,877	1,164,644
Concrete products.....	2,056,222	122	604,748	308,320
Crushed stone.....	585,823		3,458,091	479,518
Glass.....	194,200	2,585	155,336	22,470
Lime.....	40,308	50	4,488	2,978
Marble, granite, slate, and other stone products.....	1,375,122	513	1,139,632	107,498
Minerals and earths, ground or otherwise treated.....	149		949	2,505
Sand and gravel.....	1,583,430	49,064	5,226,332	514,214
Tiling, floor and wall, and terrazzo.....	446,567	1,838	120,651	48,832
Wall plaster, wallboard, and insulating board.....	598,828	658	198,553	68,032
Iron and steel and their products, not including machinery.....	15,523,573	503,520	13,849,487	3,228,308
Bolts, nuts, washers, etc.....	119,415	844	227,430	62,687
Cast-iron pipe and fittings.....	1,733,265	1,408	357,683	133,922
Doors, shutters, and window sash and frames, molding and trim (metal).....	978,877	646	823,283	77,787
Forgings, iron and steel.....	119,176		1,005,540	35,429
Hardware, miscellaneous.....	676,203	92,013	472,588	255,739
Heating and ventilating equipment.....	3,320,507	643	913,571	75,871
Nails and spikes.....	91,056	207	45,589	55,118
Rail fastenings, excluding spikes.....	9,242		438	153
Rails, steel.....	252,804		25,241	14
Springs, steel.....	146			
Steel works and rolling mill products, n. e. c.....	1,903,498	295,931	2,687,749	1,069,122
Stoves and ranges, other than electric.....	1,858		253	505
Structural and reinforcing steel.....	5,683,791	100,046	6,596,255	1,134,602
Tools, other than machine tools.....	29,359		24,957	137,743
Wire products, n. e. c.....	308,300	2,151	562,808	181,690
Wrought pipe.....	296,016	40	106,102	7,926

See footnotes at end of table.

TABLE 17.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second Quarter of 1938—Continued*

Type of material	Projects			
	Public Works Administration	Reconstruction Finance Corporation	Regular Federal appropriations	Federal construction under The Works Program
Nonferrous metals and their products.....	\$675, 115	\$1, 072	\$318, 401	\$99, 180
Aluminum manufactures.....	19, 263	591	62, 169	118
Copper products.....	101, 661	140	10, 387	653
Lead products.....	47, 028	-----	27, 299	185
Nonferrous-metal alloys and products, n. e. c.....	34, 920	294	128, 693	1, 885
Sheet-metal work.....	472, 009	47	89, 651	96, 250
Zinc products.....	234	-----	202	89
Machinery, not including transportation equipment.....	7, 904, 720	1, 211, 958	29, 407, 622	2, 365, 733
Electrical machinery, apparatus, and supplies.....	3, 011, 598	78, 065	8, 480, 780	369, 378
Elevators and elevator equipment.....	603, 589	894	519, 496	7, 905
Engines, turbines, tractors, and waterwheels.....	600, 668	554	5, 840, 695	235, 065
Foundry and machine-shop products, n. e. c.....	3, 008, 865	1, 130, 638	12, 590, 341	1, 443, 792
Machine tools.....	88, 677	478	474, 199	51, 664
Meters (gas, water, etc.) and gas generators.....	36, 817	-----	80, 406	51
Pumps and pumping equipment.....	500, 596	1, 329	1, 405, 719	256, 954
Refrigerators and refrigerating and ice-making apparatus.....	53, 910	-----	15, 986	1, 024
Transportation equipment—air, land, and water.....	53, 608	-----	83, 774	109, 301
Boats, steel and wooden (small).....	875	-----	7, 223	1, 487
Carriages and wagons.....	-----	-----	1, 220	1, 279
Locomotives, steam.....	-----	-----	23, 207	-----
Motor vehicles, passenger.....	7, 017	-----	18, 605	9, 845
Motor vehicles, trucks.....	45, 716	-----	30, 419	96, 690
Railway cars, freight.....	-----	-----	5, 000	-----
Miscellaneous.....	9, 026, 418	159, 279	16, 010, 824	2, 971, 460
Belting, miscellaneous.....	451	-----	775	2, 167
Coal.....	19, 760	-----	141, 761	12, 965
Creosote.....	60	-----	79	2, 939
Electric wiring and fixtures.....	2, 201, 294	6, 695	4, 669, 060	317, 897
Furniture, including store and office fixtures.....	789, 802	-----	183, 684	57, 962
Instruments, professional and scientific.....	12, 855	-----	42, 351	1, 336
Mattresses and bedsprings.....	8, 153	-----	-----	-----
Models and patterns.....	3, 169	-----	258	-----
Paper products.....	5, 581	-----	4, 155	4, 653
Paving materials and mixtures, n. e. c.....	469, 850	-----	1, 353, 383	237, 141
Petroleum products.....	842, 162	21, 183	3, 752, 553	768, 923
Photographic apparatus and materials.....	50, 338	-----	16, 134	3, 052
Plumbing supplies, n. e. c.....	2, 074, 755	14, 825	505, 809	268, 293
Radio apparatus and supplies.....	5, 000	-----	575	-----
Roofing materials, n. e. c.....	521, 532	1, 223	96, 399	93, 315
Rubber goods.....	52, 581	33, 390	35, 251	24, 281
Steam and other packing, pipe and boiler covering, and gaskets.....	116, 959	494	40, 388	2, 171
Theatrical scenery and stage equipment.....	31, 802	-----	-----	-----
Window shades and fixtures.....	36, 230	-----	3, 072	3, 455
Other materials.....	1, 790, 094	81, 409	5, 165, 137	1, 170, 910

¹ This table includes certain items which are not actually construction materials—i. e., fuel, transportation equipment, tools, furniture, etc. Data for projects operated by Works Progress Administration were not available at the time this report was prepared. For a summary of data for the first quarter of 1938, including information on projects operated by Works Progress Administration, see table 18.

² Includes material orders placed on Public Works Administration projects financed by the Emergency Relief Appropriation Acts of 1935, 1936, and 1937.

³ Includes projects financed by RFC Mortgage Co.

Table 18 shows the value of material orders placed on construction projects financed by Federal funds during the first quarter of 1938, by type of project.

TABLE 18.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1938*¹

[Subject to revision]

Type of material	Total	Projects				
		Public Works Administration ²	Reconstruction Finance Corporation ³	Regular Federal	Federal construction under The Works Program	Operated by Works Progress Administration
All materials.....	\$198,775,155	\$41,728,099	\$2,786,893	\$62,827,761	\$10,343,751	\$81,088,651
Textiles and their products.....	3,760,779	132,317	172	44,444	14,408	3,569,438
Forest products.....	18,019,123	3,679,279	62,961	3,230,869	735,160	10,310,854
Chemicals and allied products.....	4,255,945	474,024	60,201	476,820	252,001	2,992,299
Paints and varnishes.....	2,316,015	223,801	2,405	164,394	163,539	1,761,876
Other chemicals.....	1,939,930	250,823	57,796	312,426	88,462	1,230,423
Stone, clay, and glass products.....	54,808,040	9,608,631	533,129	13,910,505	3,587,708	27,168,067
Brick, hollow tile, and other clay products.....	6,685,216	2,046,376	10,007	448,412	76,160	4,104,261
Cement.....	17,979,776	2,296,576	429,019	6,194,296	2,613,490	6,446,395
Concrete products.....	5,939,919	1,559,438	256	387,286	233,415	3,759,524
Crushed stone.....	6,268,592	362,134	441	2,066,672	181,817	3,657,528
Sand and gravel.....	10,803,380	1,180,992	77,129	3,402,567	371,755	5,770,937
Other stone, clay, and glass products.....	7,131,157	2,163,115	16,277	1,411,272	111,071	3,429,422
Iron and steel and their products, not including machinery.....	42,812,060	13,062,393	345,612	10,860,793	2,237,728	16,305,534
Cast-iron pipe and fittings.....	6,525,555	1,211,015	1,573	196,287	112,977	5,003,703
Heating and ventilating equipment.....	3,514,243	2,145,275	9,001	776,360	100,157	783,450
Structural and reinforcing steel.....	16,146,118	5,450,521	54,748	5,599,316	1,282,586	3,758,947
Tools, other than machine tools.....	2,392,068	23,720	3,431	31,815	103,384	2,229,748
Other products of iron and steel.....	13,934,046	4,231,862	276,859	4,257,015	638,624	4,529,686
Nonferrous metals and their products.....	1,383,011	664,712	6,433	272,981	57,665	381,220
Machinery, not including transportation equipment.....	33,976,664	6,604,988	1,514,261	21,519,657	1,205,940	3,041,818
Electrical machinery, apparatus, and supplies.....	8,531,126	1,468,081	126,637	5,257,769	183,564	1,495,075
Foundry and machine shop products, n. e. c.....	17,556,673	3,036,559	1,351,183	11,098,111	752,394	1,318,426
Other machinery.....	7,888,865	2,100,348	36,441	5,163,777	359,982	228,317
Transportation equipment, air, land, and water.....	393,460	34,400	-----	36,939	33,098	288,963
Motor vehicles, trucks.....	366,005	27,184	-----	22,874	26,984	288,963
Other transportation equipment.....	27,455	7,276	-----	14,065	6,114	-----
Miscellaneous.....	39,366,073	7,466,695	264,124	12,474,753	2,130,043	17,030,458
Coal.....	594,251	63,431	-----	70,607	13,509	446,704
Furniture, including store and office fixtures.....	2,257,576	1,248,149	-----	120,556	34,260	884,611
Paving materials and mixtures.....	5,681,473	226,929	582	778,171	84,673	4,591,118
Petroleum products.....	6,496,693	716,891	50,168	2,758,435	754,990	2,216,209
Plumbing supplies, n. e. c.....	3,429,375	1,365,793	23,449	623,671	177,581	1,238,878
Rubber goods.....	369,330	45,534	24,476	19,285	11,622	268,413
Other materials.....	20,507,375	3,799,968	165,449	8,104,028	1,053,405	7,384,525

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

² Includes material orders placed on Public Works Administration projects financed by the Emergency Relief Appropriation Acts of 1935, 1936, and 1937.

³ Includes projects financed by RFC Mortgage Co.

The value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, by type of material, for the second quarter of 1938, the first quarter of 1938, and the second quarter of 1937 is shown in table 19.

TABLE 19.—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 1938	First quarter of 1938	Second quarter of 1937
All materials.....	\$115,360	\$180,125	\$297,805
Computing machines.....	2,382	401	8,315
Furniture.....	14,404	2,649	14,641
Office supplies.....	21,063	10,877	41,104
Stationery.....	2,486	2,219	11,709
Typewriters.....	1,063	562	1,447
Other office machines.....	4,368	1,431	4,696
Other materials.....	34,224	144,357	145,396
Rental of machinery and equipment.....	34,770	17,639	70,497

Rentals and services on projects operated by the Works Progress Administration for the first quarter of 1938, the fourth quarter of 1937, and the first quarter of 1937 are shown in table 20, by type of rental and service.

TABLE 20.—Rentals and Services on Projects Operated by Works Progress Administration

[Subject to revision]

Type of rental and service	First quarter of 1938 ¹	Fourth quarter of 1937 ²	First quarter of 1937 ³
All rentals and services.....	\$53,147,609	\$44,151,434	\$46,150,914
Motor vehicles.....	22,831,410	19,999,770	23,476,449
Teams and wagons.....	935,965	1,149,911	2,202,463
Paving, road building, and construction equipment.....	18,650,797	15,649,200	13,532,815
Other equipment (including office equipment).....	1,819,063	764,896	685,243
Space rentals and services.....	3,043,525	2,658,342	2,043,446
Other services (including utilities).....	5,866,939	3,929,405	4,210,498

¹ Quarterly period ended Mar. 31, 1938.

² Quarterly period ended Dec. 31, 1937.

³ Quarterly period ended Mar. 31, 1937.

Table 21 shows rentals and services on work projects of the National Youth Administration for the fourth quarter of 1937 and the first quarter of 1938.

TABLE 21.—Rentals and Services on Work Projects of National Youth Administration

[Subject to revision]

Type of rental and service	First quarter of 1938 ¹	Fourth quarter of 1937 ²
All rentals and services.....	\$730,346	\$683,127
Motor vehicles.....	140,502	84,346
Teams and wagons.....	9,769	5,104
Paving, road building, and construction equipment.....	47,509	56,201
Other equipment (including office equipment).....	104,607	91,934
Space rentals and services.....	315,476	330,510
Other services (including utilities).....	112,483	115,032

¹ Quarterly period ended Mar. 31, 1938.

² Quarterly period ended Dec. 31, 1937.

In connection with the administration of the public contracts law 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 law in September 1936.

Table 22 shows the value of public contracts awarded under the law for materials during the second quarter of 1938, the first quarter of 1938, and the second quarter of 1937.

TABLE 22.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements To Comply With the Public Contracts Law, by Type of Material

[Subject to revision]

Type of materials	Value of contracts awarded		
	Second quarter 1938 ¹	First quarter 1938 ²	Second quarter 1937 ³
All materials.....	\$82,591,962	\$59,481,063	\$90,852,281
Food and kindred products.....	2,626,919	1,440,281	3,183,996
Canned fruits and vegetables.....	317,174	70,646	421,974
Cereal preparations.....	15,356	15,483	11,682
Coffee and tea.....	513,688	140,322	383,056
Condensed and evaporated milk.....	708,005	117,140	619,898
Feeds, prepared, for animals and fowls.....	10,450	279,675	219,420
Flour and other grain mill products.....	172,200	177,915	291,746
Meat-packing products.....	308,235	104,637	189,648
Sugar.....	185,026	209,154	385,122
Miscellaneous subsistence stores and supplies.....	366,785	325,309	661,450
Textiles and their products.....	9,547,713	5,930,349	10,953,105
Awnings, tents, sails, canvas bags, and covers.....	187,703	175,821	195,676
Clothing (overcoats, suits, trousers, etc.).....	1,499,804	359,103	304,547
Clothing, manufacture only ⁴	150,554	655,585	278,935
Cordage and twine, including thread.....	413,808	39,785	501,925
Cotton gloves.....	155,800		267,403
Cotton goods (drills, prints, sheeting, etc.).....	2,531,941	1,063,160	3,982,293
Furnishing goods, men's, n. e. c.....	1,071,864	355,397	404,297
Housefurnishing goods (pillow cases, sheets, etc.).....	253,434	120,068	250,822
Knit goods (hosiery, underwear, etc.).....	1,651,065	962,271	2,698,227
Woolen goods (flannels, suiting, etc.).....	460,312	962,099	756,302
Work clothing.....	676,204	602,334	733,165
Miscellaneous textile products.....	490,224	634,726	576,613
Forest products.....	600,546	558,012	2,508,737
Cork and cork products.....		74,525	30,658
Furniture.....	145,485	30,617	1,236,910
Lumber and timber products, n. e. c.....	203,763	322,010	701,962
Planing-mill products.....			161,226
Treated lumber and timber.....	126,114	52,431	224,343
Miscellaneous forest products.....	125,184	78,429	153,638
Chemicals and allied products.....	2,717,158	1,613,079	5,904,144
Ammunition and related products.....	444,634	407,664	4,177,458
Compressed and liquefied gases.....	172,177	13,673	234,503
Explosives.....	247,448	197,650	418,529
Linsed oil.....	11,453	77,604	62,577
Paints and varnishes.....	94,016	193,751	298,364
Soap and soap chips.....	137,668	173,347	69,441
Miscellaneous chemicals.....	1,609,822	519,390	622,272
Products of asphalt, coal, and petroleum.....	14,463,201	9,438,450	23,260,749
Asphalt, oil, tar, and mixtures.....	1,428,356	1,591,850	3,837,954
Coal and coke.....	937,907	1,153,063	635,690

See footnote at end of table.

TABLE 22.—*Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements To Comply With the Public Contracts Law, by Type of Material—Continued*

Type of materials	Value of contracts awarded		
	Second quarter 1933	First quarter 1938	Second quarter 1937
Products of asphalt, coal, and petroleum—Continued.			
Fuel oil.....	\$7, 248, 151	\$1, 159, 252	\$8, 856, 247
Gasoline.....	2, 214, 272	5, 339, 192	7, 773, 695
Lubricating oils and greases.....	1, 855, 117		1, 735, 211
Miscellaneous coal and petroleum products.....	729, 398	195, 093	421, 952
Leather and its manufactures.....	2, 174, 911	1, 314, 679	1, 614, 883
Boots and shoes.....	1, 613, 798	1, 234, 712	1, 267, 533
Boots and shoe cut stock.....	128, 075	20, 603	
Gloves.....	24, 797		185, 798
Shoe upper leather.....	259, 050	59, 355	
Miscellaneous leather goods.....	148, 291		161, 547
Stone, clay and glass products.....	9, 644, 129	6, 198, 085	4, 514, 618
Brick.....	92, 365	192, 910	101, 189
Cement.....	3, 620, 683	3, 075, 044	2, 260, 425
Concrete pipe.....	84, 192	178, 648	109, 384
Concrete, ready mixed.....	825, 454	411, 570	324, 530
Crushed stone.....	1, 922, 615	1, 065, 795	518, 384
Glass.....	38, 016	10, 217	51, 557
Granite and marble.....	309, 933	246, 247	164, 640
Riprap stone.....		0, 936	17, 250
Sand and gravel.....	2, 085, 032	524, 054	567, 384
Soil, black earth.....	26, 400	76, 607	85, 840
Terra cotta.....	33, 406		16, 866
Tile, clay, including drain.....			10, 801
Vitrified clay and terra cotta pipe.....		101, 417	22, 778
Miscellaneous stone, clay, and glass products.....	696, 043	305, 580	203, 590
Iron and steel and their products, not including machinery.....	8, 800, 568	6, 264, 458	5, 337, 139
Bolts, nuts, rivets, washers, etc.....	23, 899	142, 276	47, 168
Cast-iron pipe and fittings.....	165, 171	46, 069	65, 720
Fencing materials.....		63, 821	38, 382
Forgings, iron and steel.....	626, 327	535, 716	69, 740
Hardware, miscellaneous.....	25, 200	57, 752	
Metal doors, sash, and frames.....		67, 258	23, 494
Metal furniture.....	108, 532	1, 671, 465	677, 208
Metal shingles and roofing.....			91, 816
Pipe and fittings, n. e. c.....	16, 290	17, 068	76, 639
Plumbing fixtures and supplies.....	17, 901	10, 000	77, 478
Rails, steel.....	505, 220		
Railway tie plates.....			10, 320
Reinforcing steel.....	742, 005	633, 768	654, 065
Steel pipe and fittings.....	206, 601	279, 400	269, 239
Steel sheets, plates, shapes, and strips.....	196, 377	526, 416	170, 519
Stoves and ranges, other than electric.....	217, 899	36, 854	14, 925
Structural steel, fabricated, and sheet-steel piling.....	2, 255, 125	729, 937	593, 413
Tools, other than machine tools.....	202, 446	103, 119	26, 868
Wire products.....	158, 099	50, 108	201, 307
Miscellaneous iron and steel products.....	3, 333, 506	1, 298, 431	2, 228, 838
Nonferrous metals and their alloys.....	1, 516, 356	3, 624, 066	1, 657, 448
Aluminum manufactures.....	197, 195	552, 006	611, 983
Brass products.....	128, 169	453, 472	240, 062
Bronze products.....		10, 612	72, 747
Copper products.....	13, 748	335, 208	211, 215
Fixtures, gas and electric.....	28, 183	77, 142	12, 417
Lead products.....		70, 565	
Magnesium.....	14, 299		
Nickel.....	12, 039	71, 756	122, 650
Plated ware.....		11, 992	28, 047
Sheet-metal work.....	871, 957	153, 819	119, 151
Tin.....	38, 600	891, 356	94, 204
Zinc.....		13, 925	
Miscellaneous nonferrous metals and alloys.....	212, 116	991, 213	144, 972

TABLE 22.—*Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements To Comply With the Public Contracts Law, by Type of Material—Continued*

Type of materials	Value of contracts awarded		
	Second quarter 1938	First quarter 1938	Second quarter 1937
Machinery, not including transportation equipment and electrical equipment	\$4,003,427	\$4,546,991	\$7,567,215
Air-conditioning equipment	34,078	51,732	—
Engines, turbines, tractors, and parts	742,468	1,950,040	1,989,610
Filter and purification equipment	13,382	—	23,492
Laundry machinery and equipment	36,081	23,034	35,613
Machine tools	475,787	562,019	360,151
Office equipment	59,289	—	45,837
Power shovels and draglines	252,869	167,001	362,760
Printing and publishing machinery	240,297	—	—
Pumps and pumping equipment	155,057	479,640	304,847
Refrigerators and refrigerating and ice-making machinery	43,112	115,403	190,336
Road machinery	50,077	—	197,927
Windlasses, winches, and capstans	313,351	91,173	219,685
Miscellaneous machinery and parts	1,587,629	1,106,949	3,836,927
Electrical machinery, apparatus, and supplies	3,905,507	6,754,036	6,051,051
Batteries	41,075	20,801	—
Circuit breakers and switches	623,897	51,785	199,084
Electric cable, wire, and other conductors	962,263	1,106,019	1,358,895
Generators and spare parts	558,657	2,581,027	301,021
Heaters and ranges	28,057	—	65,705
Lamps, incandescent, and X-ray tubes	—	—	57,829
Motors	18,179	27,530	57,813
Radio equipment and supplies	449,899	167,203	1,146,152
Spark plugs	81,767	174,072	165,630
Starters	—	94,129	56,289
Switchboards, relay and control equipment	200,138	120,324	187,907
Telephone and telegraph apparatus	208,213	125,997	78,080
Transformers	395,290	238,307	131,827
Welding equipment	71,314	—	35,594
Miscellaneous electrical machinery, apparatus, and supplies	266,758	2,046,242	2,206,222
Transportation equipment	11,359,683	8,741,995	10,759,623
Aircraft	6,890,371	5,392,515	5,018,570
Aircraft parts and equipment	2,354,983	1,734,000	3,316,289
Boats and boat equipment	243,419	23,469	—
Motor vehicles, passenger	123,088	197,993	627,642
Motor vehicles, trucks	1,290,525	1,101,879	1,729,793
Miscellaneous transportation equipment	456,697	291,539	67,329
Miscellaneous	11,231,834	3,056,591	13,539,573
Brooms, brushes, bristles, etc.	90,549	—	102,919
Dental goods and equipment	34,117	—	39,214
Instruments, professional and scientific	581,396	421,704	1,737,032
Lithium	62,765	—	67,236
Paper and allied products	4,642,874	295,818	5,705,514
Photographic apparatus and materials	457,125	262,114	368,520
Printing, publishing, and subscriptions	202,721	174,488	200,060
Rubber products	232,259	138,745	348,894
Slag	766,136	—	22,623
Steam and other packing, pipe and boiler covering	429,012	41,409	415,358
Surgical and orthopedic supplies and appliances	502,692	154,368	571,967
Tobacco manufactures	27,517	—	264,260
Other materials	1,857,728	501,123	1,329,142
Rentals, services, etc. ¹	1,361,943	1,066,822	2,369,894

¹ For period ending June 30, 1938.

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

³ For period ending June 30, 1937. Revised.

⁴ Labor only. Materials furnished by U. S. Government.

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

The value of public contracts awarded for materials by Federal agencies totaled \$82,592,000 during the second quarter of 1938. Of the contracts awarded in the second quarter of 1938, \$14,463,000 was for asphalt, coal, and petroleum; \$11,360,000, for transportation equipment; \$9,644,000, for stone, clay, and glass products; \$9,548,000, for textiles and their products; and \$8,800,000, for iron and steel and their products, not including machinery.

