

S. Docs.
Ref. *Serial No. R. 604*

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EMPLOYMENT AND PAY ROLLS

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JUNE 1937

UNITED STATES GOVERNMENT PRINTING OFFICE WASHINGTON • 1937

CONTENTS

	Page
Summary of employment reports for June 1937:	
Industrial and business employment.....	1
Public employment.....	5
Detailed reports for June 1937:	
Industrial and business employment.....	8
Public employment.....	19

Tables

TABLE 1.—All manufacturing industries combined and nonmanufacturing industries—employment, pay rolls, and weekly earnings, June 1937.....	5
TABLE 2.—Federal employment and pay rolls—summary, May and June 1937.....	7
TABLE 3.—Value of material orders placed on projects financed wholly or partially from Federal funds and number of man-months of labor created in final fabrication of materials purchased, second quarter of 1937, first quarter of 1937, and second quarter of 1936.....	8
TABLE 4.—Manufacturing and nonmanufacturing industries—employment, pay rolls, hours, and earnings, June 1937.....	9
TABLE 5.—All manufacturing industries combined and the durable- and nondurable-goods groups—indexes of employment and pay rolls, January 1936 to June 1937.....	14
TABLE 6.—Selected nonmanufacturing industries—indexes of employment and pay rolls, January 1936 to June 1937.....	16
TABLE 7.—Geographic divisions and States—comparison of employment and pay rolls in identical establishments in May and June 1937.....	18
TABLE 8.—Principal cities—comparison of employment and pay rolls in identical establishments in May and June 1937.....	19
TABLE 9.—Executive service of the Federal Government—employment in June 1937, May 1937, and June 1936.....	21
TABLE 10.—Executive service of the Federal Government—monthly record of employment from June 1936 to June 1937, inclusive.....	21
TABLE 11.—Construction projects financed by Public Works Administration funds—employment, pay rolls, and man-hours worked, June 1937, by type of project.....	22
TABLE 12.—Construction projects financed by Public Works Administration funds—summary of employment, pay rolls, and man-hours worked, from July 1933 to June 1937, inclusive.....	24
TABLE 13.—Projects financed by The Works Program—employment, pay rolls, and man-hours worked, June 1937, by type of project.....	24
TABLE 14.—National Youth Administration work projects and student-aid projects financed by The Works Program—employment, pay rolls, and man-hours worked, June 1937.....	25

IV

	Page
TABLE 15.—Projects financed by The Works Program—employment, pay rolls, and man-hours worked from the beginning of the program in July 1935 to June 1937, inclusive.....	26
TABLE 16.—National Youth Administration work projects and student-aid projects financed by The Works Program—employment, pay rolls, and man-hours worked from the beginning of the projects to June 1937, inclusive.....	27
TABLE 17.—Civilian Conservation Corps—employment and pay rolls, May and June 1937.....	28
TABLE 18.—Civilian Conservation Corps—employment and pay rolls from June 1936 to June 1937, inclusive.....	28
TABLE 19.—Construction projects financed by the Reconstruction Finance Corporation—employment, pay rolls, and man-hours worked, June 1937, by type of project.....	29
TABLE 20.—Construction projects financed by the Reconstruction Finance Corporation—summary of employment, pay rolls, and man-hours worked, from June 1936 to June 1937, inclusive.....	29
TABLE 21.—Construction projects financed from regular governmental appropriations—employment, pay rolls, and man-hours worked, June 1937, by type of project.....	30
TABLE 22.—Construction projects financed from regular governmental appropriations—employment, pay rolls, and man-hours worked, from June 1936 to June 1937, inclusive.....	30
TABLE 23.—Construction and maintenance of State roads—employment and pay-roll disbursements, from June 1936 to June 1937, inclusive.....	31
TABLE 24.—Value of material orders placed on construction projects financed by Federal funds, second quarter of 1937, by type of material.....	32
TABLE 25.—Value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, second quarter of 1937, first quarter of 1937, and second quarter of 1936.....	35
TABLE 26.—Rentals and services on projects operated by the Works Progress Administration from July 1935 to December 1936, first quarter of 1937, and second quarter of 1937.....	35
TABLE 27.—Value of public contracts awarded for materials from September 28, 1936, through December 1936, first quarter of 1937, and second quarter of 1937.....	36

Employment and Pay Rolls

SUMMARY OF REPORTS FOR JUNE 1937

ON THE basis of reports supplied by approximately 135,000 establishments, it is estimated that 56,000 fewer workers were employed in June than in May and weekly pay rolls decreased \$2,000,000 in the combined manufacturing and nonmanufacturing industries surveyed monthly by the United States Bureau of Labor Statistics.

Between June 1936 and June 1937, however, it is estimated that nearly 1,400,000 workers have been returned to employment in these industries and that weekly pay rolls have increased more than \$67,000,000.

Class I railroads again reported an increase in employment over the month interval. According to a preliminary tabulation by the Interstate Commerce Commission, they had 1,158,918 employees (exclusive of executives, officials, and staff assistants) on their pay rolls in June as compared with 1,141,361 in May.

Employment in the executive, judicial, legislative, and military services of the Federal Government in June was somewhat higher than in the preceding month. An increase was reported in the number of workers employed on construction projects financed from regular governmental appropriations, due largely to a seasonal increase in employment on road projects. Employment gains were also reported on Federal projects under The Works Program. Employment declined from May to June on projects operated by the Works Progress Administration, Public Works Administration projects, and construction projects financed by the Reconstruction Finance Corporation. Employment on emergency conservation work decreased substantially, as is usual at the end of an enrollment period.

Industrial and Business Employment

Factory employment declined 1.2 percent from May to June and pay rolls fell 2.2 percent. Labor disputes in the blast furnace, steel works, and rolling mill industry accounted partially for these decreases. These percentages indicate that there were 102,000 fewer workers on factory pay rolls in June than in May and that their weekly wage disbursements had been reduced nearly \$4,600,000. Despite the adverse influence of strikes, the June 1937 factory figures compare

favorably with the June figures of other years, as employment decreases between May and June have been shown in 9 of the preceding 18 years for which data are available and pay-roll decreases have been reported in 10 of these years.

With the exception of the 3 preceding months, the June factory employment and pay-roll indexes (101.1 and 102.9, respectively) stand above the levels recorded in any month since November 1929. A comparison with June of last year shows a gain of 12.2 percent, or nearly 920,000 workers, over the year interval and an increase of 26.9 percent, or \$44,300,000, in weekly wages.

Of the 89 manufacturing industries surveyed, 39 reported gains in employment over the month interval and the same number showed increases in pay rolls. A tabulation of wage-rate increases reported by cooperating establishments showed 197,000 factory wage earners receiving wage-rate increases between May 15 and June 15, the cumulative total since October of last year amounting to nearly 4,250,000. This number includes some duplication of workers, as more than one wage-rate increase has been reported by some firms over this interval.

Among the industries showing seasonal gains in employment were radios and phonographs (30.4 percent), canning and preserving (23.2 percent), ice cream (10.4 percent), beverages (8.2 percent), butter (7.3 percent), and beet sugar (5.7 percent). Employment in plants manufacturing explosives rose 4.5 percent, and gains ranging from 2.0 to 4.1 percent were reported in the aluminum, tin-can and other tinware, structural metalwork, machine-tool, and sawmill industries. Gains of 1.9 percent each were shown in the rayon and allied products, and furniture industries; gains of 1.8 percent each were reported in the cash-register and stove industries; and increases of 1.7 percent each were shown in the electrical-machinery and cement industries. Employment in petroleum refining rose 1.6 percent; in baking, 1.5 percent; in smelting and refining, 1.5 percent; in locomotives, 1.2 percent; and in fur-felt hats, 1.2 percent. Among the remaining industries reporting increases were steam railroad repair shops (0.9 percent), foundries and machine shops (0.8 percent), chemicals (0.7 percent), silk and rayon goods (0.5 percent), and paper and pulp (0.3 percent).

The seasonal decrease of 27.7 percent in employment in the fertilizer industry was the most pronounced decline shown. Other industries reporting seasonal recessions were women's clothing (10.0 percent), millinery (8.5 percent), cottonseed oil-cake-meal (8.0 percent), dyeing and finishing textiles (7.6 percent), men's furnishings (3.8 percent), and confectionery (3.3 percent). Largely because of labor disputes, employment in the bolt, nut, washer, and rivet industry decreased 12.7 percent, and in the blast furnace, steel works, and rolling mill industry, 12.9 percent. The latter figure is partially

estimated and will be revised when June employment reports, which could not be supplied for a number of steel plants affected by the strikes, have been received.

Rubber boot and shoe and men's clothing plants reported declines of 5.0 percent and 4.4 percent, respectively, in number of workers; and sugar refining, shipbuilding, cutlery, knit goods, and rubber goods other than footwear and tire establishments reported decreases ranging from 4.3 percent to 3.0 percent. Industries of major importance in which smaller decreases in employment were shown were cotton goods (2.4 percent), woolen and worsted goods (2.2 percent), book and job printing (1.9 percent), automobiles (1.5 percent), and boots and shoes (1.4 percent).

The combined 16 nonmanufacturing industries showed a net gain of approximately 46,000 workers over the month interval. The largest gain in number of employees (22,000) was in retail-trade establishments, increases being general in the various groups of retail businesses surveyed. The important group of general merchandising establishments (department, variety, and general merchandising stores and mail-order houses) showed a gain of 0.7 percent in employment over the month interval. A seasonal expansion of 2.4 percent in employment was reported by coal-wood-ice dealers, and drug stores reported a gain of 1.9 percent. Other lines of retail trade reporting employment gains from May to June were jewelry (1.1 percent), automotive (1.0 percent), apparel (0.7 percent) and food (0.3 percent). Furniture stores reported a decline of 0.1 percent, and dealers in lumber and building materials also reported 0.1 percent fewer employees.

Seasonal gains in the laundry and dyeing and cleaning industries resulted in an increase of more than 9,000 workers, and the net gain in the 5 industries comprising the mining group exceeded 5,000. Employment in the private building construction industry showed a further gain in June (3.1 percent), and electric light and power and manufactured gas companies reported a gain of 1.8 percent. The decreases in the nonmanufacturing industries for which declines were reported over the month interval were 3.0 percent in brokerage, 0.8 percent in year-round hotels, and 0.6 percent in wholesale trade. Twenty of the thirty-three lines of wholesale trade surveyed reported employment gains, among them being automotive products, food products, general merchandise, groceries and food specialties, hardware, and machinery, equipment, and supplies. The farm-products group and the assemblers and country-buyers group showed sharp seasonal recessions (18.5 and 19.1 percent, respectively).

The increases in employment in a number of the nonmanufacturing industries raised the June levels to the maximum registered in recent years. Employment in the metalliferous-mining industry reached the

highest level since August 1930. In the electric light and power and manufactured gas industry, employment was above that of any month since July 1931. Employment in dyeing and cleaning establishments was higher than that of any month over the preceding 6 years for which records are available. In the general merchandising group of retail stores (department, variety, and general merchandising stores and mail-order houses) the June 1937 level was above the June levels of 1929 and succeeding years.

Employment on class I railroads increased again, according to preliminary reports of the Interstate Commerce Commission. The number of railroad workers exclusive of executives, officials, and staff assistants was 1,158,918 in June as against 1,141,361 in May, a gain of 17,557 or 1.5 percent. Pay-roll figures for June were not available at the time this report was prepared. In May, however, total wage disbursements to this group of workers were \$160,285,126, in comparison with \$158,087,384 in April, a gain of 1.4 percent over the month interval.

Hours and earnings.—Based on data supplied by cooperating manufacturing establishments for full- and part-time workers combined, average hours worked per week by factory wage earners were 39.2 in June and 39.8 in May, a decrease of 1.4 percent over the month interval. Hourly earnings, however, were 0.5 percent higher in June than in May, the average earnings in June being 65.3 cents as against 64.9 in May. These changes were reflected in the average weekly wages, which were \$26 in June or 1.0 percent lower than in the preceding month.

Of the 14 nonmanufacturing industries for which man-hour data are available 10 reported increases in average hours worked per week and a like number showed higher average hourly earnings. Average weekly earnings were higher for 13 of the 16 nonmanufacturing industries surveyed.

Table 1 presents a summary of employment and pay-roll indexes and average weekly earnings in June 1937 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 certain items cannot be computed. The indexes of employment and pay rolls for the manufacturing industries are based on the 3-year average, 1923-25, as 100, and for the nonmanufacturing industries on the 12-month average of 1929 as 100. The information for the manufacturing industries, mining, laundries, dyeing and cleaning, and building construction covers wage earners only. For crude-petroleum producing it covers wage earners and clerical field force. The figures for public utilities, trade, hotels, brokerage, and insurance cover all employees, including executives.

TABLE 1.—*Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, June 1937*

Industry	Employment			Pay rolls			Average weekly earnings		
	Index June 1937	Percentage change from—		Index June 1937	Percentage change from—		Average in June 1937	Percentage change from—	
		May 1937	June 1936		May 1937	June 1936		May 1937	June 1936
All manufacturing industries combined ¹	(1923-25=100) 101.1	-1.2	+12.2	(1923-25=100) 102.9	-2.2	+26.9	\$26.00	-1.0	+13.1
Class I steam railroads ²	65.6	+1.5	+8.8	(3)	(3)	(3)	(3)	(3)	(3)
Coal mining:	(1929=100)			(1929=100)					
Anthracite.....	51.1	+2	-2	50.9	+14.7	+21.4	28.69	+14.5	+21.6
Bituminous.....	77.9	+2	+2.9	71.2	+5.0	+15.7	23.19	+4.9	+12.5
Metalliferous mining.....	78.9	+9	+27.5	77.2	-3.1	+60.1	31.18	-3.9	+25.6
Quarrying and nonmetallie mining.....	55.4	+9	+3.6	52.6	+2.5	+19.6	23.84	+1.6	+15.4
Crude-petroleum producing.....	79.1	+3.2	+7.4	70.5	+3.8	+19.7	33.37	+6	+11.4
Public utilities:									
Telephone and telegraph.....	78.5	+1.0	+9.0	88.6	-1.0	+14.5	29.95	-2.0	+5.1
Electric light and power and manufactured gas.....	96.0	+1.8	+6.2	100.1	+2.6	+13.6	33.57	+8	+6.9
Electric-railroad and motorbus operation and maintenance..	73.3	+1	+2.2	71.1	+1.5	+6.5	31.85	+1.4	+4.2
Trade:									
Wholesale.....	90.3	-6	+6.7	76.3	+2	+11.6	30.56	+8	+4.5
Retail.....	90.5	+6	+5.8	74.4	+1.1	+12.0	22.06	+5	+5.8
General merchandising.....	102.9	+7	+6.7	92.5	+1.1	+13.7	18.74	+4	+6.6
Other than general merchandising.....	87.2	+6	+5.5	70.6	+1.1	+11.4	24.73	+5	+5.6
Hotels (year-round).....	86.9	-8	+3.0	74.0	+5	+11.0	14.83	+1.4	+7.2
Laundries.....	93.5	+3.6	+7.2	85.5	+5.0	+12.7	17.18	+1.4	+5.1
Dyeing and cleaning.....	92.1	+3.9	+5.3	79.2	+7.2	+14.4	21.32	+3.1	+8.6
Brokerage.....	(3)	-3.0	+3.9	(3)	-3.2	+8.1	39.28	-2	+4.1
Insurance.....	(3)	+4	+1.5	(3)	+1.1	+5.9	39.78	+7	+4.4
Building construction.....	(3)	+3.1	+10.5	(3)	+3.5	+26.6	31.25	+3	+14.6

¹ Revised indexes—Adjusted to 1933 Census of Manufactures.

² Preliminary—Source: Interstate Commerce Commission.

³ Not available.

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

Public Employment

There were more than 204,000 workers engaged on construction projects financed from Public Works Administration funds in June, a decrease of 2,000 compared with the 206,000 workers employed in May. An increase in employment on projects financed from funds provided by the Emergency Relief Appropriation Acts of 1935 and 1936 was offset by decreases in employment on Federal and non-Federal projects financed from funds provided by the National Industrial Recovery Act. Pay-roll disbursements for June on all projects financed by the Public Works Administration totaled \$16,431,000.

During the month more than 177,000 employees were working on construction projects financed from regular governmental appropriations, an increase of 17,000 compared with the number employed in May. Increases in employment occurred on all types of projects with the exception of building construction; river, harbor, and flood

control; streets and roads; and miscellaneous projects. Total pay rolls on all projects financed from regular governmental appropriations amounted to \$16,980,000.

Employment on projects financed by the Reconstruction Finance Corporation decreased 16.2 percent in June to 5,000. Construction activity was curtailed on all types of projects. Pay-roll disbursements totaled \$691,000. This was a decrease of \$99,000 compared with the preceding month.

The number of wage earners employed on projects financed by The Works Program during June was 2,716,000. Compared with the number working in May this was a decrease of 286,000. Of the total, 285,000 were working on Federal projects, 2,020,000 on projects operated by the Works Progress Administration, and 411,000 on work projects of the National Youth Administration and student aid. Disbursements for pay rolls totaled \$126,556,000.

Small increases in employment occurred in the executive, legislative, judicial, and military services of the Federal Government. Employment in the executive service showed a slight increase (0.2 percent) in June. Compared with a year ago the June level of employment increased 2.4 percent. Of the 842,000 employees in the executive service, 116,000 were working in the District of Columbia and 726,000 were employed outside the District. Pronounced increases in employment in the executive service occurred in the Post Office Department, the War Department, and in the Department of Agriculture. Appreciable decreases occurred in the Puerto Rican Reconstruction Administration, the Treasury Department, and in the Resettlement Administration.

In the Civilian Conservation Corps employment decreased in June. Employment for all groups of workers totaled 324,000, a decrease of 25,000 compared with May. The decrease was due almost entirely to the usual decline in the number of enrolled workers at the end of the 3-month enrollment period. Virtually no change occurred in the number of reserve officers and educational advisers. An increase, however, was reported in the number of supervisory and technical employees. Pay rolls for the month for all groups of workers were \$16,086,000, a decrease of \$633,000.

In June 168,000 workers were employed on the construction of new roads and the maintenance and repair of old roads financed from State funds. This was a decrease of 9,000 compared with May. Although there was a gain in the number of employees engaged on new construction, the drop in employment on maintenance work was sufficiently large to cause a decrease in total employment on State roads. Of the total number employed 19,000 were working on new construction

and 149,000 on maintenance work. Pay-roll disbursements totaling in excess of \$11,069,000 during the month, were \$219,000 greater than in the preceding month.

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 1937*¹

[Preliminary figures]

Class	Employment		Per-centage change	Pay rolls		Per-centage change
	June 1937	May 1937		June 1937	May 1937	
Federal services:						
Executive ²	\$ 842,003	840,521	+0.2	\$127,306,460	\$127,610,269	-0.2
Judicial.....	2,040	2,010	+1.5	500,801	496,663	+1.8
Legislative.....	5,133	5,117	+1.3	1,203,582	1,197,996	+1.5
Military.....	319,223	317,520	+1.5	23,135,605	23,813,274	-2.9
Construction projects:						
Financed by P. W. A. ³	204,098	206,019	-1.0	16,430,649	15,850,554	+3.7
Financed by R. F. C. ⁴	4,898	5,847	-16.2	690,822	790,018	-12.6
Financed by regular govern- mental appropriations.....	177,265	160,346	+10.6	16,980,060	15,278,529	+11.1
Federal projects under The Works Program.....	284,893	266,686	+6.8	14,794,640	14,154,856	+4.5
Projects operated by W. P. A. ⁵	2,020,273	2,133,340	-5.3	107,046,653	112,262,434	-4.6
National Youth Administration:						
Works projects.....	170,472	184,173	-7.4	2,862,654	3,093,750	-7.5
Student aid.....	240,460	418,362	-22.5	1,852,006	3,591,961	-48.4
Relief work: Civilian Conservation Corps ⁶	323,626	348,905	-7.3	16,085,832	16,719,019	-3.8

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

²Includes employees of Columbia Institution for the Deaf and Howard University.

³Includes 247 employees by transfer previously reported as separations, not actual additions for June.

⁴Revised.

⁵Data covering P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds are included. These data are not shown under The Works Program.

⁶Includes 141,708 wage earners and \$10,960,950 pay roll for June; 139,561 wage earners and \$10,339,137 pay roll for May covering P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds.

⁷Includes 59 employees and pay-roll disbursements of \$3,325 for June and 80 employees and pay-roll disbursements of \$4,420 for May on projects financed by the RFC Mortgage Co.

⁸Includes 43,246 employees and pay roll of \$5,603,833 for June and 41,930 employees and pay roll of \$5,370,053 for May included in executive service.

The value of material orders placed on projects financed wholly or partially from Federal funds during the second quarter of 1937 amounted to \$259,313,000. It is estimated that approximately 744,000 man-months of labor were created in the final fabrication of these materials. In the corresponding quarter of 1936 the value of material orders placed amounted to \$252,956,000, and 885,000 man-months of labor were created in final fabrication. During the first quarter of 1937 material orders valued at \$243,618,000 were placed and 688,000 man-months of labor were created in final fabrication.

Table 3 shows the value of material orders placed on the various programs financed by Federal funds during the second quarter of 1937, the first quarter of 1937, and the second quarter of 1936 and the man-months of employment created in the final fabrication of the materials used.

TABLE 3.—Value of Material Orders Placed on Projects Financed Wholly or Partially from Federal Funds and Number of Man-Months of Labor Created in Final Fabrication of Materials Purchased

[Subject to revision]

Program	Value of material orders placed			Man-months of labor created in final fabrication		
	Second quarter of 1937	First quarter of 1937	Second quarter of 1936	Second quarter of 1937	First quarter of 1937	Second quarter of 1936
Total.....	\$259,313,311	\$243,618,296	\$252,956,263	743,884	687,979	884,691
Public Works Administration ¹	83,764,660	66,965,476	110,041,383	288,447	234,063	393,169
Reconstruction Finance Corporation ²	2,761,743	4,486,462	6,588,505	7,944	12,458	19,905
Regular governmental appropriations ³	53,654,981	38,163,221	31,941,659	171,554	123,130	100,254
Federal projects under The Works Program:						
Construction.....	22,793,575	21,535,585	39,584,256	72,359	72,068	126,208
Professional, technical, and clerical.....	279,893	290,884	419,501	782	1,021	1,727
Projects operated by W. P. A.	56,266,574	65,665,275	64,091,732	200,149	243,900	242,334
Rentals and services on projects operated by W. P. A.	39,128,795	46,150,914	(⁴)	(⁴)	(⁴)	(⁴)
National Youth Administration: Work projects.....	663,090	360,479	289,227	2,649	1,339	1,094

¹ Data covering P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds are included. These data are not shown under The Works Program.

² Includes RFC Mortgage Co. Does not include projects for which contracts were awarded before Mar. 15, 1934.

³ Does not include projects for which contracts were awarded before July 1, 1934.

⁴ Data not available.



DETAILED REPORTS FOR JUNE 1937

Industrial and Business Employment

MONTHLY reports on employment and pay rolls in industrial and business industries are now available for the following groups: 89 manufacturing industries; 16 nonmanufacturing industries, including 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 IN JUNE 1937

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 1937 are shown in table 4. Percentage changes from May 1937 and June 1936 are also given.

TABLE 4.—*Employment, Pay Rolls, Honrs, and Earnings in Manufacturing and Nonmanufacturing Industries, June 1937*

MANUFACTURING

[Indexes are based on 3-year average 1923-25=100 and are adjusted to 1933 Census of Manufactures]

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index June 1937	Percentage change from—		Index June 1937	Percentage change from—		June 1937	Percentage change from—		June 1937	Percentage change from—		June 1937	Percentage change from—	
		May 1937	June 1936		May 1937	June 1936		May 1937	June 1936		May 1937	June 1936		May 1937	June 1936
All manufacturing industries.....	101.1	-1.2	+12.2	102.9	-2.2	+28.9	\$26.00	-1.0	+13.1	39.2	-1.4	-(?)	<i>Cents</i> 65.3	+0.5	+13.4
Durable goods.....	98.8	-1.1	+16.6	104.6	-2.7	+32.4	29.36	-1.6	+13.5	40.7	-1.4	-1.4	71.4	+1.2	+15.3
Nondurable goods.....	103.5	-1.2	+7.9	100.8	-1.5	+20.1	22.14	-2	+11.3	37.6	-1.3	+1.3	58.6	+1.0	+10.2
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	101.4	-7.9	+10.9	110.4	-11.5	+30.5	31.06	-3.9	+17.6	40.2	-2.4	-4.1	76.0	-1.6	+21.7
Blast furnaces, steel works, and rolling mills ²	106.2	-12.9	+6.5	123.4	-15.3	+30.5	34.48	-2.7	+22.5	40.2	-1.9	-5.3	85.4	-1.2	+28.0
Bolts, nuts, washers, and rivets.....	81.9	-12.7	+10.0	93.3	-17.7	+24.9	25.96	-5.7	+13.6	39.9	-4.2	-1.1	65.1	-1.6	+13.9
Cast-iron pipe.....	70.6	-1.3	+10.1	59.7	-4.3	+30.3	22.73	-3.1	+18.3	39.6	-3.9	+1.4	57.0	+1.0	+15.1
Cutlery (not including silver and plated cutlery) and edge tools.....	86.2	-3.1	+13.1	86.2	-7	+28.6	25.22	+2.4	+13.7	42.9	+6	+3.2	60.1	+1.6	+9.7
Forgings, iron and steel.....	72.6	-2.0	+23.8	71.5	-3.5	+48.2	30.25	-1.6	+19.8	42.0	-2.3	+5.8	72.3	+8	+13.5
Hardware.....	96.7	-1.9	+25.2	96.5	-17.8	+24.1	22.53	-16.2	-9	36.1	-13.3	-11.5	62.4	-3.4	+11.4
Plumbers' supplies.....	93.2	-2.8	+9.3	76.3	-1.0	+20.7	25.71	+1.8	+10.6	40.7	+8	-1.4	63.2	+1.0	+12.3
Steam and hot-water heating apparatus and steam fittings.....	79.8	-2.3	+22.3	76.4	-7.4	+38.3	27.67	-5.2	+13.0	40.5	-5.9	-3.9	68.3	+7	+17.7
Stoves.....	119.0	+1.8	+14.2	106.2	-5	+22.1	26.24	-2.2	+6.8	40.5	-2.7	-1.4	65.1	+8	+8.3
Structural and ornamental metalwork.....	78.7	+2.4	+15.0	82.4	+4.9	+36.3	29.36	+2.4	+18.6	42.3	+1.4	+2	69.5	+1.0	+18.4
Tin cans and other tinware.....	109.2	+4.1	+8.3	116.6	+4.4	+18.8	33.77	+3	+9.7	40.1	-7	-1.1	59.8	-1	+11.3
Tools (not including edge tools, machine tools, files, and saws).....	101.6	-1.7	+27.2	114.9	+9	+43.8	26.36	+2.6	+13.0	43.5	+1.7	+8	60.5	+9	+12.2
Wirework.....	181.2	-9	+22.7	188.5	-4	+40.5	26.33	+6	+15.7	39.6	-1.2	-4.1	66.5	+1.8	+20.5
Machinery, not including transportation equipment.	129.2	+2.5	+24.7	137.2	+1.7	+43.2	41.8	-7	+14.8	41.8	-1.5	+5	70.4	+1.0	+15.1
Agricultural implements.....	140.6	+6	+13.8	182.7	-6	+39.0	29.10	-1.3	+22.1	40.5	-7	+1.9	72.7	-(?)	+20.9
Cash registers, adding machines, and calculating machines.....	135.9	+1.8	+21.8	146.7	-1.5	+36.6	33.24	-3.3	+12.0	41.6	-2.9	-2.3	81.0	-6	+13.5
Electrical machinery, apparatus, and supplies.....	119.9	+1.7	+33.5	126.1	+2.1	+51.4	28.95	+5	+13.5	39.9	-7	-2.4	72.5	+1.1	+16.6
Engines, turbines, tractors, and water wheels.....	149.9	+7	+18.1	156.4	-1	+39.6	32.53	-8	+10.3	40.1	-1.6	+7	81.3	+8	+18.7

See footnotes at end of table.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June 1937—Continued*

MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index June 1937	Percentage change from—		Index June 1937	Percentage change from—		June 1937	Percentage change from—		June 1937	Percentage change from—		June 1937	Percentage change from—	
		May 1937	June 1936		May 1937	June 1936		May 1937	June 1936		May 1937	June 1936		May 1937	June 1936
Durable goods—Continued															
Machinery—Continued.													Cents		
Foundry and machine-shop products.....	112.7	+0.8	+25.1	119.5	+0.1	+42.7	\$29.58	-0.8	+14.1	43.2	-1.7	+0.8	68.5	+1.1	+13.8
Machine tools.....	152.7	+2.0	+31.5	164.6	+1.9	+50.2	33.21	-2	+14.2	40.3	-2.4	+3.0	71.8	+2.2	+10.7
Radios and phonographs.....	182.3	+30.4	-9.0	156.2	+44.0	+8	22.47	+10.4	+10.7	38.4	+1.9	-3	58.9	+8.5	+11.8
Textile machinery and parts.....	87.3	-2	+24.1	93.6	-1.8	+50.0	28.83	-1.5	+21.0	43.8	-2.2	+9.4	60.0	+7	+10.8
Typewriters and parts.....	153.8	+1	+82.4	151.1	-2.6	+108.4	26.22	-2.7	+14.2	41.6	-2.5	+5.8	63.0	-3	+11.3
Transportation equipment.....	126.4	-1.5	+20.0	127.8	-4.7	+29.5	32.00	-3.3	+7.9	37.0	-3.9	-6.8	98.8	+6	+16.2
Aircraft.....	834.0	+1.3	+40.7	751.3	+1.6	+47.7	28.48	+3	+9	44.4	+1.0	-1	64.2	-7	+5
Automobiles.....	137.8	-1.5	+19.0	135.2	-6.0	+26.2	32.46	-4.5	+6.1	36.1	-5.1	-9.9	90.0	+6	+18.2
Cars, electric- and steam-railroad.....	76.5	-1.6	+33.8	91.4	+1.6	+69.2	29.10	+3.2	+27.4	40.0	+1	+8.5	72.7	+3.1	+16.3
Locomotives.....	59.5	+1.2	+69.1	51.4	+8.6	+129.1	33.49	+7.4	+35.5	46.5	+6.4	+23.2	72.0	+1.0	+9.9
Shipbuilding.....	103.3	-3.2	+5.4	114.5	-3.6	+16.6	30.75	-4	+10.6	37.6	0	+1.3	80.3	-1.0	+6.6
Railroad repair shops.....	64.0	+6	+9.4	68.7	+2.4	+14.3	30.80	+1.7	+4.5	44.8	+1.2	+4.0	89.0	-2	+3
Electric railroad.....	62.7	-1.1	+1.2	67.1	+1.0	+8.4	30.19	+2.1	+7.2	44.5	+1.4	+1.5	66.4	+8	+5.7
Steam railroad.....	64.1	+9	+10.2	69.0	+2.3	+14.8	30.89	+1.4	+4.1	44.8	+1.2	+4.2	69.2	+1	-(2)
Nonferrous metals and their products.....	113.9	-1.4	+19.3	111.5	-1.4	+39.5	28.38	0	+17.0	40.2	-1.6	-3	85.1	+1.7	+17.3
Aluminum manufactures.....	129.5	+3.0	+20.9	135.6	+0	+43.8	26.36	-2.3	+18.8	40.4	-1.9	+1.2	65.4	-4	+17.9
Brass, bronze, and copper products.....	122.3	-2.7	+22.4	125.3	-9	+49.5	28.91	+1.8	+22.0	40.6	-1.7	-8	71.4	+3.7	+23.2
Clocks and watches and time-recording devices.....	121.6	-1.5	+17.2	118.5	-3.1	+29.3	22.42	-1.6	+10.3	40.3	-2.3	+2.0	55.5	+7	+9.1
Jewelry.....	89.1	+6	+21.4	70.3	+1.7	+35.7	24.17	+1.1	+11.8	38.9	+9	+4.1	60.9	+8	+5.7
Lighting equipment.....	96.1	-3.7	+26.8	95.3	-6.2	+38.5	24.91	-2.7	+9.2	38.5	-3.0	-5.6	64.8	+3	+15.9
Silverware and plated ware.....	74.4	+(-)	+19.3	69.1	-8	+49.9	25.83	-8	+25.5	40.0	-3.0	+19.1	64.6	+1.5	+3.7
Smelting and refining—copper, lead, and zinc.....	88.8	+1.5	+14.5	85.2	+5	+35.0	28.61	-1.0	+17.9	41.9	-9	-1.5	68.3	-1	+19.6
Stamped and enameled ware.....	159.2	-2.2	+14.9	162.4	-2.2	+30.3	23.84	(2)	+13.4	39.6	-1.7	-3.6	60.4	+1.8	+18.8
Lumber and allied products.....	72.9	+1.8	+12.5	72.3	+6.0	+29.6	22.10	+4.1	+15.2	42.8	+1.3	+1.7	52.5	+3.1	+12.8
Furniture.....	89.1	+1.9	+21.0	78.7	+2.7	+34.3	20.80	+7	+11.0	41.0	-5	-1.2	51.0	+9	+12.7
Lumber:															
Millwork.....	57.5	+4	+15.6	57.5	+4.7	+30.6	23.12	+4.3	+12.9	44.1	+7	-1	52.6	+3.8	+13.1
Sawmills.....	55.7	+2.0	+7.3	57.4	+8.5	+20.6	22.78	+6.3	+18.0	43.5	+2.4	+3.5	53.3	+4.2	+13.5

Stone, clay, and glass products.....	74.0	-5	+11.4	71.4	-8	+28.0	24.53	-3	+14.9	39.9	-1	+1.6	62.0	+1	+12.3
Brick, tile, and terra cotta.....	54.5	-9	+10.2	49.1	-1	+25.0	21.89	+8	+13.5	41.9	-3	-2.3	52.4	+1.3	+16.5
Cement.....	69.7	+1.7	+12.6	75.0	+5.0	+33.3	26.90	+3.3	+18.3	40.6	+2.9	+2.6	66.2	+4	+15.4
Glass.....	112.4	+1	+13.3	119.4	+4	+31.9	25.61	+3	+16.3	38.2	+1.1	+3.9	67.5	-6	+12.4
Marble, granite, slate, and other products.....	44.1	-2.0	+3.4	37.6	-9.0	+3.0	24.88	-7.2	-3	38.5	-5.6	+2	64.5	-1.8	-1.6
Pottery.....	80.0	-2.1	+12.0	70.3	-6.3	+35.5	23.28	-4.2	+21.0	40.5	-1.5	+5.3	60.2	+1.1	+11.0
<i>Nondurable goods</i>															
Textiles and their products.....	103.4	-3.6	+7.5	91.3	-5.1	+18.9	17.73	-1.6	+10.7	35.1	-2.5	-(?)	50.2	+1.3	+9.9
Fabrics.....	99.7	-2.4	+10.4	93.8	-4.3	+24.7	17.74	-1.9	+13.0	36.4	-2.4	+6	48.6	+7	+11.9
Carpets and rugs.....	101.6	-6	+22.0	100.2	-5	+52.3	23.14	+1	+24.7	36.7	-6	+7.7	63.1	+7	+14.3
Cotton goods.....	103.0	-2.4	+15.7	101.2	-5.0	+33.5	15.55	-2.6	+15.4	36.9	-2.5	-1	42.1	+(?)	+15.8
Cotton small wares.....	97.4	-8	+7.3	91.6	-4.2	+11.9	17.49	-3.5	+4.4	36.8	-4.0	-1.2	49.2	+6	+7.9
Dyeing and finishing textiles.....	109.7	-7.6	-1.5	95.8	-9.7	+9.2	21.07	-2.3	+10.8	36.3	-4.0	-3	57.4	+1.8	+11.3
Hats, fur-felt.....	83.9	+1.2	-3.3	73.8	+6.5	-1.7	24.26	+5.2	+1.8	34.2	+5.0	-7.7	72.0	+2.3	+9.1
Knit goods.....	118.1	-3.0	+5.1	119.0	-4.8	+14.4	17.51	-1.9	+8.9	35.7	-3.2	+1.4	50.1	+1.7	+7.9
Silk and rayon goods.....	79.1	+5	+9.7	68.4	+(?)	+22.0	16.70	-5	+11.1	36.6	-8	+4.1	45.4	+3	+6.7
Woolen and worsted goods.....	86.0	-2.2	+9.0	78.5	-3.6	+27.7	21.08	-1.4	+17.1	36.1	-2.3	+4	58.6	+9	+16.2
Wearing apparel.....	109.3	-6.2	+1.6	82.5	-7.2	+7.7	17.70	-1.0	+6.0	32.2	-2.9	-2.3	53.5	+2.6	+7.5
Clothing, men's.....	106.6	-4.4	+2.1	86.7	-3.6	+9.2	19.19	+8	+7.0	32.5	-4.5	+1.8	58.1	+5.1	+6.7
Clothing, women's.....	137.3	-10.0	-1.9	91.6	-13.5	+6.5	18.32	-3.9	+8.5	30.9	-2.3	-5.6	55.8	+4	+12.7
Corsets and allied garments.....	89.6	-2.0	+3.8	85.2	-7.2	+4.0	15.50	-5.3	+1	32.9	-6.1	-5.6	46.6	+(?)	+5.3
Men's furnishings.....	136.5	-3.8	+8.2	103.7	-2.2	+7.4	13.43	+1.7	-7	33.2	-6.4	-17.4	35.5	+4.2	+6.7
Millinery.....	51.2	-8.5	+1.1	37.4	-3.3	+6.6	21.17	+5.6	+5.3	31.5	-2.3	+18.1	68.7	+9.1	-8.2
Shirts and collars.....	118.0	-1.8	+6.5	101.7	+(?)	+7.5	12.90	+1.9	+8	33.9	+1.6	-3.6	39.3	+9	+6.4
Leather and its manufactures.....	93.8	-1.4	+8.1	80.6	-1.2	+24.8	20.01	+1	+15.5	38.1	+2.0	+9.6	53.5	-1.8	+4.8
Boots and shoes.....	94.0	-1.4	+8.9	73.3	-1.1	+26.7	18.80	+4	+16.4	37.7	+2.9	+11.8	51.0	-2.7	+3.0
Leather.....	98.0	-1.1	+5.5	108.4	-1.4	+20.8	24.54	-4	+14.5	39.3	-1.1	+3.8	62.6	+7	+10.9
Food and kindred products.....	112.6	+4.4	+4.4	115.8	+3.8	+17.1	24.86	-6	+12.1	41.4	-1.0	-1.8	60.0	+2	+12.4
Baking.....	136.6	+1.5	+6.3	133.8	+2.7	+16.3	25.48	+1.2	+9.4	43.3	-2	+6.1	59.3	+1.5	+5.8
Beverages.....	224.4	+8.2	+12.7	260.5	+10.0	+18.0	34.32	+1.7	+4.8	41.7	+1.0	-1.4	83.3	+8	+5.8
Butter.....	95.6	+7.3	+4.9	76.6	+7.5	+8.0	22.20	+2	+2.9	48.9	+6	-1.6	45.7	-5	+6.2
Canning and preserving.....	122.7	+23.2	-2.8	123.5	+13.9	+20.3	16.17	-7.6	+23.7	35.9	-6.6	+5.8	46.6	-6	+17.5
Confectionery.....	68.9	-3.3	+5	68.0	-1.7	+13.9	17.74	+1.7	+13.4	37.7	-1.2	+5.8	47.1	+2.1	+7.7
Flour.....	73.6	-3	+1.8	74.2	+1.2	+10.8	25.68	+1.5	+9.0	44.1	-2	+1	57.5	+1.6	+7.7
Ice cream.....	90.6	+10.4	+7.4	81.5	+7.5	+12.4	27.34	-2.6	+4.7	49.2	+1.2	+2.4	56.0	-3.4	+2.9
Slaughtering and meat packing.....	88.9	-5	+3.6	99.2	+2	+22.1	27.97	+8	+17.8	40.8	+8	-3.2	68.7	+1	+22.3
Sugar, beet.....	49.3	+5.7	+1.5	55.2	+8.0	+10.2	25.65	+2.2	+8.6	40.6	+5.0	-2	64.8	-3.5	+9.3
Sugar refining, cane.....	74.9	-4.3	-6.3	68.4	-4.5	+2.7	25.40	-2	+0.7	39.4	-2.6	+4	64.3	+3.1	+7.7
Tobacco manufactures.....	60.1	+3	-2	55.7	+3.9	+11.2	17.15	+3.6	+11.4	38.0	+2.2	+2.9	45.1	+1.4	+9.7
Chewing and smoking tobacco and snuff.....	56.4	+9	+2.5	69.4	+4.5	+24.0	18.39	+3.5	+21.0	37.1	+2.2	+4.4	50.1	+1.5	+12.2
Cigars and cigarettes.....	60.5	+3	-5	54.0	+3.9	+9.3	16.89	+3.6	+10.1	38.1	+2.2	+2.0	44.5	+1.4	+9.3
Paper and printing.....	106.9	-7	+8.2	104.9	-9	+17.6	23.61	-2	+8.6	39.7	-1.5	+2.7	74.5	+9	+5.2
Boxes, paper.....	103.0	-6	+12.8	104.4	-1.7	+21.5	20.70	-1.1	+7.7	40.3	-2.0	+9	61.9	+8	+6.8
Paper and pulp.....	120.5	+3	+10.7	124.3	+2.1	+30.7	25.90	+1.8	+18.0	42.2	-1.4	+3.5	61.4	+3.3	+13.9
Printing and publishing:															
Book and job.....	95.4	-1.9	+8.7	91.3	-3.4	+16.9	30.26	-1.6	+7.5	39.5	-1.8	+4.4	77.8	-(?)	+3.2
Newspapers and periodicals.....	105.4	-7	+2.7	103.6	-1.1	+7.4	37.18	-3	+4.5	36.8	-1.1	+5.5	97.1	+3	+3.4

See footnotes at end of table.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June 1937—Continued*

MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index June 1937	Percentage change from—		Index June 1937	Percentage change from—		June 1937	Percentage change from—		June 1937	Percentage change from—		June 1937	Percentage change from—	
		May 1937	June 1936		May 1937	June 1936		May 1937	June 1936		May 1937	June 1936		May 1937	June 1936
Nondurable goods—Continued															
Chemicals and allied products, and petroleum refining.....	123.9	-0.5	+12.3	137.4	+0.5	+30.4	\$28.89	+1.0	+16.0	39.6	-0.7	+1.0	73.7	+1.5	+15.5
Other than petroleum refining.....	123.4	-1.0	+13.7	135.7	-4	+31.4	26.52	+6	+15.5	40.6	-1.3	+1.0	66.1	+1.9	+14.4
Chemicals.....	138.5	+7	+16.8	153.5	+7	+35.5	30.81	-1	+16.0	40.5	-5	-4	76.2	+5	+16.5
Cottonseed—oil, cake, and meal.....	43.9	-8.0	+15.9	38.6	-8.7	+35.8	12.15	-7	+17.1	48.7	-1.2	+12.6	25.1	-3	+4.2
Druggists' preparations.....	108.8	+4	+8.4	121.3	+2.8	+22.1	24.40	+2.4	+12.6	40.0	+1.7	+3.8	58.1	+1.7	+3.9
Explosives.....	94.8	+4.5	+14.6	103.0	-2	+23.3	30.99	-4.5	+7.6	39.0	-4.2	-1.8	79.4	-3	+9.8
Fertilizers.....	75.7	-27.7	+28.1	79.2	-31.9	+44.3	17.06	-5.8	+12.7	40.2	-0.4	+5.2	42.5	+3.9	+7.4
Paints and varnishes.....	138.9	-9	+7.8	142.7	-1.6	+18.1	28.54	-7	+9.6	42.5	-2.3	-1.5	67.4	+1.6	+11.2
Rayon and allied products.....	391.4	+1.9	+16.4	391.8	+2.6	+41.5	24.69	+7	+21.4	39.8	+5	+2.4	62.0	+1	+18.6
Soap.....	102.5	-8	+6.4	115.1	+1.1	+21.3	27.26	+1.9	+14.1	39.3	+1	-1.1	69.7	+1.8	+15.3
Petroleum refining.....	126.0	+1.6	+6.9	143.0	+3.4	+27.3	34.36	+1.8	+19.0	36.5	+1.8	+2	95.2	+(2)	+19.6
Rubber products.....	101.2	-2.3	+12.7	103.8	-4.9	+16.6	27.51	-2.7	+3.5	35.7	-3.1	-4.0	78.8	+5	+9.9
Rubber boots and shoes.....	72.5	-5.0	+5.2	69.7	-4.1	+23.2	24.18	+1.0	+17.1	39.6	+1.1	+1	61.0	-2	+16.5
Rubber goods, other than boots, shoes, tires, and inner tubes.....	142.1	-3.0	+16.9	144.9	-5.6	+31.2	23.54	-2.6	+12.2	39.4	-4.1	+2.5	59.8	+1.0	+10.7
Rubber tires and inner tubes.....	92.7	-1.1	+12.0	97.9	-4.7	+9.4	30.77	-3.6	-2.4	32.1	-3.4	-10.2	96.3	-(2)	+8.8

NONMANUFACTURING

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

Coal mining:																		
Anthracite.....	51.1	+0.2	-0.2	50.9	+14.7	+21.4	\$28.99	+14.5	+21.6	31.2	+12.3	+6.5	91.7	+0.5	+10.3			
Bituminous.....	77.9	+2	+2.9	71.2	+5.0	+15.7	23.19	+4.9	+12.5	25.9	+4.6	-2	88.6	-1.5	+10.7			
Metaliferous mining.....	78.9	+1.9	+27.5	77.2	-3.1	+60.1	31.18	-3.9	+25.6	43.5	-2.7	+5.7	71.7	-1.3	+19.9			
Quarrying and nonmetallic mining.....	55.4	+1.9	+3.6	52.6	+2.5	+19.6	23.84	+1.6	+15.4	44.4	+1.8	+1.6	53.8	+1.3	+13.0			
Crude-petroleum producing ¹	79.1	+3.2	+7.4	70.5	+3.8	+19.7	33.57	+6	+11.4	40.0	+1.6	+3.2	82.8	-1.0	+8.0			
Public utilities:																		
Telephone and telegraph ²	78.5	+1.0	+9.0	88.6	-1.0	+14.5	29.95	-2.0	+5.1	37.9	-3.6	-9	81.7	+1.8	+6.4			
Electric light and power and manufactured gas.....	96.0	+1.8	+6.0	100.1	+2.6	+13.6	33.57	+8	+6.9	40.6	+1.4	+9	82.6	0	+7.6			
Electric-railroad and motorbus operation and maintenance.....	73.3	+1	+2.2	71.1	+1.5	+6.5	31.85	+1.4	+4.2	46.7	+1.1	+1	67.3	+6	+3.9			
Trade:																		
Wholesale.....	90.3	-6	+6.7	76.3	+2	+11.6	30.56	+8	+4.5	43.3	+3	+2	70.7	+5	+4.4			
Retail ³	90.5	+6	+5.8	74.4	+1.1	+12.0	22.06	+5	+5.8	43.4	-(2)	-1.3	55.5	+7	+6.6			
General merchandising ⁴	102.9	+7	+6.7	92.5	+1.1	+13.7	18.74	+4	+6.6	39.7	-(2)	-3.0	50.6	+6	+9.8			
Other than general merchandising.....	87.2	+6	+5.5	70.6	+1.1	+11.4	21.73	+5	+5.6	44.5	0	-8	57.0	+7	+5.8			
Hotels (year-round) ⁵	86.9	-8	+3.6	74.0	+5	+11.0	14.83	+1.4	+7.2	47.7	+1	+9	30.7	+1.2	+6.5			
Laundries.....	93.5	+3.6	+7.2	85.5	+5.0	+12.7	17.18	+1.4	+5.1	43.6	+1	+6	39.1	+8	+4.2			
Dyeing and cleaning.....	92.1	+3.9	+5.3	79.2	+7.2	+14.4	21.32	+3.1	+8.6	45.4	+1.9	+2.1	47.1	+1.5	+4.3			
Brokerage.....	(9)	-3.0	+3.9	(9)	-3.2	+8.1	39.28	-2	+4.1	(9)	(9)	(9)	(9)	(9)	(9)			
Insurance.....	(9)	+4	+1.5	(9)	+1.1	+5.9	39.78	+7	+4.4	(9)	(9)	(9)	(9)	(9)	(9)			
Building construction.....	(9)	+3.1	+10.5	(9)	+3.5	+26.6	31.25	+3	+11.6	33.8	-1.4	+1.8	92.5	+1.9	+12.8			

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

³ Preliminary.

⁴ May data for crude-petroleum producing revised as follows:

Pay roll.—May index, 67.9, percentage change from April, +7, from May 1936, +17.1. *Average hourly earnings*.—Percentage change from April to May, -5, from April 1936 to May 1936, +11.1.

Average weekly hours.—May average, 39.1, percentage change from April, -2.3.

Average hourly earnings.—May average, 83.8, percentage change from April +1.8, from May 1936, +8.9.

⁵ Data for telephone and telegraph industries revised as follows:

Employment.—Percentage change from December 1936 to January 1937, +1.0; from January 1937 to February 1937, +0.5; from February to March, +0.7; from January 1936 to January 1937, +6.2.

Pay roll.—January index, 83.6, percentage change from December 1936, +1.5; from January 1936, +11.5; February index, 82.2, percentage change from January, -1.6; from February 1936, +7.9; March index, 87.2, percentage change from February, +6.0, from March 1936, +12.9; April index 86.3, percentage change from April 1936, +13.6.

Average weekly earnings.—January average, \$30.18, percentage change from December 1936, +0.4, from January 1936, +5.0; February average \$29.57, percentage change from January, -2.2, from February 1936, +0.9; March average \$31.10, percentage change from February, +5.2, from March 1936, +5.2; April average \$30.18, percentage change from April 1936, +5.1.

Average weekly hours.—January average 39.6, percentage change from December 1936, +2.3, from January 1936, +2.9; percentage change from January to February, -4.5; from February 1936 to February 1937, -4.2; March average 39.3, percentage change from February, +3.7, from March 1936, +1.5; percentage change from March to April, +1.7.

Average hourly earnings.—January average 79.4 cents, percentage change from December 1936, -1.8, from January 1936, +2.5; February average, 80.6 cents, percentage change from January, +2.1; March average, 82.0 cents, percentage change from February, +1.4, from March 1936, +3.7; April average 79.6 cents, percentage change from April 1936, +3.6.

⁶ Average weekly earnings from April 1937 in retail trade revised to \$21.73.

⁷ Data for general merchandising revised as follows: April pay-roll index, 86.1; percentage change from March, +1.7; percentage change from April 1936, +10.0. April average weekly earnings, \$18.63; percentage change from March 1937, +2.4; percentage change from April 1936, +7.6.

⁸ Cash payments only; the additional value of board, room, and tips cannot be computed.

⁹ Not available.

INDEXES OF EMPLOYMENT AND PAY ROLLS, JANUARY 1936 TO JUNE 1937

Indexes of employment and pay rolls are given in tables 5 and 6 for all manufacturing industries combined, for the durable- and nondurable-goods groups of manufacturing industries, and for 13 nonmanufacturing industries, including 2 subgroups under retail trade, by months from January 1936 to June 1937, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to June 1937.

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 1937 reports were received from 25,402 manufacturing establishments employing 4,940,790 workers, whose weekly earnings were \$128,446,166. 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.

TABLE 5.—*Indexes of Employment and Pay Rolls in All Manufacturing Industries Combined and in the Durable- and Nondurable-Goods Groups, January 1936 to June 1937*¹

[Adjusted to 1933 Census of Manufactures—3-year average 1923-25=100]

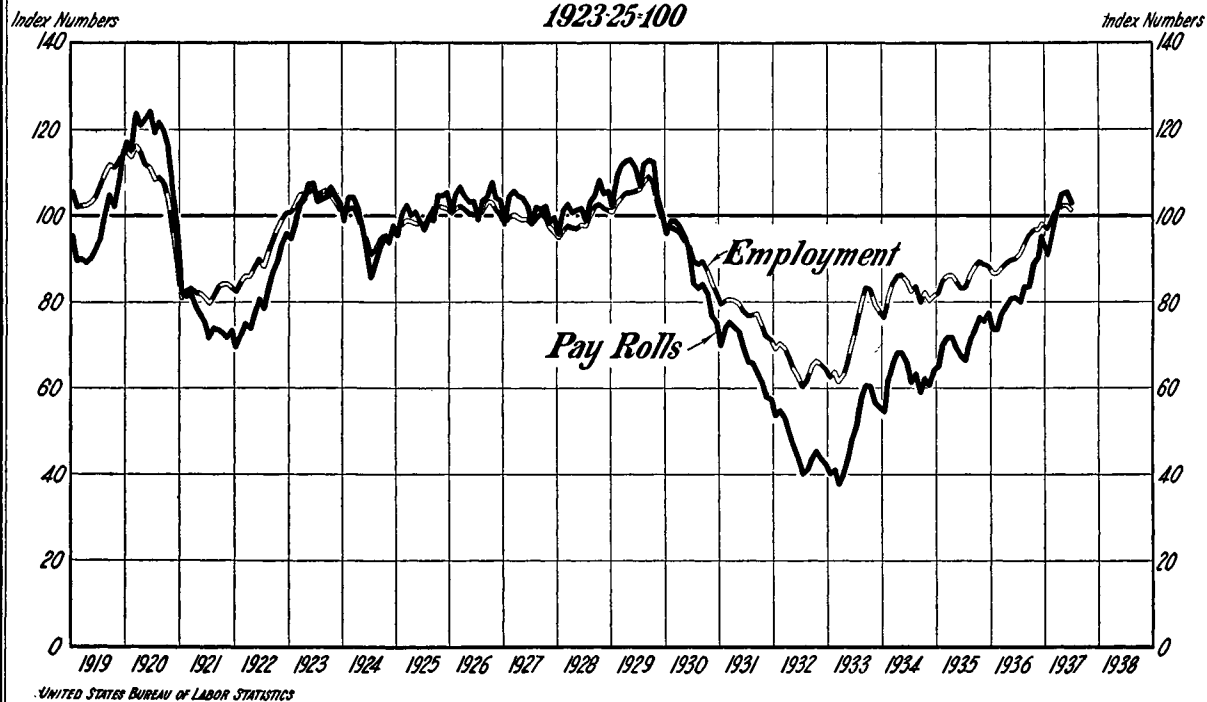
Month	Manufacturing											
	Total				Durable goods ²				Nondurable goods ³			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	86.8	96.5	73.8	90.7	78.7	90.4	66.9	86.6	95.4	103.0	82.5	96.0
February.....	86.9	99.0	73.7	95.8	78.6	93.2	66.6	92.5	95.8	105.2	82.7	99.9
March.....	87.9	101.1	77.6	101.1	80.2	96.4	71.8	100.0	96.1	106.1	84.9	102.6
April.....	89.1	102.1	79.3	104.9	82.3	98.6	76.0	106.4	96.3	105.9	83.5	102.9
May.....	89.8	102.3	80.8	105.2	84.0	99.9	78.5	107.5	96.0	104.8	83.8	102.3
June.....	90.1	101.1	81.1	102.9	84.7	98.8	79.0	104.6	95.9	103.5	83.9	100.8
July.....	91.2	-----	80.2	-----	84.6	-----	75.9	-----	98.2	-----	85.6	-----
August.....	93.5	-----	83.5	-----	84.7	-----	77.0	-----	102.8	-----	91.8	-----
September.....	95.5	-----	83.6	-----	85.7	-----	77.2	-----	105.9	-----	91.6	-----
October.....	96.7	-----	89.0	-----	89.2	-----	85.3	-----	104.7	-----	93.7	-----
November.....	96.9	-----	90.7	-----	91.0	-----	88.9	-----	103.3	-----	92.9	-----
December.....	98.1	-----	95.2	-----	92.7	-----	93.4	-----	104.0	-----	97.5	-----
Average.....	91.9	-----	82.4	-----	84.7	-----	78.0	-----	99.5	-----	87.9	-----

¹ Comparable indexes for earlier years will be found in the February 1937 issue of this report, or in the April 1937 issue of the Monthly Labor Review.

² Includes the following groups of manufacturing industries: Iron and steel; machinery; transportation equipment; railroad repair shops; nonferrous metals; lumber and allied products; and stone, clay, and glass products.

³ Includes the following groups of manufacturing industries: Textiles and their products, leather and its manufactures, food and kindred products tobacco manufactures, paper and printing, chemicals and allied products, products of petroleum and coal, rubber products, and a number of miscellaneous industries not included in other groups.

EMPLOYMENT & PAY ROLLS ALL MANUFACTURING INDUSTRIES 1923=100



The indexes of nonmanufacturing industries are also computed from data supplied by reporting establishments, but the base is 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, including executives. 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.

TABLE 6.—*Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1936 to June 1937*¹

[12-month average 1929=100]

Month	Anthracite mining				Bituminous-coal mining				Metalliferous mining				Quarrying and non-metallic mining			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	59.1	54.1	54.4	42.7	79.8	84.6	70.6	79.9	54.2	66.8	41.7	58.4	39.4	45.7	25.5	34.6
February.....	61.2	52.7	76.7	41.0	80.2	84.8	78.4	82.4	55.5	69.6	42.8	63.4	36.9	46.7	23.9	37.8
March.....	52.5	48.9	42.6	37.8	80.4	85.9	70.2	88.4	55.9	73.1	45.1	70.6	42.2	49.1	30.9	41.3
April.....	49.8	54.0	28.6	63.9	77.5	72.6	62.6	54.4	57.5	76.2	45.5	76.9	48.4	53.1	36.1	48.1
May.....	51.9	51.0	56.3	44.4	76.2	77.8	62.2	67.8	60.8	78.2	47.7	79.6	52.0	54.9	42.1	51.4
June.....	51.2	51.1	42.0	50.9	75.7	77.9	61.5	71.2	61.9	78.9	48.2	77.2	53.5	55.4	44.0	52.6
July.....	48.4	—	37.2	—	75.5	—	62.6	—	61.3	—	46.1	—	54.4	—	43.9	—
August.....	41.1	—	31.4	—	76.9	—	65.4	—	61.6	—	48.2	—	55.3	—	46.2	—
September.....	47.6	—	34.9	—	78.2	—	71.0	—	63.1	—	50.0	—	54.9	—	44.8	—
October.....	49.9	—	48.5	—	81.1	—	79.2	—	64.2	—	53.7	—	54.6	—	46.2	—
November.....	51.5	—	40.3	—	82.3	—	80.7	—	62.9	—	54.6	—	52.0	—	43.5	—
December.....	54.8	—	55.4	—	83.9	—	85.0	—	64.4	—	57.7	—	49.4	—	39.4	—
Average..	51.8	—	45.7	—	79.0	—	70.8	—	60.3	—	48.4	—	49.5	—	38.9	—

Month	Crude-petroleum producing				Telephone and telegraph				Electric light and power, and manufactured gas				Electric-railroad and motorbus operation and maintenance ²			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	71.1	72.7	55.7	61.0	70.1	74.4	75.0	83.6	86.1	92.1	84.8	92.3	70.7	72.5	65.0	68.0
February.....	70.8	73.5	55.7	63.8	69.9	74.8	76.2	82.2	86.1	92.0	84.7	93.3	71.7	72.5	68.3	68.7
March.....	70.9	74.2	56.0	63.7	70.2	75.4	77.2	87.2	86.8	92.2	85.9	94.5	71.2	72.6	67.8	69.2
April.....	71.3	75.8	57.1	67.4	70.8	76.6	76.0	86.3	88.0	92.9	86.2	95.2	71.3	72.9	65.9	69.4
May.....	72.7	76.7	58.0	67.9	71.6	77.7	78.5	89.5	89.0	94.4	87.0	97.6	71.5	73.3	66.1	70.1
June.....	73.7	79.1	58.9	70.5	72.1	78.5	77.4	88.6	90.4	96.0	88.1	100.1	71.7	73.3	66.8	71.1
July.....	75.4	—	60.4	—	73.1	—	79.9	—	91.7	—	89.8	—	72.4	—	66.5	—
August.....	75.0	—	59.7	—	73.5	—	81.2	—	93.1	—	89.8	—	72.4	—	66.5	—
September.....	74.5	—	60.4	—	73.7	—	78.8	—	93.5	—	91.4	—	72.8	—	66.4	—
October.....	73.6	—	59.6	—	73.8	—	83.1	—	91.0	—	92.7	—	73.1	—	67.7	—
November.....	73.2	—	60.1	—	73.7	—	81.6	—	93.5	—	91.8	—	73.0	—	69.7	—
December.....	72.4	—	61.3	—	73.6	—	82.4	—	93.2	—	93.8	—	72.5	—	69.3	—
Average..	72.9	—	58.6	—	72.2	—	78.9	—	90.5	—	88.8	—	72.0	—	67.2	—

¹ Comparable indexes for earlier years for all of these industries, except year-round hotels, will be found in the November 1934 and subsequent issues of this pamphlet, or the February 1935 and subsequent issues of the Monthly Labor Review. Comparable indexes for year-round hotels will be found in the June 1935 issue of this pamphlet, or

the September 1935 issue of the Monthly Labor Review.

² Not including electric-railroad car building and repairing; see transportation equipment and railroad repair-shop groups, manufacturing industries, table 3.

³ Revised.

TABLE 6.—*Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1936 to June 1937—Continued*

Month	Wholesale trade				Total retail trade				Retail trade—general merchandising				Retail trade—other than general merchandising			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	85.6	90.7	66.6	72.6	80.4	85.4	62.1	68.0	88.2	95.1	76.4	83.8	78.4	82.9	59.1	64.7
February.....	85.0	92.0	66.6	74.1	79.7	85.2	61.6	67.9	85.1	93.9	73.9	82.9	78.3	82.9	59.1	64.8
March.....	85.6	92.1	69.0	75.0	81.9	88.5	63.5	70.5	90.9	100.3	77.3	87.6	79.5	85.4	60.7	67.0
April.....	85.7	91.9	67.9	75.4	85.2	88.8	65.3	71.9	97.4	99.6	81.0	89.1	82.0	86.0	62.1	68.3
May.....	84.6	90.8	68.2	76.1	85.0	89.0	65.8	73.5	95.5	102.1	80.8	91.5	82.3	86.7	62.7	69.8
June.....	84.6	90.3	68.4	76.3	85.5	90.5	66.4	74.4	96.4	102.9	81.3	92.5	82.6	87.2	63.3	70.6
July.....	85.4	.....	69.0	.....	83.2	.....	65.1	.....	90.7	.....	77.3	.....	81.2	.....	62.6	.....
August.....	86.3	.....	69.7	.....	82.4	.....	64.4	.....	89.4	.....	76.4	.....	80.5	.....	61.9	.....
September.....	88.0	.....	70.5	.....	86.6	.....	66.6	.....	98.5	.....	82.8	.....	83.5	.....	63.3	.....
October.....	89.0	.....	71.5	.....	88.7	.....	68.2	.....	103.9	.....	87.2	.....	84.7	.....	64.4	.....
November.....	89.7	.....	73.1	.....	90.1	.....	70.1	.....	109.3	.....	91.4	.....	85.1	.....	65.7	.....
December.....	91.0	.....	72.8	.....	90.6	.....	73.9	.....	143.4	.....	116.2	.....	88.1	.....	67.6	.....
Average.....	86.7	.....	69.4	.....	85.7	.....	66.3	.....	99.1	.....	83.5	.....	82.2	.....	62.7	.....

Month	Year-round hotels				Laundries				Dyeing and cleaning			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	81.9	85.5	64.9	70.4	81.5	88.5	68.3	76.4	71.5	76.8	51.6	55.6
February.....	82.8	86.4	66.5	72.5	81.2	88.6	67.8	76.3	70.3	76.2	49.0	54.6
March.....	82.8	86.9	66.0	72.7	82.1	88.7	69.9	77.5	74.7	81.1	56.4	61.7
April.....	83.2	88.4	66.3	71.5	83.2	88.5	70.9	78.5	81.8	84.9	64.1	68.8
May.....	84.1	87.7	67.0	73.6	85.5	90.3	75.6	81.4	87.3	88.6	72.2	73.9
June.....	83.9	86.9	66.6	74.0	87.2	93.5	75.8	85.5	87.5	92.1	69.2	79.2
July.....	82.3	.....	66.0	.....	90.5	.....	79.0	.....	85.5	.....	64.8	.....
August.....	83.2	.....	66.1	.....	89.6	.....	76.7	.....	83.5	.....	63.2	.....
September.....	84.2	.....	67.5	.....	89.6	.....	76.6	.....	86.7	.....	66.1	.....
October.....	85.4	.....	69.6	.....	87.6	.....	75.3	.....	86.5	.....	66.7	.....
November.....	84.6	.....	69.6	.....	87.0	.....	74.5	.....	81.3	.....	60.2	.....
December.....	84.0	.....	69.8	.....	87.6	.....	76.1	.....	77.7	.....	57.3	.....
Average.....	83.6	.....	67.2	.....	86.1	.....	73.9	.....	81.2	.....	61.7	.....

* Revised.

TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in May and June 1937, 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 and each of the nonmanufacturing industries presented in table 4 except building construction.

TABLE 7.—Comparison of Employment and Pay Rolls in Identical Establishments in May and June 1937, by Geographic Divisions and by States

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

Geographic division and State	Total—all groups					Manufacturing				
	Number of establishments	Number on pay roll June 1937	Percentage change from May 1937	Amount of pay roll (1 week) June 1937	Percentage change from May 1937	Number of establishments	Number on pay roll June 1937	Percentage change from May 1937	Amount of pay roll (1 week) June 1937	Percentage change from May 1937
				<i>Dollars</i>					<i>Dollars</i>	
New England.....	14,074	644,164	-1.2	22,777,905	-1.3	3,509	662,439	-2.2	15,640,029	-2.2
Maine.....	821	60,599	+1.1	1,307,456	(¹)	296	49,472	+8.8	1,038,721	-4.4
New Hampshire.....	619	40,458	-9.9	866,775	-2.5	210	33,159	-2.0	694,810	-3.4
Vermont.....	491	20,061	-5.5	457,918	-2.6	146	12,674	-3.1	288,763	-5.7
Massachusetts.....	² 8,581	<i>506,745</i>	<i>-1.9</i>	<i>18,287,453</i>	<i>-1.7</i>	³ 1,690	<i>303,705</i>	<i>-3.8</i>	<i>7,174,185</i>	<i>-3.1</i>
Rhode Island.....	1,251	98,767	-7.7	2,291,690	-9.9	423	79,417	-8.8	1,774,755	-1.4
Connecticut.....	2,511	217,534	-7.4	5,566,613	-7.7	744	184,012	-1.0	4,668,795	-1.0
Middle Atlantic.....	35,428	2,339,035	(¹)	64,601,719	+4.4	5,309	1,323,396	+4.3	38,140,206	-1.1
New York.....	23,410	1,053,910	-7.7	29,874,503	-6.3	⁴ 2,141	<i>470,290</i>	<i>-2.3</i>	<i>13,170,051</i>	<i>+1.1</i>
New Jersey.....	4,283	356,533	+3.3	9,504,045	-2.2	⁵ 846	<i>269,047</i>	<i>+2.7</i>	<i>7,045,052</i>	<i>-1.0</i>
Pennsylvania.....	7,735	928,592	+7.2	25,223,171	+1.7	⁶ 2,319	<i>584,059</i>	<i>-1.1</i>	<i>15,985,100</i>	<i>-5.6</i>
East North Central.....	21,815	2,381,771	-2.4	67,587,369	-4.3	7,580	1,843,089	-3.1	53,354,132	-6.1
Ohio.....	8,195	640,130	-6.5	17,646,439	-9.2	⁷ 2,571	<i>472,001</i>	<i>-8.8</i>	<i>13,410,462</i>	<i>-12.3</i>
Indiana.....	⁸ 2,465	<i>269,849</i>	<i>-2.7</i>	<i>7,292,225</i>	<i>-4.5</i>	⁹ 887	<i>221,718</i>	<i>-3.7</i>	<i>6,171,907</i>	<i>-5.8</i>
Illinois.....	¹⁰ 6,304	<i>654,251</i>	<i>+2.7</i>	<i>18,031,109</i>	<i>+8.8</i>	¹¹ 2,442	<i>462,441</i>	<i>-2.7</i>	<i>12,907,127</i>	<i>+1.1</i>
Michigan.....	3,833	617,652	-1.3	19,263,855	-5.3	¹² 955	<i>525,864</i>	<i>-7.1</i>	<i>16,432,173</i>	<i>-6.9</i>
Wisconsin.....	¹³ 7,018	<i>199,889</i>	<i>+7.7</i>	<i>5,353,741</i>	<i>+1.0</i>	¹⁴ 875	<i>161,075</i>	<i>-5.6</i>	<i>4,432,463</i>	<i>-1.5</i>
West North Central.....	11,933	442,696	+1.4	10,873,877	+2.0	2,460	227,088	+2.0	5,565,501	+3.1
Minnesota.....	2,190	91,794	+8.2	2,435,262	+2.3	428	44,750	+9.1	1,79,572	+4.4
Iowa.....	1,847	66,803	+1.8	1,643,917	+2.0	430	40,049	+5.1	1,026,498	+1.5
Missouri.....	3,080	177,874	+1.4	4,268,575	+2.5	895	103,209	+3.5	2,360,491	+4.0
North Dakota.....	536	5,302	+9.9	130,164	+1.6	58	781	-1.1	22,798	+2.9
South Dakota.....	477	7,889	+1.4	203,837	+6.0	40	1,944	+1.8	51,233	+2.7
Nebraska.....	1,573	34,234	+1.7	822,827	+6.1	161	12,092	+3.5	310,642	+1.6
Kansas.....	¹⁵ 2,530	<i>58,800</i>	<i>+2.2</i>	<i>1,869,295</i>	<i>+1.6</i>	¹⁶ 448	<i>24,263</i>	<i>+1.1</i>	<i>614,267</i>	<i>+1.5</i>
South Atlantic.....	11,206	881,571	-1.0	18,061,296	-1.0	2,774	593,121	-1.2	11,358,020	-2.2
Delaware.....	217	18,463	+3.0	466,512	+2.8	88	14,220	+3.1	353,046	-3.3
Maryland.....	1,668	138,454	-1.1	3,424,451	-9.9	568	95,084	-1.4	2,360,947	-2.7
District of Columbia.....	1,121	42,322	+1.4	1,089,208	+1.6	35	3,546	+2.0	122,976	+1.3
Virginia.....	2,159	118,796	-1.2	2,395,321	+7.4	465	83,662	-1.0	1,668,090	+6.6
West Virginia.....	1,288	163,262	+1.3	4,159,151	+1.1	260	65,129	+9.9	1,762,514	-1.3
North Carolina.....	1,454	161,975	-1.2	2,544,114	-3.3	573	149,417	-1.2	2,301,342	-3.6
South Carolina.....	772	77,803	-1.9	1,198,962	-2.7	205	69,184	-2.3	1,037,119	-3.4
Georgia.....	1,543	120,188	-1.8	2,014,734	-2.9	379	92,964	-2.1	1,416,564	-3.8
Florida.....	1,084	40,308	-10.1	768,843	-6.7	201	19,915	-6.2	335,022	-3.5
East South Central.....	4,138	302,910	(¹)	5,751,390	+5.1	1,000	189,763	+5.1	3,474,450	-2.2
Kentucky.....	1,303	89,305	-1.0	1,891,052	-1.0	292	36,477	-1.3	764,528	+2.1
Tennessee.....	1,324	108,539	-1.2	2,007,803	-1.2	387	80,875	-1.8	1,462,223	-2.1
Alabama.....	956	88,124	+2.1	1,567,123	+4.5	232	62,821	+9.9	1,098,540	+6.6
Mississippi.....	555	16,942	+1.6	285,342	+1.0	89	9,590	+1.7	149,159	+2.3
West South Central.....	4,638	210,479	+1.0	4,815,863	+1.0	1,125	105,503	+4.3	2,303,291	+1.1
Arkansas.....	¹⁷ 1,226	<i>28,456</i>	<i>+7.0</i>	<i>404,445</i>	<i>+9.9</i>	¹⁸ 177	<i>16,933</i>	<i>+4.2</i>	<i>292,216</i>	<i>+2.9</i>
Louisiana.....	1,032	49,855	(¹)	977,788	+6.2	229	26,857	-5.5	471,338	+1.1
Oklahoma.....	1,394	45,857	+4.1	1,156,698	+1.1	143	12,867	-5.3	310,717	+1.1
Texas.....	¹⁹ 1,786	<i>92,311</i>	<i>+1.9</i>	<i>2,276,832</i>	<i>+1.1</i>	²⁰ 576	<i>48,846</i>	<i>+1.1</i>	<i>1,229,020</i>	<i>+1.0</i>
Mountain.....	4,371	138,315	+1.2	3,747,019	+1.1	582	40,868	+1.8	1,130,566	-3.3
Montana.....	699	21,892	+2.8	638,642	-4.2	87	5,430	+2.8	164,891	+2.6
Idaho.....	489	10,655	-3.0	283,549	-2.0	55	3,303	+1.5	90,178	+9.6
Wyoming.....	335	9,006	+4.4	261,310	+14.6	39	1,727	+9.9	56,800	+6.2
Colorado.....	1,243	45,534	+1.7	1,191,269	-5.1	192	17,751	+1.5	493,729	-5.3
New Mexico.....	314	7,318	+2.2	163,048	+1.8	32	923	-8.8	18,035	0.0
Arizona.....	477	18,959	+2.2	549,812	-1.8	38	3,393	+3.2	88,617	+3.1
Utah.....	597	21,491	+2.2	552,517	+2.4	111	7,272	+2.3	184,966	+2.2
Nevada.....	217	3,460	+2.8	106,872	+4.0	28	1,069	+5.3	33,320	+6.5
Pacific.....	9,427	481,510	+1.1	13,082,575	+2.8	2,531	271,155	+1.5	7,834,184	+4.1
Washington.....	3,101	105,809	+2.8	3,000,258	-6.3	572	60,688	+3.4	1,744,793	+9.2
Oregon.....	1,356	57,089	+3.8	1,549,710	+9.7	308	34,300	+6.0	930,042	+16.5
California.....	²¹ 4,970	<i>268,612</i>	<i>+1.1</i>	<i>8,533,607</i>	<i>+4.4</i>	²² 1,651	<i>176,167</i>	<i>+1.1</i>	<i>5,159,839</i>	<i>+6.6</i>

¹ Less than 1/10 of 1 percent.

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

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

⁴ Includes laundries.

⁵ Weighted percentage change.

⁶ Includes automobile and miscellaneous services, restaurants, and building and contracting.

⁷ Includes construction, but not public works.

⁸ Does not include logging.

⁹ Includes financial institutions, miscellaneous services, and restaurants.

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

¹¹ Includes business and personal service.

¹² Includes banks, insurance, and office employment.

INDUSTRIAL AND BUSINESS EMPLOYMENT AND PAY ROLLS IN PRINCIPAL CITIES

A comparison of June 1937 employment and pay rolls with the May totals in 13 cities of the United States having a population of 500,000 or over is made in table 8. The changes are computed from reports received from identical establishments in both months.

In addition to reports included in the several industrial groups regularly covered in the survey by the Bureau, reports have also been secured from establishments in other industries for inclusion in these city totals. As information concerning employment in building construction is not available for all cities at this time, figures for this industry have not been included in these city totals.

TABLE 8.—Comparison of Employment and Pay Rolls in Identical Establishments in May and June 1937, by Principal Cities

City	Number of establishments	Number on pay roll, June 1937	Percentage change from May 1937	Amount of pay roll (1 week), June 1937	Percentage change from May 1937
New York, N. Y.....	17,435	724,286	-1.6	\$20,054,416	-2.0
Chicago, Ill.....	4,473	482,160	-3.7	14,052,826	-3.2
Philadelphia, Pa.....	2,380	222,240	+2.0	6,025,956	+2.5
Detroit, Mich.....	1,658	409,517	-1.7	13,301,308	-6.1
Los Angeles, Calif.....	2,069	160,681	+3	4,518,709	+1.4
Cleveland, Ohio.....	1,769	145,103	-5.1	4,040,405	-7.0
St. Louis, Mo.....	1,578	143,124	+2.5	3,623,344	+3.7
Baltimore, Md.....	1,232	107,178	-1.0	2,746,296	-1.7
Boston, Mass.....	3,888	190,563	-1.2	4,814,449	-7
Pittsburgh, Pa.....	1,250	231,134	+4	6,987,413	+1.8
San Francisco, Calif.....	1,647	90,483	-5	2,717,048	+1.3
Buffalo, N. Y.....	899	74,667	+1.2	2,215,739	+1.0
Milwaukee, Wis.....	725	87,540	+2	2,494,586	+1.8

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.

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.

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 works to be carried out by 61 units of the Federal Government. The Works Program has been continued by title II of the First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936. 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.

The Civilian Conservation Corps created in April 1933 was further extended under authority of the Emergency Relief Appropriation Act of 1935. Since July 1, 1936, the Civilian Conservation Corps has been continued from appropriations authorized by the First Deficiency Appropriation Act of 1936.

With the following exceptions, statistics on public employment refer to the month ending on the 15th. Employment statistics for the Federal service and for the Civilian Conservation Corps refer to the number employed on the last day of the month; pay-roll data are for the entire month. Monthly employment and pay-roll data for projects operated by the Works Progress Administration from the beginning of the program to April 1937, inclusive, are for the month ending on the 15th. Beginning with May 1937, however, these data are presented on a calendar monthly basis. The value of material orders placed for projects operated by the Works Progress Administration is a cumulative total from the beginning of the program to the end of the current calendar month and is not available on a monthly basis. Employment and pay-roll statistics on National Youth Administration work projects and student aid are for the calendar month. Data on the value of material orders placed on work projects of the National Youth Administration are cumulative through the current calendar month.

EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment in the executive service of the Federal Government in June 1937, May 1937, and June 1936 are given in table 9.

TABLE 9.—Employees in the Executive Service of the U. S. Government, June 1937, May 1937, and June 1936 ¹

[Subject to revision]

Item	District of Columbia ²			Outside District of Columbia			Entire service ³		
	Per- manent	Tem- porary	Total	Per- manent	Tem- porary ⁴	Total	Per- manent	Tem- porary ⁴	Total
Number of employees:									
June 1937.....	108,934	6,814	115,748	625,041	101,214	726,255	733,975	108,028	842,003
May 1937.....	108,664	7,610	116,274	619,572	104,675	724,247	728,236	112,285	840,521
June 1936.....	107,902	9,557	117,459	602,340	102,653	705,193	710,442	112,210	822,652
Percentage change:									
May 1937 to June 1937.....	+0.25	-10.46	-0.45	+0.88	-3.31	+0.28	+0.79	-3.79	+0.18
June 1936 to June 1937.....	+ .96	-28.70	-1.46	+3.73	-1.40	+2.99	+3.31	-3.73	+2.35
Labor turn-over June 1937:									
Number of—									
Separations ⁵	1,538	822	2,360	10,610	19,645	30,255	12,148	20,467	32,615
Accessions ⁵	1,023	931	1,954	9,763	22,133	31,896	10,786	23,064	33,850
Turn-over rate per 100:									
Separation rate.....	1.41	11.40	2.03	1.70	19.08	4.17	1.66	18.58	3.88
Accession rate.....	.94	12.01	1.68	1.57	21.50	4.40	1.48	20.94	4.02

¹ Data on number of employees refer to employment on last day of month.² Includes employees of Columbia Institution for Deaf and Howard University.³ Not including field employees of Post Office Department, or 30,557 employees hired under letters of authorization by the Department of Agriculture, with a pay roll of \$1,345,451.⁴ Includes 217 employees by transfer, previously reported as separations, not actual additions for June.⁵ Not including employees transferred within the Government service, as such transfers should not be regarded as labor turn-over.

The monthly record of employment in the executive service of the United States Government from June 1936 to June 1937, inclusive, is shown in table 10.

TABLE 10.—Employment in the Executive Service of the U. S. Government, by Months, June 1936 through June 1937 ¹

[Subject to revision]

Month	District of Co- lumbia	Outside District of Co- lumbia	Total	Month	District of Co- lumbia	Outside District of Co- lumbia	Total
<i>1936</i>				<i>1937</i>			
June.....	117,459	705,193	822,652	January.....	116,259	713,924	830,183
July.....	110,250	712,557	822,807	February.....	116,259	710,462	826,721
August.....	115,796	716,579	832,375	March.....	116,535	713,647	830,182
September.....	115,050	718,990	834,040	April.....	116,755	718,884	835,639
October.....	114,783	724,361	839,144	May.....	116,274	724,247	840,521
November.....	115,174	722,088	837,272	June.....	115,748	726,255	842,003
December.....	116,345	712,962	829,307				

¹ Data on number of employees refer to employment on last day of month.

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 11, by type of project.

TABLE 11.—*Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, June 1937*¹

[Subject to revision]

Type of project	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ²	Weekly average				
Federal projects financed from N. I. R. A. funds						
All projects	³ 36,983	34,753	\$3,393,399	4,591,987	\$0.739	\$3,822,269
Building construction	5,229	4,354	445,844	493,830	.903	745,475
Naval vessels	8,829	8,472	1,167,293	1,437,040	.812	423,873
Public roads ⁴	(5)	11,651	591,710	1,184,350	.500	700,000
Reclamation	2,223	2,078	239,835	314,754	.762	557,389
River, harbor, and flood control	7,993	7,200	864,959	1,045,515	.827	1,329,496
Streets and roads	70	56	5,941	7,057	.842	8
Water and sewerage	306	247	13,178	25,802	.511	7,647
Miscellaneous	712	695	64,639	83,639	.773	58,381
Non-Federal projects financed from N. I. R. A. funds						
All projects	25,407	20,908	\$2,076,300	2,263,079	\$0.917	\$3,516,047
Building construction	11,501	9,481	931,339	937,084	.994	1,597,712
Railroad construction	327	324	7,428	11,613	.640	0
Streets and roads	2,707	2,146	213,099	252,787	.843	312,453
Water and sewerage	8,566	7,044	805,962	837,709	.962	1,301,841
Miscellaneous	2,306	1,913	118,472	223,886	.529	304,041
Projects financed from E. R. A. A. 1935 and 1936 funds ⁶						
All projects	141,708	118,527	\$10,960,950	13,655,399	\$0.803	\$18,813,454
Building construction ⁷	80,348	66,840	6,770,666	7,476,535	.906	10,780,916
Electrification	537	401	38,145	50,849	.750	104,443
Heavy engineering	4,364	3,710	394,040	454,991	.866	1,376,459
Reclamation	1,854	1,712	181,721	253,856	.716	273,430
River, harbor, and flood control	276	212	18,182	27,807	.654	7,911
Streets and roads	25,017	20,512	1,312,496	2,352,842	.558	2,570,888
Water and sewerage	27,490	23,524	2,091,974	2,859,944	.731	3,357,426
Miscellaneous	1,822	1,616	153,726	178,575	.861	341,981

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 Estimated by the Bureau of Public Roads.

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

⁶ These data are also included in separate tables covering projects financed by The Works Program.

⁷ Includes a maximum of 16,732 and an average of 14,384 employees working on low-cost housing projects financed from E. R. A. A. 1935 funds who were paid \$1,887,143 for 1,903,342 man-hours of labor. Material orders in the amount of \$2,193,199 were placed for these projects. These data are also included in separate tables covering projects financed from The Works Program.

Federal construction projects for which data are included in tables 11 and 12 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, or the First Deficiency Appropriation Act of 1936. 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 or the First Deficiency Appropriation Act of 1936 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.

MONTHLY TREND

A summary of employment, pay rolls, and man-hours worked on projects financed from Public Works Administration funds from July 1933 to June 1937, inclusive, is given in table 12.

TABLE 12.—Employment and Pay Rolls, July 1933 to June 1937, Inclusive, on Projects Financed From Public Works Administration Funds ¹

[Subject to revision]

Year and month	Maximum number of wage earners ²	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
July 1933 to June 1937, inclusive ^{3 4}	-----	\$944,943,582	1,405,757,992	\$0.672	\$1,677,582,241
July to December 1933, inclusive	-----	33,244,066	62,209,479	.534	75,524,702
January to December 1934, inclusive	-----	308,311,143	523,561,666	.589	\$ 611,051,090
January to December 1935, inclusive ^{3 4}	-----	270,505,555	392,066,554	.690	\$ 439,210,679
January to December 1936, inclusive ^{3 4}	-----	242,768,950	316,606,182	.767	\$ 401,065,634
<i>1937</i>					
January ^{3 4}	202,175	15,430,981	18,768,676	.823	26,922,308
February ^{3 4}	174,990	13,796,390	16,580,393	.832	19,390,733
March ^{3 4}	173,574	13,353,904	16,341,250	.817	20,652,435
April ^{3 4}	192,201	15,242,390	19,068,352	.799	25,885,173
May ³	206,019	15,850,554	19,984,975	.793	31,727,717
June ³	204,098	16,430,469	20,510,465	.801	26,151,770

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. Includes weekly average for public-roads projects.

³ Includes employees working on non-Federal projects financed from E. R. A. A. 1935 and 1936

funds and low-cost housing projects financed from E. R. A. A. 1935 funds. These data are also included in separate tables covering projects financed by The Works Program.

⁴ Revised.

⁵ Includes orders placed by railroads for new equipment.

THE WORKS PROGRAM

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

TABLE 13.—Employment and Pay Rolls on Projects Financed by The Works Program, June 1937 ¹

[Subject to revision]

Type of project	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ²	Weekly average				
	Federal projects					
All projects.....	284, 803	253, 839	\$14, 794, 640	28, 754, 978	\$0. 515	\$8, 608, 759
Building construction.....	44, 437	40, 154	3, 000, 709	4, 385, 843	.684	588, 356
Electrification.....	2, 524	2, 289	116, 990	245, 576	.476	203, 983
Forestry.....	28, 164	26, 007	1, 049, 577	2, 561, 540	.410	488, 276
Grade-crossing elimination.....	20, 290	24, 960	1, 809, 654	2, 825, 854	.640	2, 102, 131
Hydroelectric power plants ³	1, 832	1, 832	24, 532	92, 124	.266	14, 224
Plant, crop, and livestock conservation.....	30, 508	23, 280	1, 045, 046	3, 033, 920	.344	43, 157
Professional, technical, and clerical.....	11, 225	11, 220	948, 948	1, 360, 865	.697	104, 112
Public roads.....	20, 110	23, 461	1, 443, 771	2, 734, 031	.528	1, 704, 688
Reclamation.....	64, 397	62, 421	3, 633, 436	7, 321, 246	.496	2, 787, 586
River, harbor, and flood control.....	7, 512	6, 812	665, 303	917, 852	.725	235, 357
Streets and roads.....	12, 808	11, 739	364, 742	1, 212, 232	.301	30, 325
Water and sewerage.....	1, 596	1, 536	53, 926	145, 456	.371	44, 267
Miscellaneous.....	21, 490	18, 128	638, 006	1, 917, 839	.333	253, 297

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 These data are for projects under construction in Puerto Rico.

TABLE 13.—Employment and Pay Rolls on Projects Financed by The Works Program, June 1937—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				
P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds ⁴						
All projects.....	141, 708	118, 527	\$10, 960, 950	13, 655, 399	\$0. 803	\$18, 813, 454
Building construction.....	80, 348	66, 840	6, 770, 666	7, 476, 535	. 906	10, 780, 916
Electrification.....	537	401	38, 145	50, 849	. 750	104, 443
Heavy engineering.....	4, 364	3, 710	394, 040	454, 961	. 866	1, 376, 459
Reclamation.....	1, 854	1, 712	181, 721	253, 856	. 716	273, 430
River, harbor, and flood control.....	276	212	18, 182	27, 807	. 654	7, 911
Streets and roads.....	25, 017	20, 512	1, 312, 496	2, 352, 842	. 558	2, 570, 888
Water and sewerage.....	27, 490	23, 524	2, 091, 974	2, 859, 944	. 731	3, 357, 426
Miscellaneous.....	1, 822	1, 616	153, 726	178, 575	. 861	341, 981
Projects operated by Works Progress Administration ⁵						
All projects.....	2, 020, 273		\$107,046,653	205, 099, 566	\$0. 520	(⁶)
Conservation.....	83, 101		4, 027, 922	8, 210, 536	. 491	
Highway, road, and street.....	721, 331		33, 361, 636	71, 786, 539	. 465	
Housing.....	3, 514		229, 189	371, 129	. 618	
Professional, technical, and clerical.....	233, 550		17, 176, 277	25, 544, 018	. 672	
Public building.....	189, 274		11, 704, 114	17, 756, 907	. 659	
Publicly owned or operated utilities.....	186, 304		10, 223, 554	18, 931, 517	. 540	
Recreational facilities ⁷	176, 747		10, 305, 992	17, 314, 952	. 595	
Sanitation and health.....	55, 704		2, 477, 986	5, 730, 167	. 432	
Sewing, canning, gardening, etc.....	260, 418		11, 542, 966	28, 494, 842	. 405	
Transportation.....	40, 131		2, 171, 154	3, 919, 894	. 554	
Not elsewhere classified.....	70, 199		3, 825, 863	7, 633, 065	. 501	

⁴ Includes data for 124,976 employees working on non-Federal projects and 16,732 employees working on low-cost housing projects. These data are included in separate tables covering projects under the jurisdiction of P. W. A.

⁵ Data are for the calendar month.

⁶ Data on a monthly basis are not available.

⁷ Exclusive of buildings.

Statistics on employment, pay rolls, and man-hours worked on National Youth Administration work projects and student aid in June are shown in table 14, by type of project.

TABLE 14.—Employment and Pay Rolls on National Youth Administration and Student-Aid Projects Financed by The Works Program, June 1937 ¹

[Subject to revision]

Type of program	Number of persons employed	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
Total.....	410, 932	\$4, 714, 660	13, 642, 607	\$0. 346	-----
Work projects.....	170, 472	2, 862, 654	7, 664, 197	. 374	(²)
Student aid.....	240, 460	1, 852, 006	5, 978, 410	. 310	(³)

¹ These data are for a calendar month.

² Data are not available on a monthly basis.

³ No expenditures for materials on this type of project.

MONTHLY TREND

Employment, pay rolls, and man-hours worked on projects financed by The Works Program from the beginning of the program in July 1935 to June 1937, inclusive, are given in table 15.

TABLE 15.—*Employment and Pay Rolls July 1935 to June 1937, Inclusive, on Projects Financed by The Works Program*¹

[Subject to revision]

Month and year	Maximum number employed ²	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Federal projects					
July 1935 to June 1937, inclusive.....	-----	\$346,401,968	740,656,830	\$0.464	\$221,813,471
July to December 1935 ³	-----	34,813,554	77,558,683	.449	33,975,806
January to December 1936.....	-----	228,024,201	501,501,344	.455	142,937,728
<i>1937</i>					
January.....	328,867	15,652,964	32,064,351	.488	7,595,246
February.....	267,525	13,024,133	27,260,313	.478	6,874,851
March.....	249,690	12,504,895	25,666,281	.487	7,356,372
April.....	254,524	13,432,725	26,680,307	.503	6,901,508
May.....	266,686	14,154,856	27,170,573	.521	7,563,201
June.....	284,893	14,794,640	28,754,978	.515	8,608,759
P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds⁴					
July 1935 to June 1937, inclusive.....	-----	\$164,478,727	214,223,381	\$0.768	\$317,679,814
July to December 1935.....	-----	1,089,510	1,657,968	.657	2,061,700
January to December 1936.....	-----	106,441,300	142,082,051	.749	212,853,501
<i>1937</i>					
January.....	131,153	9,346,663	11,390,883	.821	16,361,268
February.....	115,214	8,428,606	10,212,726	.825	13,543,480
March.....	113,930	8,254,306	10,147,405	.813	14,486,389
April.....	129,887	9,618,255	12,027,623	.800	18,563,586
May.....	139,561	10,339,137	13,049,326	.792	20,996,436
June.....	141,708	10,960,950	13,655,399	.803	18,813,454
Projects operated by Works Progress Administration⁵					
August 1935 to June 1937, inclusive.....	-----	\$2,497,828,777	5,308,202,678	\$0.471	\$744,017,372
August to December 1935.....	-----	174,699,862	414,672,261	.421	-----
January to December 1936.....	-----	1,583,352,239	3,449,241,880	.459	-----
<i>1937</i>					
January.....	2,132,861	118,612,830	231,218,557	.513	-----
February.....	2,125,742	115,544,451	225,300,018	.513	-----
March.....	2,104,938	114,688,415	226,101,290	.507	-----
April.....	2,100,965	115,802,897	227,991,069	.508	-----
May.....	2,133,340	112,262,434	217,590,559	.516	-----
June.....	2,020,273	107,046,653	205,699,566	.520	-----

¹ Unless otherwise noted data are for 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 Revised.

⁴ These data are included in tables covering projects under the jurisdiction of the Public Works Administration. The data for June include 124,976 employees working on non-Federal projects and 16,732 employees working on low-cost housing projects.

⁵ These data exclude both work projects and student-aid projects of the National Youth Administration which appear in a separate table. Monthly data from the beginning of the program through Apr. 15, 1937, are for the month ending on the 15th, and commencing with May 1937, for the calendar month. Data for the period Apr. 16 through Apr. 30, 1937, showing \$53,818,996 in pay-roll disbursements and 110,387,478 man-hours are included only in the grand total.

⁶ Data on a monthly basis are not available. Includes rentals and services.

Table 16 shows the employment, pay rolls, and man-hours worked on work projects of the National Youth Administration from January 1936 to June 1937, inclusive. Similar data for student-aid projects are shown from September 1935 to June 1937, inclusive.

TABLE 16.—Employment and Pay Rolls From Beginning of Program Through June 1937, Inclusive, on National Youth Administration and Student-Aid Projects Financed by The Works Program ¹

[Subject to revision]

Month and year	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 1937, inclusive.....		\$47,509,426	125,996,942	\$0.377	* \$2,876,615
January to December 1936.....		28,822,196	75,659,914	.381	
1937					
January.....	184,686	3,084,561	8,212,091	.376	
February.....	189,228	3,239,694	8,731,727	.371	
March.....	191,569	3,224,944	8,724,840	.370	
April.....	191,982	3,181,627	8,662,278	.367	
May.....	184,173	3,093,750	8,341,895	.371	
June.....	170,472	2,862,654	7,664,197	.374	
Student aid					
September 1935 to June 1937, inclusive.....		\$50,228,575	166,661,526	\$0.301	(³)
September to December 1935.....		6,363,503	19,612,976	.324	
January to December 1936.....		25,722,951	84,897,409	.303	
1937					
January.....	412,316	2,943,731	10,142,349	.290	
February.....	417,470	3,161,000	10,948,189	.289	
March.....	435,619	3,290,723	11,384,181	.289	
April.....	434,744	3,302,100	11,443,240	.289	
May.....	418,362	3,591,961	12,254,712	.293	
June.....	240,400	1,852,006	5,978,410	.310	

¹ These data are for a calendar month.

² These data are not available on a monthly basis.

³ No expenditures for materials on this type of project.

CIVILIAN CONSERVATION CORPS

Statistics concerning employment and pay rolls in the Civilian Conservation Corps in May and June 1937 are presented in table 17. Emergency conservation work 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, the Treasury Department, and the Department of the Interior. The monthly pay of the enrolled personnel is distributed as follows: 5.0 percent are paid \$45; 8.0 percent, \$36; and the remaining 87.0 percent, \$30. The enrolled men, in addition to their pay, are provided with board, clothing, and medical services.

TABLE 17.—Employment and Pay Rolls in the Civilian Conservation Corps, May and June 1937 ¹

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	June	May	June	May
All groups.....	323, 626	348, 905	\$16, 085, 832	\$16, 719, 019
Enrolled personnel ²	270, 635	297, 442	8, 422, 730	9, 248, 261
Reserve officers.....	7, 333	7, 365	1, 819, 998	1, 891, 477
Educational advisers ³	1, 917	2, 011	322, 815	322, 845
Supervisory and technical ⁴	⁵ 43, 741	⁶ 42, 087	⁷ 5, 520, 289	⁸ 5, 256, 436

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

² June data include 2,937 enrollees and pay roll of \$62,519 outside continental United States; May, 3,435 enrollees and pay roll of \$66,425.

³ Included in executive service, tables 9 and 10.

⁴ Includes carpenters, electricians, and laborers.

⁵ 41,329 employees and pay roll of \$5,281,018 also included in executive service, tables 9 and 10.

⁶ 39,919 employees and pay roll of \$5,047,208 also included in executive service, tables 9 and 10.

Monthly statistics of employment and pay rolls on the Civilian Conservation Corps from June 1936 to June 1937, inclusive, are given in table 18.

TABLE 18.—Employment and Pay Rolls in the Civilian Conservation Corps, by Months, June 1936 Through June 1937 ¹

[Subject to revision]

Month	Number of employees	Monthly pay-roll disbursements	Month	Number of employees	Monthly pay-roll disbursements
<i>1936</i>			<i>1937</i>		
June.....	381, 305	\$17, 633, 925	January.....	407, 723	\$18, 650, 537
July.....	402, 368	18, 064, 882	February.....	394, 521	18, 314, 594
August.....	381, 425	17, 475, 592	March.....	307, 337	15, 770, 090
September.....	318, 707	16, 005, 247	April.....	369, 309	17, 502, 905
October.....	402, 669	17, 292, 812	May.....	348, 905	16, 719, 019
November.....	389, 122	18, 232, 391	June.....	323, 626	16, 085, 832
December.....	374, 744	17, 738, 965			

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

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 19, by type of project.

A monthly summary of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation from June 1936 to June 1937, inclusive, is given in table 20.

TABLE 19.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, June 1937 ¹

[Subject to revision]

Type of project	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.....	4,898	\$690,822	823,541	\$0.839	\$835,382
Building construction ³	265	17,573	40,023	.439	22,412
Water and sewerage.....	4,499	657,494	762,787	.862	810,550
Miscellaneous.....	134	15,755	20,731	.760	2,420

¹ Data are for the month ending on the 15th.² Maximum number employed during any 1 week of the month by each contractor.³ Includes 59 employees; pay-roll disbursements of \$3,325; 8,171 man-hours worked; and material orders placed during the month amounting to \$3,433 on projects financed by RFC Mortgage Co.**TABLE 20.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, June 1936 Through June 1937 ¹**

[Subject to revision]

Month	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
<i>1936</i>					
June.....	8,501	\$941,680	1,252,193	\$0.752	\$2,527,262
July.....	9,845	1,063,728	1,436,201	.741	2,050,370
August.....	9,658	1,065,744	1,441,791	.739	1,314,692
September.....	10,290	1,085,642	1,510,109	.719	1,420,444
October.....	8,864	1,002,648	1,347,317	.744	1,298,643
November.....	9,611	1,108,258	1,502,460	.738	3,008,077
December.....	9,189	1,106,816	1,514,355	.731	1,433,075
<i>1937</i>					
January.....	8,232	968,077	1,300,989	.744	2,329,944
February.....	7,290	864,776	1,150,721	.752	1,018,058
March.....	7,696	929,032	1,191,077	.779	1,138,460
April.....	8,226	1,041,280	1,295,053	.804	1,023,599
May.....	8,847	790,018	967,273	.817	902,762
June.....	4,898	690,822	823,541	.839	835,382

¹ Includes projects financed by RFC Mortgage Co. Data are for month ending on the 15th.² Maximum number employed during any 1 week of the month.**CONSTRUCTION PROJECTS FINANCED FROM REGULAR GOVERNMENTAL APPROPRIATIONS**

Whenever 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 following tables present 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 governmental 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 governmental appropriations during June are given in table 21, by type of project.

TABLE 21.—*Employment on Construction Projects Financed From Regular Governmental Appropriations, by Type of Project, June 1937*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.....	\$ 177, 265	169, 172	\$16, 980, 060	24, 532, 459	\$0. 692	\$19, 574, 535
Building construction.....	15, 362	12, 386	1, 310, 996	1, 528, 131	.858	1, 858, 933
Electrification.....	1, 267	1, 104	72, 006	130, 157	.553	703, 938
Forestry.....	83	73	6, 086	11, 337	.537	3, 278
Naval vessels.....	39, 511	38, 859	5, 481, 332	6, 318, 381	.868	5, 988, 440
Public roads.....	(9)	73, 881	5, 323, 981	9, 665, 742	.551	6, 298, 333
Reclamation.....	10, 943	10, 545	1, 308, 314	1, 711, 944	.764	831, 462
River, harbor, and flood control.....	31, 360	27, 995	3, 152, 818	4, 644, 076	.679	2, 869, 809
Streets and roads.....	1, 950	1, 841	111, 546	237, 783	.470	127, 260
Water and sewerage.....	79	61	5, 217	8, 284	.630	49, 182
Miscellaneous.....	2, 829	2, 427	207, 764	276, 624	.751	843, 900

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 Estimated by the Bureau of Public Roads.

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

Employment, pay rolls, and man-hours worked on construction projects financed from regular governmental appropriations from June 1936 to June 1937, inclusive, are shown by months in table 22.

TABLE 22.—*Employment on Construction Projects Financed From Regular Governmental Appropriations, June 1936 Through June 1937*¹

[Subject to revision]

Month	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
<i>1936</i>					
June.....	109, 056	\$9, 438, 391	14, 658, 624	\$0. 644	\$13, 285, 515
July.....	146, 265	14, 286, 923	21, 624, 176	.661	27, 631, 349
August.....	165, 870	15, 341, 364	23, 151, 796	.663	19, 288, 486
September.....	166, 902	14, 846, 961	22, 475, 820	.661	22, 164, 997
October.....	175, 071	16, 931, 017	25, 505, 296	.664	20, 357, 778
November.....	152, 513	13, 766, 630	20, 375, 741	.676	16, 370, 640
December.....	144, 274	13, 491, 223	19, 164, 694	.704	16, 009, 255
<i>1937</i>					
January.....	119, 853	11, 857, 007	16, 506, 278	.718	11, 729, 532
February.....	112, 770	10, 904, 648	14, 735, 028	.740	13, 613, 251
March.....	120, 175	11, 847, 783	16, 280, 905	.728	12, 820, 438
April.....	132, 639	13, 855, 633	19, 545, 518	.709	15, 572, 168
May.....	160, 346	15, 278, 529	21, 858, 124	.699	18, 508, 278
June.....	177, 265	16, 980, 060	24, 532, 459	.692	19, 574, 535

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.

STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements in the construction and maintenance of State roads from June 1936 to June 1937, inclusive, is presented in table 23.

TABLE 23.—Employment on Construction and Maintenance of State Roads, June 1936 Through June 1937 ¹

[Subject to revision]

Month	Number of employees working on 2—			Total pay roll
	New roads	Maintenance	Total	
1936				
June.....	20, 773	165, 363	186, 136	\$11, 488, 253
July.....	21, 744	164, 956	186, 700	11, 839, 215
August.....	26, 810	158, 882	185, 692	11, 937, 585
September.....	34, 459	151, 772	186, 231	11, 806, 481
October.....	34, 136	149, 717	183, 853	11, 566, 892
November.....	27, 988	153, 688	181, 676	11, 330, 509
December.....	21, 394	138, 540	159, 934	10, 000, 371
1937				
January.....	15, 622	117, 576	133, 198	8, 387, 864
February.....	11, 706	120, 786	132, 492	8, 560, 561
March.....	11, 802	119, 046	130, 848	8, 333, 600
April.....	13, 164	124, 761	137, 925	9, 108, 030
May.....	17, 241	159, 167	176, 408	10, 850, 394
June.....	19, 382	148, 392	167, 774	11, 069, 510

¹ Excluding employment furnished by projects financed from Public Works Administration and Works Progress Administration funds. Data are for the month ending on the 15th.

² Monthly average.

MATERIAL ORDERS PLACED

The value of material orders placed on construction projects financed by Federal funds in the second quarter of 1937 ¹ is presented in table 24.

In the second quarter of 1937 on the Public Works Administration program, orders have been placed for materials valued at approximately \$83,765,000. Of this amount, \$25,643,000 has been expended for iron and steel products, \$6,402,000 for cement, \$5,719,000 for forest products, and \$12,305,000 for machinery.

On projects operated by the Works Progress Administration, material orders placed in the second quarter of 1937 amounted to \$56,267,000. 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.

It is estimated that in fabricating the materials listed in table 24 approximately 744,000 man-months of labor have been, or will be

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

created. This includes 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 material or in transporting it 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.

TABLE 24.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for Second Quarter, 1937 ¹

[Subject to revision]

Type of material	Total	Projects				
		Public Works Administration ²	Reconstruction Finance Corporation ³	Regular governmental ⁴	Federal construction under The Works Program	Operated by W. P. A. ⁵
All materials.....	\$219,904,623	\$83,764,660	\$2,761,743	\$53,654,981	\$22,793,575	\$56,929,664
Textiles and their products.....	\$ 3,548,804	352,152	-----	79,543	25,909	\$ 3,091,200
Awnings, tents, canvas, etc.....	19,573	3,641	-----	12,617	3,315	-----
Carpets and rugs.....	7,415	7,404	-----	-----	11	-----
Cordage and twine.....	25,987	5,248	-----	15,169	5,570	-----
Cotton goods.....	6,868	2,485	-----	4,151	232	-----
Felt goods.....	7,532	6,046	-----	198	1,288	-----
Fute goods.....	6,765	4,030	-----	1,374	1,361	-----
Linoleum.....	301,288	286,828	-----	2,331	12,129	-----
Sacks and bags.....	70,873	31,754	-----	38,678	441	-----
Upholstering materials, n. e. c.....	6,189	4,507	-----	1,630	52	-----
Waste.....	5,114	209	-----	3,395	1,510	-----
Forest products.....	\$ 16,400,551	5,718,936	81,990	2,173,456	2,072,657	\$ 6,353,512
Cork products.....	54,331	45,783	76	5,685	2,787	-----
Lumber and timber products, n. e. c.....	7,465,455	3,873,013	69,514	1,729,589	1,793,339	-----
Planing-mill products.....	2,484,769	1,769,428	12,400	426,546	276,395	-----
Window and door screens and weatherstrip.....	42,484	30,712	-----	11,636	136	-----
Chemicals and allied products.....	\$ 3,652,269	772,703	55,631	393,615	558,079	\$ 1,872,241
Ammunition and related products.....	6,476	6,476	-----	-----	-----	-----
Chemicals, miscellaneous.....	67,010	18,261	87	12,448	36,214	-----
Compressed and liquified gases.....	53,079	21,903	7,602	16,632	36,852	-----
Explosives.....	742,283	279,731	46,191	200,324	216,037	-----
Paints and varnishes.....	1,960,237	446,332	1,601	104,211	268,976	1,079,057
Stone, clay, and glass products.....	\$ 61,800,259	23,220,960	1,110,179	12,941,252	5,910,741	\$ 18,617,127
Asbestos products, n. e. c.....	31,567	18,911	-----	9,287	3,369	-----
Brick, hollow tile, and other clay products.....	7,713,403	4,581,450	1,723	433,092	243,776	2,453,362
Cement.....	20,364,091	6,402,394	943,590	5,394,733	2,757,584	4,865,790
Concrete products.....	7,868,339	4,265,352	1,213	290,725	649,424	2,661,625
Crushed stone.....	6,429,297	935,535	378	1,923,511	619,546	2,950,327
Glass.....	510,329	415,714	74	58,369	30,172	-----
Lime.....	58,662	51,855	40	3,975	2,792	-----

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

²Includes material orders placed on P. W. A. projects financed by the Emergency Relief Appropriation Acts of 1935 and 1936.

³Does not include material orders placed on projects for which contracts were awarded before Mar. 15, 1934. Includes projects financed by RFC Mortgage Co.

⁴Does not include material orders placed on projects for which contracts were awarded before July 1, 1934.

⁵Includes material orders placed to June 30, 1937. Includes National Youth Administration projects.

⁶Includes material orders placed for projects operated by W. P. A. which are not classified in detail.

TABLE 24.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for Second Quarter, 1937—Continued

Type of material	Total	Projects				
		Public Works Administration	Reconstruction Finance Corporation	Regular governmental	Federal construction under The Works Program	Operated by W. P. A.
Stone, clay, and glass products—Con. Marble, granite, slate, and other stone products.....	\$3, 118, 732	\$1, 666, 255	\$360	\$1, 282, 427	\$169, 690	-----
Minerals and earths, ground or otherwise treated.....	9, 429	8, 049	-----	1, 376	4	-----
Sand and gravel.....	11, 286, 198	3, 327, 753	158, 599	3, 202, 487	1, 290, 364	\$3, 306, 993
Tiling, floor and wall, and terrazzo.....	732, 112	522, 178	2, 230	148, 889	58, 815	-----
Wall plaster, wall board, insulating board, and floor composition.....	1, 299, 070	1, 025, 512	1, 972	192, 381	79, 205	-----
Iron and steel and their products, not including machinery.....	\$ 52, 830, 601	25, 643, 287	760, 104	9, 236, 810	6, 513, 374	\$10, 677, 026
Bolts, nuts, washers, etc.....	498, 333	222, 189	3, 691	185, 368	87, 085	-----
Cast-iron pipe and fittings.....	7, 578, 788	3, 467, 823	16, 897	322, 053	270, 545	\$ 3, 492, 470
Doors, shutters and window sash and frames, molding, and trim (metal).....	2, 282, 370	1, 619, 045	-----	606, 223	57, 102	-----
Forgings, iron and steel.....	862, 853	229, 388	-----	543, 994	89, 471	-----
Hardware, miscellaneous.....	2, 060, 844	1, 178, 016	100, 124	391, 777	390, 927	-----
Heating and ventilating equipment.....	5, 019, 184	3, 819, 637	3, 281	497, 815	105, 974	592, 477
Nails and spikes.....	271, 860	133, 869	1, 081	36, 830	100, 080	-----
Rail fastenings, excluding spikes.....	20, 822	15, 318	-----	5, 327	177	-----
Rails, steel.....	193, 204	151, 469	765	40, 970	-----	-----
Springs, steel.....	242	216	-----	-----	26	-----
Steel-works and rolling-mill products, n. e. c.....	7, 092, 994	3, 837, 661	157, 781	1, 880, 006	1, 217, 546	-----
Stoves and ranges, other than electric.....	383, 664	383, 544	100	-----	20	-----
Structural and reinforcing steel.....	20, 569, 212	9, 573, 045	468, 000	4, 057, 838	3, 709, 637	\$ 2, 760, 692
Tools, other than machine tools.....	1, 130, 750	71, 637	25	136, 804	166, 302	755, 982
Wire products, n. e. c.....	1, 176, 683	410, 555	7, 529	457, 347	301, 252	-----
Wrought pipe.....	613, 393	529, 875	830	74, 458	8, 230	-----
Nonferrous metals and their products.....	\$ 1, 981, 218	944, 707	320	511, 123	196, 116	\$ 328, 952
Aluminum manufactures.....	127, 017	23, 073	-----	103, 897	47	-----
Copper products.....	143, 731	110, 007	122	30, 468	3, 134	-----
Lead products.....	78, 970	43, 949	-----	34, 530	491	-----
Nonferrous-metal alloys and products, n. e. c.....	468, 869	174, 381	-----	288, 400	6, 088	-----
Sheet-metal work.....	833, 224	593, 297	198	53, 402	186, 327	-----
Zinc products.....	455	-----	-----	426	29	-----
Machinery, not including transportation equipment.....	\$ 35, 340, 739	12, 304, 759	516, 237	17, 470, 229	2, 439, 366	\$ 2, 610, 148
Electrical machinery, apparatus, and supplies.....	10, 625, 020	4, 035, 861	235, 471	4, 259, 346	629, 175	1, 465, 167
Elevators and elevator equipment.....	913, 014	495, 496	32	361, 761	55, 725	-----
Engines, turbines, tractors, and waterwheels.....	6, 468, 219	1, 180, 932	10, 490	4, 975, 712	301, 085	-----
Foundry and machine-shop products, n. e. c.....	13, 217, 497	4, 090, 668	268, 069	6, 505, 215	1, 265, 037	1, 079, 458
Machine tools.....	502, 327	190, 006	1, 596	262, 113	48, 612	-----
Meters (gas, water, etc.) and gas generators.....	91, 144	89, 807	-----	562	775	-----
Pumps and pumping equipment.....	2, 050, 950	840, 541	549	1, 072, 973	136, 887	-----
Refrigerators and refrigerating and ice-making apparatus.....	1, 407, 045	1, 372, 448	-----	32, 547	2, 050	-----
Transportation equipment, air, land and water.....	1, 259, 142	210, 239	500	749, 566	270, 594	28, 243
Aircraft (new).....	832, 793	122, 941	-----	709, 852	-----	-----
Boats, steel and wooden (small).....	6, 716	5, 400	-----	463	853	-----
Carriages and wagons.....	2, 140	754	-----	352	1, 034	-----
Locomotives, other than steam.....	11, 800	11, 800	-----	-----	-----	-----
Motor vehicles, passenger.....	21, 178	718	-----	4, 153	16, 307	-----
Motor vehicles, trucks.....	384, 515	68, 626	500	34, 746	252, 400	28, 243

* Includes material orders placed for projects operated by W. P. A. which are not classified in detail.

TABLE 24.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for Second Quarter, 1937—Continued*

Type of material	Total	Projects				
		Public Works Administration	Reconstruction Finance Corporation	Regular governmental	Federal construction under The Works Program	Operated by W. P. A.
Miscellaneous.....	\$43,091,040	\$14,596,917	\$236,782	\$10,099,387	\$4,806,739	\$13,351,215
Belting, miscellaneous.....	466	136	-----	33	297	-----
Coal.....	378,556	25,588	-----	102,171	46,241	204,556
Creosote.....	1,243	325	-----	-----	918	-----
Electric wiring and fixtures.....	5,416,486	3,167,332	10,601	1,675,161	563,392	-----
Furniture, including store and office fixtures.....	2,839,141	1,963,836	-----	116,924	5,488	752,893
Instruments, professional and scientific.....	105,529	13,617	-----	91,678	234	-----
Mattresses and bedsprings.....	7,075	6,811	-----	264	-----	-----
Models and patterns.....	2,144	2,052	-----	92	-----	-----
Paper products.....	10,287	7,727	73	1,515	972	-----
Paving materials and mixtures, n. e. c.....	7,976,927	980,544	-----	755,055	512,927	5,728,401
Petroleum products.....	6,404,084	1,447,497	109,100	2,303,947	1,163,053	1,380,487
Photographic apparatus and materials.....	28,394	13,527	-----	13,846	1,021	-----
Plumbing supplies, n. e. c.....	4,098,314	2,580,612	3,442	448,239	391,065	674,956
Radio apparatus and supplies.....	26,522	3,600	-----	22,922	-----	-----
Roofing materials, n. e. c.....	869,681	667,591	951	73,568	127,571	-----
Rubber goods.....	261,513	34,406	33,882	12,050	46,250	134,925
Steam and other packing, pipe and boiler covering, and gaskets.....	265,552	204,273	180	58,421	2,678	-----
Theatrical scenery and stage equipment.....	97,787	97,787	-----	-----	-----	-----
Window shades and fixtures.....	68,723	64,131	-----	595	3,997	-----
Other materials.....	14,232,616	3,315,525	78,553	4,422,906	1,940,635	4,474,997

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 for 1933.

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 1937, the first quarter of 1937, and the second quarter of 1936 is shown in table 25.

TABLE 25.—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 1937	First quarter of 1937	Second quarter of 1936
Total.....	\$279, 893	\$290, 884	\$419, 501
Computing machines.....	8, 000	2, 450	14, 219
Furniture.....	14, 641	6, 502	20, 035
Office supplies.....	49, 984	53, 158	54, 364
Stationery.....	11, 004	7, 938	8, 580
Typewriters.....	1, 289	7, 553	6, 260
Other office machines.....	4, 695	17, 651	6, 090
Other materials.....	119, 614	103, 612	201, 134
Rental of machinery and equipment.....	70, 606	92, 020	111, 819

A cumulative total for rentals and services on projects operated by the Works Progress Administration from July 1935 to December 1936, inclusive, for the first quarter of 1937, and for the second quarter of 1937 is shown in table 26, by type of rental and service.

TABLE 26.—Rentals and Services on Projects Operated by the Works Progress Administration

[Subject to revision]

Type of rental and service	July 1935 through December 1936	First quarter of 1937 ¹	Second quarter of 1937 ²
All rentals and services.....	\$212, 105, 768	\$46, 150, 914	\$39, 128, 795
Buses and autos.....	2, 660, 632	742, 342	565, 237
Teams and wagons.....	15, 660, 403	2, 202, 463	1, 313, 122
Trucks and vans.....	115, 957, 483	22, 734, 107	18, 160, 926
Paving, road building, and construction equipment.....	54, 855, 178	13, 532, 815	11, 723, 627
Other equipment (including office equipment).....	5, 844, 830	685, 243	836, 416
Space rentals and services.....	5, 812, 968	2, 043, 446	2, 359, 897
Other services (including utilities).....	11, 314, 268	4, 210, 498	4, 169, 570

¹ Quarterly period ending Mar. 31, 1937.

² Quarterly period ending June 30, 1937.

In connection with the administration of the Walsh-Healy Act the Bureau of Labor Statistics has been collecting data on supply contracts awarded by Federal agencies of the United States for the manufacture or furnishing of materials, supplies, articles, and equipment in any amount exceeding \$10,000.

Table 27 shows the cumulative total value of public contracts awarded under the act for materials from September 28, 1936, to December 1936, inclusive, for the first quarter of 1937, and for the second quarter of 1937. The first public contracts were awarded under the act in September 1936.

TABLE 27.—Value of Supply Contracts Awarded by Federal Government Which Contain Agreements to Comply With Public Contracts Act, by Industrial Groups and Type of Material

[Subject to revision]

Type of materials	Value of contracts awarded		
	Sept. 28, 1936, through Dec. 31, 1936 ¹	First quarter of 1937 ¹	Second quarter of 1937
All materials.....	\$39,975,952	\$76,377,704	\$81,133,508
Food and kindred products.....	1,425,903	4,066,107	2,876,354
Canned fruits and vegetables.....	74,377	265,654	298,549
Cereal preparations.....	12,860	26,826	11,682
Coffee.....	92,103	633,803	383,056
Condensed and evaporated milk.....	60,313	329,639	619,898
Feeds, prepared, for animals and fowls.....	178,897	392,322	181,161
Flour and other grain-mill products.....	238,930	197,533	291,746
Meat-packing products.....	331,905	367,443	167,541
Shortenings and vegetable cooking oil.....	205,364	98,855	---
Sugar.....	130,514	428,790	385,122
Tea.....	16,421	---	---
Miscellaneous subsistence stores and supplies.....	84,219	1,327,242	537,599
Textiles and their products.....	6,501,319	34,127,602	10,999,856
Canvas bags and covers.....	68,811	286,697	195,576
Clothing (overcoats, suits, trousers, etc.).....	47,500	1,188,794	335,040
Cordage and twine, including thread.....	30,940	182,853	493,858
Cotton gloves.....	9,909	243,516	267,403
Cotton goods (drills, prints, sheeting, etc.).....	4,205,292	4,503,608	3,951,835
Cotton shirts.....	312,758	420,241	236,045
Furnishing goods, men's, n. e. c.....	1,007,447	367,584	404,297
Housefurnishing goods (pillow cases, sheets, etc.).....	301,435	1,031,418	369,572
Knit goods (hosiery, underwear, etc.).....	34,350	1,942,308	2,678,756
Oilcloth.....	10,350	---	---
Woolen goods (flannels, suiting, etc.).....	330,544	21,208,221	745,290
Work clothing.....	95,345	1,972,042	745,562
Miscellaneous textile products.....	46,548	780,320	576,613
Forest products.....	809,202	822,271	2,156,581
Cork and cork products.....	15,873	---	30,658
Furniture.....	36,460	47,378	1,122,601
Lumber and timber products, n. e. c.....	392,096	462,912	525,192
Planing-mill products.....	181,729	165,638	161,226
Treated lumber and timber.....	183,044	130,297	228,186
Miscellaneous forest products.....	---	16,046	88,718
Paper and allied products.....	2,312,464	410,195	5,637,666
Blueprint paper.....	11,209	---	---
Ledger paper.....	62,321	---	---
Paper towels.....	18,872	---	---
Miscellaneous paper products.....	2,220,062	410,195	5,637,666
Chemicals and allied products.....	992,535	1,190,072	2,536,943
Ammunition and related products.....	60,971	37,044	590,857
Compressed and liquefied gases.....	---	32,080	234,503
Explosives.....	498,585	114,105	413,529
Fertilizer.....	57,567	---	---
Linseed oil.....	52,663	122,134	88,226
Paints and varnishes.....	67,135	205,427	172,128
Soap and soap chips.....	74,644	327,215	23,683
Miscellaneous chemicals.....	180,970	358,067	1,014,017
Products of asphalt, coal, and petroleum.....	11,396,619	5,096,152	19,835,108
Asphalt, oil, tar, and mixtures.....	1,545,987	517,000	2,247,464
Coal.....	29,746	24,659	530,686
Coke.....	11,335	---	---
Fuel oil.....	5,123,845	1,701,792	8,841,740
Gasoline.....	4,660,206	2,816,525	6,098,708
Lubricating oils and greases.....	---	13,967	1,735,211
Miscellaneous coal and petroleum products.....	25,500	21,000	381,299

¹ Revised.

TABLE 27.—*Value of Supply Contracts Awarded by Federal Government Which Contain Agreements to Comply With Public Contracts Act, by Industrial Groups and Type of Material—Continued*

Type of materials	Value of contracts awarded		
	Sept. 28, 1930, through Dec. 31, 1936	First quarter of 1937	Second quarter of 1937
Leather and its manufactures	\$1, 237, 698	\$3, 105, 231	\$1, 640, 989
Belting, leather.....	15, 203	—	—
Boots and shoes.....	1, 026, 186	2, 939, 380	1, 267, 538
Boot and shoe cut stock.....	—	15, 077	—
Boot and shoe findings.....	26, 106	—	26, 106
Gloves.....	38, 882	38, 319	185, 798
Shoe upper-leather.....	90, 325	112, 455	—
Miscellaneous leather goods.....	41, 026	—	161, 547
Stone, clay, and glass products	3, 205, 890	2, 284, 895	4, 199, 907
Brick.....	115, 883	45, 500	101, 189
Cement.....	855, 820	1, 034, 984	2, 184, 417
Concrete pipe.....	517, 767	231, 921	113, 865
Concrete, ready mixed.....	220, 697	240, 093	296, 630
Crushed stone.....	444, 669	149, 628	518, 384
Dirt fill.....	40, 000	—	75, 425
Fire-clay products.....	—	—	79, 346
Glass.....	72, 315	16, 397	51, 557
Granite and marble.....	56, 001	15, 119	61, 546
Minerals and earths.....	13, 662	—	—
Riprap stone.....	75, 900	59, 480	—
Sand and gravel.....	173, 759	124, 731	441, 344
Soil, black earth.....	448, 900	63, 384	75, 783
Terra cotta.....	103, 490	—	16, 866
Tile, clay.....	16, 155	59, 896	10, 801
Tile, drain.....	11, 711	19, 010	—
Vitrified clay and terra cotta pipe.....	39, 161	85, 366	22, 778
Miscellaneous stone, clay, and glass products.....	—	139, 386	149, 976
Iron and steel and their products, not including machinery	2, 799, 740	4, 362, 305	3, 965, 305
Cast-iron pipe and fittings.....	179, 712	220, 453	65, 720
Fencing materials.....	60, 879	10, 472	38, 382
Firearms and parts.....	—	—	114, 525
Forgings, iron and steel.....	114, 209	809, 125	69, 740
Hardware, miscellaneous.....	11, 701	72, 769	—
Metal doors, sash, and frames.....	11, 270	44, 559	23, 494
Metal furniture.....	153, 430	115, 156	591, 396
Metal shingles and roofing.....	29, 750	—	91, 816
Ornamental metalwork.....	17, 600	—	—
Pipe and fittings.....	73, 668	—	62, 178
Plumbing fixtures.....	35, 325	—	77, 478
Rails, steel.....	114, 564	—	—
Railway tie plates.....	20, 690	—	10, 320
Reinforcing bars.....	164, 069	110, 123	654, 065
Safes.....	—	—	96, 124
Steel pipe.....	290, 096	35, 670	78, 744
Steel sheets, plates, shapes, and strips.....	180, 935	1, 089, 124	170, 519
Structural steel, fabricated, and sheet-steel piling.....	536, 301	734, 695	593, 413
Tools, other than machine tools.....	148, 191	42, 986	26, 868
Wire rope.....	111, 436	339, 978	154, 285
Miscellaneous iron and steel products.....	545, 914	737, 195	1, 046, 238
Nonferrous metals and their alloys	370, 063	1, 720, 297	1, 329, 510
Aluminum manufactures.....	90, 773	87, 700	611, 983
Brass products.....	—	191, 887	167, 052
Bronze products.....	80, 250	15, 270	17, 027
Copper products.....	61, 320	577, 239	211, 215
Lead, sheet.....	—	12, 874	—
Magnesium.....	—	23, 892	—
Nickel.....	50, 250	—	—
Plated ware.....	—	28, 130	28, 047
Sheet-metal work.....	12, 803	54, 978	104, 222
Tin.....	—	311, 558	94, 204
Zinc.....	—	12, 348	—
Miscellaneous nonferrous metals and alloys.....	74, 667	404, 421	95, 760

TABLE 27.—Value of Supply Contracts Awarded by Federal Government Which Contain Agreements to Comply With Public Contracts Act, by Industrial Groups and Type of Material—Continued

Type of materials	Value of contracts awarded .		
	Sept. 28, 1936, through Dec. 31, 1936	First quarter of 1937	Second quarter of 1937
Machinery not including transportation equipment and electrical equipment.....	\$1,572,719	\$6,199,174	\$6,616,197
Air-conditioning equipment.....	18,800	57,500	1,729,740
Engines, turbines, tractors, and parts.....	607,085	792,741	23,492
Filter-room equipment.....	39,331	.....	15,358
Laundry machinery and equipment.....	37,977	61,265	360,151
Machine tools.....	145,839	472,348	.....
Phonographs and accessories.....	.....	16,000	.....
Power shovels and draglines.....	54,055	476,045	277,216
Printing machinery.....	.....	69,081	.....
Pumps and pumping equipment.....	397,577	849,662	304,847
Refrigerators.....	.....	35,355	81,071
Road machinery.....	26,640	57,324	87,809
Windlasses, hawsers, etc.....	136,615	43,708	219,685
Miscellaneous machinery and parts.....	108,800	3,268,145	3,516,828
Electrical machinery, apparatus, and supplies.....	2,358,605	5,028,626	5,463,134
Batteries.....	39,933	1,043,031	.....
Cable and insulated wire.....	607,040	1,885,982	1,339,825
Circuit breakers.....	41,336	.....	54,486
Electric dynamometer.....	13,105	.....	.....
Electric motors.....	25,020	11,694	57,813
Electric heaters and ranges.....	39,078	108,021	65,705
Electric starters.....	40,998	.....	56,289
Electric valves.....	11,585	.....	.....
Electric welding equipment.....	115,102	.....	35,594
Generators and spare parts.....	1,009,473	299,684	274,521
Lighting equipment.....	182,063	372,116	1,155,377
Radio equipment and supplies.....	82,287	852,197	1,048,467
Spark plugs.....	12,000	99,336	165,630
Switchboards.....	11,467	41,550	187,907
Transformers.....	96,727	41,206	131,827
Transmitters, shaft, master indicators.....	18,895	.....	.....
Miscellaneous electrical machinery, apparatus, and supplies.....	12,496	271,809	889,693
Transportation equipment.....	3,399,060	5,966,334	10,128,868
Aircraft.....	785,519	.....	4,857,913
Aircraft parts and equipment.....	2,388,813	3,457,059	3,323,170
Boats (life boats).....	.....	39,359	.....
Dump wagons.....	14,450	.....	.....
Motor vehicles, passenger.....	100,242	575,673	369,053
Motor vehicles, trucks.....	97,411	1,806,225	1,511,403
Miscellaneous transportation equipment.....	12,625	.....	67,329
Miscellaneous.....	1,594,135	1,904,443	3,747,090
Brooms, brushes, bristles, etc.....	127,536	220,155	102,919
Cafeteria equipment.....	18,633	.....	.....
Dental goods and equipment.....	.....	52,082	39,214
Instruments, professional and scientific.....	726,726	417,893	1,655,272
Laboratory equipment.....	16,263	.....	.....
Linoleum.....	.....	.....	67,236
Oyster shell.....	31,150	.....	24,165
Photographic apparatus and materials.....	33,000	184,192	305,567
Printing and publishing and subscriptions.....	396,825	273,741	.....
Rubber products.....	41,529	364,046	335,294
Slag.....	87,675	.....	22,623
Steam and other packing, pipe and boiler covering.....	.....	.....	400,458
Tobacco manufactures.....	.....	.....	134,756
Other materials.....	114,798	482,334	659,586

The value of public contracts awarded for materials by Federal agencies totaled \$81,134,000 during the second quarter of 1937. Of the contracts awarded in the second quarter of 1937, \$19,835,000 was for products of asphalt, coal, and petroleum; \$11,000,000, for textiles and textile products; \$6,616,000, for machinery, not including transportation and electrical equipment; and \$10,129,000, for transportation equipment.

