

Serial No. R. 648

UNITED STATES DEPARTMENT OF LABOR

Frances Perkins, *Secretary*

BUREAU OF LABOR STATISTICS

Isador Lubin, *Commissioner*



EMPLOYMENT AND PAY ROLLS

Prepared by

DIVISION OF EMPLOYMENT STATISTICS

Lewis E. Talbert, *Chief*

and

DIVISION OF CONSTRUCTION AND

PUBLIC EMPLOYMENT

Herman B. Byer, *Chief*

SEPTEMBER 1937

UNITED STATES GOVERNMENT PRINTING OFFICE · WASHINGTON 1937

CONTENTS

	Page
Summary of employment reports for September 1937:	
Industrial and business employment.....	1
Public employment.....	5
Detailed reports for September 1937:	
Industrial and business employment... ..	8
Public employment.....	23

Tables

TABLE 1.—All manufacturing industries combined and nonmanufacturing industries—employment, pay rolls, and weekly earnings, September 1937.....	4
TABLE 2.—Federal employment and pay rolls—summary, September 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, third quarter of 1937, second quarter of 1937, and third quarter of 1936.....	8
TABLE 4.—Manufacturing and nonmanufacturing industries—employment, pay rolls, hours, and earnings, September 1937.....	10
TABLE 5.—Manufacturing and nonmanufacturing industries—employment, pay rolls, hours, and earnings, June through August 1937.....	14
TABLE 6.—All manufacturing industries combined and the durable- and nondurable-goods groups—indexes of employment and pay rolls, January 1936 to September 1937.....	18
TABLE 7.—Selected nonmanufacturing industries—indexes of employment and pay rolls, January 1936 to September 1937.....	20
TABLE 8.—Geographic divisions and States—comparison of employment and pay rolls in identical establishments in August and September 1937.....	22
TABLE 9.—Principal cities—comparison of employment and pay rolls in identical establishments in August and September 1937....	23
TABLE 10.—Executive service of the Federal Government—employment and pay rolls in August and September 1937.....	24
TABLE 11.—Executive service of the Federal Government—monthly record of employment from September 1936 to September 1937, inclusive.....	25
TABLE 12.—Construction projects financed by Public Works Administration funds—employment, pay rolls, and man-hours worked, September 1937, by type of project.....	26
TABLE 13.—Construction projects financed by Public Works Administration funds—summary of employment, pay rolls, and man-hours worked, from July 1933 to September 1937, inclusive..	27

	Page
TABLE 14.—Projects financed by The Works Program—employment, pay rolls, and man-hours worked, September 1937, by type of project.....	28
TABLE 15.—National Youth Administration work projects and Student Aid projects financed by The Works Program—employment, pay rolls, and man-hours worked, September 1937....	29
TABLE 16.—Projects financed by The Works Program—employment, pay rolls, and man-hours worked from the beginning of the program in July 1935 to September 1937, inclusive.....	30
TABLE 17.—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 September 1937, inclusive.....	31
TABLE 18.—Civilian Conservation Corps—employment and pay rolls, August and September 1937.....	32
TABLE 19.—Civilian Conservation Corps—employment and pay rolls, from September 1936 to September 1937, inclusive.....	32
TABLE 20.—Construction projects financed by the Reconstruction Finance Corporation—employment, pay rolls, and man-hours worked, September 1937, by type of project.....	33
TABLE 21.—Construction projects financed by the Reconstruction Finance Corporation—summary of employment, pay rolls, and man-hours worked, from September 1936 to September 1937, inclusive.....	33
TABLE 22.—Construction projects financed from regular Federal appropriations—employment, pay rolls, and man-hours worked, September 1937, by type of project.....	34
TABLE 23.—Construction projects financed from regular Federal appropriations—employment, pay rolls, and man-hours worked, from September 1936 to September 1937, inclusive.....	35
TABLE 24.—Construction and maintenance of State roads—employment and pay roll disbursements, from September 1936 to September 1937, inclusive.....	35
TABLE 25.—Value of material orders placed on construction projects financed by Federal funds, third quarter of 1937, by type of material.....	37
TABLE 26.—Value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, third quarter of 1937, second quarter of 1937, and third quarter of 1936.....	39
TABLE 27.—Rentals and services on projects operated by the Works Progress Administration from July 1935 to December 1936, and first, second, and third quarters of 1937.....	39
TABLE 28.—Rentals and services on work projects of the National Youth Administration from January 1936 to June 1937 and third quarter of 1937.....	39
TABLE 29.—Value of public contracts awarded for materials from September 28, 1936, through December 1936, and first, second, and third quarters of 1937.....	40

Employment and Pay Rolls

SUMMARY OF REPORTS FOR SEPTEMBER 1937

MORE THAN 190,000 additional workers found employment between August and September in the manufacturing and nonmanufacturing industries surveyed by the Bureau of Labor Statistics, primarily because of seasonal increases in wholesale and retail trade. Aggregate weekly pay rolls, however, were approximately \$6,200,000 lower than in the preceding month, due chiefly to the decrease in factory wage disbursements, which had been adversely affected by shut-downs for Labor Day and other holidays.

Comparisons with September 1936 showed a gain of more than 930,000 workers in these industries over the year interval, and an increase of approximately \$55,200,000 in weekly pay rolls.

Class I railroads again reported fewer employees on their pay rolls. According to a preliminary tabulation by the Interstate Commerce Commission they had 1,120,883 employees in September, exclusive of executives, officials, and staff assistants, a decrease of 29,506 since August.

Employment in the judicial and legislative services of the Federal Government was slightly greater in September than in August. There were small decreases in employment, on the other hand, in the executive and military services. Employment on construction projects financed by regular Federal appropriations registered a small increase, while decreases occurred on projects financed by the Public Works Administration, the Reconstruction Finance Corporation, Federal projects under The Works Program, and projects operated by the Works Progress Administration. There was a decrease in the employment level of the Civilian Conservation Corps, due to the end of an enlistment period.

Industrial and Business Employment

Although there was a decline from August to September of about 18,000 workers in manufacturing and 8,000 in 6 of the 16 nonmanufacturing industries surveyed, the gains in the remaining nonmanufacturing industries covered resulted in a net increase of more than 190,000 workers for manufacturing and nonmanufacturing combined.

The employment loss in manufacturing industries represented a decrease of 0.2 percent over the month interval, while the drop of

approximately \$7,500,000 in weekly factory wages represented a decline of 3.6 percent. The decrease was sharper in pay rolls than in employment largely because of shut-downs for Labor Day. During the 18-year period, 1919 to 1936, inclusive, for which data are available, factory employment has shown gains in September in 16 years and factory pay rolls have shown increases in 11 years.

Despite the declines in September of this year, the September factory employment index (102.1) has been exceeded, since November 1929, only in April, May, and August of this year, while the corresponding pay-roll index (100.1) was higher than for any month from December 1929 through February 1937.

Gains in factory employment from August to September were shown in 51 of the 89 manufacturing industries surveyed, and increased pay rolls were reported in 40 industries. Increased activity reflecting seasonal expansion resulted in pronounced employment gains in cottonseed oil, cake, and meal (122.4 percent), beet sugar (28.5 percent), confectionery (16.5 percent), fertilizer (15.6 percent), canning and preserving (12.1 percent), and millinery (7.2 percent). In the last four industries, gains from August to September have generally been somewhat greater than they were this year. Other industries in which substantial seasonal gains in employment were shown were lighting equipment (7.2 percent), jewelry (5.3 percent), women's clothing (4.1 percent), silverware and plated ware (4.2 percent), hardware (3.1 percent), clocks, watches, and time-recording devices (2.7 percent), and radios and phonographs (2.4 percent). The gains in jewelry and women's clothing were less than seasonal. Employment in the agricultural implement industry increased 4.4 percent continuing the expansion which, with the exception of occasional seasonal recessions, has been shown in this industry since the latter months of 1932. The September 1937 employment level for this industry (147.2) stands above the level of all months from 1923 to date, with the exception of the first 7 months of 1929. In ship-building, there was a gain of 3.7 percent in employment. Among the industries of major importance in which less pronounced gains were shown were newspapers and periodicals, book and job printing, machine tools, engines-turbines-tractors, glass, baking, knit goods, and electrical machinery, apparatus, and supplies. The increase of 2.0 percent in machine tools is noteworthy, not only because the industry may be considered a barometer for orders placed for power-driven metal-cutting machinery, but also because, with two exceptions, consecutive gains have been shown each month since October 1934. The employment index for this industry has climbed from a low of 33.4 in April 1933 to the September level of 157.6, this level exceeding those of all months from 1923 to date, with the exception of 11 months of 1929.

Seasonal slackening of operations accounted in large measure for the decreases in employment in woolen and worsted goods (10.1 percent), ice cream (8.5 percent), boots and shoes (4.6 percent), beverages (3.2 percent), and butter (2.8 percent). Temporary shut-downs for change in models resulted in a decrease of 5.2 percent in the automobile industry. Other industries showing large declines were sugar refining (12.7 percent), tin cans and other tinware (3.3 percent), fur-felt hats (3.6 percent), electric- and steam-car building (5.7 percent), and cast-iron pipe (3.9 percent). The decreases in the two last-named industries resulted primarily from labor disputes. Other industries which employ large numbers of workers and in which employment decreased over the month interval were blast furnaces, steel works, and rolling mills; foundries and machine shops; steam-railroad repair shops; saw-mills; furniture; cotton goods; silk and rayon goods; and men's clothing.

Among the 10 nonmanufacturing industries in which employment gains were shown over the month interval, were a number in which the expansion was of a seasonal nature. Approximately 173,000 additional workers found employment in the retail-trade establishments of the country between August and September, the gain of 5.1 percent reflecting a seasonal expansion to handle increased volume of fall purchasing. The September 1937 employment index for retail trade (90.6) stands above the September level of any year since 1930. In addition to a gain of 10.5 percent in employment in the retail general merchandising group (department, variety, and general merchandising stores and mail-order houses), retail apparel stores reported a seasonal gain of 20.5 percent, and substantial increases were reported by retail furniture, jewelry, and wood-coal-ice firms. Wholesale-trade establishments also expanded their working forces in September, the seasonal increase of 1.4 percent in employment indicating the reemployment of approximately 19,000 workers. Employment in this industry in September reached the highest level registered since October 1930. Among the more important lines of wholesale trade in which gains were reported over the month interval were dry goods and apparel, chemicals, drugs and allied products, furniture and house-furnishings, groceries, machinery equipment and supplies, metals and minerals, petroleum and petroleum products, and paper and paper products.

With the approach of colder weather, anthracite and bituminous-coal mines took on additional workers in September, anthracite mines reporting a gain of 17.1 percent, or approximately 10,000 workers between August and September, and bituminous-coal mines, a gain of 2.1 percent, or 7,800 workers. Employment was also greater in metal mines, the gain of 0.8 percent continuing the rise which has been evidenced each month since July 1935 with but two exceptions. Employ-

ment in this industry in September has reached a level which is nearly three times as great as the low point recorded in August 1932. Dyeing and cleaning plants reported a seasonal gain of 2.1 percent, or 1,000 workers, and year-round hotels also reported a seasonal rise, 1.5 percent, or 3,800 employees. Among the nonmanufacturing industries in which declines in employment were reported, the largest decreases were 1.2 percent in crude-petroleum producing and 1.9 percent in brokerage. Employment in the private building-construction industry declined 0.7 percent while laundries and quarries and non-metallic mines reported seasonal losses of 0.5 percent and 0.4 percent, respectively. Insurance companies reported a slight decrease (0.2 percent) in number of workers over the month interval.

TABLE 1.—*Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, September 1937 (Preliminary Figures)*

Industry	Employment			Pay rolls			Average weekly earnings		
	Index Sep- tember 1937	Percentage change from—		Index Sep- tember 1937	Percentage change from—		Average in Sep- tember 1937	Percentage change from—	
		Aug- ust 1937	Sep- tember 1936		Aug- ust 1937	Sep- tember 1936		Aug- ust 1937	Sep- tember 1936
All manufacturing industries combined ¹	(1923-25=100) 102.1	-0.2	+6.9	(1923-25=100) 100.1	-3.6	+19.7	\$24.92	-3.4	+12.0
Class I steam railroads ²	63.4 (1929=100)	-2.6	+2.8	(³) (1929=100)	(³)	(³)	(³)	(³)	(³)
Coal mining:	48.2	+17.1	+1.2	31.5	+15.5	-9.8	18.99	-1.4	-10.9
Anthracite.....	80.5	+2.1	+3.0	77.7	+5.3	+9.4	24.37	+3.1	+6.2
Bituminous.....	84.1	+8	+33.2	82.2	-9	+64.5	31.22	-1.7	+23.5
Metalliferous mining.....	54.7	-4	-4	50.1	-5.8	+12.0	22.86	-5.4	+12.4
Quarrying and nonmetallic mining.....	78.3	-1.2	+5.1	71.2	+6	+17.9	33.41	+1.8	+12.1
Crude-petroleum producing.....	78.3	-1.2	+5.1	71.2	+6	+17.9	33.41	+1.8	+12.1
Public utilities:	80.1	+3	+8.7	93.1	+1.0	+18.1	31.81	+7	+8.6
Telephone and telegraph.....	98.5	+2	+5.3	103.8	+1.2	+13.5	34.04	+1.0	+7.8
Electric light and power and manufactured gas.....	73.7	+4	+1.2	71.6	-2.2	+7.7	31.70	-2.5	+6.5
Electric-railroad and motor-bus operation and maintenance.....	93.0	+1.4	+5.7	78.3	-9	+11.1	30.60	-2.3	+5.0
Trade:	90.6	+5.1	+4.6	74.5	+3.0	+11.9	22.36	-2.0	+6.9
Wholesale.....	103.6	+10.5	+5.2	92.6	+8.0	+11.8	19.37	-2.2	+6.3
Retail.....	87.2	+3.6	+4.4	70.7	+1.7	+11.7	24.71	-1.8	+7.0
General merchandising.....	88.1	+1.5	+4.6	76.1	+2.3	+12.7	15.00	+8	+7.8
Other than general merchandising.....	93.7	-5	+4.6	84.4	-1.9	+10.2	16.84	-1.3	+5.4
Hotels (year-round) ⁴	86.7	+2.1	(⁵)	72.8	+5.5	+10.2	20.61	+3.4	+10.2
Laundries.....	(³)	-1.9	-1.4	(³)	-2.5	+2.4	38.77	-6	+3.8
Dyeing and cleaning.....	(³)	-2	+1.5	(³)	-2.4	+4.3	38.59	-2.2	+2.8
Brokerage.....	(³)	-7	+6.3	(³)	-2.2	+23.2	31.76	-1.5	+16.0
Insurance.....	(³)	-7	+6.3	(³)	-2.2	+23.2	31.76	-1.5	+16.0
Building construction.....	(³)	-7	+6.3	(³)	-2.2	+23.2	31.76	-1.5	+16.0

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.

⁵ Less than 1/10 of 1 percent.

A reduction in the number of workers on pay rolls was again reported by class I railroads. According to a preliminary tabulation by the Interstate Commerce Commission, 1,120,883 workers were employed, exclusive of executives, officials, and staff assistants, in Sep-

tember as against 1,150,389 in August, a decrease of 2.6 percent. Pay-roll figures were not available for September at the time this report was prepared. For August, the wage payments totaled \$169,-379,107, while for July they amounted to \$164,047,159, a gain of 3.3 percent over the month interval.

Hours and earnings.—Factory wage earners worked 37.4 hours per week in September according to reports covering full- and part-time workers combined. This represented a decline of 3.4 percent since August. The average hourly earnings of these workers stood at the same level as in August (65.8 cents) and average weekly earnings (\$24.92) showed a decline of 3.4 percent over the month interval. Compared with September of last year, average hours worked per week were 3.6 percent lower in the current period, but average hourly earnings were 15.9 percent higher, and average weekly earnings were 12.0 percent higher.

Of the 14 nonmanufacturing industries for which man-hour data are available, 5 showed gains over the month interval in average hours worked per week and 6 showed increases in average hourly earnings. Average weekly earnings were higher for 6 of the 16 nonmanufacturing industries covered.

Table I presents a summary of employment and pay-roll indexes and average weekly earnings in September 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 data are not available.

Public Employment

Employment on construction projects financed from Public Works Administration funds was 167,000 in September, a decrease of 21,000 or 11.1 percent compared with August. Decreases occurred in the number of workers employed on Federal and non-Federal projects financed from funds provided by the National Industrial Recovery Act and on projects financed from funds provided by the Emergency Relief Appropriation Acts of 1935 and 1936. Pay-roll disbursements for the month amounted to \$14,309,000.

The number of workers employed on construction projects financed from regular Federal appropriations totaled 207,000 in September. This was an increase of more than 2,000 compared with August. Increases in employment occurred on all types of projects with the exception of forestry, public roads, streets and roads, and miscellaneous projects. For these four types of projects the level of employment was somewhat lower than in the preceding month. Pay-roll disbursements totaling \$21,668,000 were \$2,096,000 greater than in August.

There was a decrease in the number of workers employed on projects financed by the Reconstruction Finance Corporation. During the month over 3,000 employees were working on this program. Small increases on building construction and miscellaneous projects were offset by a marked decrease in employment on water and sewerage projects. Pay rolls on all types of projects totaled \$448,000 for the month, \$137,000 less than in the preceding month.

The number of wage earners on projects financed by The Works Program during September was 1,892,000, a decrease of 49,000 or 2.5 percent compared with August. Of this total, 193,000 were working on Federal projects, 1,536,000 on projects operated by the Works Progress Administration, and 163,000 on work projects of the National Youth Administration and Student Aid. Pay-roll disbursements for all projects totaled \$95,110,000.

In the regular agencies of the Federal Government small increases were reported in the judicial and legislative services. Decreases, on the other hand, occurred in the executive and military services. Of the 836,000 employees in the executive service in September, 112,000 were working in the District of Columbia and 724,000 outside the District. Approximately 91.4 percent of the total number of employees in the executive service were paid from regular appropriations and 8.6 percent from emergency funds. The most pronounced increases in the number of workers in the executive departments of the Federal Government occurred in the War Department and the Tennessee Valley Authority. Among the departments reporting decreases were the Department of the Interior, the Department of Agriculture, the Department of Labor, and the Works Progress Administration.

Employment in the Civilian Conservation Corps reached the lowest level of the year (289,000) in September. This was a decrease of more than 38,000 compared with August and was due to the end of an enlistment period. Decreases were registered for all groups of workers. Pay rolls for all workers amounted to \$14,943,000, a decrease of \$1,437,000.

In September 194,000 were working on the construction and maintenance of roads financed wholly from State funds, a gain of 5,000 compared with the preceding month. There was an increase of 7,000 in the number employed on maintenance work and a decrease of 2,000 on new construction. Of the total number employed, 13.8 percent were engaged on new road construction and 86.2 percent on maintenance work. Pay rolls for the month totaled in excess of \$12,843,000.

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

TABLE 2.—Summary of Federal Employment and Pay Rolls, September 1937¹

[Preliminary figures]

Class	Employment		Per-centage change	Pay rolls		Per-centage change
	September	August		September	August	
Federal services:						
Executive ²	836,173	³ 843,082	-0.8	\$125,897,930	³ \$126,541,673	-0.5
Judicial.....	1,908	1,904	+2	504,220	479,696	+5.1
Legislative.....	5,273	5,233	+8	1,215,658	1,209,429	+5.5
Military.....	323,292	325,091	-6	25,284,004	25,424,025	-6
Construction projects:						
Financed by P. W. A. ⁴	166,958	187,822	-11.1	14,309,249	15,426,466	-7.2
Financed by R. F. C. ⁵	3,215	4,065	-20.9	448,114	585,510	-23.5
Financed by regular Federal appropriations.....	206,663	204,174	+1.2	21,667,700	19,571,849	+10.7
Federal projects under The Works Program.....	193,114	207,331	-6.9	11,500,978	12,004,981	-4.2
Projects operated by W. P. A.....	1,536,029	1,601,054	-4.1	81,250,907	82,861,644	-1.9
National Youth Administration:						
Work projects.....	126,700	132,787	-4.6	2,207,000	2,342,172	-5.8
Student Aid.....	36,000	⁶ 17	(⁶)	151,000	⁶ 81	(⁶)
Relief work: Civilian Conservation Corps.....	289,167	327,381	-11.7	14,942,683	³ 16,380,024	-8.8

¹ Includes data on projects financed wholly or partially from Federal funds.² Includes 108,171 employees and pay-roll disbursements of \$13,625,065 for September; 109,204 employees and pay-roll disbursements of \$13,770,563 for August covering force-account and supervisory and technical employees shown under other classifications.³ Revised.⁴ 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. In-

cludes 114,803 wage earners and \$9,309,180 pay roll for September; 131,547 wage earners and \$10,183,970 pay roll for August covering P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds.

⁵ Includes 130 employees and pay-roll disbursements of \$13,509 for September and 32 employees and pay-roll disbursements of \$2,409 for August on projects financed by the RFC Mortgage Co.⁶ August employment and pay-roll figures on Student Aid projects were low due to the summer vacation period.

The value of material orders placed on projects financed wholly or partially from Federal funds during the third quarter of 1937 amounted to \$282,959,000. It is estimated that approximately 662,000 man-months of labor were created in the final fabrication of these materials. The estimate is based upon the findings of the Census of Manufactures for 1935. For estimates previously published the 1933 census figures were used. Data have now been revised on the new basis. In the corresponding quarter of 1936 the value of material orders placed amounted to \$299,357,000, and 824,000 man-months of labor were created in final fabrication. During the second quarter of 1937 material orders valued at \$259,313,000 were placed and 616,000 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 third quarter of 1937, the second quarter of 1937, and the third quarter of 1936, and the man-months of employment created in the final fabrication of the material 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

[Subject to revision]

Program	Value of material orders placed			Man-months of labor created in final fabrication		
	Third quarter of 1937	Second quarter of 1937	Third quarter of 1936	Third quarter of 1937	Second quarter of 1937	Third quarter of 1936
Total.....	\$282,958,568	\$259,313,311	\$299,357,319	662,236	616,469	824,219
Public Works Administration ¹	74,186,957	83,764,660	116,830,781	209,868	236,116	334,744
Reconstruction Finance Corporation ²	3,048,560	2,761,743	5,565,391	7,459	6,457	11,786
Regular Federal appropriations ²	86,144,157	53,654,981	65,314,386	215,997	139,441	162,880
Federal projects under The Works Program						
Construction.....	19,375,780	22,793,575	42,079,294	51,726	60,738	110,531
Professional, technical, and clerical.....	161,265	279,893	406,929	507	876	1,241
Projects operated by W. P. A.....	57,303,258	56,266,574	68,979,861	174,480	170,828	202,507
Rentals and services on projects operated by W. P. A.....	41,632,998	39,128,795	(⁴)	(⁴)	(⁴)	(⁴)
National Youth Administration:						
Work projects.....	722,146	663,090	180,677	2,199	2,013	530
Rentals and services on work projects..	383,447	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)

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 March 15, 1934.

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

⁴ Data not available.



DETAILED REPORTS FOR SEPTEMBER 1937

Industrial and Business Employment

MONTHLY REPORTS on employment and pay rolls in industrial and business industries are available for the following groups: 89 manufacturing industries; 16 nonmanufacturing industries, including private building construction; and class I steam railroads. The reports for the first two of these groups—manufacturing and nonmanufacturing—are based on sample surveys by the Bureau of Labor Statistics, and in virtually all industries the samples are large enough to be entirely representative. The figures on class I steam railroads are compiled by the Interstate Commerce Commission and are presented in the foregoing summary.

EMPLOYMENT, PAY ROLLS, HOURS, AND EARNINGS

The indexes of employment and pay rolls, average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in September 1937 are shown in table 4. Percentage changes from August 1937 and September 1936 are also given.

Indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings for June, July, and August 1937 are presented in table 5. These

figures may differ in some instances from those previously published because of revisions necessitated by the inclusion of late reports and other causes.

Average weekly earnings shown in tables 4 and 5 are computed by dividing the total weekly pay rolls in the reporting establishments by the total number of full and part-time employees reported. As all reporting establishments do not supply man-hour data, average hours worked per week and average hourly earnings are necessarily based on data supplied by a smaller number of reporting firms. The size and composition of the reporting sample varies slightly from month to month and therefore the average hours per week, average hourly earnings, and average weekly earnings shown in the two following tables are not strictly comparable from month to month. The sample, however, is believed to be sufficiently adequate in virtually all instances to indicate the general movements of earnings and hours over the period shown.

TABLE 4.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, September 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 Sep- tember 1937	Percentage change from—		Index Sep- tember 1937	Percentage change from—		Sep- tember 1937	Percentage change from—		Sep- tember 1937	Percentage change from—		Sep- tember 1937	Percentage change from—	
		August 1937	Sep- tember 1936		August 1937	Sep- tember 1936		August 1937	Sep- tember 1936		August 1937	Sep- tember 1936		August 1937	Sep- tember 1936
All manufacturing industries	102.1	-0.2	+6.9	100.1	-3.6	+19.7	\$24.92	-3.4	+12.0	37.4	-3.4	-3.6	Cents 65.8	0	+15.9
Durable goods.....	97.3	-8	+13.5	99.4	-4.4	+28.8	28.18	-3.6	+13.4	38.6	-3.9	-4.2	72.4	+2	+18.1
Nondurable goods.....	107.3	+4	+1.3	100.9	-2.5	+10.2	21.30	-2.9	+8.7	36.1	-2.8	-3.4	59.0	-1	+12.2
<i>Durable goods</i>															
Iron and steel and their products, not including ma-															
chinery	108.8	+1	+11.9	112.9	-6.2	+29.6	29.37	-6.3	+15.8	37.8	-5.4	-7.1	76.8	-8	+23.6
Blast furnaces, steel works, and rolling mills.....	121.4	-(?)	+13.2	129.7	-8.9	+32.7	31.65	-8.8	+17.3	37.5	-7.4	-8.8	84.2	-1.7	+27.5
Bolts, nuts, washers, and rivets.....	87.5	+9	+14.1	96.9	-3.8	+25.2	25.21	-4.6	+9.8	37.6	-5.1	-5.7	67.3	+2	+16.3
Cast-iron pipe.....	64.9	-3.9	-1.4	48.9	-8.7	+9.0	20.15	-5.0	+10.6	35.1	-5.6	-5.5	56.7	+4	+15.3
Cutlery (not including silver and plated cut-															
lery) and edge tools.....	89.9	+8	+13.2	86.7	+2.0	+24.6	24.32	+1.2	+10.2	40.7	-3	-2.4	61.0	+1.5	+12.3
Forgings, iron and steel.....	73.0	+1.6	+23.2	69.6	+3.7	+47.0	29.23	+2.1	+19.4	39.7	-3	+5.0	73.9	+2.5	+13.9
Hardware.....	92.6	+3.1	+24.1	101.4	-2.3	+41.9	24.58	-5.2	+14.3	36.5	-5.0	-6.7	67.2	-4	+22.9
Plumbers' supplies.....	94.5	+1.0	+12.7	72.7	-5.0	+22.0	24.57	-5.9	+8.3	37.2	-6.3	-4.9	65.9	+3	+14.0
Steam and hot-water heating apparatus and															
steam fittings.....	77.4	+1.3	+7.4	72.2	+8	+23.5	26.97	-6	+15.0	38.7	-1.5	-4.2	69.7	+7	+20.0
Stoves.....	113.4	+7	+1.0	97.8	+9	+3.5	25.37	+2	+2.4	28.9	-1.0	-6.1	65.3	+8	+8.5
Structural and ornamental metalwork.....	82.3	+1.1	+9.3	83.9	-1.0	+27.2	28.69	-2.0	+16.5	40.7	-2.3	-2.0	70.6	+2	+19.0
Tin cans and other tinware.....	114.0	-3.3	+2.2	122.9	-4.6	+9.3	23.97	-1.4	+6.9	39.7	-3.3	-5.1	60.8	+2.7	+13.9
Tools (not including edge tools, machine tools,															
files, and saws).....	98.4	-2.0	+15.7	103.6	-2.9	+26.3	24.54	-9	+9.1	39.7	-1.3	-4.1	61.6	+4	+13.7
Wirework.....	170.3	-6	+14.0	166.8	+3.8	+45.4	24.47	+4.4	+27.6	35.6	+2.7	-1.4	68.7	+1.7	+29.4
Machinery, not including transportation equipment.	130.7	+4	+21.6	134.3	-2.0	+41.8	28.47	-2.4	+16.7	39.7	-3.3	-6	71.6	+9	+17.5
Agricultural implements.....	147.2	+4.4	+56.8	189.2	+2.7	+117.1	28.78	-1.6	+39.4	38.8	-3.2	+13.0	74.4	+1.7	+24.7
Cash registers, adding machines, and cal-															
culating machines.....	136.5	+1.2	+17.4	146.5	+4.6	+40.0	33.20	+3.4	+19.1	40.9	+1.6	+4.5	81.9	+1.9	+13.9
Electrical machinery, apparatus, and supplies.	121.3	+2	+25.7	124.1	-2.2	+47.1	28.05	-2.3	+17.1	38.4	-2.7	-9	73.1	+2	+17.2
Engines, turbines, tractors, and water wheels.	153.6	+1.7	+35.4	158.8	+2.1	+72.5	32.00	+4	+27.4	39.2	-6	+7.0	82.2	+1.1	+19.2

Foundry and machine-shop products.....	111.9	- 6	+18.7	114.2	-4.0	+34.4	28.42	-3.5	+13.3	40.4	-4.9	-2.9	70.3	+1.4	+17.0
Machine tools.....	157.6	+2.0	+27.0	165.5	+3.3	+48.9	32.36	+1.3	+17.2	44.2	+5	+4.2	73.3	+9	+12.3
Radios and phonographs.....	208.3	+2.4	-3.7	173.9	-1.1	+8.0	21.94	-3.4	+12.2	36.9	-4.1	-1.1	60.0	+4	+15.7
Textile machinery and parts.....	84.0	-2.1	+15.4	85.2	-3.4	+34.6	27.18	-1.3	+16.7	41.3	-7	+4.9	65.9	-7	+11.8
Typewriters and parts.....	151.2	-5	+24.8	142.8	-7	+27.0	25.20	-2	+1.7	39.5	-6	-8.0	63.8	+4	+13.9
Transportation equipment.....	107.0	-4.3	+22.6	104.4	-7.4	+36.8	30.57	-3.3	+11.7	35.0	-2.7	-5.4	87.4	-9	+18.2
Aircraft.....	766.8	-5.6	+26.5	670.4	-10.7	+36.4	26.71	-5.5	+7.8	38.5	-5.1	-4.1	69.3	-4	+12.5
Automobiles.....	112.5	-5.2	+24.6	105.6	-8.4	+36.6	36.93	-3.4	+9.6	34.2	-2.1	-8.2	90.4	-1.4	+19.8
Cars, electric- and steam-railroad.....	68.5	-5.7	+19.6	79.7	-8.8	+51.5	27.89	-3.3	+26.6	37.4	-5.1	+6.6	74.7	+1.9	+17.6
Locomotives.....	64.4	+1.8	+71.3	55.0	+4.5	+113.0	33.28	+2.7	+24.3	43.7	+3	+7.6	76.1	+2.3	+15.5
Shipbuilding.....	106.2	+3.7	+3.7	119.0	+1	+19.7	30.34	-3.5	+15.3	35.8	-5.6	+3.5	83.2	+1.4	+8.4
Railroad repair shops.....	60.4	-2.7	+1.9	63.1	-6.2	+6.6	30.05	-3.6	+4.7	41.0	-7.4	-6	73.4	+4.1	+5.3
Electric railroad.....	63.4	+6	+1.6	67.7	-1.4	+10.5	30.24	-2.0	+8.8	43.6	-2.3	+2.3	67.9	+4	+7.0
Steam railroad.....	60.2	-2.9	+2.0	62.9	-6.6	+6.5	30.02	-3.8	+4.4	40.8	-7.8	-8	73.8	+4.4	+5.2
Nonferrous metals and their products.....	114.1	+1.2	+10.9	110.1	+2	+25.1	25.85	-9	+12.9	39.1	-1.3	-4.9	66.0	+5	+18.8
Aluminum manufactures.....	131.0	-1.2	+17.4	135.7	-3.9	+37.3	26.05	-2.7	+16.8	39.5	-4.1	-1.3	66.0	+1.4	+18.7
Brass, bronze, and copper products.....	114.8	-1.8	+7.2	113.2	-2.9	+18.9	27.94	-1.1	+10.9	38.1	-1.7	-9.7	73.4	+5	+22.9
Clocks and watches and time-recording devices.....	127.0	+2.7	+12.4	128.0	+5.0	+22.5	22.91	+2.2	+8.9	40.1	+7	-4.1	57.2	+1.6	+14.7
Jewelry.....	101.1	+5.3	+6.1	81.7	+5.0	+13.1	24.73	+4.6	+6.7	40.7	+2.1	-5.2	60.0	+1.5	+9.7
Lighting equipment.....	97.3	+7.2	+14.6	98.6	+13.6	+31.7	25.50	+6.0	+15.0	39.1	+4.7	-5.9	65.4	+1.1	+21.9
Silverware and plated ware.....	79.5	+4.2	+18.4	81.4	+12.2	+48.0	27.81	+7.7	+24.9	43.5	+7.3	+15.5	64.7	+8	+7.0
Smelting and refining—copper, lead, and zinc.....	93.0	+1.1	+19.4	88.6	-4.1	+38.4	28.01	-5.1	+15.9	40.2	-5.3	-2.6	69.7	+1	+19.0
Stamped and enameled ware.....	153.2	-1	+6.9	149.2	-5.0	+21.3	22.69	-4.9	+13.5	37.3	-4.6	-5.1	60.9	-4	+20.5
Lumber and allied products.....	71.7	-1.8	+5.1	68.2	-4.5	+13.1	21.41	-2.8	+7.6	40.3	-3.6	-6.0	53.8	+5	+13.9
Furniture.....	89.1	-2	+4.8	78.2	-1.2	+10.0	20.85	-1.0	+5.0	40.5	-1.8	-8.0	51.6	+4	+13.6
Lumber:															
Millwork.....	55.6	-2.7	+5.6	53.2	-5.2	+14.2	22.09	-2.6	+8.1	40.8	-3.8	-7.1	54.3	+1.3	+15.9
Sawmills.....	54.6	-2.3	+5.3	52.6	-6.5	+14.8	21.65	-4.4	+9.1	40.0	-4.7	-4.8	55.0	+4	+13.7
Stone, clay, and glass products.....	72.7	+1.1	+6.6	69.9	-9	+20.1	24.38	-2.0	+12.7	38.3	-3.6	-1.9	64.3	+1.9	+14.4
Brick, tile, and terra cotta.....	52.3	+5	+4.3	46.4	+3	+17.7	21.64	-2	+12.9	39.4	-3.2	-6.6	54.9	+3.2	+21.2
Cement.....	69.9	-(2)	+7.3	72.8	-5.6	+19.2	26.20	-5.6	+11.0	38.5	-6.4	-3.7	68.0	+9	+15.4
Glass.....	111.1	+1.4	+11.9	118.7	-1.3	+30.2	25.68	-2.7	+16.3	36.8	-4.5	+3.8	70.0	+2.0	+12.1
Marble, granite, slate, and other products.....	44.9	+9	+1.0	39.8	+2	+5.3	25.71	-7	+6.3	38.7	-1.7	-3	66.9	+6	+6.7
Pottery.....	77.0	+1.7	+1.6	66.8	+3.1	+8.5	22.71	+1.4	+6.7	39.4	-4	-3.8	61.6	+1.6	+13.4
<i>Nondurable goods</i>															
Textiles and their products.....	101.6	-1.2	-1.7	87.1	-5.4	+3.8	16.99	-4.4	+5.7	33.2	-3.5	-5.6	51.6	+1	+12.0
Fabrics.....	94.9	-2.5	-9	85.3	-5.2	+0.0	16.79	-2.8	+7.0	34.4	-2.8	-5.8	49.2	+4	+14.3
Carpets and rugs.....	99.4	-1.4	+10.2	84.5	-13.4	+1.9	20.05	-12.2	-7.5	30.8	-13.0	-22.7	65.0	+8	+18.0
Cotton goods.....	98.3	-2.5	+2.4	92.4	-4.7	+13.4	14.84	-2.3	+10.7	34.9	-2.5	-5.0	42.4	+2	+17.1
Cotton small wares.....	97.8	+1.5	+1.3	95.9	+5.7	+8.6	18.02	+4.1	+7.2	37.0	+3.8	-1.3	49.6	+6	+11.4
Dyeing and finishing textiles.....	110.5	+9	-8	94.9	+1.2	+1.9	20.86	+2	+2.6	36.3	-2	-8.6	57.1	+6	+13.2
Hats, fur-felt.....	85.5	-3.6	-2.3	69.2	-20.5	-9.2	21.92	-17.5	-7.0	30.8	-14.9	-16.7	70.9	-7.1	+6.1
Knit goods.....	116.5	+1	-3.0	116.9	-2.1	-2	17.43	-2.2	+3.0	34.3	-3.0	-5.8	52.0	+4	+10.0
Silk and rayon goods.....	79.9	-4	-2.0	68.2	+3.7	+5.7	16.55	+4.2	+7.8	35.1	+2.4	-3.7	46.9	+2.4	+11.4
Woolen and worsted goods.....	70.4	-10.1	-9.6	57.6	-15.9	+4.0	18.82	-6.5	+15.0	32.1	-6.4	-3.8	58.9	+2	+19.8

See footnotes at end of table.

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

MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index Sep-tember 1937	Percentage change from—		Index Sep-tember 1937	Percentage change from—		Sep-tember 1937	Percentage change from—		Sep-tember 1937	Percentage change from—		Sep-tember 1937	Percentage change from—	
		August 1937	Sep-tember 1936		August 1937	Sep-tember 1936		August 1937	Sep-tember 1936		August 1937	Sep-tember 1936		August 1937	Sep-tember 1936
<i>Nondurable goods—Continued</i>															
Textiles and their products—Continued.															<i>Cents</i>
Wearing apparel.....	114.4	+1.2	-3.4	87.0	-5.8	0	\$17.53	-7.1	+3.4	30.8	-4.8	-5.6	56.3	-0.9	+8.7
Clothing, men's.....	108.7	-2.1	-4	83.9	-8.6	+4.3	18.12	-6.6	+4.7	29.8	-5.9	-6.6	61.7	+1.0	+12.3
Clothing, women's.....	152.2	+4.1	-6.6	106.3	-7.3	-2.9	18.94	-10.9	+3.8	30.1	-6.0	-4.3	58.4	-3.3	+8.7
Corsets and allied garments.....	88.9	+1.0	+9	94.2	+3.0	-3	15.62	+2.0	-1.2	32.6	+1.3	-6.6	47.5	-2	+5.4
Men's furnishings.....	127.7	+(?)	-2.9	95.4	-6.9	-2.1	13.43	-6.9	+1.0	31.6	-5.0	-9.4	38.1	-4.0	+6.8
Millinery.....	56.7	+7.2	-10.5	49.0	+21.4	-3.6	25.05	+13.2	+7.5						
Shirts and collars.....	119.2	+2.8	-1.1	103.0	+2	-1.6	12.88	-2.5	-5	32.8	-4.0	-8.2	40.4	+5	+8.6
Leather and its manufactures.	92.7	-4.0	-1.5	71.6	-14.5	-5.4	17.94	-10.9	-4.0	32.9	-12.3	-11.3	55.0	+1.5	+8.1
Boots and shoes.....	94.0	-4.6	-5	64.5	-18.1	-8.8	16.49	-14.1	-8.3	31.7	-14.8	-13.7	53.0	+1.9	+7.4
Leather.....	92.5	-1.4	-5.0	98.6	-5.0	+3.3	23.70	-3.6	+8.7	37.7	-3.1	-2.2	63.0	-2	+10.9
Food and kindred products.	137.8	+4.0	+1.4	133.2	+1.5	+14.3	23.03	-2.3	+12.8	40.5	-1.4	+(?)	57.0	-1.8	+13.2
Baking.....	136.7	+1.1	+4.1	136.1	+2.8	+15.5	25.90	+1.7	+10.9	42.8	+1.2	+3.2	60.8	+5	+7.6
Beverages.....	223.3	-3.2	+6.6	253.0	-7.5	+11.4	33.27	-4.5	+4.5	40.2	-4.6	-2.2	83.2	+2	+6.6
Butter.....	91.6	-2.8	+6.1	73.8	-5.2	+9.2	22.35	-2.4	+2.9						
Canning and preserving.....	311.5	+12.1	+2.0	307.1	+4.5	+18.6	15.75	-6.8	+16.2	36.9	-4.3	-1.7	44.3	-2.7	+19.7
Confectionery.....	85.4	+16.5	-3.1	89.0	+18.4	+9.3	18.79	+1.6	+12.8	40.8	+5.8	+9	46.5	-3.6	+13.1
Flour.....	76.8	-9	-2	80.7	+6	+13.9	27.15	+1.6	+14.2	45.3	+7	+2.0	59.2	+1.3	+11.1
Ice cream.....	82.2	-8.5	+6.3	74.0	-12.1	+9.1	27.83	-4.0	+2.7	46.3	-6.9	-(?)	59.7	+2.3	+2.6
Slaughtering and meat packing.....	86.8	-(?)	-4.5	98.0	+1.5	+15.2	23.35	+1.5	+20.6	41.1	+2.1	-4	69.1	-5	+22.0
Sugar, beet.....	91.6	+28.5	-2.8	100.7	+35.0	-6.0	26.01	+5.0	+9.1	44.7	+13.0	-5.1	59.6	-6.1	+16.0
Sugar refining, cane.....	67.2	-12.7	-14.2	60.1	-26.0	-6.3	24.96	-15.2	+9.3	36.2	-15.7	-6.9	69.0	+2.4	+15.1
Tobacco manufactures.	82.1	+5	-2.4	56.5	-1.2	+6.0	17.12	-1.7	+8.6	37.0	-2.1	-1.7	46.0	+3	+11.1
Chewing and smoking tobacco and snuff.....	55.8	+2	+1.1	70.0	+5.5	+12.7	18.81	+5.3	+11.5	37.2	+4.9	-1.0	51.0	+6	+12.9
Cigars and cigarettes.....	62.8	+5	-2.8	54.9	-2.2	+5.2	16.79	-2.7	+8.4	37.0	-2.8	-1.8	45.5	+3	+10.8
Paper and printing.	107.7	+1.3	+5.0	103.7	+1.1	+12.7	27.89	-2	+7.4	38.4	-1.5	-6	75.1	+8	+7.3
Boxes, paper.....	102.8	+3	+1.2	103.3	+5	+4.6	20.53	+2	+3.4	39.2	-3	-7.5	52.8	+2	+11.0
Paper and pulp.....	119.1	-(?)	+7.9	117.6	-5.0	+23.5	24.71	-5.0	+14.5	39.2	-5.2	-1.4	63.0	+2	+16.2
Printing and publishing:															
Book and job.....	98.9	+2.0	+6.1	92.8	+3.6	+13.6	29.69	+1.5	+7.0	38.6	+4	+4.4	77.9	+1.0	+2.5
Newspapers and periodicals.....	105.9	+2.8	+2.3	103.8	+4.7	+6.4	37.03	+1.8	+3.9	36.9	+9	-1.4	96.5	+4	+5.2

Chemicals and allied products, and petroleum refining	128.6	+3.0	+7.6	139.0	-1.2	+24.1	28.19	-4.1	+15.4	39.0	-1.0	-4	74.0	-2.0	+16.6
Other than petroleum refining	128.9	+3.9	+8.5	137.7	0	+24.5	25.92	-3.8	+14.7	40.2	-1	-9	66.1	-2.4	+16.5
Chemicals	137.4	+1	+8.1	150.9	-3.3	+25.6	30.47	-3.4	+16.3	38.9	-4.1	-2.8	78.4	+7	+19.5
Cottonseed—oil, cake, and meal	120.7	+122.4	+24.5	112.4	+134.7	+43.4	13.14	+5.5	+15.1	53.2	+10.8	+4.7	24.9	-4.8	+9.9
Druggists' preparations	114.1	+2.1	+10.6	127.3	+3.5	+18.7	24.29	+1.4	+7.2	40.8	+2.4	+3.3	57.8	+1.1	+5.0
Explosives	97.6	+2.0	+6.8	106.4	-6	+19.2	30.89	-2.5	+11.6	38.9	-1.7	-9	79.5	-1.8	+12.7
Fertilizers	84.6	+15.6	+8.6	97.2	+23.0	+27.8	19.16	+6.4	+17.8	41.1	+5.2	-(?)	46.7	+1.2	+18.8
Paints and varnishes	132.4	-3	+4.5	131.6	-2.9	+15.4	27.53	-2.6	+10.4	39.6	-2.6	-3.0	69.6	+1.2	+13.6
Rayon and allied products	407.1	+9	+13.1	393.6	-1.8	+30.2	23.88	-2.6	+15.1	38.4	-2.4	-2.6	64.6	+(?)	+18.6
Soap	103.1	+1.1	-3.4	122.1	+3.7	+20.9	28.68	+2.5	+25.4	39.9	+1.3	+2.9	72.7	+1.4	+22.3
Petroleum refining	127.2	-8	+4.0	143.1	-4.9	+23.1	34.16	-4.1	+18.3	35.5	-4.4	+1.0	97.4	+2	+18.4
Rubber products	98.0	+1	+3.9	97.4	+4	+5.6	26.64	+3	+1.6	34.5	-5	-6.2	79.1	+5	+10.6
Rubber boots and shoes	78.7	+2.0	+1.7	75.9	+3.7	+23.3	24.24	+1.6	+21.2	40.0	+8	+5.1	60.6	+9	+16.5
Rubber goods, other than boots, shoes, tires, and inner tubes	134.7	-3	+8.1	132.6	-1.2	+15.4	22.60	-9	+6.7	37.5	-1.6	-3.3	60.6	+5	+12.7
Rubber tires and inner tubes	88.3	-1	+2.0	90.4	+6	-1.6	29.76	+7	-3.7	30.8	-1	-12.3	97.0	+5	+9.6

NONMANUFACTURING

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

Coal mining:															
Anthracite	48.2	+17.1	+1.2	31.5	+15.5	-9.8	18.99	-1.4	-10.9	20.8	-4.0	-20.1	90.8	-1.4	+8.4
Bituminous	80.5	+2.1	+3.0	77.7	+5.3	+9.4	24.37	+3.1	+6.2	27.5	+3.5	-6.5	89.0	-5	+12.3
Metalliferous mining	84.1	+8	+33.2	82.2	-9	+64.5	31.22	-1.7	+23.5	43.6	-2.0	+4.5	71.6	+4	+18.1
Quarrying and nonmetallic mining	54.7	-4	-4	50.1	-5.8	+12.0	22.86	-5.4	+12.4	42.1	-5.0	-1.4	53.9	-2	+14.0
Crude petroleum producing	78.3	-1.2	+5.1	71.2	+6	+17.9	33.41	+1.8	+12.1	40.2	+2.2	+3.2	83.6	-3	+8.4
Public utilities:															
Telephone and telegraph	80.1	+3	+8.7	93.1	+1.0	+18.1	31.81	+7	+8.6	39.5	-4	+2.6	83.8	+8	+6.0
Electric light and power and manufactured gas	98.5	+2	+5.3	103.8	+1.2	+13.5	34.04	+1.0	+7.8	40.1	+1.8	+6	85.4	-7	+8.9
Electric-railroad and motorbus operation and maintenance	73.7	+4	+1.2	71.6	-2.2	+7.7	31.70	-2.5	+6.5	46.0	-2.4	+1.0	68.1	+4	+6.2
Trade:															
Wholesale	93.0	+1.4	+5.7	78.3	-9	+11.1	30.60	-2.3	+5.0	42.6	-1.3	+2	71.7	-1.2	+5.5
Retail	90.6	+5.1	+4.6	74.5	+3.0	+11.9	22.36	-2.0	+6.9	42.8	-1.5	-1.4	56.3	-6	+8.2
General merchandising	103.6	+10.5	+5.2	92.6	+8.0	+11.8	19.37	-2.2	+6.3	39.1	+3	-3.0	51.7	-2.2	+10.8
Other than general merchandising	87.2	+3.6	+4.4	70.7	+1.7	+11.7	24.71	-1.8	+7.0	44.0	-1.8	-1.0	57.7	-1	+7.6
Hotels (year-round) ¹	88.1	+1.5	+4.6	76.1	+2.3	+12.7	15.00	+8	+7.8	47.4	+4	+6	31.6	+7	+6.9
Laundries	93.7	-5	+4.6	84.4	-1.9	+10.2	16.84	-1.3	+5.4	42.5	-2.3	-8	39.7	+1.3	+6.7
Dyeing and cleaning	86.7	+2.1	-(?)	72.8	+5.5	+10.2	20.61	+3.4	+10.2	43.9	+1.5	+1.9	47.4	+2.2	+6.1
Brokerage	(4)	-1.9	-1.4	(4)	-2.5	+2.4	38.77	-6	+3.8	(4)	(4)	(4)	(4)	(4)	(4)
Insurance	(4)	-2	+1.5	(4)	-2.4	+4.3	38.59	-2.2	+2.8	(4)	(4)	(4)	(4)	(4)	(4)
Building construction	(4)	-7	+6.3	(4)	-2.2	+23.2	31.76	-1.5	+16.0	34.1	-1.5	+2.1	92.8	-2	+13.9

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

industries combined, and for retail trade are also computed from indexes.

² Less than 1/10 of 1 percent.

³ Cash payments only; the additional value of board, room, and tips cannot be computed.

⁴ Not available.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June, July, and August 1937*

MANUFACTURING

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

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	June 1937	July 1937	August 1937	June 1937	July 1937	August 1937	June 1937	July 1937	August 1937	June 1937	July 1937	August 1937	June 1937	July 1937	August 1937
All manufacturing industries.....	101.1	101.4	102.3	102.9	100.4	103.8	\$28.00	\$25.31	\$25.87	39.2	37.9	38.7	<i>Cents</i> 65.3	<i>Cents</i> 65.7	<i>Cents</i> 65.7
Durable goods.....	98.8	98.9	98.1	104.6	100.7	104.0	29.36	28.32	29.31	40.7	38.6	40.1	71.4	72.2	72.2
Nondurable goods.....	103.5	104.1	106.9	100.8	100.0	103.5	22.14	21.81	22.03	37.6	37.1	37.2	58.6	58.8	58.9
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	101.4	107.6	108.7	110.4	113.5	120.4	31.06	30.03	31.52	40.2	38.2	40.0	76.0	77.3	77.5
Blast furnaces, steel works, and rolling mills.....	106.2	119.9	121.4	123.4	132.4	142.3	34.48	32.75	34.74	40.2	38.1	40.5	85.4	85.8	85.7
Bolts, nuts, washers, and rivets.....	81.9	87.8	86.7	93.3	93.6	100.7	25.96	24.29	26.48	39.9	36.4	39.6	65.1	66.8	67.3
Cast-iron pipe.....	70.6	69.2	67.6	59.7	53.7	53.5	22.73	20.85	21.28	39.6	36.5	37.2	57.0	56.8	56.9
Cutlery (not including silver and plated cutlery) and edge tools.....	86.2	84.0	89.1	86.2	78.0	85.1	25.22	23.44	24.09	42.9	39.6	40.9	60.1	60.1	60.1
Forgings, iron and steel.....	72.6	72.3	71.8	71.5	63.6	67.1	30.25	26.93	28.61	42.0	38.3	39.8	72.3	70.7	72.2
Hardware.....	90.7	93.3	89.8	96.5	107.8	103.8	22.53	26.09	26.02	36.1	38.0	38.6	62.4	68.8	67.5
Plumbers' supplies.....	93.2	92.6	93.6	76.3	71.9	76.6	25.71	24.74	25.84	40.7	38.5	39.7	63.2	64.2	65.1
Steam and hot-water heating apparatus and steam fittings.....	79.8	77.0	76.4	76.4	70.9	71.7	27.67	26.61	27.11	40.5	38.8	39.1	68.3	68.5	69.0
Stoves.....	119.0	104.6	112.6	106.2	82.2	96.9	26.24	23.15	25.28	40.5	37.1	39.3	65.1	62.6	64.7
Structural and ornamental metalwork.....	78.7	80.6	81.4	82.4	82.3	84.7	29.36	28.67	29.20	42.3	40.6	41.5	69.5	70.8	70.5
Tin cans and other tinware.....	109.2	114.8	117.9	116.6	122.0	128.8	23.77	23.56	24.30	40.1	39.5	41.1	59.8	60.2	59.2
Tools (not including edge tools, machine tools, files, and saws).....	101.6	102.0	100.4	114.9	107.6	106.7	26.36	24.58	24.81	43.5	40.1	40.2	60.5	61.3	61.6
Wirework.....	181.2	175.9	171.3	188.5	171.6	160.7	26.33	24.71	23.46	39.6	37.5	34.4	66.5	65.9	68.3
Machinery, not including transportation equipment.....	129.2	129.9	130.2	137.2	133.6	137.1	29.41	28.61	28.97	41.8	40.0	40.8	70.4	70.6	71.0
Agricultural implements.....	140.6	138.6	141.0	182.7	172.5	184.2	29.10	27.68	29.06	40.5	38.2	40.1	72.7	72.5	73.1
Cash registers, adding machines, and calculating machines.....	135.9	137.1	135.0	146.7	146.7	140.0	33.24	33.11	32.06	41.6	41.3	40.3	81.0	81.1	80.2
Electrical machinery, apparatus, and supplies.....	119.9	121.0	121.0	126.1	124.1	126.8	28.95	28.29	28.72	39.9	38.5	39.5	72.5	71.8	72.7
Engines, turbines, tractors, and water wheels.....	149.9	151.6	151.1	156.4	155.0	155.5	32.53	31.87	32.07	40.1	39.4	39.4	81.3	81.0	81.5
Foundry and machine-shop products.....	112.7	112.5	112.5	119.5	114.8	118.9	29.58	28.41	29.19	43.2	41.0	42.0	68.5	69.2	69.4
Machine tools.....	152.7	152.7	154.6	164.6	159.3	160.2	33.21	32.14	31.84	46.3	44.4	44.0	71.8	72.5	72.7
Radio and phonographs.....	182.3	196.8	203.5	156.2	166.1	175.8	22.47	22.16	22.78	38.4	36.8	38.1	58.9	61.0	61.0
Textile machinery and parts.....	87.3	86.2	85.8	93.6	89.5	88.2	28.83	27.81	27.57	43.8	42.2	41.6	66.0	66.1	66.5
Typewriters and parts.....	153.8	152.3	152.0	151.1	145.6	143.8	26.22	25.53	25.25	41.6	40.4	39.7	63.0	63.1	63.6

Transportation equipment	126.4	119.9	111.8	127.8	117.5	112.8	32.00	30.89	31.71	37.0	35.0	36.0	86.8	88.7	88.5
Aircraft.....	834.0	790.7	812.1	751.3	750.8	750.8	28.48	27.34	29.28	44.4	39.1	41.5	64.2	70.0	70.6
Automobiles.....	137.8	130.4	118.7	135.2	123.6	115.3	32.46	31.30	32.08	36.1	34.1	34.9	90.0	92.1	92.0
Cars, electric- and steam-railroad.....	76.5	71.6	72.7	91.4	83.4	87.4	29.10	27.98	28.84	40.0	38.6	39.4	72.7	72.5	73.3
Locomotives.....	59.5	62.5	63.3	51.4	50.5	52.6	33.49	31.16	32.25	46.5	44.0	43.6	72.0	70.9	74.0
Shipbuilding.....	103.3	100.2	102.4	114.5	111.7	118.8	30.75	30.42	31.44	37.6	36.9	38.2	80.3	81.6	81.7
Railroad repair shops	64.0	63.8	62.1	68.7	63.5	67.3	30.80	28.63	31.13	44.8	41.4	44.3	69.0	69.9	70.5
Electric railroad.....	62.7	63.3	63.0	67.1	67.0	68.7	30.19	29.87	30.81	44.5	43.8	44.7	66.4	66.9	67.5
Steam railroad.....	64.1	63.8	62.0	69.0	63.3	67.4	30.89	28.44	31.17	44.8	41.2	44.3	69.2	69.1	70.7
Nonferrous metals and their products	113.9	111.5	112.8	111.5	105.3	103.9	26.38	25.43	26.22	40.2	38.2	39.6	65.1	65.8	66.6
Aluminum manufactures.....	129.5	131.5	132.6	135.6	134.5	141.2	26.36	25.74	26.82	40.4	39.5	41.1	65.4	65.2	65.3
Brass, bronze, and copper products.....	122.3	119.0	116.9	125.3	116.7	116.6	28.91	27.58	28.21	40.6	38.2	38.7	71.4	72.5	73.0
Clocks and watches and time-recording devices.....	121.6	114.8	123.7	118.5	108.4	121.9	22.42	21.47	22.40	40.3	38.1	39.8	55.5	56.3	56.3
Jewelry.....	89.1	90.8	95.9	70.3	67.8	74.1	24.17	22.95	23.28	38.9	37.7	39.8	60.9	59.8	57.8
Lighting equipment.....	96.1	91.5	90.8	95.3	88.8	86.8	24.91	24.32	24.15	38.5	37.2	37.3	64.8	65.6	64.9
Silverware and plated ware.....	74.4	73.8	76.3	69.1	66.9	72.5	25.83	25.09	26.00	40.0	39.5	40.5	64.6	63.8	64.7
Smelting and refining—copper, lead, and zinc.....	88.8	91.8	92.1	85.2	87.2	92.4	28.61	28.12	29.56	41.9	40.0	42.3	68.3	70.3	69.8
Stamped and enameled ware.....	159.2	151.0	153.4	162.4	146.2	157.0	23.84	22.60	23.83	39.6	37.0	39.1	60.4	61.1	61.1
Lumber and allied products	72.9	72.9	73.0	72.3	67.3	71.4	22.10	20.92	22.08	42.8	39.8	42.0	52.5	53.4	53.2
Furniture.....	89.1	87.9	89.2	78.7	73.9	79.2	20.80	20.09	21.04	41.0	39.4	41.2	51.0	51.6	51.3
Lumber:															
Millwork.....	57.5	57.3	57.1	57.5	54.8	56.1	23.12	22.31	22.74	44.1	41.4	42.3	52.6	53.9	53.9
Sawmills.....	55.7	56.3	55.9	57.4	52.8	56.2	22.78	21.11	22.70	43.5	39.6	42.4	53.3	54.2	54.2
Stone, clay, and glass products	74.0	71.7	71.9	71.4	66.1	70.5	24.53	23.41	24.84	39.9	37.9	39.7	62.0	62.4	63.0
Brick, tile, and terra cotta.....	54.5	53.8	52.0	49.1	46.2	46.2	21.89	20.96	21.75	41.9	39.7	40.9	52.4	52.8	53.1
Cement.....	69.7	69.7	69.9	75.0	72.4	77.1	26.90	25.95	27.63	40.6	39.0	41.2	66.2	66.5	67.1
Glass.....	112.4	107.9	109.6	119.4	108.6	120.3	25.61	24.36	26.35	38.2	35.9	38.7	67.5	68.2	68.5
Marble, granite, slate, and other products.....	44.1	44.4	44.5	37.6	38.4	39.7	24.88	25.14	26.04	38.5	38.6	39.6	64.5	65.7	65.7
Pottery.....	80.0	72.8	75.8	70.3	59.0	64.7	23.28	21.47	22.47	40.5	38.4	39.2	60.2	60.1	61.4
<i>Nondurable goods</i>															
Textiles and their products	103.4	100.0	102.8	91.3	85.5	92.1	17.73	17.18	17.77	35.1	33.9	34.4	50.2	50.3	51.5
Fabrics	99.7	98.0	97.3	93.8	89.6	90.0	17.74	17.22	17.41	36.4	35.3	35.3	48.6	48.6	49.1
Carpets and rugs.....	101.6	99.8	100.8	100.2	97.0	97.6	23.14	22.89	22.80	36.7	35.8	35.4	63.1	64.0	64.5
Cotton goods.....	103.0	102.0	100.8	101.2	96.7	97.0	15.55	15.04	15.20	36.9	35.5	35.7	42.1	42.2	42.5
Cotton small wares.....	97.4	96.0	96.4	91.6	90.4	90.8	17.49	17.49	17.50	36.8	36.7	35.8	48.2	48.7	49.7
Dyeing and finishing textiles.....	109.7	109.1	109.4	95.8	94.1	93.8	21.07	20.93	20.83	36.3	36.3	36.4	57.4	57.2	56.8
Hats, fur-felt.....	83.9	83.9	88.7	73.8	80.8	87.0	24.26	26.52	26.78	34.2	37.6	36.4	72.0	73.7	76.3
Knit goods.....	118.1	116.3	116.3	119.0	112.6	119.4	17.51	16.88	17.85	35.7	34.1	35.4	50.1	50.3	51.3
Silk and rayon goods.....	79.1	79.7	80.2	68.4	67.4	65.7	16.70	16.33	15.89	36.6	35.7	34.1	45.4	45.6	46.0
Woolen and worsted goods.....	86.0	80.7	78.3	78.5	71.8	68.5	21.08	20.51	20.18	36.1	35.6	34.4	58.6	57.9	58.9
Wearing apparel	109.3	102.0	113.0	82.5	73.8	92.4	17.70	17.07	18.81	32.2	30.6	32.3	53.5	54.1	56.3
Clothing, men's.....	106.6	107.4	111.0	86.7	86.4	91.8	19.19	19.02	19.45	32.5	30.9	31.6	58.1	60.4	61.1
Clothing, women's.....	137.3	117.0	146.2	91.6	71.3	114.7	18.32	16.78	21.47	30.9	29.1	32.3	55.8	55.5	60.1
Corsets and allied garments.....	89.6	88.1	88.1	85.2	80.2	81.7	15.50	14.97	15.27	32.9	32.3	32.2	46.6	46.1	47.5
Men's furnishings.....	136.5	129.7	127.6	103.7	96.6	102.4	13.43	13.19	14.03	33.2	31.3	33.0	35.5	36.5	37.8
Millinery.....	51.2	38.8	52.9	37.4	23.8	40.3	21.17	17.30	22.12						
Shirts and collars.....	118.0	113.4	116.0	101.7	95.9	102.8	12.90	12.34	12.77	33.9	32.6	33.8	39.3	39.2	38.9

See footnotes at end of table.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, June, July, and August 1937—Contd.*

MANUFACTURING—Continued

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	June 1937	July 1937	August 1937	June 1937	July 1937	August 1937	June 1937	July 1937	August 1937	June 1937	July 1937	August 1937	June 1937	July 1937	August 1937
<i>Nondurable goods—Continued</i>															
<i>Leather and its manufactures</i>	93.8	96.3	96.6	80.6	84.6	83.7	\$20.01	\$20.57	\$20.29	38.1	38.3	37.8	53.5	54.2	54.1
Boots and shoes.....	94.0	98.0	98.6	73.3	79.8	78.7	18.80	19.68	19.24	37.7	38.2	37.6	51.0	52.0	51.9
Leather.....	98.0	94.7	93.9	108.4	104.0	103.8	24.54	24.32	24.64	39.3	38.6	38.9	62.6	63.1	62.8
<i>Food and kindred products</i>	112.6	124.9	132.5	115.8	128.3	131.2	24.86	24.88	23.80	41.4	42.3	41.0	60.0	59.0	58.0
Baking.....	136.6	136.7	135.3	133.8	134.9	132.4	25.48	25.56	25.37	43.3	43.0	42.3	59.3	60.0	60.4
Beverages.....	224.4	234.4	230.7	260.5	284.8	273.4	34.32	36.01	34.95	41.7	43.0	42.1	83.3	84.5	83.4
Butter.....	95.6	97.3	94.3	76.6	78.1	77.8	22.29	22.33	22.99						
Canning and preserving.....	122.7	209.8	278.0	123.5	245.0	293.9	16.17	18.93	16.90	35.9	42.3	38.5	46.6	45.8	45.5
Confectionery.....	68.9	69.2	73.3	68.0	64.3	75.2	17.74	16.75	18.55	37.7	35.4	38.6	47.1	47.8	48.3
Flour.....	73.6	77.9	77.5	74.2	79.6	80.2	25.68	26.13	26.63	44.1	44.5	45.0	57.5	58.0	58.2
Ice cream.....	90.6	93.2	89.8	81.5	85.6	84.2	27.34	27.85	28.71	49.2	50.3	49.7	56.0	55.1	57.6
Slaughtering and meat packing.....	88.9	89.9	86.8	99.2	99.9	96.6	27.97	27.85	27.99	40.8	40.4	40.2	68.7	69.2	69.6
Sugar, beet.....	49.3	52.9	71.3	55.2	56.0	74.6	25.65	24.13	23.89	40.6	37.6	38.1	64.8	66.4	63.5
Sugar refining, cane.....	74.9	81.0	76.9	68.4	80.9	81.2	25.40	27.77	29.36	39.4	42.4	42.9	64.3	64.3	67.1
<i>Tobacco manufactures</i>	60.1	60.6	61.8	55.7	55.8	57.2	17.15	17.83	17.39	38.0	37.6	37.8	45.1	46.2	46.0
Chewing and smoking tobacco and snuff.....	56.4	55.4	55.7	69.4	66.0	66.3	18.39	18.42	17.85	37.1	35.6	35.5	50.1	52.2	50.7
Cigars and cigarettes.....	60.5	61.2	62.5	54.0	54.5	56.1	16.89	17.15	17.30	38.1	37.8	38.1	44.5	45.5	45.5
<i>Paper and printing</i>	108.9	108.0	108.3	104.9	101.6	102.6	28.61	27.74	28.03	39.7	38.6	39.1	74.5	74.7	74.1
Boxes, paper.....	103.0	102.2	102.6	104.4	100.3	102.8	20.70	20.00	20.57	40.3	38.8	39.3	51.9	52.2	52.8
Paper and pulp.....	120.5	119.5	119.1	124.3	119.2	123.8	25.90	25.03	26.01	42.2	40.3	41.5	61.4	62.2	62.8
Printing and publishing:															
Book and job.....	95.4	95.6	96.9	91.3	90.1	89.6	30.26	29.76	29.30	39.5	38.7	38.5	77.8	78.1	77.0
Newspapers and periodicals.....	105.4	103.2	102.9	103.6	99.8	99.1	37.18	36.66	36.16	36.8	36.3	36.6	97.1	96.8	94.9
<i>Chemicals and allied products, and petroleum refining</i>	123.9	124.8	124.9	137.4	136.8	140.7	23.89	28.34	29.33	39.6	38.5	39.4	73.7	74.6	75.1
Other than petroleum refining.....	123.4	123.5	124.1	135.7	134.9	137.7	26.52	26.08	26.72	40.6	39.6	40.1	66.1	66.7	67.2
Chemicals.....	138.5	139.5	137.2	153.5	153.9	156.1	30.81	30.41	31.56	40.5	39.9	40.6	76.2	76.3	77.8
Cottonseed—oil, cake, and meal.....	43.9	41.8	54.3	38.6	35.3	47.9	12.15	11.53	12.14	48.7	46.6	48.0	25.1	24.9	25.4
Druggists' preparations.....	108.8	106.2	111.8	121.3	112.0	123.0	24.40	23.14	24.12	40.0	37.8	39.8	58.1	58.0	57.6
Explosives.....	94.8	95.3	95.8	103.0	103.8	107.1	30.99	28.42	32.10	39.0	39.0	40.1	79.4	72.9	80.1
Fertilizers.....	75.7	69.8	73.2	79.2	77.1	79.0	17.06	17.85	17.91	40.2	39.4	39.2	42.5	45.3	45.9
Paints and varnishes.....	138.9	136.3	132.8	142.7	138.3	135.4	28.54	27.86	28.06	42.5	41.0	40.7	67.4	68.2	69.0
Rayon and allied products.....	391.4	401.0	403.4	391.8	392.9	400.7	24.69	24.20	24.53	39.8	38.6	38.8	62.0	62.7	63.1
Soap.....	102.5	102.4	101.9	115.1	116.9	117.7	27.26	27.67	27.98	39.3	39.0	39.3	69.7	71.4	71.6
Petroleum refining.....	126.0	127.5	128.2	143.0	143.1	150.5	34.36	33.84	35.66	36.5	35.5	37.2	95.2	96.6	97.1

Rubber products.....	101.2	96.2	97.9	103.8	96.6	97.0	27.51	28.84	28.53	35.7	34.7	34.7	76.8	79.6	78.6
Rubber boots and shoes.....	72.5	61.8	77.1	69.7	54.7	73.2	24.18	22.27	23.85	39.6	37.3	39.7	61.0	59.7	60.1
Rubber goods, other than boots, shoes, tires, and inner tubes.....	142.1	136.7	135.1	144.9	135.8	134.1	23.54	22.78	22.89	39.4	38.2	38.2	59.8	60.7	60.3
Rubber tires and inner tubes.....	92.7	89.7	88.4	97.9	93.6	89.8	30.77	30.37	29.55	32.1	31.7	30.9	96.3	96.9	96.3

NONMANUFACTURING

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

Coal mining:															
Anthracite.....	51.1	45.0	41.2	50.9	35.2	27.2	28.99	22.78	19.25	31.2	26.0	21.7	91.7	91.5	92.1
Bituminous.....	77.9	75.8	78.8	71.2	66.4	73.8	23.19	22.18	23.58	25.9	25.0	26.6	88.6	88.1	89.4
Metalliferous mining.....	79.5	82.0	83.4	77.7	77.8	83.0	31.11	30.02	31.62	43.5	42.4	44.5	71.7	71.2	71.1
Quarrying and nonmetallic mining.....	55.4	55.5	54.9	52.6	50.8	53.2	23.84	22.84	24.06	44.4	42.3	44.3	53.8	54.3	54.1
Crude-petroleum producing.....	78.5	78.5	79.3	70.4	70.5	70.8	33.50	33.58	33.50	40.1	39.8	39.5	82.5	83.6	83.9
Public utilities:															
Telephone and telegraph.....	78.5	79.7	79.8	88.6	92.1	92.1	29.95	31.02	30.94	37.9	39.5	39.0	81.7	81.6	82.4
Electric light and power and manufactured gas.....	96.3	97.5	98.3	100.4	102.2	102.6	33.57	33.84	33.64	40.6	39.8	39.3	82.6	84.7	86.2
Electric-railroad and motorbus operation and maintenance.....	73.3	73.4	73.4	71.1	70.8	73.1	31.85	31.65	32.71	46.6	45.9	47.1	67.5	68.2	68.5
Trade:															
Wholesale.....	90.3	90.6	91.8	76.3	76.9	79.0	30.56	30.41	31.31	43.3	43.0	43.4	70.7	71.4	72.3
Retail.....	90.5	87.6	86.2	74.4	72.8	72.3	22.06	22.41	22.58	43.4	43.4	43.5	55.5	56.9	56.6
General merchandising.....	102.9	95.9	93.8	92.5	87.3	85.7	18.74	19.07	19.21	39.7	39.0	39.0	50.6	52.8	52.8
Other than general merchandising.....	87.2	85.4	84.2	70.6	69.8	69.5	24.73	24.99	25.18	44.5	44.7	44.8	57.0	58.1	57.8
Hotels (year-round) ¹	86.9	86.1	86.8	74.0	73.3	74.4	14.83	14.83	14.86	47.7	47.4	47.3	30.7	31.2	31.1
Laundries.....	93.5	95.2	94.2	85.5	86.9	88.0	17.18	17.15	17.17	43.6	43.9	43.5	39.1	39.0	39.6
Dyeing and cleaning.....	92.1	86.0	84.9	79.2	68.0	69.0	21.32	19.58	20.23	45.4	42.6	43.2	47.1	46.5	47.3
Brokerage ²	-3.0	-1.3	-1.3	-3.2	-1.6	-1.6	39.28	39.22	38.85	(4)	(4)	(4)	(4)	(4)	(4)
Insurance ³	+4	+3	+3	+1.1	+9	-1.6	39.78	40.38	38.93	(4)	(4)	(4)	(4)	(4)	(4)
Building construction ³	+3.1	+3.3	+2.4	+3.5	+5.2	+5.2	31.25	31.31	32.28	33.8	33.8	34.7	92.5	92.5	93.0

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

² Cash payments only; the additional value of board, room, and tips cannot be computed.

³ Indexes of employment and pay rolls not available; percentage changes from preceding month substituted.

⁴ Not available.

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

Indexes of employment and pay rolls are given in tables 6 and 7 for all manufacturing industries combined, for the durable- and non-durable-goods groups of manufacturing industries, and for 13 non-manufacturing industries, including 2 subgroups under retail trade, by months from January 1936 to September 1937, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to September 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 September 1937 reports were received from 25,289 manufacturing establishments employing over 5,000,000 workers, whose weekly earnings were more than \$125,000,000. 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 6.—Indexes of Employment and Pay Rolls in All Manufacturing Industries Combined and in the Durable- and Nondurable-Goods Groups 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	101.4	80.2	100.4	84.6	98.9	75.9	100.7	98.2	104.1	85.6	100.0
August.....	93.5	102.3	83.5	103.8	84.7	98.1	77.0	⁴ 104.0	102.8	⁴ 106.9	91.8	⁴ 103.5
September.....	95.5	102.1	83.6	100.1	85.7	97.3	77.2	99.4	105.9	107.3	91.6	100.9
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	-----

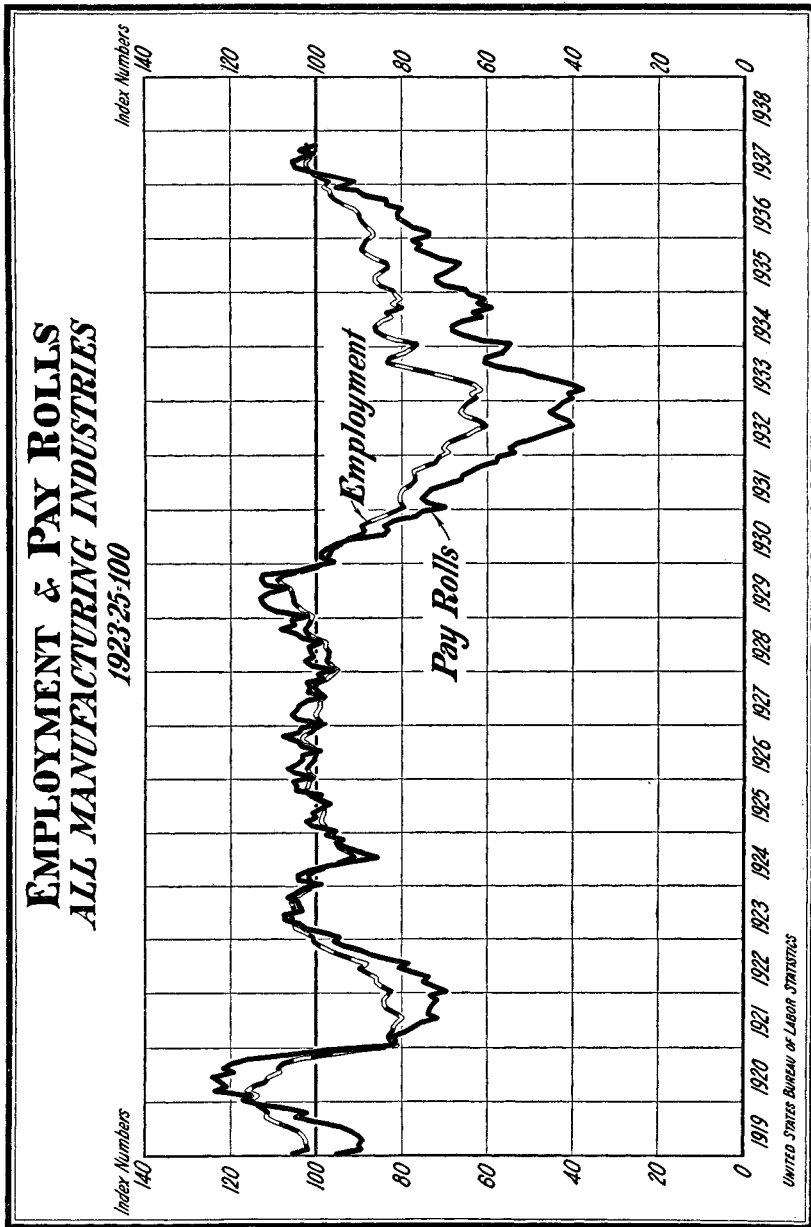
¹ Comparable indexes for earlier years will be found in the February 1937 issue of this report, or in the April 1937 issue of the Monthly Labor Review.

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.

⁴ Revised.

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 7.—*Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1936 to September 1937¹*

[12-month average 1929=100]

Month	Anthracite mining				Bituminous coal				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.....	54.9	51.0	56.3	44.4	76.2	77.8	62.2	67.8	60.8	78.5	47.7	79.8	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	79.5	48.2	77.7	53.5	55.4	44.0	52.6
July.....	48.4	45.0	37.2	35.2	75.5	75.8	62.6	66.4	61.3	82.0	46.1	77.8	54.4	55.5	43.9	50.8
August.....	41.1	41.2	31.4	27.2	76.9	78.8	65.4	73.8	61.6	83.4	48.2	83.0	55.3	54.9	46.2	53.2
September.....	47.6	48.2	34.9	31.5	78.2	80.5	71.0	77.7	63.1	84.1	50.0	82.2	54.9	54.7	44.8	50.1
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	—	52.6	—	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	61.2	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	64.1	69.9	74.8	76.2	82.2	86.1	92.2	84.7	93.6	71.7	72.5	68.3	68.7
March.....	70.9	74.2	56.0	63.9	70.2	75.4	77.2	87.2	86.8	92.4	85.9	94.8	71.2	72.6	67.8	69.2
April.....	71.3	75.8	57.1	67.7	70.8	76.6	76.0	86.3	88.0	93.1	86.2	95.5	71.3	72.9	65.9	69.4
May.....	72.7	76.7	58.0	68.2	71.6	77.7	78.5	89.5	89.0	94.6	87.0	97.9	71.5	73.3	66.1	70.1
June.....	73.7	78.5	58.9	70.4	72.1	78.5	77.4	88.6	90.4	96.3	88.1	100.4	71.7	73.3	66.8	71.1
July.....	75.4	78.5	60.4	70.5	73.1	79.7	79.9	92.1	91.7	97.5	89.8	102.2	72.4	73.4	66.5	70.8
August.....	75.0	79.3	59.7	70.8	73.5	79.8	81.2	92.1	93.1	98.3	89.8	102.6	72.4	73.4	66.5	73.1
September.....	74.5	78.3	60.4	71.2	73.7	80.1	78.8	93.1	93.5	98.5	91.4	103.8	72.8	73.7	66.4	71.6
October.....	73.6	—	59.6	—	73.8	—	83.1	—	94.0	—	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 Revised.

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

TABLE 7.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1936 to September 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	89.9	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	90.6	69.0	76.9	83.2	87.6	65.1	72.8	90.7	95.9	77.3	87.3	81.2	85.4	62.6	69.8
August.....	86.3	91.8	69.7	79.0	82.4	86.2	64.4	72.3	89.4	93.8	76.4	85.7	80.5	84.2	61.9	69.5
September.....	88.0	93.0	70.5	78.3	86.6	90.6	66.6	74.5	95.5	103.6	82.8	92.6	83.5	87.2	63.3	70.7
October.....	89.0	-----	71.5	-----	88.7	-----	68.3	-----	103.9	-----	87.2	-----	84.7	-----	64.4	-----
November.....	89.7	-----	73.1	-----	90.1	-----	70.1	-----	103.3	-----	91.4	-----	85.1	-----	65.7	-----
December.....	91.0	-----	72.8	-----	99.6	-----	75.9	-----	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	74.5	82.2	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	82.7	93.5	75.8	85.5	92.1	69.2	79.2	-----
July.....	83.3	86.1	66.0	73.3	80.5	95.2	79.0	86.9	85.5	86.0	64.8	68.0
August.....	83.2	86.8	66.1	74.4	89.6	94.2	76.7	86.0	83.5	84.9	63.2	69.0
September.....	84.2	88.1	67.5	76.1	89.6	93.7	76.6	84.4	86.7	86.7	66.1	72.8
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	-----

² Revised.

TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in August and September 1937, is shown in table 8 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 8.—Comparison of Employment and Pay Rolls in Identical Establishments in August and September 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 September 1937	Percentage change from August 1937	Amount of pay roll (1 week) September 1937	Percentage change from August 1937	Number of establishments	Number on pay roll September 1937	Percentage change from August 1937	Amount of pay roll (1 week) September 1937	Percentage change from August 1937
				<i>Dollars</i>					<i>Dollars</i>	
New England	14,008	930,577	-1.6	21,934,513	-2.6	3,549	647,123	-3.0	14,731,346	-4.1
Maine.....	828	56,911	-7.5	1,182,736	-10.2	298	45,523	-8.8	904,563	-12.4
New Hampshire.....	624	40,091	-2.2	816,652	-7.2	205	32,429	-1.6	634,235	-7.8
Vermont.....	480	18,209	-6.0	412,320	-6.5	145	10,935	-8.1	243,813	-8.9
Massachusetts.....	18,332	504,602	-1.4	11,999,454	-2.3	1,741	301,081	-3.7	6,867,107	-7.41
Rhode Island.....	1,250	92,918	-3.0	2,063,180	-3.9	421	73,937	-3.9	1,559,197	-4.7
Connecticut.....	2,494	217,846	+5	5,460,171	+1	739	183,218	+1	4,522,431	-1
Middle Atlantic	31,687	2,275,033	+1.9	60,619,857	-1.5	5,491	1,347,389	+5.5	35,377,786	-3.8
New York.....	20,330	1,006,423	+2.9	28,292,575	+6	2,224	480,919	+1.7	13,183,502	-8
New Jersey.....	4,272	364,170	-6	9,442,513	-3.2	844	270,569	-1.4	6,842,396	-4.5
Pennsylvania.....	7,285	904,440	+1.9	22,884,769	-3.3	2,353	595,901	+7	15,351,888	+5.5
East North Central	23,769	2,457,784	+5	67,511,329	-2.4	8,351	1,887,486	-3	52,427,020	-3.9
Ohio.....	7,702	667,919	+1.3	18,248,219	-2.7	2,573	506,517	+8	14,174,648	-3.9
Indiana.....	2,668	297,951	+2.0	7,822,820	-9	915	243,629	+1.8	6,514,375	-1.6
Illinois.....	6,301	676,139	+1.3	18,200,600	-1	2,441	478,351	+1.3	12,736,964	-1.1
Michigan.....	3,817	555,716	-2.3	16,662,874	-5.1	983	164,072	-4.5	14,006,360	-7.8
Wisconsin.....	6,381	260,059	+1.3	6,376,816	-1.8	1,439	194,937	+1.6	4,944,701	-2.4
West North Central	11,874	451,171	+2	10,953,755	-2.0	2,405	227,179	-2.0	5,405,539	-4.1
Minnesota.....	2,169	96,164	-1.0	2,488,487	-1.5	422	46,290	-5.7	1,156,336	-3.7
Iowa.....	1,706	68,797	-3.8	1,651,704	+1.8	411	40,889	+5.1	1,005,979	+3.2
Missouri.....	3,028	178,839	-7	4,230,842	-5.1	871	99,715	-3.4	2,208,319	-8.7
North Dakota.....	512	5,297	+1.0	134,352	+1.1	56	670	-10.3	18,953	-8.4
South Dakota.....	458	7,801	+2	202,187	(⁸)	37	1,947	-6	51,365	+2.5
Nebraska.....	1,647	33,545	+1.4	805,764	-2	156	11,447	+6	289,398	-1.3
Kansas.....	1,954	60,728	-3.8	1,440,439	+1	452	26,221	-8	675,189	-2
South Atlantic	11,194	893,309	+4	15,068,707	-1.4	2,803	600,275	-4	11,159,221	-3.0
Delaware.....	217	18,420	-3.5	435,395	-3.2	87	14,067	-4.2	319,394	-3.7
Maryland.....	1,627	144,421	+8	3,508,326	-1.8	682	101,328	+1	2,437,441	-1.3
District of Columbia.....	1,086	40,936	+3.0	1,061,125	+1.1	36	3,567	+1.7	123,817	+3.2
Virginia.....	1,551	121,170	-1	2,356,582	-3.8	476	84,240	-1.3	1,581,304	-6.3
West Virginia.....	1,263	161,883	+6	4,160,473	-1.1	254	62,303	-2	1,621,976	-5.6
North Carolina.....	1,457	167,428	-2	2,629,486	-3	583	152,432	-2	2,367,436	-4
South Carolina.....	785	78,403	-3	1,166,956	-2.0	212	69,798	-7	1,002,989	-2.5
Georgia.....	1,519	119,794	+7	1,966,383	-1.1	377	92,706	+3	1,359,575	-1.9
Florida.....	1,089	40,854	+1.4	788,981	+7	196	19,832	-1	345,289	+2
East South Central	4,631	313,851	+8	5,984,906	+6	1,002	198,329	+2	3,599,879	-1.5
Kentucky.....	1,330	92,504	+1.2	2,015,254	+2.6	296	39,464	+9	830,970	-2.9
Tennessee.....	1,421	110,697	+6	2,026,015	+7	381	82,941	-1	1,482,445	+3
Alabama.....	1,277	92,441	+1	1,642,645	-2.0	240	65,735	-7	1,134,986	-3.1
Mississippi.....	603	18,209	+3.7	300,992	+9	85	10,189	+5.9	151,478	+1.6
West South Central	4,707	213,860	+1.5	4,998,393	-3	1,102	105,906	+9	2,313,051	-1.3
Arkansas.....	10,494	23,454	+1	421,613	+6	189	16,113	+2	270,436	+1
Louisiana.....	966	50,337	+1.9	982,705	+1.1	235	27,730	+1.2	491,414	+1.6
Oklahoma.....	1,359	45,029	+1	1,130,347	-1.8	140	12,867	+(⁹)	310,405	-5.0
Texas.....	11,178	95,040	+2.3	2,363,728	-3	638	49,196	+1.1	1,240,796	-1.8
Mountain	4,375	151,530	+2.6	3,999,997	-7	572	46,841	+2.8	1,169,734	-3.8
Montana.....	678	22,618	-(⁸)	680,515	-6	80	5,361	-3.2	152,480	-3.5
Idaho.....	449	11,628	+4.4	323,683	+1.2	53	3,573	+2.8	102,058	-1.5
Wyoming.....	340	10,156	+4.8	293,696	+6.7	40	1,933	+1.3	60,058	-3.1
Colorado.....	1,238	50,240	+3.8	1,234,954	-2.2	190	20,030	+4.1	489,963	-6.1
New Mexico.....	312	7,435	+2	164,115	-3	32	879	-1.8	17,089	-2.5
Arizona.....	474	20,014	-1.0	562,279	-5.2	41	3,597	-2.4	90,069	-8.4
Utah.....	674	25,701	+4.2	629,632	+2.3	113	10,553	+6.5	230,742	+2.0
Nevada.....	210	3,738	+2.1	111,123	-2.2	22	915	+4	27,275	-5.5
Pacific	8,535	472,029	+5	12,761,919	-3.6	2,351	281,818	-2	7,308,447	-6.0
Washington.....	3,044	115,822	+1.3	3,008,551	+6	569	69,383	+11.8	1,704,679	-9
Oregon.....	1,354	63,593	+4.6	1,644,528	-9	305	39,502	+6.9	985,904	-1.0
California.....	12,437	292,614	-3	8,108,840	-5.6	1,477	172,933	-5.7	4,615,864	-8.6

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

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

³ Includes laundries.

⁴ Weighted percentage change.

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

⁶ Includes construction but not public works.

⁷ Does not include logging.

⁸ Less than 1/10 of 1 percent.

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 IN PRINCIPAL CITIES

A comparison of employment and pay rolls in August and September 1937 is made for 13 cities which had a population of 500,000 or over in 1930. The figures represent reports from cooperating establishments and cover both full- and part-time workers in miscellaneous manufacturing and nonmanufacturing industries as well as in the manufacturing and nonmanufacturing industries presented in table 4 except building construction.

TABLE 9.—*Comparison of Employment and Pay Rolls in Identical Establishments in August and September 1937, by Principal Cities*

City	Number of establishments	Number on pay roll September 1937	Percentage change from August 1937	Amount of pay roll (1 week) September 1937	Percentage change from August 1937
New York, N. Y.....	15, 129	671, 937	+3.2	\$17, 962, 665	+0.6
Chicago, Ill.....	4, 465	510, 420	+1.3	14, 612, 786	— .1
Philadelphia, Pa.....	2, 359	219, 400	+1.0	5, 897, 003	—1.4
Detroit, Mich.....	1, 654	348, 123	+5.7	11, 049, 929	—7.1
Los Angeles, Calif.....	2, 959	159, 541	— .2	4, 433, 997	—2.8
Cleveland, Ohio.....	1, 771	148, 699	+2.1	4, 141, 445	—1.5
St. Louis, Mo.....	1, 561	142, 446	—1.5	3, 508, 988	—6.1
Baltimore, Md.....	1, 174	105, 312	+1.9	2, 626, 832	—1.3
Boston, Mass.....	3, 723	192, 099	+ .6	4, 794, 488	— .6
Pittsburgh, Pa.....	1, 236	232, 967	+ .8	6, 568, 813	—6.9
San Francisco, Calif.....	1, 677	93, 808	+ .6	2, 767, 320	—1.3
Buffalo, N. Y.....	785	71, 339	+ .9	2, 076, 136	—3.1
Milwaukee, Wis.....	1, 035	114, 240	+5.2	3, 044, 723	— .1

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. The Public Works Administration was continued until July 1, 1939, by the Public Works Extension Act of 1937.

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 was continued by Title II of the First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936, and was further continued by the Emergency Relief Appropriation Act of 1937. Employment created by this program includes employment on Federal projects and employment on projects operated by the Works Progress Administration. Federal projects are those conducted by Federal agencies which have received allotments from The Works Program fund. Projects operated by the Works Progress Administration are those projects conducted under the supervision of the Works Progress Administration with the cooperation of States, cities, or counties.

The Civilian Conservation Corps, created in April 1933, was further extended under the authority of the Emergency Relief Appropriation Act of 1935. During the fiscal year 1937 the Civilian Conservation Corps was continued from appropriations authorized by the First Deficiency Appropriation Act of 1936. Beginning with July 1, 1937, the Civilian Conservation Corps was continued for 3 years by an act of Congress.

EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment and pay rolls for the executive service of the Federal Government in August and September 1937 are given in table 10.

TABLE 10.—Employment and Pay Rolls for the Executive Service of the U. S. Government, August and September 1937¹
[Subject to revision]

Item	Employment		Per-centage change	Pay rolls		Per-centage change
	Septem-ber	Aug-ust ²		September	August ²	
Entire service:						
Total.....	836, 173	843, 082	—0. 82	\$125, 897, 930	\$126, 541, 673	—0. 51
Regular appropriation.....	700, 155	703, 459	— . 47	108, 180, 115	108, 400, 435	— . 20
Emergency appropriation.....	71, 691	76, 359	—6. 11	9, 699, 853	10, 269, 788	—5. 55
Force-account.....	64, 327	63, 264	+1. 68	8, 017, 962	7, 871, 450	+1. 86
Inside the District of Columbia:						
Total.....	111, 608	111, 591	+ . 02	19, 610, 094	19, 512, 247	+ . 50
Regular appropriation.....	91, 710	91, 333	+ . 41	16, 506, 536	16, 314, 674	+1. 18
Emergency appropriation.....	14, 197	14, 596	—2. 73	2, 264, 081	2, 320, 860	—2. 45
Force-account.....	5, 701	5, 662	+ . 69	839, 477	876, 713	—4. 25
Outside the District of Columbia:						
Total.....	724, 565	731, 491	— . 95	106, 287, 836	107, 029, 426	— . 69
Regular appropriation.....	608, 445	612, 126	— . 60	91, 673, 579	92, 085, 761	— . 45
Emergency appropriation.....	57, 494	61, 763	—6. 91	7, 435, 772	7, 948, 928	—6. 46
Force-account.....	58, 626	57, 602	+1. 78	7, 178, 485	6, 994, 737	+2. 63

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

² Revised.

The monthly record of employment in the executive service of the United States Government from September 1936 to September 1937, inclusive, is shown in table 11.

TABLE 11.—Employment in the Executive Service of the U. S. Government, by Months, September 1936 through September 1937 ¹

[Subject to revision]

Month	District of Columbia	Outside District of Columbia	Total	Month	District of Columbia	Outside District of Columbia	Total
<i>1936</i>				<i>1937—Continued</i>			
September.....	115, 050	718, 990	834, 040	March.....	116, 535	713, 047	829, 582
October.....	114, 783	724, 361	839, 144	April.....	116, 755	718, 884	835, 639
November.....	115, 174	722, 098	837, 272	May.....	116, 274	724, 247	840, 521
December.....	116, 345	712, 962	829, 307	June ²	112, 118	758, 144	870, 262
<i>1937</i>				July ²	111, 288	737, 925	849, 213
January.....	116, 259	713, 924	830, 183	August ²	111, 591	731, 491	843, 082
February.....	116, 259	710, 462	826, 721	September.....	111, 608	724, 565	836, 173

¹ From June 1937 data include number of employees receiving pay during the last pay period of the month.

² Revised.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

Details concerning employment, pay rolls, and man-hours worked during September on construction projects financed by Public Works Administration funds are given in table 12, by type of project.

Federal construction projects for which data are included in tables 12 and 13 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.

TABLE 12.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, September 1937¹

[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 ¹	Weekly average				
	Federal projects financed from N. I. R. A. funds					
All projects.....	\$ 28,701	26,890	\$2,909,749	3,785,002	\$0.769	\$3,070,541
Building construction.....	4,239	3,608	527,214	491,640	1.072	582,150
Naval vessels.....	7,243	7,005	939,153	1,113,671	.843	605,717
Public roads.....	(9)	8,495	492,250	949,328	.519	600,000
Reclamation.....	2,470	2,262	293,369	370,921	.791	772,952
River, harbor, and flood control.....	5,841	5,156	624,698	818,270	.763	493,950
Streets and roads.....	98	88	7,433	9,090	.818	5,311
Water and sewerage.....	9	9	168	279	.602	0
Miscellaneous.....	306	267	25,464	31,803	.801	10,461
	Non-Federal projects financed from N. I. R. A. funds					
All projects.....	23,454	19,521	\$2,090,320	2,185,854	\$0.956	\$4,391,418
Building construction.....	9,903	8,097	852,967	808,865	1.055	2,110,939
Railroad construction.....	277	277	1,859	3,450	.539	0
Streets and roads.....	2,165	1,654	150,623	195,242	.771	209,629
Water and sewerage.....	9,199	7,913	971,801	972,451	.999	1,762,458
Miscellaneous.....	1,910	1,580	113,070	205,846	.549	308,392
	Projects financed from E. R. A. A. 1935 and 1936 funds ²					
All projects ³	114,803	95,262	\$9,309,180	11,411,949	\$0.816	\$16,065,674
Building construction ⁴	61,233	50,574	5,392,292	5,744,700	.939	8,634,265
Electrification.....	556	417	32,860	43,010	.864	74,448
Heavy engineering.....	6,393	5,524	556,663	733,695	.759	1,872,114
Reclamation.....	912	760	94,780	114,827	.825	78,800
River, harbor, and flood control.....	209	176	9,881	21,374	.462	3,572
Streets and roads.....	23,651	19,301	1,374,488	2,341,284	.587	2,326,907
Water and sewerage.....	20,630	17,630	1,738,659	2,292,324	.758	2,376,431
Miscellaneous.....	1,219	880	109,557	120,735	.907	699,137

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 13,331 and an average of 11,052 employees working on low-cost housing projects financed from E. R. A. A. 1935 funds who were paid \$1,554,058 for 1,527,027 man-hours of labor. Material orders in the amount of \$1,569,682 were placed for these projects. These data are also included in separate tables covering projects financed from The Works Program.

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 September 1937, inclusive, is given in table 13.

TABLE 13.—*Employment and Pay Rolls, July 1933 to September 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 September 1937, inclusive ^{3,4}		\$990,930,143	1,462,313,413	\$0.680	\$1,752,090,572
July to December 1933, inclusive.....	33,244,066	62,209,479	.534	75,524,702	
January to December 1934, inclusive.....	308,811,143	523,561,666	.589	511,051,090	
January to December 1935, inclusive ³	270,505,555	392,066,554	.690	439,210,679	
January to December 1936, inclusive ³	242,768,950	316,666,182	.767	401,387,008	
<i>1937</i>					
January ³	202,175	15,439,981	18,768,676	.823	26,922,308
February ³	175,990	13,796,390	16,580,393	.832	19,390,733
March ³	173,574	13,353,904	16,341,250	.817	20,652,435
April ³	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	16,430,649	20,510,465	.801	26,151,770
July ³	198,483	16,250,846	20,057,290	.810	24,945,172
August ³	187,822	15,426,466	19,115,326	.807	25,714,152
September ³	166,958	14,309,249	17,382,805	.823	23,527,633

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 September is shown in table 14, by type of project.

TABLE 14.—Employment and Pay Rolls on Projects Financed by The Works Program, September 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.....	193, 114	176, 268	\$11, 500, 978	20, 583, 498	\$0. 559	\$5, 566, 224
Building construction.....	49, 685	46, 888	3, 364, 548	5, 207, 986	. 646	618, 636
Electrification.....	998	809	68, 864	121, 576	. 566	250, 306
Forestry.....	12, 632	11, 451	586, 458	1, 273, 415	. 461	103, 378
Grade-crossing elimination.....	16, 933	13, 829	1, 072, 158	1, 646, 657	. 651	1, 463, 349
Hydroelectric power plants ³	1, 823	1, 722	49, 746	183, 313	. 271	12, 234
Plant, crop, and livestock conservation.....	17, 566	15, 745	756, 175	2, 144, 683	. 353	88, 112
Professional, technical, and clerical.....	6, 770	6, 767	534, 178	858, 426	. 622	69, 952
Public roads.....	21, 612	17, 612	1, 194, 548	2, 145, 845	. 557	1, 542, 786
Reclamation.....	46, 701	44, 987	2, 889, 414	5, 355, 981	. 539	982, 078
River, harbor, and flood control.....	11, 612	10, 409	682, 154	981, 921	. 695	299, 036
Streets and roads.....	3, 726	3, 382	178, 277	364, 371	. 489	33, 391
Water and sewerage.....	946	816	24, 124	94, 764	. 255	15, 578
Miscellaneous.....	2, 110	1, 851	100, 334	204, 560	. 490	78, 388
P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds ⁴						
All projects.....	114, 803	95, 262	\$9, 309, 180	11, 411, 949	\$0. 816	\$16, 065, 674
Building construction.....	61, 233	50, 574	5, 392, 292	5, 744, 700	. 939	8, 634, 265
Electrification.....	556	417	32, 860	43, 010	. 864	74, 448
Heavy engineering.....	6, 393	5, 524	556, 663	733, 695	. 759	1, 872, 114
Reclamation.....	912	760	94, 780	114, 827	. 825	78, 800
River, harbor, and flood control.....	209	176	9, 881	21, 374	. 462	3, 572
Streets and roads.....	23, 651	19, 301	1, 374, 488	2, 341, 284	. 587	2, 326, 907
Water and sewerage.....	20, 630	17, 630	1, 738, 659	2, 292, 324	. 758	2, 376, 431
Miscellaneous.....	1, 219	880	109, 557	120, 735	. 907	699, 137
Projects operated by Works Progress Administration ⁵						
All projects.....	1, 536, 029		\$81, 250, 907	153, 858, 375	\$0. 528	(⁶)
Conservation.....	60, 576		2, 871, 111	5, 622, 005	. 511	
Highway, road, and street.....	548, 632		25, 639, 819	54, 027, 412	. 475	
Housing.....	3, 298		198, 815	298, 789	. 665	
Professional, technical, and clerical.....	181, 249		13, 112, 240	19, 541, 046	. 671	
Public buildings.....	159, 129		9, 478, 860	14, 137, 701	. 670	
Publicly owned or operated utilities.....	141, 849		7, 066, 941	14, 064, 229	. 545	
Recreational facilities ⁷	134, 139		7, 859, 048	13, 040, 907	. 603	
Sanitation and health.....	47, 228		2, 038, 297	4, 658, 946	. 438	
Sewing, canning, gardening, etc.....	180, 265		8, 096, 271	20, 026, 009	. 404	
Transportation.....	27, 760		1, 615, 779	2, 756, 585	. 586	
Not elsewhere classified.....	51, 904		2, 673, 726	5, 684, 746	. 470	

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

² Maximum number employed during any 1 week of the month on Federal projects and P. W. A. projects by each contractor and Government agency doing force-account work.

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

⁴ Includes data for 101,472 employees working on non-Federal projects and 13,331 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 September are shown in table 15, by type of project.

TABLE 15.—Employment and Pay Rolls on National Youth Administration Projects Financed by The Works Program, September 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.....	162,700	\$2,358,000	6,445,000	\$0.366	-----
Work projects.....	126,700	2,207,000	5,795,000	.381	(2)
Student Aid.....	36,000	151,000	650,000	.232	(2)

¹ These data are for the 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 September 1937, inclusive, are given in table 16.

Table 17 shows the employment, pay rolls, and man-hours worked on work projects of the National Youth Administration from January 1936 to September 1937, inclusive. Similar data for Student Aid projects are shown from September 1935 to September 1937, inclusive.

TABLE 16.—Employment and Pay Rolls, July 1935 to September 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 September 1937, inclusive.....	-----	\$382,707,701	813,235,326	\$0.471	\$241,732,721
July to December 1935.....	-----	34,813,554	77,558,683	.449	34,358,011
January to December 1936.....	-----	228,024,201	501,501,344	.455	142,937,728
1937					
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
July.....	262,487	12,799,774	24,371,372	.525	7,041,736
August.....	207,331	12,004,981	21,623,626	.555	6,920,085
September.....	193,114	11,500,978	20,583,498	.559	5,566,224
P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds ³					
July 1935 to September 1937, inclusive.....	-----	\$194,783,405	251,783,337	\$0.774	\$371,708,194
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
1937					
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
July.....	139,701	10,811,528	13,339,272	.811	18,542,402
August.....	131,547	10,183,970	12,808,735	.795	19,420,304
September.....	114,803	9,309,180	11,411,949	.816	16,065,674
Projects operated by Works Progress Administration ⁴					
July 1935 to September 1937, inclusive.....	-----	\$2,769,850,851	5,825,429,706	\$0.475	\$842,953,628
July to December 1935 ⁵	-----	238,018,075	570,184,607	.417	-----
January to December 1936 ⁶	-----	1,592,942,964	3,432,621,686	.464	-----
1937					
January ⁶	2,243,545	115,065,444	223,245,896	.515	-----
February ⁶	2,255,067	116,256,506	230,853,339	.504	-----
March ⁶	2,216,499	117,124,860	230,166,494	.509	-----
April ⁶	2,201,404	114,004,768	225,291,463	.506	-----
May ⁶	2,133,472	112,382,869	217,780,857	.516	-----
June ⁶	2,020,218	106,975,172	205,215,318	.521	-----
July ⁶	1,802,659	92,967,642	177,161,345	.525	-----
August.....	1,601,054	82,861,644	159,050,326	.521	-----
September.....	1,536,029	81,250,907	153,858,375	.528	-----

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

² Maximum number employed during any 1 week of the month on Federal projects and P. W. A. projects by each contractor and Government agency doing force-account work.

³ These data are included in tables covering projects under the jurisdiction of the Public Works Administration. The data for September include 101,472 employees working on non-Federal projects

and 13,331 employees working on low-cost housing projects.

⁴ These data are for a calendar month and exclude both work projects and Student Aid projects of the National Youth Administration which appear in a separate table.

⁵ Data on a monthly basis are not available. Includes rentals and services and some sponsors' contributions.

⁶ Revised.

TABLE 17.—Employment and Pay Rolls from Beginning of Program Through September 1937 on National Youth Administration 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 September 1937, inclusive.....		\$54,539,580	144,424,204	\$0.378	² \$3,982,208
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	
July.....	149,628	2,480,982	6,538,705	.379	
August.....	132,787	2,342,172	6,093,557	.384	
September.....	126,700	2,207,000	5,795,000	.381	
Student Aid					
September 1935 to September 1937, inclusive.....		\$50,392,887	167,369,995	\$0.301	(³)
September to December 1935.....		6,363,503	19,612,976	.324	
January to December 1936.....		25,722,951	84,897,469	.303	
1937					
January.....	412,316	2,943,731	10,142,349	.290	
February.....	417,470	3,161,600	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.....	240,460	1,852,006	5,978,410	.310	
July.....	2,956	13,231	58,069	.228	
August.....	17	81	400	.203	
September.....	36,000	151,000	650,000	.232	

¹ These data are for a calendar month.

² These data are not available on a monthly basis. Includes rentals and services and some sponsors' contributions.

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 August and September 1937 are presented in table 18. The Civilian Conservation Corps is usually regarded as a part of The Works Program, although it is now financed by a separate appropriation.

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

TABLE 18.—Employment and Pay Rolls in the Civilian Conservation Corps, August and September 1937 ¹

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	September	August	September	August
All groups.....	289, 167	327, 381	\$14, 942, 683	² \$16, 380, 020
Enrolled personnel ³	238, 627	274, 258	7, 559, 583	² 8, 593, 241
Reserve officers.....	6, 696	7, 183	1, 775, 997	1, 893, 670
Nurses ⁴	259	301	27, 444	32, 111
Educational advisers ⁴	1, 857	1, 882	310, 468	316, 494
Supervisory and technical ⁴	41, 728	² 43, 756	5, 269, 191	5, 550, 508

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

² Revised.

³ September data include 3,095 enrollees and pay roll of \$64,070; August, 2,854 enrollees and pay roll of \$67,748 outside continental United States.

⁴ Included in executive service, tables 10 and 11.

Monthly statistics of employment and pay rolls in the Civilian Conservation Corps from September 1936 to September 1937, inclusive, are given in table 19.

TABLE 19.—Employment and Pay Rolls in the Civilian Conservation Corps, by Months, September 1936 Through September 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—Continued</i>		
September.....	318, 707	\$16, 005, 247	March.....	307, 337	\$15, 770, 090
October.....	402, 669	17, 292, 812	April.....	369, 309	17, 502, 905
November.....	389, 122	18, 232, 391	May.....	348, 905	16, 719, 019
December.....	374, 744	17, 738, 965	June.....	323, 626	16, 085, 832
<i>1937</i>			July.....	348, 779	16, 851, 511
January.....	407, 723	18, 650, 537	August.....	327, 381	² 16, 380, 024
February.....	394, 521	18, 314, 594	September.....	289, 167	14, 942, 683

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

² Revised.

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 September are presented in table 20, by type of project.

TABLE 20.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, September 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.....	3, 215	\$448, 114	523, 337	\$0. 856	\$795, 313
Building construction ³	262	21, 546	24, 390	.866	104, 567
Water and sewerage.....	2, 795	414, 933	482, 244	.860	682, 720
Miscellaneous.....	153	11, 635	16, 203	.718	8, 026

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 130 employees; pay-roll disbursements of \$13,509; 10,921 man-hours worked; and material orders placed during the month amounting to \$10,864 on projects financed by RFC Mortgage Co.

A monthly summary of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation from September 1936 to September 1937, inclusive, is given in table 21.

TABLE 21.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, September 1936 Through September 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>					
September.....	10, 290	\$1, 085, 642	1, 510, 109	\$0. 719	\$1, 410, 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, 299	864, 776	1, 150, 721	.752	1, 018, 058
March.....	7, 696	929, 032	1, 191, 977	.779	1, 138, 460
April.....	8, 226	1, 041, 260	1, 295, 053	.804	1, 023, 599
May.....	5, 847	790, 018	967, 273	.817	902, 762
June.....	4, 898	690, 822	823, 541	.839	835, 382
July.....	4, 099	574, 541	670, 956	.856	620, 736
August.....	4, 065	585, 510	681, 692	.859	1, 632, 503
September.....	3, 215	448, 114	523, 337	.856	795, 313

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 FEDERAL 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, and 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 Federal appropriations for which contracts were awarded previous to that date.

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during September are given in table 22, by type of project.

TABLE 22.—Employment on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, September 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.....	³ 206,663	197,767	\$21,667,700	31,476,926	\$0.688	\$31,993,137
Building construction.....	18,016	14,703	1,652,558	1,839,279	.898	2,762,079
Electrification.....	2,859	2,338	188,101	343,818	.547	1,290,782
Forestry.....	116	109	8,351	17,993	.464	1,156
Heavy engineering.....	34	25	2,523	2,946	.856	615
Naval vessels.....	40,635	39,976	5,471,227	6,218,676	.880	4,009,422
Public roads ⁴	(*)	95,407	9,296,589	15,739,328	.591	11,331,546
Reclamation.....	13,164	12,647	1,509,381	2,037,106	.741	6,431,274
River, harbor, and flood control.....	31,520	28,129	3,226,870	4,782,406	.675	5,410,274
Streets and roads.....	2,201	2,006	132,728	264,332	.502	239,899
Water and sewerage.....	319	259	21,500	29,589	.727	33,500
Miscellaneous.....	2,392	2,168	157,872	201,453	.784	482,590

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 Federal appropriations from September 1936 to September 1937, inclusive, are shown by months in table 23.

TABLE 23.—Employment on Construction Projects Financed from Regular Federal Appropriations, September 1936 Through September 1937¹

[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>					
September.....	166,902	\$14,846,961	22,475,820	\$0.661	\$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
July.....	193,695	19,599,384	29,236,412	.670	24,485,499
August.....	204,174	19,571,849	28,396,014	.689	29,665,521
September.....	206,663	21,667,700	31,476,926	.688	31,993,137

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-ROAD PROJECTS

A record of employment and pay-roll disbursements in the construction and maintenance of State roads from September 1936 to September 1937, inclusive, is presented in table 24.

TABLE 24.—Employment on Construction and Maintenance of State Roads, September 1936 Through September 1937¹

[Subject to revision]

Month	Number of employees working on 2—			Total pay roll
	New roads	Maintenance	Total	
1936				
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	148,302	167,774	11,069,510
July.....	25,140	149,907	175,047	11,998,370
August.....	28,379	160,143	188,522	12,815,790
September.....	26,632	167,028	193,660	12,843,370

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 third quarter of 1937 ¹ is presented in table 25.

In the third quarter of 1937 on the Public Works Administration program, orders have been placed for materials valued at approximately \$74,187,000. Of this amount, \$21,136,000 has been expended for iron and steel products, \$5,733,000 for cement, \$6,000,000 for forest products, and \$9,979,000 for machinery.

On projects operated by the Works Progress Administration, material orders placed in the third quarter of 1937 amounted to \$58,025,000. 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 manufacturer of the materials used on the projects also creates a large amount of employment.

It is estimated that in fabricating the materials used on the various programs (table 3) approximately 662,000 man-months of labor have been, or will be 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.

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 1935.

The value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, by type of material, for the third quarter of 1937, the second quarter of 1937, and the third quarter of 1936 is shown in table 26.

¹ Unless otherwise specified, data presented in this section are for quarterly periods ending on Mar. 15, June 15, Sept. 15, and Dec. 15.

TABLE 25.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Third Quarter, 1937¹

[Subject to revision]

Type of material	Total	Projects				
		Public Works Administration ²	Reconstruction Finance Corporation ³	Regular Federal ⁴	Federal construction under The Works Program	Operated by W. P. A. ⁵
All materials.....	\$240,780,858	\$74,186,957	\$3,048,560	\$86,144,157	\$19,375,780	\$58,025,404
Textiles and their products.....	\$ 7,684,503	229,508	457	53,238	24,366	\$ 7,376,934
Awnings, tents, canvas, etc.....	14,516	2,244	216	7,541	4,515	-----
Carpets and rugs.....	8,341	8,341	-----	-----	-----	-----
Cordage and twine.....	28,506	8,907	10	17,798	1,875	-----
Cotton goods.....	7,013	6,146	231	404	232	-----
Felt goods.....	9,736	4,584	-----	3,151	1,998	-----
Fute goods.....	6,739	6,179	-----	-----	560	-----
Linoleum.....	224,825	192,210	-----	19,723	12,892	-----
Sacks and bags.....	3,329	189	-----	1,455	1,685	-----
Upholstering materials, n. e. c.....	94	57	-----	-----	37	-----
Waste.....	4,386	651	-----	3,163	572	-----
Forest products.....	\$ 16,972,993	6,040,191	43,881	3,181,118	2,050,305	\$ 5,657,495
Cork products.....	51,318	34,513	-----	15,522	1,283	-----
Lumber and timber products, n. e. c.....	8,428,824	3,988,587	41,938	2,822,358	1,575,941	-----
Planing-mill products.....	2,756,713	1,943,363	1,943	338,675	472,732	-----
Window and door screens and weatherstrip.....	78,643	73,731	-----	4,563	349	-----
Chemicals and allied products.....	\$ 3,416,835	736,034	61,671	528,115	403,837	\$ 1,687,128
Ammunition and related products.....	11,580	11,580	-----	-----	-----	-----
Chemicals, miscellaneous.....	37,007	15,585	12	10,031	11,379	-----
Compressed and liquefied gases.....	70,481	16,865	9,678	19,299	24,699	-----
Explosives.....	790,177	202,664	51,194	354,321	182,028	-----
Paints and varnishes.....	1,864,974	489,340	817	144,524	155,781	1,044,512
Stone, clay, and glass products.....	\$ 71,503,963	21,232,036	478,779	26,866,011	5,237,332	\$ 17,688,905
Asbestos products, n. e. c.....	8,883	7,906	-----	353	624	-----
Brick, hollow tile, and other clay products.....	6,248,767	3,607,429	806	408,222	200,865	2,031,445
Cement.....	26,326,666	5,732,768	382,595	13,400,541	1,999,064	4,811,692
Concrete products.....	6,393,052	3,297,995	227	432,880	794,874	1,867,076
Crushed stone.....	9,595,496	1,403,785	4,736	4,269,555	594,085	3,323,335
Glass.....	398,028	328,487	2,043	54,010	13,488	-----
Lime.....	51,016	45,576	-----	3,215	2,225	-----
Marble, granite, slate, and other stone products.....	3,708,572	2,232,609	154	1,360,558	204,251	-----
Minerals and earths, ground or otherwise treated.....	65,403	62,364	-----	2,946	93	-----
Sand and gravel.....	14,802,293	3,172,889	84,970	6,697,596	1,291,963	3,554,875
Tiling, floor and wall, and terrazzo.....	687,324	531,711	2,808	95,830	56,975	-----
Wall plaster, wall board, insulating board, and floor composition.....	1,027,987	807,517	440	141,205	78,825	-----
Iron and steel and their products, not including machinery.....	\$ 50,979,582	21,136,256	651,152	15,328,599	4,606,841	\$ 9,256,734
Bolts, nuts, washers, etc.....	431,427	186,260	3,085	159,090	82,992	-----
Cast-iron pipe and fittings.....	5,921,945	2,431,515	3,785	388,477	170,862	2,927,306
Doors, shutters and window sash and frames, molding, and trim (metal).....	1,813,231	1,193,707	2,760	580,343	36,421	-----
Forgings, iron and steel.....	710,736	204,324	554	415,398	90,460	-----
Hardware, miscellaneous.....	1,890,551	1,154,720	61,553	369,136	305,142	-----
Heating and ventilating equipment.....	4,676,395	3,321,527	7,734	767,895	82,831	496,408
Nails and spikes.....	241,710	127,721	178	29,222	84,589	-----
Rail fastenings, excluding spikes.....	9,028	8,497	-----	531	-----	-----
Rails, steel.....	191,582	87,965	-----	99,908	3,709	-----
Steel-works and rolling-mill products, n. e. c.....	6,588,965	3,214,165	211,010	2,644,153	519,637	-----
Stoves and ranges, other than electric.....	12,977	8,367	-----	136	4,474	-----

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

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

³ Does not include material orders placed on projects for which contracts were awarded before

Mar. 15, 1934. Includes projects financed by RFC Mortgage Co.

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

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

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

TABLE 25.—*Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Third Quarter, 1937—Continued*

Type of material	Total	Projects				
		Public Works Administration	Reconstruction Finance Corporation	Regular Federal	Federal construction under The Works Program	Operated by W. P. A.
Structural and reinforcing steel.....	\$22,736,701	\$8,197,454	\$284,788	\$8,755,643	\$2,855,654	\$2,643,162
Switches, railway.....	1,034	1,034	.....	.....	.....	.....
Tools, other than machine tools.....	1,331,411	57,425	600	504,528	111,754	657,104
Wire products, n. e. c.....	1,187,844	395,986	13,195	529,856	248,807	.....
Wrought pipe.....	701,291	545,589	61,910	84,283	9,509	.....
Nonferrous metals and their products.....	\$ 1,701,296	879,878	23,908	324,112	208,884	\$ 264,514
Aluminum manufactures.....	104,027	35,367	.....	64,370	4,290	.....
Copper products.....	213,163	154,517	21,823	34,982	1,841	.....
Lead products.....	39,610	34,299	.....	4,061	1,250	.....
Nonferrous-metal alloys and products, n. e. c.....	252,530	96,289	1,953	141,059	13,229	.....
Sheet-metal work.....	826,105	558,719	132	79,184	188,070	.....
Zinc products.....	1,347	687	.....	456	204	.....
Machinery, not including transportation equipment.....	\$ 41,682,371	9,978,907	1,485,873	25,584,149	2,115,743	\$ 2,517,699
Electrical machinery, apparatus, and supplies.....	14,029,542	2,836,175	711,142	8,655,593	660,049	1,166,583
Elevators and elevator equipment.....	711,319	449,758	.....	258,169	3,392	.....
Engines, turbines, tractors, and waterwheels.....	6,045,996	1,195,113	8,435	4,516,295	326,153	.....
Foundry and machine-shop products, n. e. c.....	18,115,087	4,572,809	764,957	10,566,404	927,936	1,282,981
Machine tools.....	275,421	111,058	175	129,591	34,597	.....
Meters (gas, water, etc.) and gas generators.....	50,858	45,268	.....	4,910	680	.....
Pumps and pumping equipment.....	2,270,973	672,368	1,164	1,436,202	161,239	.....
Refrigerators and refrigerating and ice-making apparatus.....	115,040	96,358	.....	16,985	1,697	.....
Transportation equipment, air, land, and water.....	381,417	133,090	3,156	29,302	159,446	56,423
Boats, steel and wooden (small).....	27,052	5,766	.....	19,625	1,661	.....
Carriages and wagons.....	2,743	1,755	.....	.....	988	.....
Locomotives, steam.....	23,550	23,550	.....	.....	.....	.....
Motor vehicles, passenger.....	29,725	1,812	3,156	3,208	21,549	.....
Motor vehicles, trucks.....	298,347	100,207	.....	6,469	135,248	56,423
Miscellaneous.....	46,457,898	13,821,054	299,683	14,248,613	4,568,976	13,519,572
Belting, miscellaneous.....	1,644	753	.....	334	557	.....
Coal.....	277,756	26,922	.....	116,624	29,150	105,060
Creosote.....	6,682	5,017	.....	71	1,594	.....
Electric wiring and fixtures.....	7,585,952	2,903,679	17,653	4,057,875	606,745	.....
Furniture, including store and office fixtures.....	3,268,964	2,576,168	.....	17,008	8,208	667,580
Instruments, professional and scientific.....	82,744	26,350	.....	56,249	145	.....
Mattresses and bed springs.....	8,879	6,176	.....	2,703	.....	.....
Models and patterns.....	15,258	15,237	.....	18	3	.....
Paper products.....	11,333	9,194	.....	1,160	979	.....
Paving materials and mixtures, n. e. c.....	9,220,453	1,246,650	.....	1,581,613	738,733	5,653,457
Petroleum products.....	8,267,167	1,612,205	127,890	4,078,116	1,086,706	1,362,250
Photographic apparatus and materials.....	37,626	11,740	.....	25,383	503	.....
Plumbing supplies, n. e. c.....	3,651,548	2,223,876	9,056	466,398	401,895	550,323
Radio apparatus and supplies.....	8,143	4,939	.....	3,204	.....	.....
Roofing materials, n. e. c.....	894,762	632,014	1,428	101,869	159,451	.....
Rubber goods.....	267,301	47,978	31,235	42,206	50,363	95,519
Steam and other packing, pipe and boiler covering, and gaskets.....	268,125	207,174	.....	60,168	783	.....
Theatrical scenery and stage equipment.....	78,838	78,838	.....	.....	.....	.....
Window shades and fixtures.....	78,702	75,832	.....	1,659	1,211	.....
Other materials.....	12,426,021	2,110,312	112,421	3,635,955	1,481,950	5,085,383

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

TABLE 26.—Value of Material Orders Placed on Federal Professional, Technical, and Clerical Projects Financed by The Works Program

[Subject to revision]

Type of material	Third quarter of 1937	Second quarter of 1937	Third quarter of 1936
Total.....	\$161, 265	\$279, 893	\$406, 929
Computing machines.....	352	8, 000	17, 780
Furniture.....	2, 825	14, 641	34, 985
Office supplies.....	35, 529	49, 984	72, 184
Stationery.....	6, 502	11, 064	5, 925
Typewriters.....	270	1, 289	4, 506
Other office machines.....	866	4, 695	30, 484
Other materials.....	72, 763	119, 614	133, 367
Rental of machinery and equipment.....	42, 158	70, 606	107, 698

A cumulative total for rentals and services on projects operated by the Works Progress Administration from July 1935 to December 1936, inclusive, and for the first, second, and third quarters of 1937, is shown in table 27, by type of rental and service.

TABLE 27.—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	Third quarter of 1937 ³
All rentals and services.....	\$212, 105, 768	\$46, 150, 914	\$39, 128, 795	\$41, 632, 998
Buses and autos.....	2, 660, 632	742, 342	565, 237	487, 329
Teams and wagons.....	15, 660, 403	2, 202, 463	1, 313, 122	1, 005, 987
Trucks and vans.....	115, 957, 483	22, 734, 107	18, 160, 926	19, 856, 660
Paving, road-building, and construction equipment.....	54, 855, 178	13, 532, 815	11, 723, 627	13, 820, 540
Other equipment (including office equipment).....	5, 844, 836	685, 243	836, 416	695, 192
Space rentals and services.....	5, 812, 968	2, 043, 446	2, 359, 897	2, 074, 500
Other services (including utilities).....	11, 314, 268	4, 210, 498	4, 169, 570	3, 692, 790

¹ Quarterly period ending Mar. 31, 1937.

² Quarterly period ending June 30, 1937.

³ Quarterly period ending Sept. 30, 1937.

Table 28 shows a cumulative total for rentals and services on work projects of the National Youth Administration from the beginning of the program in January to June 1937 and for the third quarter of 1937.

TABLE 28.—Rentals and Services on Work Projects of National Youth Administration

[Subject to revision]

Type of rental and service	January 1936 through June 1937	Third quarter of 1937 ¹
All rentals and services.....	\$1, 009, 400	\$383, 447
Buses and autos.....	15, 949	5, 564
Teams and wagons.....	15, 993	4, 172
Trucks and vans.....	197, 989	76, 991
Paving, road building, and construction equipment.....	89, 987	26, 972
Other equipment (including office equipment).....	172, 896	39, 974
Space rentals and services.....	378, 444	174, 049
Other services (including utilities).....	138, 142	55, 725

¹ Quarterly period ending Sept. 30, 1937.

In connection with the administration of the Walsh-Healey 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 29 shows the cumulative total value of public contracts awarded under the act for materials from September 28, 1936, to December 1936, inclusive, and for the first, second, and third quarters of 1937.

The first public contracts were awarded under the act in September 1936.

TABLE 29.—*Value of Supply Contracts Awarded by the Federal Government Which Contain Agreements to Comply With the Public Contracts Act*

[Subject to revision]

Type of materials	Value of contracts awarded			
	Sept. 28, 1936, through Dec. 31, 1936 ¹	First quarter of 1937 ²	Second quarter of 1937 ³	Third quarter of 1937 ⁴
All materials.....	\$40,006,772	\$76,439,523	\$93,639,025	\$41,673,896
Food and kindred products.....	1,425,903	4,066,107	3,251,034	2,437,695
Canned fruits and vegetables.....	74,377	265,654	425,974	1,249,687
Canned sea foods.....				88,251
Cereal preparations.....	12,860	26,826	11,682	12,741
Coffee.....	92,103	633,803	383,056	185,984
Condensed and evaporated milk.....	60,313	329,639	619,898	39,559
Feeds, prepared, for animals and fowls.....	178,897	392,322	219,420	213,793
Flour and other grain-mill products.....	238,930	197,533	291,746	241,740
Meat-packing products.....	331,905	367,443	167,541	33,123
Shortenings and vegetable cooking oil.....	205,364	98,855		
Sugar.....	130,514	426,790	385,122	208,205
Tea.....	16,421			
Miscellaneous subsistence stores and supplies.....	84,219	1,327,242	746,595	159,632
Textiles and their products.....	6,501,319	34,127,602	11,046,925	7,508,110
Canvas bags and covers.....	68,811	286,697	195,576	18,975
Clothing (overcoats, suits, trousers, etc.).....	47,500	1,188,794	351,651	155,917
Cordage and twine, including thread.....	30,940	182,853	493,858	26,102
Cotton gloves.....	9,999	243,516	267,403	21,910
Cotton goods (drills, prints, sheeting, etc.).....	4,205,292	4,503,608	3,982,293	1,864,872
Cotton shirts.....	312,758	420,241	236,045	
Furnishing goods, men's, n. e. c.....	1,007,447	367,584	404,297	1,125,423
Hats.....				106,210
Housefurnishing goods (pillow cases, sheets, etc.).....	301,435	1,031,418	369,572	77,366
Knit goods (hosiery, underwear, etc.).....	34,350	1,942,308	2,678,756	576,922
Oilcloth.....	10,350			
Woolen goods (flannels, suiting, etc.).....	330,544	21,208,221	745,299	3,105,818
Work clothing.....	95,315	1,972,042	745,562	137,530
Miscellaneous textile products.....	46,548	780,320	576,613	290,765
Forest products.....	809,202	822,271	2,526,955	444,922
Cork and cork products.....	15,873		30,858	
Furniture.....	36,490	47,378	1,236,910	20,290
Lumber and timber products, n. e. c.....	392,096	462,912	701,962	173,213
Planing-mill products.....	181,729	165,638	161,226	
Treated lumber and timber.....	183,044	130,297	242,581	251,419
Miscellaneous forest products.....		16,046	153,638	

¹ For period ending Dec. 31, 1936. Revised.

² For period ending Mar. 31, 1937. Revised.

³ For period ending June 30, 1937. Revised.

⁴ For period ending Sept. 30, 1937.

TABLE 29.—Value of Supply Contracts Awarded by the Federal Government Which Contain Agreements to Comply With the Public Contracts Act—Continued

Type of materials	Value of contracts awarded			
	Sept. 28, 1936, through Dec. 31, 1936	First quarter of 1937	Second quarter of 1937	Third quarter of 1937
Chemicals and allied products.....	\$992, 535	\$1, 133, 495	\$5, 904, 144	\$2, 360, 976
Ammunition and related products.....	60, 971	37, 044	4, 177, 458	1, 034, 660
Compressed and liquefied gases.....	498, 585	32, 080	234, 503	697, 848
Explosives.....	52, 663	114, 105	448, 529	65, 036
Linseed oil.....	67, 135	59, 557	62, 577	26, 282
Paints and varnishes.....	74, 644	205, 427	298, 364	171, 520
Soap and soap chips.....	238, 537	327, 215	60, 441	365, 630
Miscellaneous chemicals.....		358, 067	622, 272	
Products of asphalt, coal, and petroleum.....	11, 396, 619	5, 096, 152	23, 625, 024	1, 727, 312
Asphalt, oil, tar, and mixtures.....	1, 545, 987	517, 909	3, 837, 954	399, 709
Coal.....	29, 746	24, 659	635, 690	499, 439
Coke.....	11, 335			16, 136
Fuel oil.....	5, 123, 845	1, 701, 792	9, 018, 471	603, 030
Gasoline.....	4, 660, 206	2, 816, 825	7, 975, 746	152, 278
Lubricating oils and greases.....		13, 967	1, 735, 211	12, 095
Miscellaneous coal and petroleum products.....	25, 500	21, 000	421, 052	44, 625
Leather and its manufactures.....	1, 237, 698	3, 105, 231	1, 614, 883	2, 176, 170
Boots and shoes.....	1, 026, 156	2, 939, 386	1, 267, 638	1, 767, 361
Boot and shoe cut stock.....		15, 077		103, 479
Gloves.....	38, 882	38, 319	185, 798	29, 380
Shoe upper leather.....	90, 325	112, 455		257, 275
Miscellaneous leather goods.....	82, 335		101, 547	18, 675
Stone, clay, and glass products.....	3, 205, 890	2, 284, 895	4, 568, 779	2, 751, 114
Brick.....	115, 883	45, 500	101, 189	
Cement.....	855, 820	1, 034, 984	2, 280, 425	1, 682, 376
Concrete pipe.....	517, 767	231, 921	169, 384	14, 360
Concrete, ready-mixed.....	220, 697	240, 093	324, 530	50, 295
Crushed stone.....	444, 669	149, 628	518, 384	150, 161
Dirt fill.....	40, 000		75, 425	
Glass.....	72, 315	16, 397	51, 557	10, 800
Granite and marble.....	56, 001	15, 119	104, 640	
Riprap stone.....	75, 900	59, 480	17, 250	41, 868
Sand and gravel.....	173, 759	124, 731	509, 934	516, 196
Soil, black earth.....	448, 900	63, 384	85, 840	34, 630
Terra cotta.....	103, 490		16, 366	
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	45, 622
Miscellaneous stone, clay, and glass products.....	13, 662	139, 386	239, 776	204, 806
Iron and steel and their products, not including machinery.....	2, 830, 560	4, 400, 305	4, 845, 320	4, 597, 374
Cast-iron pipe and fittings.....	179, 712	220, 453	65, 720	88, 677
Fencing materials.....	60, 879	10, 472	38, 382	69, 032
Firearms and parts.....			114, 525	
Forgings, iron and steel.....	114, 209	809, 125	69, 740	866, 320
Hardware, miscellaneous.....	11, 701	72, 769		36, 076
Metal doors, sash, and frames.....	11, 270	44, 559	23, 494	
Metal furniture.....	153, 430	115, 156	665, 924	87, 277
Metal shingles and roofing.....	29, 750		91, 816	42, 081
Pipe and fittings.....	73, 668		76, 638	97, 635
Plumbing fixtures.....	35, 325		77, 478	
Rails, steel.....	114, 564			79, 348
Railway tie plates.....	20, 690		10, 320	
Reinforcing bars.....	164, 069	110, 123	654, 065	619, 727
Safes.....			96, 124	
Steel pipe.....	290, 096	35, 670	269, 239	50, 556
Steel sheets, plates, shapes, and strips.....	180, 935	1, 089, 124	170, 519	619, 083
Stoves and ranges, other than electric.....				15, 967
Structural steel, fabricated, and sheet-steel piling.....	536, 301	734, 695	593, 413	817, 495
Tools, other than machine tools.....	148, 191	42, 986	26, 868	145, 964
Wire rope.....	111, 436	339, 978	201, 307	
Miscellaneous iron and steel products.....	594, 334	775, 195	1, 599, 747	962, 136

TABLE 29.—*Value of Supply Contracts Awarded by the Federal Government Which Contain Agreements to Comply With the Public Contracts Act—Continued*

Type of materials	Value of contracts awarded			
	Sept. 28, 1936, through Dec. 31, 1936	First quarter of 1937	Second quarter of 1937	Third quarter of 1937
Nonferrous metals and their alloys	\$370,063	\$1,720,297	\$1,645,031	\$1,876,162
Aluminum manufactures	90,773	87,700	611,983	222,833
Brass products .....	.....	191,887	240,062	486,901
Bronze products	80,250	15,270	72,747	43,750
Copper products	61,320	577,239	211,215	33,386
Lead, sheet .....	.....	12,874	.....	.....
Magnesium .....	.....	23,892	.....	38,527
Nickel	50,250	.....	122,650	53,750
Plated ware .....	.....	28,130	28,047	12,420
Sheet-metal work	12,803	54,978	119,151	23,738
Tin .....	.....	311,558	94,204	482,947
Zinc .....	.....	12,348	.....	72,573
Miscellaneous nonferrous metals and alloys	74,667	404,421	144,972	405,337
Machinery not including transportation equipment and electrical equipment	1,572,719	6,285,570	7,485,335	7,149,656
Air-conditioning equipment	18,800	57,500	.....	108,228
Engines, turbines, tractors, and parts	607,085	792,741	1,999,925	2,454,810
Filter-room equipment	30,331	.....	23,492	.....
Laundry machinery and equipment	37,977	61,265	15,358	.....
Machine tools	145,839	472,348	360,151	115,209
Office equipment .....	.....	13,900	45,837	296,062
Phonographs and accessories .....	.....	16,000	.....	43,300
Power shovels and draglines	54,055	489,545	354,806	46,596
Printing machinery .....	.....	69,081	.....	78,025
Pumps and pumping equipment	397,577	849,662	304,847	540,564
Refrigerators .....	.....	35,355	190,336	.....
Road machinery	26,640	57,324	197,927	.....
Windlasses, hawsers, etc.	136,615	43,708	219,685	25,880
Miscellaneous machinery and parts	108,800	3,327,141	3,772,971	3,440,952
Electrical machinery, apparatus, and supplies	2,358,605	5,026,626	5,614,547	4,049,582
Batteries	39,933	1,043,031	.....	98,659
Cable and insulated wire	607,040	1,885,982	1,339,825	1,228,517
Circuit breakers and switches	41,336	.....	54,486	465,852
Generators and spare parts	1,009,473	299,684	202,174	518,266
Heaters and ranges	39,078	108,021	65,705	.....
Lighting equipment	182,063	372,116	1,155,377	57,515
Motors	25,020	11,694	57,813	10,628
Radio equipment and supplies	82,287	852,197	1,118,467	10,000
Spark plugs	12,000	99,336	165,630	.....
Starters	40,998	.....	56,289	.....
Switchboards, relay, and control equipment	11,467	41,550	187,907	236,348
Transformers	96,727	41,206	131,827	752,009
Welding equipment	115,102	.....	35,594	.....
Miscellaneous electrical machinery, apparatus, and sup- plies	56,081	271,809	953,453	671,788
Transportation equipment	3,399,060	5,966,334	10,535,029	1,800,376
Aircraft	785,519	88,018	5,018,570	.....
Aircraft parts and equipment	2,388,813	3,457,059	3,350,284	799,938
Motor vehicles, passenger	100,242	575,673	369,053	235,741
Motor vehicles, trucks	97,411	1,806,225	1,729,793	687,489
Miscellaneous transportation equipment	27,075	30,359	67,329	76,208
Miscellaneous	3,814,197	2,404,638	10,976,022	2,794,447
Brooms, brushes, bristles, etc.	127,536	220,155	102,919	159,740
Cafeteria equipment	18,633	.....	.....	.....
Dental goods and equipment .....	.....	52,082	39,214	.....
Instruments, professional and scientific	726,726	417,893	1,673,272	489,213
Laboratory equipment	16,263	.....	.....	.....
Linooleum .....	.....	.....	67,236	.....
Oyster shell	31,150	.....	24,165	.....
Paper and allied products	2,220,062	410,195	5,649,511	619,292
Photographic apparatus and materials	33,000	184,192	368,520	98,687
Printing and publishing and subscriptions	396,825	273,741	200,000	455,148
Rubber products	41,529	364,046	348,894	130,254
Slag	87,675	.....	22,623	.....
Steam and other packing, pipe, and boiler covering .....	.....	.....	400,458	18,059
Surgical and orthopedic supplies and appliances .....	.....	27,047	559,930	178,911
Tobacco manufactures .....	.....	.....	264,260	38,471
Other materials	114,798	455,287	1,255,020	606,672

The value of public contracts awarded for materials by Federal agencies totaled \$41,674,000 during the third quarter of 1937. Of the contracts awarded in the third quarter of 1937, \$7,508,000 was for textiles and textile products; \$7,150,000, for machinery, not including transportation and electrical equipment; \$4,597,000, for iron and steel and their products, not including machinery; and \$4,050,000, for electrical machinery, apparatus, and supplies.

