

Serial No. R. 672

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*

NOVEMBER 1937

UNITED STATES GOVERNMENT PRINTING OFFICE • WASHINGTON • 1938

CONTENTS

	Page
Summary of employment reports for November 1937:	
Industrial and business employment.....	1
Public employment.....	5
Detailed reports for November 1937:	
Industrial and business employment.....	7
Public employment.....	26

Tables

TABLE 1.—All manufacturing industries combined and nonmanufacturing industries—employment, pay rolls, and weekly earnings, November 1937.....	5
TABLE 2.—Federal employment and pay rolls—summary, November 1937.....	7
TABLE 3.—Manufacturing and nonmanufacturing industries—employment, pay rolls, hours, and earnings, November 1937.....	9
TABLE 4.—Manufacturing and nonmanufacturing industries—employment, pay rolls, hours, and earnings, September through November 1937.....	14
TABLE 5.—All manufacturing industries combined and the durable- and nondurable-goods groups—indexes of employment and pay rolls, January 1936 to November 1937.....	20
TABLE 6.—Selected nonmanufacturing industries—indexes of employment and pay rolls, January 1936 to November 1937.....	21
TABLE 7.—Geographic divisions and States—comparison of employment and pay rolls in identical establishments in October and November 1937.....	23
TABLE 8.—Principal metropolitan areas—comparison of employment and pay rolls in identical establishments in October and November 1937.....	25
TABLE 9.—Executive service of the Federal Government—employment and pay rolls in October and November 1937.....	27
TABLE 10.—Executive service of the Federal Government—monthly record of employment from November 1936 to November 1937, inclusive.....	27
TABLE 11.—Construction projects financed by Public Works Administration funds—employment, pay rolls, and man-hours worked, November 1937, by type of project.....	28
TABLE 12.—Construction projects financed by Public Works Administration funds—summary of employment, pay rolls, and man-hours worked, from July 1933 to November 1937, inclusive..	30
TABLE 13.—Projects financed by The Works Program—employment, pay rolls, and man-hours worked, November 1937, by type of project.....	31

IV

	Page
TABLE 14.—National Youth Administration work projects and Student Aid financed by The Works Program—employment, pay rolls, and man-hours worked, November 1937.....	32
TABLE 15.—Projects financed by The Works Program—employment, pay rolls, and man-hours worked from the beginning of the program in July 1935 to November 1937, inclusive.....	32
TABLE 16.—National Youth Administration work projects and Student Aid financed by The Works Program—employment, pay rolls, and man-hours worked from the beginning of the projects to November 1937, inclusive.....	34
TABLE 17.—Civilian Conservation Corps—employment and pay rolls, October and November 1937.....	35
TABLE 18.—Civilian Conservation Corps—employment and pay rolls, from November 1936 to November 1937, inclusive.....	35
TABLE 19.—Construction projects financed by the Reconstruction Finance Corporation—employment, pay rolls, and man-hours worked, November 1937, by type of project.....	36
TABLE 20.—Construction projects financed by the Reconstruction Finance Corporation—summary of employment, pay rolls and man-hours worked, from November 1936 to November 1937, inclusive.....	36
TABLE 21.—Construction projects financed from regular Federal appropriations—employment, pay rolls, and man-hours worked, November 1937, by type of project.....	37
TABLE 22.—Construction projects financed from regular Federal appropriations—employment, pay rolls, and man-hours worked, from November 1936 to November 1937, inclusive.....	38
TABLE 23.—Construction and maintenance of State roads—employment and pay roll disbursements, from November 1936 to November 1937, inclusive.....	38

Employment and Pay Rolls

SUMMARY OF REPORTS FOR NOVEMBER 1937

ON THE basis of reports from approximately 135,000 establishments, it is estimated that nearly 560,000 fewer workers were employed in November than in October in all manufacturing industries combined and in the 16 nonmanufacturing industries surveyed monthly by the Bureau of Labor Statistics. Weekly wage disbursements were \$25,500,000 smaller.

A comparison with November 1936 showed that employment in these combined industries was at approximately the same level, the estimated totals indicating a gain over the year interval of 3,000 workers. Weekly wage disbursements in these industries were estimated to be \$11,400,000 greater in November 1937 than in the same month a year ago.

According to a preliminary tabulation by the Interstate Commerce Commission, class I railroads employed 1,047,960 workers in November, exclusive of executives, officials, and staff assistants. This represented a decrease of 55,273 since October.

Employment in the judicial and military services of the Federal Government was greater in November than in the preceding month, while employment in the legislative service remained virtually the same, and a decrease occurred in the executive service. Employment reports on programs financed in whole or in part from Federal funds showed a small increase on projects financed by the Reconstruction Finance Corporation and fewer employees working on projects financed by the Public Works Administration, on projects financed from regular Federal appropriations, and on Federal projects under The Works Program. The number of workers employed on projects operated by The Works Progress Administration and on work projects of the National Youth Administration and Student Aid increased. There was a decrease in the number of workers in the Civilian Conservation Corps.

Industrial and Business Employment

Employment declines from October to November were shown in manufacturing and in 15 of the 16 nonmanufacturing industries surveyed.

In manufacturing the employment decrease was 5.8 percent or 479,000 wage earners. This was coupled with a reduction of 10.5 percent (\$21,540,000) in weekly factory wage disbursements. Employment and pay-roll recessions in manufacturing industries have been shown in November in 14 of the preceding 18 years for which data are available, but they were less marked than those in November 1937 with but one exception (November 1920), when the employment decrease over the month interval was 6.0 percent.

The factory employment index for November (94.7) was 2.3 percent below the November 1936 figure, indicating 182,000 fewer wage earners in manufacturing establishments. The November 1937 pay-roll index (89.5) was 1.3 percent lower than the level of a year ago, indicating a reduction of \$2,360,000 in weekly factory wages.

Of the 89 manufacturing industries covered, 6 reported increased employment over the month interval and 7 reported larger pay rolls. Employment in aluminum manufactures showed an increase of 18.0 percent largely because of the resumption of operations following the settlement of labor disputes.

The most pronounced losses in employment in the manufacturing industries were of a seasonal nature. In many instances, however, the usual seasonal curtailments were accentuated by a slackening of business activity. Among the industries in which seasonal recessions were factors contributing to the sharply reduced forces in November were canning and preserving (36.1 percent), radios and phonographs (21.9 percent), millinery (15.8 percent), stoves (15.9 percent), woolen and worsted goods (12.5 percent), men's clothing (12.3 percent), sawmills (9.8 percent), women's clothing (10.3 percent), and boots and shoes (10.9 percent).

Other declines in industries of major importance were: Blast furnaces, steel works, and rolling mills (7.6 percent), cotton goods (2.9 percent), steam railroad repair shops (2.8 percent), baking (2.3 percent), knit goods (3.8 percent), paper and pulp (3.2 percent), furniture (8.4 percent), silk and rayon goods (10.3 percent), petroleum refining (1.4 percent), glass (3.0 percent), chemicals (4.0 percent), dyeing and finishing (3.0 percent), electrical machinery, apparatus, and supplies (5.2 percent), foundries and machine shops (5.1 percent), and automobiles (0.6 percent).

Employment decreases ranging from 6.1 percent to 9.8 percent were shown in cast-iron pipe, iron and steel forgings, steam and hot-water heating apparatus, textile machinery and parts, typewriters, brass-bronze-copper, stamped and enameled ware, brick-tile-terra cotta, cotton small wares, leather, fertilizers, rubber boots and shoes, rubber tires, and rubber goods other than shoes and tires.

Converting the above percentages into aggregate figures, the industries in which the largest number of wage earners were released from employment over the month interval and the estimated declines in number of wage earners were: Canning and preserving (56,200), blast furnaces, steel works, and rolling mills (36,200), sawmills (24,400), men's clothing (23,300), boots and shoes (21,000), foundry and machine-shop products (22,300), women's clothing (19,800), cotton goods (12,400), woolen and worsted goods (15,300), electrical machinery, apparatus, and supplies (13,800), radios and phonographs (12,900), furniture (12,600), silk and rayon goods (9,800), knit goods (8,100), steam railroad repair shops (7,600), stoves (8,100), baking (5,200), paper and pulp (4,500), automobiles (2,800), brass-bronze-copper (4,900), brick-tile-terra cotta (4,600), and stamped and enameled ware (3,300).

In most instances, the pay-roll declines in manufacturing industries were more pronounced than the employment decreases, due principally to generally reduced operating schedules and to plant shut-downs in a number of States for the Armistice Day holiday and election day.

Approximately 80,000 fewer workers were employed in November in the combined 16 nonmanufacturing industries surveyed than in the preceding month and weekly pay rolls in these industries were \$4,000,000 lower.

Employment in retail trade decreased 0.5 percent between October and November, indicating 17,100 fewer workers employed in November than in the preceding month. This decrease is the first October to November recession in retail trade employment since 1932, the average November gain over the preceding 5 years being 23,800 workers. The general merchandising group of retail establishments (department, variety, and general merchandising stores, and mail-order houses) expanded their forces as is customary in November, employment rising 1.6 percent over the month interval. Other lines of retail trade in which gains of a seasonal nature were shown included furniture, jewelry, and cigar stores. Employment in retail food stores showed a slight gain (0.1 percent). Substantial declines, seasonal in character, were reported in lumber and building materials (3.5 percent), wearing apparel (4.1 percent), and wood-coal-ice (6.6 percent). Smaller losses were reported in the automotive group and drug stores.

Metalliferous mines reported a sharp decline in employment (9.0 percent) over the month interval, due primarily to poor market conditions and the close of the ore-shipping season on the Great Lakes. Employment in private building construction continued to recede in November, reflecting seasonal curtailment. Reports received from

11,019 contractors showed a decrease of 6.4 percent. The declines of 6.3 percent in dyeing and cleaning and 6.4 percent in quarries and nonmetallic mines also reflected seasonal recessions. Laundries reduced their working forces 2.2 percent and the remaining nonmanufacturing industries which reported fewer employees (anthracite and bituminous-coal mining, crude-petroleum producing, telephone and telegraph, electric light and power, electric-railroad and motorbus operation and maintenance, wholesale trade, hotels, and insurance) showed decreases ranging from one-tenth of 1 percent to 1.3 percent. Brokerage firms reported 0.8 percent more employees on their pay rolls in November than in the preceding month.

Class I railroads employed 55,273 fewer workers (exclusive of executives, officials, and staff assistants) according to a preliminary report of the Interstate Commerce Commission. This report showed 1,047,960 such workers on pay rolls in November. Pay-roll figures for November were not available when this report was prepared. For October, the wage disbursements were \$168,938,278 and for September, \$163,645,431, a gain over the month interval of \$4,292,847 or 3.2 percent.

Hours and earnings.—Factory wage earners worked 35.4 hours per week in November according to reports covering full- and part-time workers. This figure was 5.7 percent lower than the October average. Average hourly earnings, however, advanced 0.3 percent to 66.7 cents, while average weekly earnings dropped 5.1 percent to \$23.92. Comparisons with November 1936 show a decrease of 12.7 percent over the year interval in average hours worked per week, a gain of 15.2 percent in average hourly earnings, and a gain of 1.0 percent in average weekly earnings.

Of the 14 nonmanufacturing industries for which man-hour data are available only 1, electric-railroad and motorbus operation and maintenance, showed a gain (0.2 percent) in average hours worked per week. Increases in average hourly earnings were shown for eight of these industries. Average weekly earnings were larger for 5 of the 16 nonmanufacturing industries covered.

A summary of employment and pay-roll indexes and average weekly earnings in November 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, is presented in table 1.

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

Industry	Employment			Pay rolls			Average weekly earnings		
	Index No- vem- ber 1937	Percentage change from—		Index No- vem- ber 1937	Percentage change from—		Average in No- vem- ber 1937	Percentage change from—	
		Octo- ber 1937	No- vem- ber 1936		Octo- ber 1937	No- vem- ber 1936		Octo- ber 1937	No- vem- ber 1936
All manufacturing industries combined ¹	(1923-25 =100) 94.7	-5.8	-2.3	(1923-25 =100) 89.5	-10.6	-1.3	\$23.92	-5.1	+1.0
Class I steam railroads ²	59.4	-5.0	-2.8	(³)	(³)	(³)	(³)	(³)	(³)
Coal mining:	(1929= 100)			(1929= 100)					
Anthracite.....	50.5	-9	-1.9	45.1	-11.6	+12.1	26.00	-10.8	+14.3
Bituminous.....	82.1	-1.0	-3	77.8	-9.5	-3.5	24.00	-8.6	-3.2
Metalliferous mining.....	75.4	-9.0	+19.9	71.6	-12.4	+31.1	30.05	-3.7	+9.3
Quarrying and nonmetallic mining.....	49.9	-6.4	-5.3	41.7	-15.4	-4.0	21.48	-9.6	+1.4
Crude petroleum producing.....	77.2	-3	+5.5	70.2	+5	+16.9	34.12	+8	+10.8
Public utilities:									
Telephone and telegraph.....	79.1	-1.0	+7.3	91.1	-3.4	+11.7	30.57	-2.4	+4.1
Electric light and power and manufactured gas.....	97.3	-1.3	+4.0	103.8	-1.4	+13.1	34.44	-1	+8.7
Electric-railroad and mo- torbus operation and maintenance.....	73.2	-3	+2	71.9	+8	+3.2	32.21	+1.0	+3.0
Trade:									
Wholesale.....	93.5	-5	+4.2	78.3	-1.3	+7.2	30.27	-8	+2.8
Retail.....	91.7	-5	+1.8	75.3	-8	+7.4	21.65	-3	+5.7
General merchandis- ing.....	109.8	+1.6	+5	97.1	+9	+6.2	18.37	-6	+5.8
Other than general merchandising.....	86.9	-1.2	+2.1	70.8	-1.3	+7.7	24.55	-2	+5.4
Hotels (year-round) ⁴	88.9	-3	+5.1	77.9	+2	+11.9	15.25	+5	+6.4
Laundries.....	88.0	-2.2	+1.2	79.2	-2.8	+6.3	16.90	-7	+5.1
Dyeing and cleaning.....	80.0	-6.3	-1.6	62.9	-11.9	+4.5	19.55	-6.0	+6.2
Brokerage.....	(⁵)	+8	-4.6	(⁵)	+1.1	-2.0	38.60	+4	+2.8
Insurance.....	(⁵)	-1	+1.7	(⁵)	+1.8	+5.4	39.15	+1.8	+3.6
Building construction.....	(⁵)	-6.4	-4.3	(⁵)	-8.1	+4.8	30.52	-1.8	+9.6

¹ Revised indexes. Adjusted to 1933 Census of Manufactures.

² Preliminary; source: Interstate Commerce Commission.

³ Not available.

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

Public Employment

In November employment on construction projects financed from Public Works Administration funds totaled 121,000, a decrease of 28,000, or 19.0 percent, compared with October. 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. Projects financed by the Public Works Extension Act of 1937 are just getting under way, and this is the first month for which data are available. Pay-roll disbursements for the month amounted to more than \$10,959,000 on all Public Works Administration projects.

Employment on construction projects financed from regular Federal appropriations was lower in November than in the preceding month. Compared with October there was a decrease of 7,000 in the number employed. Decreases in employment were reported for the following types of projects: Public roads, reclamation, locks and dams, and streets and roads. There was virtually no change in the number of workers employed on naval-vessel construction. All other types of projects registered gains in employment. Pay-roll disbursements totaling \$20,304,000 were \$607,000 less than in October.

There was a small increase in the number of workers on projects financed by the Reconstruction Finance Corporation. More than 4,000 workers were employed. The gain in employment on water and sewerage projects more than offset decreases in the number of workers employed on building construction and miscellaneous projects. Pay rolls for the month on all types of projects exceeded \$602,000.

The number of wage earners on projects financed by The Works Program in November was 2,134,000, an increase in the employment level of 54,000 compared with October. Of the total number employed in November, 185,000 were working on Federal projects under The Works Program, 1,567,000 on projects operated by the Works Progress Administration, and 382,000 on work projects of the National Youth Administration and Student Aid. Pay-roll disbursements totaling \$97,549,000 were \$895,000 more than in October.

In the regular services of the Federal Government increases in employment were reported in the judicial and military services. Employment in the legislative service was virtually the same and a decrease occurred in the executive service. Of the 820,000 employees in the executive service in November, 112,000 were working in the District of Columbia and 708,000 outside the District. Approximately 83.5 percent of the total number of employees in the executive service were paid from regular appropriations and 16.5 percent from emergency funds. Among the departments reporting pronounced decreases in employment were the Department of Agriculture, the Post Office Department, the Department of Labor, and the Public Works Administration. Increases occurred in the Treasury Department and Department of the Interior.

Decreases in the number of workers employed occurred in all groups of workers in the Civilian Conservation Corps. During November 351,000 workers were employed, a decrease of 13,000 compared with the preceding month. There were 302,000 enrollees, 6,000 Reserve officers, 300 nurses, 2,000 educational advisers, and 41,000 supervisory and technical workers. Pay-roll disbursements for all workers totaled \$16,335,000.

A total of 193,000 workers were employed on road projects financed wholly from State funds. This was an increase of 5,000 over the

number employed in October. Employment increased on new road construction projects and on maintenance projects. Of the total number employed 84.7 percent were engaged in maintenance work and 15.3 percent on new construction. For both types of work pay rolls totaled \$12,777,000.

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

TABLE 2.—*Summary of Federal Employment and Pay Rolls, November 1937*¹

[Preliminary figures]

Class	Employment		Per-centage change	Pay rolls		Per-centage change
	Novem-ber	October		November	October	
Federal services:						
Executive ²	\$ 819, 927	\$ 827, 727	-0.9	\$119, 163, 057	\$122, 986, 050	-3.1
Judicial.....	1, 999	1, 975	+1.2	547, 685	501, 589	+9.2
Legislative.....	5, 345	5, 347	(³)	1, 219, 978	1, 229, 405	- .8
Military.....	323, 403	322, 763	+ .2	24, 659, 262	25, 207, 388	-2.2
Construction projects:						
Financed by P. W. A. ⁴	121, 102	149, 564	-19.0	10, 959, 110	12, 903, 311	-15.1
Financed by R. F. C. ⁵	4, 421	4, 261	+3.8	602, 221	558, 419	+7.8
Financed by regular Federal ap-propriations.....	211, 004	218, 347	-3.4	20, 303, 903	20, 911, 266	-2.9
Federal projects under The Works Program.....	184, 654	192, 631	-4.1	10, 857, 382	11, 452, 256	-5.2
Projects operated by W. P. A.....	1, 566, 697	1, 527, 604	+2.6	82, 714, 339	81, 486, 784	+1.5
National Youth Administration:						
Work projects.....	125, 922	\$ 122, 827	+2.5	2, 225, 961	\$ 2, 165, 339	+2.8
Student Aid.....	256, 636	\$ 237, 307	+8.1	1, 751, 568	\$ 1, 549, 634	+13.0
Civilian Conservation Corps.....	350, 714	363, 256	-3.5	16, 335, 299	15, 622, 911	+4.6

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

² Includes force-account and supervisory and technical employees shown under other classifications to the extent of 112,827 employees and pay-roll disbursements of \$13,706,788 for November and 114,846 employees and pay-roll disbursements of \$14,019,780 for October.

³ Of this decrease in November of 7,800 workers, 1,300 employees were transferred from pay rolls of the United States Employment Service to State pay rolls.

⁴ Revised.

⁵ Less than 1/10 of 1 percent.

⁶ Data covering P. W. A. projects financed from E. R. A. A. 1935, 1936, and 1937 funds are included. These data are not shown under The Works Program. Includes 80,541 wage earners and \$6,814,004 pay roll for November; 101,864 wage earners and \$8,252,933 pay roll for October; covering P. W. A. projects financed from E. R. A. A. 1935, 1936 and 1937 funds.

⁷ Includes 167 employees and pay-roll disbursements of \$11,824 for November and 78 employees and pay-roll disbursements of \$6,206 for October on projects financed by the RFC Mortgage Co.



DETAILED REPORTS FOR NOVEMBER 1937

Industrial and Business Employment

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

EMPLOYMENT, PAY ROLLS, HOURS, AND EARNINGS

The indexes of employment and pay rolls, average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in November 1937 are shown in table 3. Percentage changes from October 1937 and November 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 September, October, and November 1937, are presented in table 4. The September and October 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 3 and 4 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 3.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, November 1937*

MANUFACTURING

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

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week			Average hourly earnings ¹		
	Index No- vember 1937	Percentage change from—		Index No- vember 1937	Percentage change from—		No- vember 1937	Percentage change from—		No- vember 1937	Percentage change from—		No- vember 1937	Percentage change from—	
		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936
All manufacturing industries.....	94.7	-5.8	-2.3	89.5	-10.6	-1.3	\$23.92	-5.1	+1.0	35.4	-5.7	-12.7	Cents 66.7	+0.3	+15.2
Durable goods.....	94.4	-5.3	+1.5	89.9	-11.6	+1.1	26.80	-6.6	-4	36.4	-6.8	-14.8	73.3	+4	+17.0
Nondurable goods.....	97.3	-6.1	-5.8	89.0	-9.4	-4.2	20.54	-3.5	+1.6	34.4	-4.5	-10.4	59.6	0	+12.0
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	98.1	-7.3	-1.2	85.7	-19.8	-10.5	24.64	-13.4	-9.4	32.6	-12.2	-24.9	76.3	-7	+20.8
Blast furnaces, steel works, and rolling mills.....	108.6	-7.6	+8	92.9	-21.9	-11.5	25.33	-15.5	-12.2	30.7	-13.9	-29.3	82.8	-1.1	+23.2
Bolts, nuts, washers, and rivets.....	80.5	-5.1	-2	78.7	-18.8	-11.2	22.34	-14.4	-11.0	32.3	-15.5	-25.6	69.2	+1.2	+19.4
Cast-iron pipe.....	57.9	-6.8	-11.7	42.6	-8.2	-10.9	19.68	-1.5	+9	33.5	-2.5	-13.9	58.5	+1.5	+17.0
Cutlery (not including silver and plated cutlery) and edge tools.....	88.3	-1.7	+2.9	80.5	-6.3	-2.4	22.94	-4.7	-5.2	38.9	-3.8	-15.5	60.2	-6	+11.9
Forgings, iron and steel.....	64.7	-9.7	+5	55.8	-17.5	-4.3	26.22	-8.7	-4.7	35.6	-10.0	-16.8	74.1	+1.5	+14.8
Hardware.....	91.5	-3.1	-1	99.9	-12.7	-6.0	24.55	-9.9	-5.9	35.4	-10.1	-20.9	69.4	+2	+18.1
Plumbers' supplies.....	89.6	-4.2	+4.4	63.5	-16.7	+3	22.45	-13.0	-3.9	33.6	-13.7	-15.9	66.8	+7	+14.7
Steam and hot-water heating apparatus and steam fittings.....	66.3	-9.8	-10.1	53.1	-30.3	-19.4	23.18	-11.6	-10.3	33.1	-12.3	-25.0	69.8	+6	+18.9
Stoves.....	91.1	-15.9	-20.5	65.0	-31.0	-36.9	21.02	-18.0	-20.6	32.3	-18.0	-26.3	65.5	+1	+7.9
Structural and ornamental metalwork.....	75.0	-5.3	+2.3	74.5	-8.7	+13.7	27.99	-3.5	+11.2	39.3	-4.0	-6.5	71.4	+4	+19.2
Tin cans and other tinware.....	96.8	-4.0	+1.1	99.8	-7.1	+8.3	23.07	-3.3	+7.1	37.5	-2.7	-5.0	61.9	-2	+13.5
Tools (not including edge tools, machine tools, files, and saws).....	91.7	-5.4	-1.9	90.3	-10.3	-7.4	22.95	-5.2	-5.6	36.7	-5.8	-19.4	62.2	+8	+16.7
Wirework.....	179.5	-4.1	+2.8	162.3	-19.8	-6.2	23.00	-16.3	-8.7	33.5	-14.3	-27.3	68.7	-2.5	+25.5

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.

TABLE 3.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, November 1937—Continued

MANUFACTURING—Continued

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

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index No- vember 1937	Percentage change from—		Index No- vember 1937	Percentage change from—		No- vember 1937	Percentage change from—		No- vember 1937	Percentage change from—		No- vember 1937	Percentage change from—	
		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936
<i>Durable goods—Continued</i>															
Machinery, not including transportation equipment.....	121.4	-5.8	+9.0	121.2	-9.7	+14.8	\$27.79	-4.1	+5.4	37.9	-5.0	-10.6	<i>Cents</i>		
Agricultural implements.....	143.0	-5.0	+53.5	184.5	-9.4	+80.9	28.74	-4.6	+17.7	38.9	-4.2	-2.8	72.6	+0.8	+17.2
Cash registers, adding machines, and calculating machines.....	133.6	-2.0	+11.8	141.2	-4.9	+26.5	32.61	-2.9	+13.1	39.7	-3.3	-6	74.1	-4	+22.4
Electrical machinery, apparatus, and supplies.....	113.1	-5.2	+9.7	114.3	-8.4	+18.0	27.74	-3.3	+7.7	37.2	-4.6	-10.2	82.7	+3	+13.8
Engines, turbines, tractors, and water wheels.....	147.8	-3.1	+25.1	155.0	-2.8	+46.1	32.38	+3	+16.9	39.3	-5	-2.0	74.6	+1.3	+18.5
Foundry and machine-shop products.....	104.8	-5.1	+8.0	101.8	-10.3	+9.2	27.12	-5.5	+1.1	38.3	-5.8	-13.2	82.8	+7	+18.9
Machine tools.....	153.9	-2.4	+20.5	157.9	-7.3	+27.0	31.63	-5.0	+5.4	42.9	-5.1	-6.3	70.8	+3	+16.3
Radios and phonographs.....	156.7	-21.9	-25.6	123.0	-25.7	-27.4	20.74	-4.9	-2.5	33.2	-6.6	-11.8	73.8	+1	+12.4
Textile machinery and parts.....	77.7	-6.1	+4.9	70.2	-13.3	+4.2	24.50	-7.6	-7	37.0	-6.6	-10.2	62.5	+1.8	+11.9
Typewriters and parts.....	138.4	-6.4	-5	106.0	-17.5	-21.2	20.43	-11.8	-20.8	32.5	-12.0	-27.8	66.6	-1.0	+10.9
Transportation equipment.....	121.8	-7	+5.9	120.0	-7.6	+5.8	31.03	-7.0	+1	35.1	-6.9	-14.8	62.7	+1	+9.5
Aircraft.....	795.0	+1.4	+23.0	725.3	+3	+31.2	27.89	-1.1	+6.7	39.7	-2.0	-4.8	88.9	(?)	+17.1
Automobiles.....	133.2	-6	+3.8	125.8	-9.1	(?)	31.23	-8.6	-3.7	34.3	-8.2	-18.5	70.2	+1.0	+13.4
Cars, electric- and steam-railroad.....	65.8	-3.0	+14.5	81.1	-1.7	+40.9	29.61	+1.4	+23.0	38.5	-1.4	+2.4	91.3	-4	+18.3
Locomotives.....	61.6	-3.8	+52.2	51.4	-8.3	+82.0	32.47	-4.7	+19.6	41.4	-6.0	-4	76.9	+2.9	+18.9
Shipbuilding.....	105.9	-9	+8.7	121.4	-2.4	+24.7	31.02	-1.6	+14.7	36.9	-6	+4.2	78.5	+1.4	+20.0
Railroad repair shops.....	57.4	-2.7	-5.3	63.3	-2.5	-2.9	31.61	+3	+2.5	43.0	-6	-3.7	83.8	+6	+8.3
Electric railroad.....	63.1	-5	-4	68.2	+2	+4.1	30.63	+6	+4.6	43.6	-2	-2.6	73.6	+4	+6.2
Steam railroad.....	57.0	-2.8	-5.6	63.0	-2.9	-3.6	31.78	-1	+2.2	43.0	-6	-3.8	68.5	+7	+7.4
Nonferrous metals and their products.....	108.4	-3.8	-1.5	99.9	-9.1	-2.1	24.63	-5.4	-5	37.3	-6.2	-15.3	74.1	+4	+6.1
Aluminum manufactures.....	123.5	+18.0	+4.0	127.8	+10.2	+11.3	25.82	-6.6	+7.0	38.5	-4.9	-10.3	65.9	+9	+17.5
Brass, bronze, and copper products.....	105.5	-6.7	-6.5	92.1	-13.7	-11.3	24.77	-7.5	-5.2	33.7	-8.0	-22.6	67.2	-1.9	+19.1
Clocks and watches and time-recording devices.....	125.0	-2.0	+3.7	122.3	-7.8	+3	22.22	-5.9	-3.3	38.6	-6.0	-15.4	73.4	+5	+22.5
Jewelry.....	100.3	-5.8	-4	78.8	-11.8	+1.1	24.09	-6.4	+1.6	40.3	-6.9	-5.0	57.6	+1	+15.9
Lighting equipment.....	95.6	-4.4	-1.6	94.4	-9.5	-2.7	25.07	-5.3	-1.0	38.3	-5.8	-17.4	58.9	-1.0	+6.0
Silverware and plated ware.....	79.3	-1.8	+7.5	72.6	-10.0	+1.4	24.84	-8.3	-5.8	38.8	-8.2	-14.3	65.4	+1.0	+20.4
Smelting and refining—copper, lead, and zinc.....	88.0	-4.5	+10.8	83.8	-7.9	+19.7	27.90	-3.6	+8.1	39.9	-3.7	-8.0	64.1	-3	+8.6
Stamped and enameled ware.....	144.0	-6.5	-7.7	141.5	-9.5	-8.7	22.76	-3.2	-1.1	37.1	-5.4	-15.8	69.8	+2	+17.5
													61.2	+2.1	+17.1

Lumber and allied products.....	63.5	-8.6	-6.3	55.1	-15.6	-9.4	19.48	-7.7	-3.2	37.2	-7.3	-14.0	52.8	-7	+12.7
Furniture.....	79.5	-8.4	-9.9	65.8	-14.4	-15.2	19.66	-6.6	-5.9	37.0	-8.1	-18.1	53.2	+1.5	+14.4
Lumber:															
Millwork.....	51.2	-5.6	-4.2	46.3	-10.6	-6.7	20.58	-5.2	-2.6	37.7	-5.9	-17.2	54.7	+1.0	+17.4
Sawmills.....	47.6	-9.8	-4.7	40.4	-18.2	-5.3	18.99	-9.4	-1.8	37.3	-7.2	-10.6	52.0	-2.5	+10.7
Stone, clay, and glass products.....	68.2	-4.5	+1.3	63.6	-8.6	+4.1	23.71	-4.3	+2.8	36.5	-5.6	-11.8	64.4	+6	+15.6
Brick, tile, and terra cotta.....	45.5	-9.0	-8.3	36.4	-17.6	-11.5	19.18	-9.4	-3.5	35.8	-8.6	-17.3	53.4	-1.8	+17.6
Cement.....	66.1	-4.5	+3.0	67.3	-6.7	+6.8	25.73	-2.3	+3.6	38.2	-2.9	-10.3	67.4	0	+14.8
Glass.....	106.7	-3.0	+9.3	111.9	-6.2	+12.6	25.21	-3.3	+2.9	35.8	-4.5	-10.4	70.5	+8	+14.8
Marble, granite, slate, and other products.....	42.1	-3.2	-2.8	34.6	-8.5	+1.3	23.88	-5.5	+4.2	36.2	-6.3	-2.7	66.3	+6	+8.2
Pottery.....	76.9	-2.3	-2	70.0	-4.0	+4.4	24.05	-1.8	+4.6	37.9	-5.4	-10.8	63.1	+9	+15.2
<i>Nondurable goods</i>															
Textiles and their products.....	92.0	-6.9	-12.2	71.5	-15.1	-18.0	15.37	-8.8	-6.6	30.6	-8.7	-15.9	50.9	-2.3	+11.0
Fabrics.....	87.2	-5.1	-11.7	71.5	-11.7	-17.5	15.24	-6.9	-6.6	31.5	-6.5	-17.4	49.2	-2	+14.0
Carpets and rugs.....	85.7	-3.4	-9.2	49.7	-22.6	-44.6	13.77	-19.8	-39.0	21.2	-20.5	-49.3	64.9	+8	+18.6
Cotton goods.....	91.1	-2.9	-8.4	76.8	-9.8	-12.7	13.25	-7.1	-4.8	31.5	-6.7	-16.9	42.1	-3	+15.3
Cotton small wares.....	91.2	-7.3	-11.9	79.0	-18.4	-19.2	16.10	-12.0	-8.2	33.1	-11.0	-15.9	50.0	-2	+11.7
Dyeing and finishing textiles.....	108.8	-3.0	-7.6	89.0	-5.9	-11.5	19.87	-2.9	-4.2	34.4	-2.7	-14.6	57.6	+3	+13.1
Hats, fur-felt.....	83.0	(2)	+3	61.0	-1.6	-10.3	19.96	-1.6	-10.5	28.2	+5.0	-16.7	71.6	-1.2	+7.5
Knit goods.....	111.9	-3.8	-7.5	112.3	-8.5	-9.6	17.40	-5.0	-2.3	33.7	-5.2	-12.4	52.4	+2	+11.5
Silk and rayon goods.....	67.6	-10.3	-15.5	50.8	-18.6	-20.3	14.54	-9.3	-5.7	31.7	-7.4	-14.7	46.2	-1.7	+11.8
Woolen and worsted goods.....	59.8	-12.5	-28.6	42.8	-18.9	-35.2	16.43	-7.3	-9.4	27.7	-8.5	-24.6	59.4	+1.3	+19.8
Wearing apparel.....	101.0	-9.9	-12.9	68.6	-21.1	-18.9	15.74	-12.5	-6.9	28.9	-7.4	-12.7	54.3	-5.3	+6.2
Clothing, men's.....	90.7	-12.3	-14.8	61.1	-23.8	-22.9	15.82	-13.1	-9.5	26.1	-11.5	-20.1	61.1	-1.6	+12.2
Clothing, women's.....	134.9	-10.3	-14.7	84.2	-23.5	-18.0	17.25	-14.8	-4.0	29.2	-6.2	-7.1	55.5	-9.8	+4.1
Corsets and allied garments.....	88.1	-1.8	-2.5	82.1	-6.0	-6.8	15.52	-4.2	-4.3	33.6	-1.5	-6.2	46.0	-2.4	+3.3
Men's furnishings.....	130.4	-4.0	-8.8	103.8	-7.2	-17.3	14.36	-3.4	-9.1	32.8	-8.1	-17.2	37.3	+7	+1.2
Millinery.....	43.8	-15.8	-8.4	26.7	-24.7	-14.4	17.40	-10.6	-6.7						
Shirts and collars.....	114.6	-5.1	-8.1	102.6	-8.8	-11.9	13.14	-3.9	-4.1	33.1	-3.0	-12.1	40.4	+1	+8.7
Leather and its manufactures.....	80.3	-10.3	-9.8	53.8	-18.9	-20.1	15.48	-9.6	-11.4	28.6	-10.1	-18.7	54.5	+5	+8.3
Boots and shoes.....	80.8	-10.9	-8.0	46.0	-21.6	-20.9	13.72	-12.0	-14.1	26.9	-11.5	-20.4	52.3	+6	+7.8
Leather.....	82.9	-7.5	-15.7	82.7	-12.9	-17.9	22.13	-5.8	-2.6	35.2	-6.0	-12.2	62.8	-1	+10.9
Food and kindred products.....	114.6	-8.3	+4	115.9	-7.3	+7.0	24.46	+1.1	-6.5	40.3	-2.3	-4.7	60.2	+2.5	+11.7
Baking.....	135.2	-2.3	+1.7	130.3	-5.1	+8.3	25.10	-2.8	-6.5	41.4	-3.8	-1.4	61.1	+9	+8.0
Beverages.....	194.3	-4.1	+6.2	212.7	-4.3	+11.2	32.22	-2	-4.7	38.8	-8	-1.5	84.2	+8	+6.5
Butter.....	83.7	-3.1	+2.1	67.2	-4.3	+3.3	22.42	-1.2	-1.2						
Canning and preserving.....	118.7	-36.1	+5.0	111.4	-40.7	+13.5	15.74	-7.1	-8.0	33.8	-11.5	-8.9	47.8	+3.5	+18.8
Confectionery.....	91.8	-3.9	(2)	89.8	-8.8		17.63	-5.2	-6.2	38.7	-6.2	-4.8	45.6	+8	+12.9
Flour.....	76.0	-1.1	+1.8	76.7	-5.1	+9.0	26.10	-4.1	-7.1	43.7	-3.9	-3.9	58.8	+1	+10.1
Ice cream.....	65.1	-5.4	+4.7	61.5	-3.7	+9.3	29.16	+1.8	-4.5	46.5	+2	-9	61.3	+1.8	+5.3
Slaughtering and meat packing.....	90.5	+1.2	-6.7	102.3	+2.2	+2.5	28.31	+1.0	-9.7	41.1	+1.2	-6.3	68.1	-4	+17.6
Sugar, beet.....	252.1	-4	-7.8	267.4	+19.2	-5	25.09	+19.6	+7.9	49.6	+19.3	-9.2	50.8	-3.0	+17.5
Sugar refining, cane.....	70.4	+2.3	+3.4	66.8	+4.0	+13.9	26.41	+1.7	+10.1	40.9	+6.4	-5.0	62.8	-6.0	+16.6
Tobacco manufactures.....	62.9	+5	-4.6	57.2	-1.2	+4.4	18.72	-1.7	-9.3	37.4	-5	+1.1	44.8	-8	+10.1
Chewing and smoking tobacco and snuff.....	56.7	+1.0	-7	63.8	-6.5	+2.6	17.06	-7.4	+3.3	33.5	-6.5	-7.0	51.1	-1.4	+11.1
Cigars and cigarettes.....	63.6	+6	-5.0	56.4	-3	+4.6	16.66	-9	+10.3	37.9	+1.1	+2.0	44.2	-7	+9.8

*Less than 1/10 of 1 percent.

TABLE 3.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, November 1937—Continued*

MANUFACTURING—Continued

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

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index No- vember 1937	Percentage change from—		Index No- vember 1937	Percentage change from—		No- vember 1937	Percentage change from—		No- vember 1937	Percentage change from—		No- vember 1937	Percentage change from—	
		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936		Octo- ber 1937	No- vember 1936
<i>Nondurable goods—Continued</i>															
Paper and printing.....	106.4	-1.4	+1.3	101.5	-3.4	+2.9	827.48	-2.1	+1.6	37.7	-2.3	-7.6	<i>Cents</i>		
Boxes, paper.....	103.3	-1.4	-2.7	102.6	-5.8	-5.7	20.42	-4.4	-3.0	39.0	-4.4	-14.1	75.7	(?)	+8.4
Paper and pulp.....	113.6	-3.2	+1.5	105.4	-9.7	+9	23.26	-6.7	-6	36.9	-6.7	-14.7	52.8	+0.2	+12.5
Printing and publishing:													63.2	(?)	+16.6
Book and job.....	98.3	-5	+2.8	93.1	+5	+6.3	29.96	+9	+3.3	38.7	+1.2	-5	78.5	-2	+4.0
Newspapers and periodicals.....	107.0	-5	+1.6	106.1	-1.1	+4.2	37.42	-7	+2.5	37.1	+1	-2.7	97.1	-5	+5.3
Chemicals and allied products, and petroleum refining.....	122.7	-3.0	+2.5	132.1	-3.9	+15.2	28.07	-9	+12.4	38.5	-1.5	-2.6	73.8	+5	+16.2
Other than petroleum refining.....	122.4	-3.4	+2.5	129.6	-4.8	+14.4	25.59	-1.4	+11.6	39.5	-2.0	-2.9	65.8	+5	+15.5
Chemicals.....	129.8	-4.0	-2	141.7	-5.9	+11.1	30.25	-2.0	+11.3	38.7	-2.2	-6.5	78.2	+3	+19.1
Cottonseed—oil, cake, and meal.....	121.0	-4.8	+16.8	113.0	-4.9	+36.0	13.18	-1	+16.4	53.5	-1.3	+1.7	24.8	+1.4	+14.8
Druggists' preparations.....	112.5	-2.0	+6.3	125.8	-2.5	+11.6	24.33	-5	+4.9	39.2	-9	-3.0	58.3	0	+7.2
Explosives.....	95.4	-1.9	(?)	106.6	-3.5	+8.4	31.64	-1.7	+8.4	39.7	-2.0	-4.7	79.8	+3	+13.7
Fertilizers.....	75.3	-6.5	+7.9	77.4	-6.9	+22.6	17.02	-5	+13.7	38.6	-2	-1	44.1	-4	+14.6
Paints and varnishes.....	128.0	-2.7	+2.2	124.8	-7.0	+6.8	26.95	-4.4	+4.5	38.8	-4.2	-6.7	69.6	-3	+11.9
Rayon and allied products.....	374.0	-3.5	+2.7	360.3	-3.9	+20.8	23.79	-4	+17.6	37.0	-1.3	+5	64.4	+8	+17.3
Soap.....	100.4	-2.4	-2.1	116.9	-3.5	+15.1	28.23	-1.1	+17.6	39.2	-2.0	-1.6	72.4	+9	+19.8
Petroleum refining.....	123.9	-1.4	+2.3	140.4	-1.3	+17.9	34.42	+1	+15.2	35.8	(?)	-1.4	97.0	+1	+17.8
Rubber products.....	90.9	-7.0	-9.1	82.0	-13.0	-19.0	24.11	-6.5	-10.9	31.6	-6.5	-17.0	79.0	+3	+10.2
Rubber boots and shoes.....	71.9	-7.1	-9.9	62.1	-11.7	-10.2	21.70	-4.9	-3	35.9	-4.1	-12.0	60.4	-8	+14.5
Rubber goods, other than boots, shoes, tires, and inner tubes.....	128.2	-6.6	-5.4	121.7	-12.7	-6.7	21.93	-6.6	-1.4	36.0	-6.9	-10.0	60.9	-3	+11.4
Rubber tires and inner tubes.....	80.8	-7.1	-11.1	72.9	-13.5	-26.2	26.26	-6.9	-17.0	27.2	-7.1	-24.4	97.2	+8	+9.9

NONMANUFACTURING

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

38978-38-3	Coal mining:																
	Anthracite.....	50.5	-0.9	-1.9	45.1	-11.6	+12.1	\$26.00	-10.8	+14.3	28.3	-10.0	+2.7	90.7	-0.6	+9.3	
	Bituminous.....	82.1	-1.0	-.3	77.8	-9.5	-3.5	24.00	-8.6	-3.2	26.9	-9.3	-17.0	87.8	-1.1	+12.3	
	Metalliferous mining.....	75.4	-9.0	+19.9	71.6	-12.4	+31.1	30.05	-3.7	+9.3	43.1	-2.2	-1.9	69.9	-1.5	+11.3	
	Quarrying and nonmetallic mining.....	49.9	-6.4	-5.3	41.7	-15.4	-4.0	21.48	-9.6	+1.4	38.9	-9.0	-10.3	55.0	-.7	+12.6	
	Crude-petroleum producing.....	77.2	-.3	+5.5	70.2	+5	+16.9	34.12	+8	+10.8	39.9	-.2	+1.0	84.3	+6	+8.7	
	Public utilities:																
	Telephone and telegraph.....	79.1	-1.0	+7.3	91.1	-3.4	+11.7	30.57	-2.4	+4.1	38.6	-4.1	-3.1	84.9	+1.8	+7.4	
	Electric light and power and manufactured gas.....	97.3	-1.3	+4.0	103.8	-1.4	+13.1	34.44	-.1	+8.7	40.4	-.6	+1.7	85.8	+5	+8.2	
	Electric-railroad and motorbus operation and maintenance.....	73.2	-.3	+2	71.9	+8	+3.2	32.21	+1.0	+3.0	45.9	-.2	-1.6	69.4	+1.1	+5.7	
	Trade:																
	Wholesale.....	93.5	-.5	+4.2	78.3	-1.3	+7.2	30.27	-.8	+2.8	42.7	-.7	-1.6	70.6	-.1	+5.1	
	Retail.....	91.7	-.5	+1.8	75.3	-.8	+7.4	21.65	-.3	+5.7	42.7	-.6	-2.7	55.9	+2	+8.9	
	General merchandising.....	109.8	+1.6	+5	97.1	+9	+6.2	18.37	-.6	+5.8	39.2	-.5	-4.1	51.2	-.2	+11.3	
	Other than general merchandising.....	86.9	-1.2	+2.1	70.8	-1.3	+7.7	24.55	-.2	+5.4	43.9	-.5	-2.3	57.5	+4	+8.2	
	Hotels (year-round) *.....	88.9	-.3	+5.1	77.9	+2	+11.9	15.25	+5	+6.4	47.2	-.7	-2.0	32.2	+1.3	+7.3	
	Laundries.....	88.0	-2.2	+1.2	79.2	-2.8	+6.3	16.90	-.7	+5.1	41.6	-1.3	-1.9	40.7	+4	+7.2	
	Dyeing and cleaning.....	80.0	-6.3	-1.6	62.9	-11.9	+4.5	19.55	-6.0	+6.2	40.8	-4.7	-2.6	49.1	-1.1	+8.0	
	Brokerage.....	(4)	+8	-4.6	(4)	+1.1	-2.0	38.60	+4	+2.8	(4)	(4)	(4)	(4)	(4)	(4)	
	Insurance.....	(4)	-.1	+1.7	(4)	+1.8	+5.4	39.15	+1.8	+3.6	(4)	(4)	(4)	(4)	(4)	(4)	
	Building construction.....	(4)	-6.4	-4.3	(4)	-8.1	+4.8	30.52	-1.8	+9.6	33.1	-3.3	-3.2	91.6	+1.2	+13.2	

* Less than 1/10 of 1 percent.

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

* Not available.

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

MANUFACTURING

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

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	November 1937	October 1937	September 1937	November 1937	October 1937	September 1937	November 1937	October 1937	September 1937	November 1937	October 1937	September 1937	November 1937	October 1937	September 1937
All manufacturing industries.....	94.7	100.5	102.1	89.5	100.1	100.1	\$23.92	\$25.39	\$24.92	35.4	37.6	37.4	Cents 66.7	Cents 66.6	Cents 65.8
Durable goods.....	92.4	97.6	97.3	89.9	101.7	99.4	26.80	28.83	28.18	36.4	39.1	38.6	73.3	73.0	72.4
Nondurable goods.....	97.3	103.6	107.3	89.0	98.2	100.9	20.54	21.37	21.30	34.4	35.9	36.1	59.6	59.6	59.0
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	98.1	105.8	108.8	85.7	106.8	112.8	24.64	28.50	29.37	32.6	37.0	37.8	76.3	76.8	76.8
Blast furnaces, steel works, and rolling mills.....	108.6	117.5	121.4	92.9	118.9	129.7	25.33	29.96	31.65	30.7	35.7	37.5	82.8	83.7	84.2
Bolts, nuts, washers, and rivets.....	80.5	84.8	87.5	78.7	96.9	96.9	22.34	25.94	25.21	32.3	38.2	37.6	69.2	68.0	67.3
Cast-iron pipe.....	57.9	62.1	64.9	42.6	46.3	48.9	19.68	19.98	20.15	33.5	34.4	35.1	58.5	57.7	56.7
Cutlery (not including silver and plated cutlery) and edge tools.....	88.3	89.8	89.9	80.5	85.9	86.7	22.94	24.06	24.32	38.9	40.4	40.7	60.2	60.6	61.0
Forgings, iron, and steel.....	64.7	71.6	73.0	55.8	67.6	69.6	26.22	28.86	29.23	35.6	39.5	39.7	74.1	73.3	73.9
Hardware.....	91.5	94.4	92.6	90.9	114.5	101.4	24.55	27.26	24.58	35.4	39.3	36.5	69.4	69.3	67.2
Plumbers' supplies.....	89.6	93.6	94.5	63.5	76.2	72.7	22.45	25.83	24.57	33.6	39.0	37.2	66.8	66.4	65.9
Steam and hot-water heating apparatus and steam fittings.....	66.3	73.5	77.4	53.1	66.6	72.2	23.18	26.24	26.97	33.1	37.7	38.7	69.8	69.4	69.7
Stoves.....	91.1	108.3	113.4	65.0	94.2	97.8	21.02	25.59	25.37	32.3	39.3	38.9	65.5	65.4	65.3
Structural and ornamental metalwork.....	75.0	79.1	82.3	74.5	81.6	83.9	27.99	29.04	28.69	39.3	40.9	40.7	71.4	71.2	70.6
Tin cans and other tinware.....	96.8	100.8	114.0	99.8	107.5	122.6	23.07	23.85	23.97	37.5	38.6	39.7	61.9	62.0	60.8
Tools (not including edge tools, machine tools, files, and saws).....	91.7	97.0	98.4	90.3	100.7	103.6	22.95	24.20	24.54	36.7	39.0	39.7	62.2	61.9	61.6
Wirework.....	179.5	187.2	170.3	162.3	202.3	166.8	23.00	26.79	24.47	33.5	37.9	35.6	68.7	70.8	68.7
Machinery, not including transportation equipment.....	121.4	128.9	130.7	121.2	134.2	134.3	27.79	28.86	28.47	37.9	39.9	39.7	72.6	72.0	71.6
Agricultural implements.....	143.0	160.5	147.2	184.5	203.5	189.2	28.74	30.14	28.78	38.9	40.6	38.8	74.1	74.5	74.4
Cash registers, adding machines, and calculating machines.....	133.6	136.3	136.5	141.2	148.4	146.5	32.61	33.61	33.20	39.7	41.1	40.9	82.7	82.5	81.9
Electrical machinery, apparatus, and supplies.....	113.1	119.3	121.3	114.3	124.8	124.1	27.74	28.65	28.05	37.2	39.0	38.4	74.6	73.6	73.1

Engines, turbines, tractors, and water wheels.....	147.8	152.5	153.6	155.0	159.4	158.8	32.38	32.36	32.00	39.3	39.4	39.2	82.8	82.5	82.2
Foundry and machine-shop products.....	104.8	110.4	111.9	101.8	113.5	114.2	27.12	28.69	28.42	38.3	40.6	40.4	70.8	70.6	70.3
Machine tools.....	153.9	157.7	157.6	157.9	170.3	165.5	31.63	33.31	32.36	42.9	45.1	44.2	73.8	73.9	73.3
Radios and phonographs.....	156.7	200.5	208.3	123.0	165.5	173.9	20.74	21.67	21.94	33.2	35.6	36.9	62.5	61.1	60.0
Textile machinery and parts.....	77.7	82.8	84.0	70.2	80.9	85.2	24.50	26.26	27.18	37.0	39.3	41.3	66.6	67.2	65.9
Typewriters and parts.....	138.4	147.9	151.2	106.0	128.4	142.8	20.43	23.17	25.20	32.5	37.0	39.5	62.7	62.6	63.8
Transportation equipment.....	121.8	122.7	107.0	120.0	129.9	104.4	31.08	33.37	30.57	35.1	37.7	35.0	88.9	88.6	87.4
Aircraft.....	795.0	784.0	766.8	725.3	723.0	670.4	27.89	28.17	26.71	39.7	40.6	38.5	70.2	69.5	69.3
Automobiles.....	133.2	133.9	112.5	125.8	138.3	105.6	31.23	34.07	30.93	34.3	37.3	34.2	91.3	91.4	90.4
Cars, electric- and steam-railroad.....	65.8	67.9	68.5	81.1	82.5	79.7	29.61	29.13	27.89	38.5	38.9	37.4	76.9	74.8	74.7
Locomotives.....	61.6	64.1	64.4	51.4	56.0	55.0	32.47	34.08	33.28	41.4	44.0	43.7	78.5	77.4	76.1
Shipbuilding.....	105.9	106.8	106.2	121.4	124.4	119.0	31.02	31.54	30.34	36.9	37.3	35.8	83.8	83.0	83.2
Railroad repair shops.....	57.4	59.0	60.4	63.3	64.9	63.1	31.61	31.58	30.05	43.0	43.2	41.0	73.6	73.4	73.4
Electric railroad.....	63.1	63.3	63.4	68.2	68.0	67.7	30.63	30.46	30.24	43.6	43.7	43.6	68.5	68.0	67.9
Steam railroad.....	57.0	58.7	60.2	63.0	64.9	62.9	31.78	31.76	30.02	43.0	43.2	40.8	74.1	73.8	73.8
Nonferrous metals and their products.....	108.4	112.7	114.1	99.9	109.9	110.1	24.63	26.18	25.95	37.3	39.7	39.1	65.9	65.8	68.0
Aluminum manufactures.....	123.5	104.7	131.0	127.8	115.9	135.7	25.82	27.63	26.05	38.5	40.4	39.5	67.2	68.4	66.0
Brass, bronze, and copper products.....	105.5	113.1	114.8	92.1	106.7	113.2	24.77	26.76	27.94	33.7	36.7	38.1	73.4	73.0	73.4
Clocks and watches and time-recording devices.....	125.0	127.5	127.0	122.3	132.7	128.0	22.22	23.62	22.91	38.6	41.1	40.1	57.6	57.5	57.2
Jewelry.....	100.3	106.4	101.1	78.8	89.4	81.7	24.09	25.80	24.73	40.3	43.2	40.7	58.9	59.2	60.0
Lighting equipment.....	95.6	100.1	97.2	94.4	104.3	98.5	25.07	26.18	25.50	38.3	39.9	39.1	65.4	65.7	65.4
Silverware and plated ware.....	79.3	80.8	79.5	72.6	80.7	81.4	24.84	27.10	27.81	38.8	42.4	43.5	64.1	64.3	64.7
Smelting and refining—copper, lead, and zinc.....	88.0	92.1	93.0	83.8	90.9	88.6	27.90	29.10	28.01	39.9	41.7	40.2	69.8	69.8	69.7
Stamped and enameled ware.....	144.0	154.0	153.2	141.5	156.4	149.2	22.76	23.70	22.69	37.1	39.1	37.3	61.2	60.6	60.9
Lumber and allied products.....	63.5	69.5	71.8	55.1	65.3	68.2	19.48	21.23	21.41	37.2	40.3	40.3	52.8	53.3	53.8
Furniture.....	79.5	86.8	89.1	65.8	76.8	78.2	19.66	21.11	20.85	37.0	40.4	40.5	53.2	52.4	51.6
Lumber:															
Millwork.....	51.2	54.3	55.6	46.3	51.7	53.2	20.58	21.90	22.09	37.7	40.2	40.8	54.7	54.5	54.3
Sawmills.....	47.6	52.7	54.7	40.4	49.4	52.6	18.99	21.13	21.65	37.3	40.2	40.0	52.0	53.6	55.0
Stone, clay, and glass products.....	68.2	71.4	72.7	63.6	69.6	69.9	23.71	24.74	24.38	36.5	38.7	38.3	64.4	63.9	64.3
Brick, tile, and terra cotta.....	45.5	50.0	52.3	36.4	44.2	46.4	19.18	21.19	21.64	35.8	39.6	39.4	53.4	53.3	54.9
Cement.....	66.1	69.2	69.9	67.3	72.2	72.8	25.73	26.34	26.20	38.2	39.1	38.5	67.4	67.3	68.0
Glass.....	106.7	109.9	111.1	111.9	119.2	118.7	25.21	26.10	25.68	35.8	37.5	36.8	70.5	70.0	70.0
Marble, granite, slate, and other products.....	42.1	43.4	44.9	34.6	37.8	39.8	23.88	25.37	25.71	36.2	38.7	38.7	66.3	66.2	66.9
Pottery.....	76.9	78.6	77.0	70.0	72.9	66.8	24.05	24.29	22.71	37.9	39.8	39.4	63.1	62.1	61.6
<i>Nondurable goods</i>															
Textile and their products.....	92.0	98.8	101.6	71.5	84.2	87.1	15.37	16.87	16.99	30.6	32.8	33.2	50.9	52.1	51.6
Fabrics.....	87.2	91.9	94.9	71.5	81.0	85.3	15.24	16.45	16.79	31.5	33.6	34.4	49.2	49.4	49.2
Carpets and rugs.....	85.7	88.7	99.4	49.7	64.2	84.5	13.77	17.07	20.05	21.2	26.4	30.8	64.9	64.6	65.0
Cotton goods.....	91.1	93.9	98.4	76.8	85.1	92.5	13.25	14.30	14.84	31.5	33.7	34.9	42.1	42.4	42.4
Cotton small wares.....	91.2	98.4	97.8	79.0	96.8	95.9	16.10	18.35	18.02	33.1	37.1	37.0	50.0	50.3	49.6
Dyeing and finishing textiles.....	108.8	112.2	110.5	89.0	94.6	94.9	19.87	20.49	20.86	34.4	35.3	36.3	57.6	57.5	57.1
Hats, fur-felt.....	83.0	83.0	85.5	61.0	62.0	69.2	19.96	20.20	21.92	28.2	26.7	30.8	71.6	72.4	70.9
Knit goods.....	111.9	116.3	116.5	112.3	122.8	116.9	17.40	18.33	17.43	33.7	35.6	34.3	52.4	52.3	52.0
Silk and rayon goods.....	67.6	75.4	79.9	50.8	62.4	68.2	14.54	16.02	16.55	31.7	34.2	35.1	46.2	46.9	46.9
Woolen and worsted goods.....	59.8	68.4	70.4	42.8	52.8	57.6	16.43	17.73	18.82	27.7	30.3	32.1	59.4	58.6	58.9

See footnotes at end of table.

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

MANUFACTURING—Continued

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	November 1937	October 1937	September 1937	November 1937	October 1937	September 1937	November 1937	October 1937	September 1937	November 1937	October 1937	September 1937	November 1937	October 1937	September 1937
<i>Nondurable goods—Continued</i>															
Textiles and their products—Continued.													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Wearing apparel.....	101.0	112.1	114.4	68.6	87.0	87.0	\$15.74	\$17.99	\$17.53	28.9	31.3	30.8	54.3	57.4	56.3
Clothing, men's.....	90.7	103.5	108.7	61.1	80.2	83.9	15.82	18.14	18.12	26.1	29.5	29.8	61.1	62.1	61.7
Clothing, women's.....	134.9	150.4	152.2	84.2	110.1	106.3	17.25	20.29	18.94	29.2	31.2	30.1	55.5	61.7	58.4
Corsets and allied garments.....	88.1	89.7	88.9	82.1	87.3	84.2	15.52	16.17	15.62	33.6	33.3	32.6	46.0	47.8	47.5
Men's furnishings.....	130.4	135.9	127.7	103.8	111.8	95.4	14.36	14.79	13.43	32.8	35.6	31.6	37.3	37.6	38.1
Millinery.....	43.8	52.0	56.7	26.7	35.5	49.0	17.40	20.30	25.05						
Shirts and collars.....	114.6	120.7	119.2	102.6	112.5	103.0	13.14	13.97	12.88	33.1	34.7	32.8	40.4	40.8	40.4
Leather and its manufactures.	80.3	89.5	92.7	53.8	68.3	71.8	15.48	17.14	17.94	28.6	31.8	32.9	54.5	54.2	55.0
Boots and shoes.....	80.8	90.7	94.0	46.0	58.7	64.5	13.72	15.50	16.49	26.9	30.4	31.7	52.3	51.9	53.0
Leather.....	82.9	89.6	92.5	82.7	95.0	98.6	22.13	23.60	23.70	35.2	37.5	37.7	62.8	63.3	63.0
Food and kindred products.	114.6	125.0	137.8	115.9	125.0	133.2	24.46	23.77	23.03	40.3	40.9	40.5	60.2	58.8	57.0
Baking.....	135.2	138.4	136.7	130.3	137.3	136.1	25.10	25.84	25.90	41.4	43.0	42.8	61.1	60.6	60.8
Beverages.....	194.3	202.7	223.3	212.7	222.4	253.0	32.22	32.36	33.27	38.8	39.2	40.2	84.2	83.5	83.2
Butter.....	83.7	86.4	91.6	67.2	70.3	73.8	22.42	22.71	22.35						
Canning and preserving.....	118.7	125.9	131.5	111.4	127.7	137.1	15.74	16.24	15.75	33.8	36.3	36.9	47.8	46.5	44.3
Confectionery.....	91.8	95.5	85.4	89.8	98.4	89.0	17.63	18.62	18.79	38.7	41.3	40.8	45.6	45.5	46.5
Flour.....	76.0	76.9	76.8	76.7	80.9	80.7	26.10	27.30	27.15	43.7	45.6	45.3	58.8	59.0	59.2
Ice cream.....	65.1	68.8	82.2	61.5	63.9	74.0	29.16	28.54	27.83	46.5	46.1	46.3	61.3	60.1	59.7
Slaughtering and meat packing.....	90.5	89.4	86.8	102.3	100.1	98.0	28.31	28.01	28.35	41.1	40.8	41.1	68.1	68.8	69.1
Sugar, beet.....	252.1	253.0	91.6	267.4	224.3	100.7	25.09	20.97	26.01	49.6	41.6	44.7	50.8	52.4	59.6
Sugar refining, cane.....	70.4	68.8	67.2	66.8	64.2	60.1	26.41	25.97	24.96	40.9	38.5	36.2	62.8	66.8	69.0
Tobacco manufactures.	62.9	62.6	62.1	57.2	57.9	56.5	16.72	17.03	17.12	37.4	37.6	37.0	44.9	45.1	48.0
Chewing and smoking tobacco and snuff.....	56.7	56.2	55.8	63.8	68.2	70.0	17.06	18.20	18.81	33.5	35.8	37.2	51.1	51.3	51.0
Cigars and cigarettes.....	63.6	63.3	62.8	56.4	56.6	54.9	16.66	16.80	16.79	37.9	37.9	37.0	44.2	44.4	45.5
Paper and printing.	106.4	107.9	107.7	101.5	105.1	103.7	27.48	28.26	27.69	37.7	38.7	38.4	75.7	75.6	75.1
Boxes, paper.....	103.3	104.8	102.8	102.6	108.9	103.3	20.42	21.35	20.53	39.0	40.8	39.2	52.8	52.7	52.8
Paper and pulp.....	113.6	117.3	119.1	105.4	116.7	117.6	23.26	24.90	24.71	36.9	39.5	39.2	63.2	63.1	63.0
Printing and publishing:															
Book and job.....	98.3	98.8	98.9	93.1	92.6	92.8	29.96	29.71	29.69	38.7	38.3	38.6	78.5	78.5	77.9
Newspapers and periodicals.....	107.0	107.5	108.9	106.1	107.3	103.8	37.42	37.59	37.03	37.1	37.1	36.9	97.1	97.4	96.5
Chemicals and allied products, and petroleum refining.	122.7	126.5	128.6	132.1	137.5	139.0	28.07	28.32	28.19	38.5	39.2	39.0	73.8	73.4	74.0
Other than petroleum refining.....	122.4	126.7	128.9	129.6	136.1	137.7	25.59	25.99	25.92	39.5	40.3	40.2	65.8	65.4	66.1

Chemicals.....	129.8	135.2	137.4	141.7	150.6	150.9	30.25	30.84	30.47	38.7	39.6	38.9	78.2	77.9	78.4
Cottonseed—oil, cake, and meal.....	121.0	127.1	120.7	113.0	118.9	112.4	13.18	13.14	13.14	53.5	54.1	53.2	24.8	24.5	24.9
Druggists' preparations.....	112.5	114.8	114.1	125.8	128.9	127.3	24.33	24.47	24.29	39.2	39.6	40.8	58.3	58.4	57.8
Explosives.....	95.4	97.3	97.6	106.6	110.5	106.4	31.64	32.18	30.89	39.7	40.5	38.9	79.8	79.5	79.5
Fertilizers.....	75.3	80.5	84.6	77.4	83.2	97.2	17.02	17.16	19.16	38.6	38.8	41.1	44.1	44.2	46.7
Paints and varnishes.....	128.0	131.6	132.4	124.8	134.1	131.6	26.95	28.17	27.53	38.8	40.5	39.6	69.6	69.7	69.6
Rayon and allied products.....	374.0	387.5	407.1	360.3	374.9	393.6	23.79	23.89	23.88	37.0	37.4	38.4	64.4	63.8	64.6
Soap.....	100.4	102.8	103.1	116.9	121.1	122.1	28.23	28.55	28.68	39.2	40.0	39.9	72.4	71.9	72.7
Petroleum refining.....	123.9	125.7	127.2	140.4	142.3	143.1	34.42	34.43	34.16	35.8	35.9	35.5	97.0	96.9	97.4
Rubber products.....	90.9	97.7	98.0	92.0	94.3	97.4	24.11	25.83	26.64	31.6	33.8	34.5	79.0	79.0	79.1
Rubber boots and shoes.....	71.9	77.5	78.7	62.1	70.4	75.9	21.70	22.83	24.24	35.9	37.5	40.0	60.4	60.9	60.6
Rubber goods, other than boots, shoes, tires, and inner tubes.....	128.2	137.3	134.7	121.7	139.5	132.6	21.93	23.61	22.60	36.0	38.8	37.5	60.9	61.4	60.6
Rubber tires and inner tubes.....	80.8	87.0	88.3	72.9	84.3	90.4	26.26	28.24	29.76	27.2	29.3	30.8	97.2	96.6	97.0

NONMANUFACTURING

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

Coal mining:															
Anthracite.....	50.5	51.0	48.2	45.1	51.0	31.5	\$26.00	\$29.14	\$18.99	28.3	31.4	20.8	90.7	91.2	90.8
Bituminous.....	82.1	82.9	80.5	77.8	86.0	77.7	24.00	26.25	24.37	26.9	29.6	27.5	87.8	88.7	89.0
Metalliferous mining.....	75.4	82.9	84.1	71.6	81.7	82.2	30.05	31.26	31.22	43.1	44.2	43.6	69.9	70.8	71.6
Quarrying and nonmetallic mining.....	49.9	53.3	54.7	41.7	49.3	50.1	21.48	23.70	22.86	38.9	42.6	42.1	55.0	55.4	53.9
Crude-petroleum producing.....	77.2	77.5	78.2	70.2	69.9	71.2	34.12	33.64	33.93	39.9	39.9	40.0	84.3	83.3	83.9
Public utilities:															
Telephone and telegraph.....	79.1	79.9	80.1	91.1	94.3	92.3	30.57	31.44	31.58	38.6	39.9	39.1	84.9	83.5	83.9
Electric light and power and manufactured gas.....	97.3	98.5	98.6	103.8	105.3	104.0	34.44	34.23	33.96	40.4	40.4	40.2	85.8	85.1	85.2
Electric-railroad and motorbus operation and maintenance.....	73.2	73.4	73.7	71.9	71.4	71.6	32.21	31.93	31.71	45.9	45.9	46.0	69.4	68.7	68.1
Trade:															
Wholesale.....	93.5	94.0	93.0	78.3	79.3	78.3	30.27	30.45	30.60	42.7	42.9	42.6	70.6	70.6	71.7
Retail.....	91.7	92.1	90.7	75.3	75.9	74.4	21.65	21.96	21.87	42.7	43.0	42.7	55.9	56.5	56.2
General merchandising.....	109.8	108.1	103.7	97.1	96.2	92.4	18.37	18.55	18.62	39.2	39.4	39.1	51.2	51.5	51.6
Other than general merchandising.....	86.9	87.9	87.3	70.8	71.7	70.7	24.55	24.89	24.64	43.9	44.2	43.9	57.5	58.1	57.6
Hotels (year-round) ¹	88.9	89.2	88.1	77.9	77.7	76.1	15.25	15.11	15.00	47.2	47.1	47.4	32.2	31.7	31.6
Laundries.....	88.0	89.9	93.7	79.2	81.5	84.4	16.90	16.96	16.84	41.6	42.1	42.5	40.7	40.3	39.7
Dyeing and cleaning.....	80.0	85.3	86.7	62.9	71.4	72.8	19.55	20.78	20.61	40.8	42.6	43.9	49.1	49.9	47.4
Brokerage ²	+ 8	-2.9	-1.9	+1.1	-3.2	-2.5	38.60	38.52	38.77	(³)	(³)	(³)	(³)	(³)	(³)
Insurance ³	-1	-1	-2	+1.8	+3	-2.4	39.15	38.45	38.59	(³)	(³)	(³)	(³)	(³)	(³)
Building construction ²	-6.4	-3.3	-7	-8.1	-3.0	-2.2	30.52	31.22	31.76	33.1	34.3	34.1	91.6	90.8	92.8

¹ Average weekly earnings are computed from figures furnished by all reporting establishments. Average hours and average hourly earnings are computed from data supplied by a smaller number of establishments as all reporting firms do not furnish man-hours. 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
NOVEMBER 1937**

Indexes of employment and pay rolls are given in tables 5 and 6 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 November 1937, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to November 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 November 1937 reports were received from 25,315 manufacturing establishments employing 4,684,590 workers, whose weekly earnings were \$112,034,042. The employment reports received from these establishments cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 89 industries included in the monthly survey of the Bureau of Labor Statistics.

The indexes for nonmanufacturing industries are based on the 12-month average for 1929 as 100. Figures for mining, laundries, dyeing and cleaning, and building construction cover wage earners only, but the figures for public utilities, trade, hotels, brokerage, and insurance relate to all employees, 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.

EMPLOYMENT & PAY ROLLS ALL MANUFACTURING INDUSTRIES 1923=100

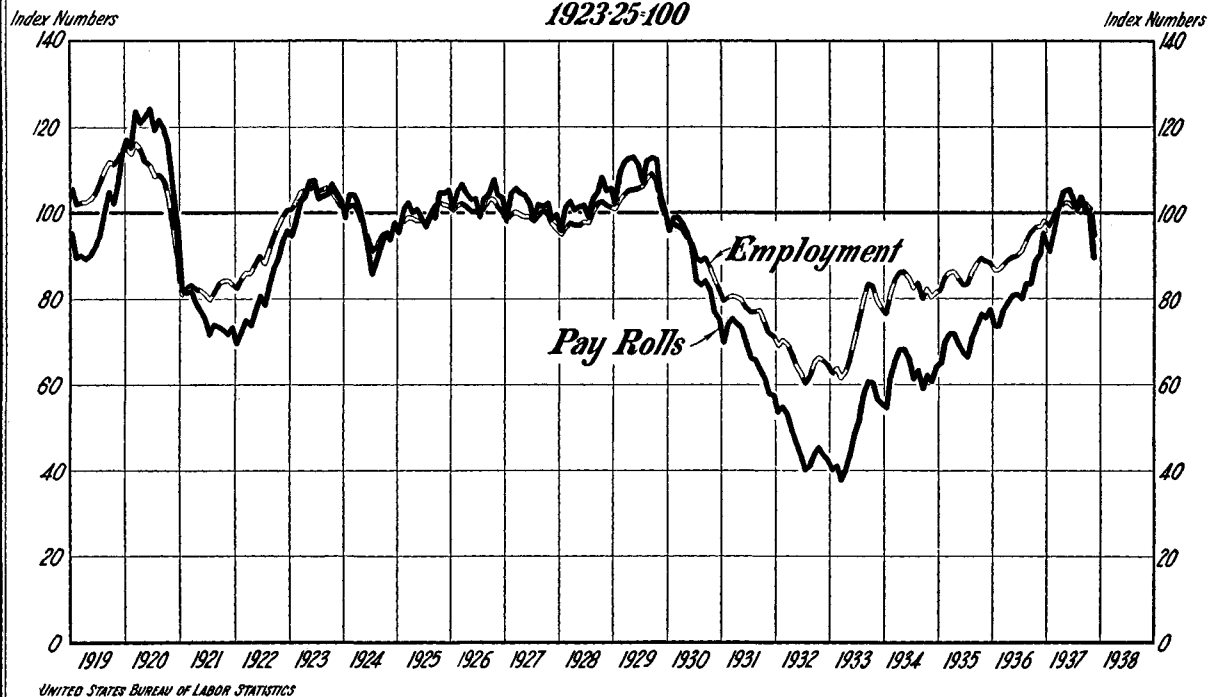


TABLE 5.—Indexes of Employment and Pay Rolls in All Manufacturing Industries Combined and in the Durable- and Nondurable-Goods Groups ¹

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

Month	Manufacturing											
	Total				Durable goods ²				Nondurable goods ²			
	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	104.0	102.8	106.9	91.8	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	⁴ 100.5	89.0	⁴ 100.1	89.2	⁴ 97.6	85.3	101.7	104.7	⁴ 103.6	93.7	⁴ 98.2
November.....	96.9	94.7	90.7	89.5	91.0	92.4	88.9	89.9	103.3	97.3	92.9	89.0
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.

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

[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	61.0	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	51.0	48.5	51.0	81.1	82.9	79.2	86.0	64.2	82.9	53.7	81.7	54.6	53.3	46.2	49.3
November.....	51.5	50.5	40.3	45.1	82.3	82.1	80.7	77.8	62.9	75.4	54.6	71.6	52.6	49.9	43.5	41.7
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 tele-graph				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	78.2	60.4	71.2	73.7	80.1	78.8	92.3	93.5	98.6	91.4	104.0	72.8	73.7	66.4	71.6
October.....	73.6	77.5	59.6	69.9	73.8	79.9	83.1	94.3	94.0	98.5	92.7	105.3	73.1	73.4	67.7	71.4
November.....	73.2	77.2	60.1	70.2	73.7	79.1	81.6	91.1	93.5	97.3	91.8	103.8	73.0	73.2	69.7	71.9
December.....	72.4	-----	61.3	-----	73.6	-----	82.4	-----	93.2	-----	93.8	-----	72.5	-----	69.3	-----
Average..	72.9	-----	58.6	-----	72.2	-----	78.9	-----	90.5	-----	88.8	-----	72.0	-----	67.2	-----

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

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

TABLE 6.—*Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1936 to November 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	90.7	66.6	74.4	98.5	103.7	82.8	92.4	83.5	87.3	63.3	70.7
October.....	89.0	94.0	71.5	79.3	88.7	92.1	68.3	75.9	103.9	108.1	87.2	96.2	84.7	87.9	64.4	71.7
November.....	89.7	93.5	73.1	78.3	90.1	91.7	70.1	75.3	109.3	109.8	91.4	97.1	85.1	86.9	65.7	70.8
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	61.6	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	83.2	88.5	70.9	78.5	81.8	84.9	64.1	68.8
May.....	84.1	87.7	67.0	73.6	85.5	90.3	75.6	81.4	87.3	88.6	72.2	73.9
June.....	83.9	86.9	66.6	74.0	87.2	93.5	75.8	85.5	87.5	92.1	69.2	79.2
July.....	83.3	86.1	66.0	73.3	90.5	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	89.2	69.6	77.7	87.6	89.9	75.3	81.5	86.6	85.3	66.7	71.4
November.....	84.6	88.9	69.6	77.9	87.0	88.0	74.5	79.2	81.3	80.0	60.2	62.9
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	-----

TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in October and November 1937, is shown in table 7 for all groups combined, and for all manufacturing industries combined, based on data supplied by reporting establishments. The percentage changes shown, unless otherwise noted, are unweighted—that is, the industries included in the manufacturing group and in the grand total have not been weighted according to their relative importance.

The totals for all manufacturing industries combined include figures for miscellaneous manufacturing industries in addition to the 89 manufacturing industries presented in table 3. The totals for all groups combined include all manufacturing industries, each of the nonmanufacturing industries presented in table 3 except building construction, and seasonal hotels.

TABLE 7.—*Comparison of Employment and Pay Rolls in Identical Establishments in October and November 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 November 1937	Percentage change from October 1937	Amount of pay roll (1 week) November 1937	Percentage change from October 1937	Number of establishments	Number on pay roll November 1937	Percentage change from October 1937	Amount of pay roll (1 week) November 1937	Percentage change from October 1937
				<i>Dollars</i>					<i>Dollars</i>	
New England.....	13,982	868,906	-5.4	19,350,140	-8.5	3,578	587,633	-7.2	12,233,884	-12.0
Maine.....	797	50,184	-7.5	966,099	-14.7	292	39,130	-8.9	699,562	-18.2
New Hampshire.....	615	36,015	-5.3	669,543	-9.8	207	28,268	-6.6	486,891	-12.8
Vermont.....	476	16,693	-8.7	342,829	-17.6	148	9,823	-10.8	193,463	-21.8
Massachusetts.....	<i>18,318</i>	<i>470,998</i>	<i>-5.5</i>	<i>10,848,080</i>	<i>-5.6</i>	<i>1,768</i>	<i>271,157</i>	<i>-8.6</i>	<i>5,822,067</i>	<i>-9.0</i>
Rhode Island.....	1,270	86,609	-5.8	1,702,711	-16.6	427	67,088	-6.9	1,195,150	-21.1
Connecticut.....	2,508	208,407	-3.9	4,826,878	-9.5	746	172,167	-4.7	3,886,751	-11.2
Middle Atlantic.....	32,649	2,229,394	-3.4	57,988,056	-7.4	5,440	1,261,331	-4.8	31,135,736	-10.2
New York.....	20,571	978,083	-3.2	26,918,278	-5.5	<i>2,266</i>	<i>447,532</i>	<i>-5.3</i>	<i>11,688,612</i>	<i>-9.2</i>
New Jersey.....	4,292	355,193	-2.5	9,121,229	-4.8	<i>848</i>	<i>260,617</i>	<i>-2.4</i>	<i>6,509,470</i>	<i>-5.5</i>
Pennsylvania.....	7,786	896,118	-3.9	21,898,549	-10.6	<i>2,336</i>	<i>553,182</i>	<i>-5.2</i>	<i>12,937,654</i>	<i>-12.7</i>
East North Central.....	24,708	2,416,811	-3.8	64,856,575	-8.9	83,48	1,839,512	-4.6	50,262,234	-10.4
Ohio.....	8,111	636,124	-5.5	16,527,288	-10.3	2,551	469,217	-7.1	12,337,080	-12.8
Indiana.....	<i>2,631</i>	<i>286,794</i>	<i>-5.8</i>	<i>7,067,199</i>	<i>-13.4</i>	<i>917</i>	<i>231,082</i>	<i>-6.8</i>	<i>5,746,174</i>	<i>-15.8</i>
Illinois.....	<i>6,326</i>	<i>644,531</i>	<i>-3.4</i>	<i>16,832,205</i>	<i>-7.0</i>	<i>2,447</i>	<i>444,107</i>	<i>-4.7</i>	<i>11,500,123</i>	<i>-9.5</i>
Michigan.....	3,859	591,876	-1.3	17,873,795	-8.5	<i>945</i>	<i>517,194</i>	<i>-1.2</i>	<i>16,123,536</i>	<i>-3.0</i>
Wisconsin.....	<i>6,779</i>	<i>257,436</i>	<i>-3.6</i>	<i>6,509,088</i>	<i>-6.2</i>	<i>1,458</i>	<i>177,912</i>	<i>-2.1</i>	<i>4,555,321</i>	<i>-5.7</i>
West North Central.....	12,127	447,670	-2.9	10,817,173	-4.0	2,424	215,708	-5.6	5,212,311	-6.3
Minnesota.....	2,303	93,737	-2.3	2,447,830	-3.9	421	43,490	-3.9	1,145,587	-4.3
Iowa.....	1,933	68,641	-3.7	1,609,478	-4.8	412	37,577	-6.4	927,908	-6.4
Missouri.....	3,123	174,828	-4.1	4,130,538	-5.6	876	92,619	-7.2	2,054,784	-9.3
North Dakota.....	597	5,892	-1.3	142,336	-2.4	56	663	-1.3	19,781	-4.3
South Dakota.....	570	8,525	-3	215,862	-1.0	38	2,189	-5	57,618	+3.0
Nebraska.....	1,598	36,428	-9	857,154	+ ⁽⁹⁾	162	12,838	-3.5	330,111	+1.9
Kansas.....	<i>2,019</i>	<i>59,619</i> ¹⁰	<i>-5.1</i>	<i>1,415,475</i>	<i>-3.5</i>	<i>459</i>	<i>26,358</i>	<i>-2.3</i>	<i>676,522</i>	<i>-4.2</i>

See footnotes at end of table.

TABLE 7.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 1937, by Geographic Divisions and by States—Continued

[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 November 1937	Percentage change from October 1937	Amount of pay roll (1 week) November 1937	Percentage change from October 1937	Number of establishments	Number on pay roll November 1937	Percentage change from October 1937	Amount of pay roll (1 week) November 1937	Percentage change from October 1937
				<i>Dollars</i>					<i>Dollars</i>	
South Atlantic	11,252	873,562	-2.0	17,073,905	-5.3	2,818	573,187	-2.7	10,173,426	-6.6
Delaware.....	221	15,337	-8.4	373,930	-6.9	89	11,133	-10.3	267,209	-8.3
Maryland.....	1,641	136,090	-2.7	3,197,013	-6.6	586	92,672	-4.0	2,125,057	-4.8
District of Columbia.....	1,111	42,682	+1.1	1,098,490	+3.3	34	3,212	+1.9	109,624	+1.2
Virginia.....	2,161	118,689	-1.8	2,265,005	-4.8	470	80,431	-2.8	1,481,493	-6.1
West Virginia.....	1,280	157,249	-3.2	3,957,237	-7.4	254	59,919	-2.8	1,513,563	-7.0
North Carolina.....	1,509	160,534	-2.0	2,341,596	-6.0	581	143,616	-2.0	2,060,982	-6.7
South Carolina.....	782	80,225	-3	1,166,386	-2.5	222	71,536	-4	1,006,972	-2.6
Georgia.....	1,515	116,439	-3.4	1,841,476	-6.0	384	89,162	-4.3	1,246,738	-7.9
Florida.....	1,032	46,317	+5.2	832,772	+3.0	198	21,481	+1.4	361,788	+1.9
East South Central	4,549	305,485	-3.3	5,580,355	-7.7	1,021	188,122	-4.8	3,166,660	-10.1
Kentucky.....	1,282	87,501	-2.0	1,840,416	-8.1	294	36,510	-3.5	696,828	-11.8
Tennessee.....	1,337	105,606	-5.1	1,873,763	-7.3	383	76,945	-6.7	1,310,367	-9.7
Alabama.....	1,303	91,319	-3.2	1,535,874	-8.1	250	61,856	-4.1	986,488	-9.7
Mississippi.....	627	21,059	+1.8	321,302	-6.0	94	12,811	-1	172,977	-9.3
West South Central	5,038	215,445	-1.9	4,822,134	-3.7	1,175	105,839	-3.4	2,300,893	-5.8
Arkansas.....	1,701	28,611	-4.5	524,875	-7.2	246	18,866	-7.0	309,734	-10.1
Louisiana.....	1,029	50,721	-1.2	986,287	-3.4	232	25,832	-2.2	435,705	-7.5
Oklahoma.....	1,470	48,030	-2.5	1,168,534	-4.5	143	12,201	-5.2	288,278	-9.2
Texas.....	1,836	88,053	-1.0	2,143,093	-2.4	554	49,540	-2.1	1,267,176	-3.8
Mountain	4,490	154,181	-4.6	4,054,082	-4.9	589	47,344	-7.6	1,208,185	-3.3
Montana.....	700	22,515	-8.4	680,041	-11.4	81	5,035	-2.8	129,290	-12.4
Idaho.....	509	14,208	-2.9	380,203	-2.3	56	4,976	-6.0	124,101	-4.6
Wyoming.....	355	10,949	-1	316,534	-1.0	39	2,434	-1.1	75,801	+1.0
Colorado.....	1,252	49,348	-5.9	1,259,881	-3.7	187	19,535	-11.6	495,404	-5.0
New Mexico.....	322	7,265	-1.4	161,261	-4.2	33	908	-4	15,492	-5.2
Arizona.....	498	19,152	-5.0	508,546	-10.8	42	3,557	-3.0	89,042	-7.8
Utah.....	636	26,939	-2.4	674,831	+1.6	107	9,950	-6.6	250,320	+7.4
Nevada.....	218	3,805	+2	112,765	-8	24	949	-2.5	28,726	-1.3
Pacific	10,064	449,201	-7.2	12,300,572	9.9	2,523	243,212	-11.3	6,442,256	-15.1
Washington.....	3,124	100,151	-9.0	2,573,923	-12.2	569	54,701	-14.3	1,341,505	-18.9
Oregon.....	1,420	52,866	-11.6	1,303,345	-17.8	306	29,336	-18.2	659,954	-28.6
California.....	5,520	296,184	-5.8	8,423,304	-7.8	1,648	159,175	-8.8	4,440,797	-11.3

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 Weighted percentage change including hired farm labor.¹¹ Includes automobile dealers and garages, and sand, gravel, and building stone.¹² Includes business and personal service.¹³ Includes banks, insurance, and office employment.

INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in October and November 1937 is made in table 8 for 13 metropolitan areas which had a population of 500,000 or over in 1930. Cities within these areas, but having a population of 100,000 or over are not included as data concerning them are tabulated separately and are available on request. Footnotes in the table indicate which cities are excluded. 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 3 except building construction.

TABLE 8.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 1937 by Principal Metropolitan Areas

Metropolitan area	Number of establishments	Number on pay roll November 1937	Percentage change from October 1937	Amount of pay roll (1 week) November 1937	Percentage change from October 1937
New York ¹	15,258	651,289	-2.1	\$17,112,560	-4.1
Chicago ²	4,424	470,235	-3.4	12,789,375	-7.5
Philadelphia ³	2,410	221,318	-2.8	5,981,897	-4.4
Detroit.....	1,659	385,235	-1.5	12,303,806	-7.8
Los Angeles ⁴	2,866	155,909	-2.5	4,376,119	-5.1
Cleveland.....	1,768	144,892	-4.8	3,839,101	-10.5
St. Louis.....	1,551	133,848	-4.1	3,255,480	-6.8
Baltimore.....	1,204	103,221	-1.7	2,460,135	-6.6
Boston ⁵	3,712	172,262	-4.7	4,153,203	-3.3
Pittsburgh.....	1,280	227,297	-5.5	5,746,523	-14.4
San Francisco ⁶	1,651	86,407	-3.5	2,568,518	-5.7
Buffalo.....	863	64,343	-7.8	1,743,553	-14.2
Milwaukee.....	1,074	105,855	-3.4	2,858,105	-5.6

¹ Does not include Elizabeth, Jersey City, Newark, and Paterson, N. J.; and Yonkers, N. Y.

² Does not include Gary, Ind.

³ Does not include Camden, N. J.

⁴ Does not include Long Beach, Calif.

⁵ Does not include Cambridge, Lynn, and Somerville, Mass.

⁶ Does not include Oakland, Calif.

Public Employment

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

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 October and November 1937 are given in table 9.

TABLE 9.—*Employment and Pay Rolls in the Executive Service of the U. S. Government, October and November 1937*¹

[Subject to revision]

Item	Employment		Per- cent- age change	Pay roll		Per- cent- age change
	Novem- ber	Octo- ber ²		November	October ²	
Entire service:						
Total.....	819, 927	827, 727	-0. 94	\$119, 163, 057	\$122, 986, 050	-3. 11
Regular appropriation.....	684, 739	690, 071	- . 77	101, 838, 357	105, 108, 919	-3. 11
Emergency appropriation.....	65, 117	67, 569	-3. 63	8, 935, 035	9, 361, 162	-4. 55
Force-account.....	70, 071	70, 087	- . 02	8, 389, 665	8, 515, 969	-1. 48
Inside the District of Columbia:						
Total.....	111, 775	110, 809	+ . 87	19, 614, 896	19, 409, 979	+1. 06
Regular appropriation.....	92, 505	91, 656	+ . 93	16, 690, 262	16, 402, 325	+1. 76
Emergency appropriation.....	13, 400	13, 444	- . 33	2, 046, 553	2, 164, 436	-5. 45
Force-account.....	5, 870	5, 709	+2. 82	878, 081	843, 218	+4. 13
Outside the District of Columbia:						
Total.....	708, 152	716, 918	-1. 22	99, 548, 161	103, 576, 071	-3. 89
Regular appropriation.....	592, 234	598, 415	-1. 03	85, 148, 095	88, 706, 594	-4. 01
Emergency appropriation.....	51, 717	54, 125	-4. 45	6, 888, 482	7, 196, 726	-4. 28
Force-account.....	64, 201	64, 378	- . 27	7, 511, 584	7, 672, 751	-2. 10

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

² Revised.

³ Of this decrease in November of 7,800 workers, 1,300 employees were transferred from pay rolls of the U. S. Employment Service to State pay rolls.

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

TABLE 10.—*Employment in the Executive Service of the U. S. Government, by Months, November 1936 Through November 1937*¹

[Subject to revision]

Month	District of Co- lumbia	Outside District of Co- lumbia	Total	Month	District of Co- lumbia	Outside District of Co- lumbia	Total
1936				1936—Contd.			
November.....	115, 174	722, 098	837, 272	April.....	116, 755	718, 884	835, 639
December.....	116, 345	712, 962	829, 307	May.....	116, 274	724, 247	840, 521
1937				June ²	112, 118	757, 968	870, 086
January.....	116, 259	713, 924	830, 183	July ²	111, 124	737, 783	848, 907
February.....	116, 259	710, 462	826, 721	August ²	111, 476	731, 876	843, 352
March.....	116, 535	713, 047	829, 582	September ²	111, 428	725, 118	836, 546
				October ²	110, 809	716, 918	827, 727
				November.....	111, 775	708, 152	³ 819, 927

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

² Revised.

³ Of this decrease in November of 7,800 workers, 1,300 employees were transferred from pay rolls of the United States Employment Service to State pay rolls.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

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

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

[Subject to revision]

Type of project	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ²	Weekly average				
Federal projects financed from N. I. R. A. funds						
All projects.....	\$ 21,458	20,334	\$2,347,774	2,956,057	\$0.794	\$1,679,167
Building construction.....	3,586	3,142	489,926	435,156	1.126	526,817
Naval vessels.....	5,527	5,426	733,950	865,239	.848	142,525
Public roads ⁴	(⁵)	5,960	383,118	722,202	.530	375,000
Reclamation.....	2,248	2,079	289,399	363,586	.796	371,986
River, harbor, and flood control.....	3,844	3,468	427,027	541,941	.788	236,545
Streets and roads.....	26	22	976	1,560	.626	2,799
Miscellaneous.....	267	237	23,378	26,373	.886	23,495
Non-Federal projects financed from N. I. R. A. funds						
All projects.....	19,103	16,165	\$1,797,332	1,866,892	\$0.963	\$2,738,660
Building construction.....	7,896	6,725	787,645	707,222	1.114	1,258,584
Railroad construction.....	56	52	1,116	2,282	.489	0
Streets and roads.....	1,759	1,405	89,009	121,260	.734	176,524
Water and sewerage.....	7,425	6,282	780,272	794,800	.982	1,042,423
Miscellaneous.....	1,967	1,701	139,290	241,328	.577	261,149
Non-Federal projects financed from E. R. A. A. 1935, 1936, and 1937 funds ⁶						
All projects ⁷	80,541	67,588	\$6,814,004	8,109,553	\$0.840	\$11,445,172
Building construction ⁷	40,418	33,745	3,683,138	3,784,819	.973	5,788,781
Electrification.....	454	367	34,157	43,410	.787	91,279
Heavy engineering.....	6,751	5,898	627,349	826,530	.759	1,211,742
Reclamation.....	1,065	969	129,772	159,005	.816	118,758
River, harbor, and flood control.....	178	149	6,499	13,576	.479	11,533
Streets and roads.....	10,381	13,528	978,991	1,666,136	.588	1,756,113
Water and sewerage.....	13,703	11,632	1,219,767	1,461,983	.834	2,012,981
Miscellaneous.....	1,571	1,300	134,331	154,094	.872	453,985

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

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

³ Includes weekly average for public roads.

⁴ Under the jurisdiction of the Bureau of Public Roads.

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

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

⁷ Includes a maximum of 10,544 and an average of 8,731 employees working on low-cost housing projects financed from E. R. A. A. 1935 funds who were paid \$1,157,887 for 1,090,595 man-hours of labor. Material orders in the amount of \$1,039,730 were placed for these projects. These data are also included in separate tables covering projects financed from The Works Program.

Federal construction projects for which data are included in tables 11 and 12 are financed by allotments made by the Public Works Administration to the various agencies and departments of the Federal Government from funds provided under the National Industrial Recovery Act. The major portion of the low-cost housing program now under way, however, is financed by funds provided under the Emergency Relief Appropriation Act of 1935. The work is performed either by commercial firms which have been awarded contracts, or by day labor hired directly by the Federal agencies.

Non-Federal projects are financed by allotments made by the Public Works Administration from funds available under either the National Industrial Recovery Act, the Emergency Relief Appropriation Act of 1935, or the First Deficiency Appropriation Act of 1936. Most of the allotments have been made to the States and their political subdivisions, but occasionally allotments have been made to commercial firms. In financing projects for the States or their political subdivisions from funds appropriated under the National Industrial Recovery Act, the Public Works Administration makes a direct grant of not more than 30 percent of the total labor and material cost. When funds provided under the Emergency Relief Appropriation Act of 1935 or the First Deficiency Appropriation Act of 1936 are used to finance a non-Federal project, as much as 45 percent of the total cost may be furnished in the form of a grant. The remaining 55 percent or more of the cost is financed by the recipient. When circumstances justify such action, the Public Works Administration may provide the grantee with the additional funds by means of a loan. Allotments to commercial enterprises are made only as loans. All loans made by the Public Works Administration carry interest charges and have a definite date of maturity. Collateral posted with the Public Works Administration to secure loans may be offered for sale to the public. In this way a revolving fund is provided which enlarges the scope of the activities of the Public Works Administration.

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

MONTHLY TREND

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

TABLE 12.—*Employment and Pay Rolls, July 1933 to November 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 November 1937 ³	-----	\$1, 043, 481, 344	1, 527, 373, 391	\$0. 683	\$1, 819, 659, 810
July to December 1933.....	-----	33, 244, 066	62, 209, 479	. 534	75, 587, 773
January to December 1934.....	-----	308, 393, 662	523, 484, 012	. 589	4 610, 009, 718
January to December 1935 ⁴	-----	270, 548, 829	392, 127, 344	. 690	4 439, 244, 485
January to December 1936 ⁴	-----	271, 331, 937	353, 259, 435	. 768	4 432, 513, 423
1937 ⁴					
January.....	202, 175	15, 439, 981	18, 768, 676	. 823	26, 922, 308
February.....	174, 990	13, 796, 390	16, 580, 393	. 832	19, 390, 733
March.....	173, 574	13, 353, 904	16, 341, 250	. 817	20, 652, 435
April.....	196, 201	15, 242, 390	19, 068, 352	. 799	26, 135, 173
May.....	206, 019	15, 850, 354	19, 984, 975	. 793	32, 077, 717
June.....	204, 098	16, 430, 649	20, 510, 465	. 801	26, 151, 770
July.....	198, 483	16, 250, 846	20, 057, 290	. 810	24, 945, 172
August.....	187, 822	15, 426, 446	19, 115, 326	. 807	25, 714, 152
September.....	166, 955	14, 309, 249	17, 382, 805	. 823	23, 527, 633
October.....	149, 564	12, 903, 311	15, 551, 087	. 830	20, 924, 319
November.....	121, 102	10, 959, 110	12, 932, 502	. 847	15, 862, 999

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 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 November is shown in table 13, by type of project.

TABLE 13.—Employment and Pay Rolls on Projects Financed by The Works Program, November 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	Weekly average				
Federal projects						
All projects.....	2 184, 654	171, 339	\$10, 857, 382	19, 511, 587	\$0. 556	\$5, 193, 777
Building construction.....	48, 396	45, 428	3, 148, 377	5, 075, 681	. 620	697, 168
Electrification.....	791	671	53, 229	96, 444	. 552	117, 063
Forestry ²	16, 092	16, 007	631, 078	1, 468, 998	. 430	72, 941
Grade-crossing elimination.....	12, 855	10, 465	870, 688	1, 326, 316	. 656	1, 296, 310
Hydroelectric power plants ³	2, 616	2, 460	80, 928	362, 250	. 223	30, 907
Plant, crop, and livestock conservation ⁴	12, 218	11, 486	644, 581	1, 538, 152	. 419	82, 545
Professional, technical, and clerical.....	6, 413	6, 411	495, 190	821, 034	. 603	75, 660
Public roads ⁵	14, 088	11, 762	819, 679	1, 417, 542	. 578	1, 413, 088
Reclamation.....	44, 591	42, 852	2, 803, 752	5, 226, 987	. 536	950, 013
River, harbor, and flood control.....	19, 276	17, 047	968, 817	1, 440, 652	. 672	314, 982
Streets and roads.....	4, 711	4, 275	221, 365	467, 880	. 473	66, 472
Water and sewerage.....	794	738	31, 234	88, 218	. 354	38, 385
Miscellaneous.....	1, 813	1, 737	88, 464	181, 433	. 488	38, 243
P. W. A. projects financed from E. R. A. A. 1935, 1936, and 1937 funds ⁶						
All projects.....	2 80, 541	67, 588	\$6, 814, 004	8, 109, 553	\$0. 840	\$11, 445, 172
Building construction.....	40, 418	33, 745	3, 683, 138	3, 784, 819	. 973	5, 788, 781
Electrification.....	454	367	34, 157	43, 410	. 787	91, 279
Heavy engineering.....	6, 751	5, 898	627, 349	826, 530	. 759	1, 211, 742
Reclamation.....	1, 085	969	129, 772	159, 005	. 816	118, 758
River, harbor, and flood control.....	178	149	6, 499	13, 576	. 479	11, 533
Streets and roads.....	16, 381	13, 528	978, 991	1, 666, 136	. 588	1, 756, 113
Water and sewerage.....	13, 703	11, 632	1, 219, 767	1, 461, 983	. 834	2, 012, 981
Miscellaneous.....	1, 571	1, 300	134, 331	154, 094	. 872	453, 985
Projects operated by Works Progress Administration ⁷						
All projects.....	1, 566, 697	-----	\$82, 714, 339	157, 792, 544	\$0. 524	(⁸)
Conservation.....	61, 446	-----	2, 997, 859	5, 886, 384	. 509	-----
Highway, road and street.....	578, 755	-----	26, 961, 250	57, 015, 908	. 473	-----
Housing.....	1, 703	-----	110, 989	156, 202	. 711	-----
Professional, technical, and clerical.....	181, 790	-----	13, 201, 756	19, 772, 192	. 668	-----
Public buildings.....	153, 999	-----	9, 142, 233	13, 706, 498	. 667	-----
Publicly owned or operated utilities.....	147, 588	-----	7, 989, 821	14, 776, 923	. 541	-----
Recreational facilities ⁹	134, 247	-----	7, 624, 430	12, 812, 386	. 595	-----
Sanitation and health.....	48, 381	-----	2, 209, 540	4, 992, 251	. 443	-----
Sewing, canning, gardening, etc.....	173, 834	-----	7, 940, 181	19, 647, 222	. 404	-----
Transportation.....	28, 009	-----	1, 657, 019	2, 762, 671	. 600	-----
Not elsewhere classified.....	56, 945	-----	2, 879, 261	6, 263, 907	. 460	-----

¹ Unless otherwise noted data are for the month ending on the 15th.² Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.³ The data for the Bureau of Entomology and Plant Quarantine, under Plant, crop, and livestock conservation and the Bureau of Forest Service, under Forestry, are for the calendar month.⁴ These data are for projects under construction in Puerto Rico.⁵ Under the jurisdiction of the Bureau of Public Roads.⁶ Includes data for 69,997 employees working on non-Federal projects and 10,544 employees working on low-cost housing projects. These data are included in separate tables covering projects under the jurisdiction of P. W. A.⁷ Data are for the calendar month.⁸ Data on a monthly basis are not available.⁹ Exclusive of buildings.

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

TABLE 14.—Employment and Pay Rolls on National Youth Administration Projects Financed by The Works Program, November 1937¹

[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.....	382, 558	\$3, 977, 529	12, 072, 797	\$0. 329	-----
Work projects.....	125, 922	2, 225, 961	5, 967, 549	. 373	(²)
Student Aid.....	256, 636	1, 751, 568	6, 105, 248	. 287	(³)

¹ These data are for the calendar month.

² Data 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 November 1937, inclusive, are given in table 15.

TABLE 15.—Employment and Pay Rolls, July 1935 to November 1937, Inclusive, on Projects Financed by The Works Program¹

[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 November 1937, inclusive ³	-----	\$411, 584, 272	868, 574, 388	\$0. 474	\$257, 995, 187
July to December 1935.....	-----	34, 813, 554	77, 558, 683	. 449	34, 358, 011
January to December 1936.....	-----	234, 065, 335	515, 733, 359	. 454	147, 745, 408
1937					
January.....	328, 867	15, 652, 964	32, 064, 351	. 488	7, 595, 246
February.....	287, 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, 929, 085
September.....	193, 114	11, 500, 978	20, 583, 498	. 559	5, 566, 224
October ⁴	192, 631	11, 452, 256	20, 335, 431	. 563	6, 261, 009
November.....	184, 654	10, 857, 382	19, 511, 587	. 556	5, 193, 777

See footnotes at end of table.

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

[Subject to revision]

Month and year	Maximum number employed	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
P. W. A. projects financed from E. R. A. A. 1935, 1936, and 1937 funds ¹					
July 1935 to November 1937, inclusive.....	-----	\$226,848,393	291,654,784	\$0.778	\$416,014,131
July to December 1935.....	-----	1,132,784	1,718,758	.659	2,095,506
January to December 1936.....	-----	123,396,077	163,682,866	.754	229,999,173
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
October.....	101,864	8,252,933	10,100,289	.817	15,681,287
November.....	80,541	6,814,004	8,109,553	.840	11,445,172
Projects operated by Works Progress Administration ⁴					
July 1935 to November 1937, inclusive.....	-----	\$2,934,051,974	6,136,953,890	\$0.478	⁷ \$909,226,012
July to December 1935.....	-----	238,018,075	570,184,607	.417	-----
January to December 1936.....	-----	1,592,942,964	3,432,621,686	.464	-----
1937					
January.....	2,243,545	115,065,444	223,245,896	.515	-----
February.....	2,255,067	116,256,506	230,853,339	.504	-----
March.....	2,216,499	117,124,860	230,166,494	.509	-----
April.....	2,201,404	114,004,768	225,291,463	.506	-----
May.....	2,133,472	112,382,869	217,780,857	.516	-----
June.....	2,020,218	106,975,172	205,215,318	.521	-----
July.....	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	-----
October.....	1,527,604	81,486,784	153,731,640	.530	-----
November.....	1,566,697	82,714,339	157,792,544	.524	-----

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 and P. W. A. projects by each contractor and Government agency doing force-account work.

³ Since, in November 1937, some reports were changed to a calendar-month basis, the total includes some data (\$525,799 pay rolls and 1,260,029 man-hours) for the period Oct. 16 through Oct. 31, 1937, which are not shown in the monthly figures.

⁴ Revised.

⁵ These data are included in tables covering projects under the jurisdiction of the Public Works Administration. The data for November include 69,997 employees working on non-Federal projects and 10,544 employees working on low-cost housing projects.

⁶ These data are for a calendar month and exclude both work projects and Student Aid of the National Youth Administration, which appear in a separate table.

⁷ Data on a monthly basis are not available. Includes rentals and services and some sponsors' contributions.

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

TABLE 16.—Employment and Pay Rolls from Beginning of Program Through November 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 November 1937, inclusive.....	-----	\$59,081,014	156,558,038	\$0.377	\$4,987,203
January to December 1936.....	-----	28,883,589	75,827,799	.381	-----
1937					
January.....	184,807	3,087,288	8,220,880	.376	-----
February.....	189,298	3,244,612	8,745,281	.371	-----
March.....	191,583	3,225,694	8,727,263	.370	-----
April.....	192,132	3,190,767	8,679,905	.368	-----
May.....	184,556	3,106,114	8,361,816	.371	-----
June.....	172,816	2,920,141	7,794,377	.375	-----
July.....	149,836	2,491,265	6,567,200	.379	-----
August.....	133,111	2,347,639	6,109,319	.384	-----
September.....	127,219	2,192,605	5,832,949	.376	-----
October ²	122,827	2,165,339	5,723,700	.378	-----
November.....	125,922	2,225,961	5,967,549	.373	-----
Student Aid					
September 1935 to November 1937, inclusive.....	-----	\$54,176,085	180,360,246	\$0.300	(⁴)
September to December 1935.....	-----	6,363,503	19,612,976	.324	-----
January to December 1936.....	-----	25,888,559	85,424,616	.303	-----
1937					
January.....	417,064	2,967,461	10,214,889	.291	-----
February.....	427,396	3,227,243	11,136,339	.290	-----
March.....	440,382	3,315,595	11,452,356	.290	-----
April.....	440,823	3,339,376	11,574,122	.289	-----
May.....	424,117	3,641,529	12,453,598	.292	-----
June.....	249,175	1,992,288	6,441,372	.309	-----
July.....	-----	-----	-----	-----	-----
August.....	35	141	730	.193	-----
September.....	30,879	139,188	555,283	.251	-----
October ³	237,307	1,549,634	5,388,717	.288	-----
November.....	256,636	1,751,568	6,105,248	.287	-----

¹ 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 Revised.

⁴ No expenditures for materials on this type of project.

CIVILIAN CONSERVATION CORPS

Statistics concerning employment and pay rolls in the Civilian Conservation Corps in October and November 1937 are presented in table 17. The Civilian Conservation Corps is usually regarded as a part of The Works Program, although it is now financed by a separate appropriation.

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

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	November	October	November	October
All groups.....	350,714	363,256	\$16,335,299	\$15,622,911
Enrolled personnel ²	302,207	312,273	9,495,196	8,510,543
Reserve officers.....	5,751	6,224	1,522,980	1,608,557
Nurses ³	278	257	28,589	27,319
Educational advisers ³	1,660	1,723	283,454	285,765
Supervisory and technical ³	40,818	42,779	5,005,080	5,190,727

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

² November data include 3,984 enrollees and pay roll of \$88,197; October, 3,199 enrollees and pay roll of \$70,609 outside continental United States.

³ Included in executive service, tables 9 and 10.

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

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

TABLE 18.—Employment and Pay Rolls in the Civilian Conservation Corps, by Months, November 1936 Through November 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>		
November.....	389,122	\$18,232,391	May.....	348,905	\$16,719,019
December.....	374,791	\$17,735,865	June.....	323,626	16,085,832
<i>1937</i>			July.....	348,779	16,851,511
January.....	407,723	18,650,537	August.....	327,361	16,380,024
February.....	394,521	18,314,594	September.....	289,167	14,950,554
March.....	307,337	15,770,090	October.....	363,256	15,622,911
April.....	369,309	17,502,905	November.....	350,714	16,335,299

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 November are presented in table 19, by type of project.

TABLE 19.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, November 1937¹

[Subject to revision]

Type of project	Number of wage earners ²	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects.....	4, 421	\$602, 221	702, 485	\$0. 857	\$3, 197, 856
Building construction ³	416	34, 002	37, 853	.898	21, 206
Water and sewerage.....	3, 916	560, 643	653, 351	.858	3, 175, 379
Miscellaneous.....	89	7, 576	11, 281	.672	1, 271

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 167 employees; pay-roll disbursements of \$11,824; 10,205 man-hours worked; and material orders placed during the month amounting to \$10,275 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 November 1936 to November 1937, inclusive, is given in table 20.

TABLE 20.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, November 1936 Through November 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>					
November.....	11, 062	\$1, 271, 583	1, 736, 251	\$0. 732	\$3, 218, 674
December.....	10, 355	1, 237, 007	1, 697, 935	.729	1, 488, 306
<i>1937</i>					
January.....	9, 934	1, 117, 933	1, 521, 162	.735	2, 538, 060
February.....	9, 194	1, 071, 267	1, 441, 322	.743	1, 238, 932
March.....	8, 873	1, 060, 411	1, 371, 966	.773	1, 268, 724
April.....	8, 671	1, 106, 357	1, 385, 854	.798	1, 071, 983
May.....	7, 346	950, 924	1, 174, 266	.810	942, 696
June.....	5, 596	766, 705	898, 038	.854	927, 929
July.....	4, 880	654, 167	759, 161	.862	676, 968
August.....	4, 789	660, 987	769, 236	.859	1, 673, 752
September.....	4, 056	541, 264	634, 777	.853	789, 251
October.....	4, 261	558, 419	656, 890	.850	910, 473
November.....	4, 421	602, 221	702, 485	.857	3, 197, 856

¹ Includes projects financed by the 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 November are given in table 21, by type of project.

TABLE 21.—*Employment on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, November 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.....	\$ 211, 004	199, 358	\$20, 303, 903	28, 858, 259	\$0. 704	\$23, 858, 860
Building construction:						
Nonresidential.....	21, 447	17, 476	1, 908, 530	2, 062, 136	. 926	2, 921, 901
Residential.....	89	72	8, 744	9, 899	. 833	15, 665
Electrification:						
Rural Electrification Administration projects ³	6, 693	5, 494	431, 097	790, 186	. 546	2, 453, 927
Other than R. E. A. projects.....	116	87	6, 385	10, 901	. 586	11, 727
Forestry.....	315	309	14, 905	35, 438	. 421	5, 336
Grade-crossing elimination:						
Underpasses.....	9	7	740	728	1. 016	2, 149
Heavy engineering.....	47	37	3, 863	4, 119	. 938	2, 907
Naval vessels.....	42, 111	41, 131	5, 880, 539	6, 719, 738	. 875	4, 756, 374
Public roads ⁴	(9)	79, 530	6, 121, 432	10, 474, 650	. 584	7, 896, 647
Reclamation.....	12, 987	12, 561	1, 555, 541	1, 934, 734	. 804	1, 153, 233
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	31, 224	27, 583	2, 823, 586	4, 586, 264	. 616	2, 584, 576
Locks and dams.....	10, 129	9, 362	1, 117, 940	1, 543, 336	. 724	1, 480, 583
Ship construction, other than naval vessels.....	44	32	5, 928	4, 942	1. 200	0
Streets and roads.....	3, 771	3, 430	246, 006	451, 558	. 545	244, 051
Water and sewerage.....	275	225	24, 763	28, 126	. 880	57, 577
Miscellaneous.....	2, 217	2, 022	153, 901	201, 504	. 764	272, 207

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 Financed by Rural Electrification Administration loans.

⁵ Under the jurisdiction of the Bureau of Public Roads.

⁶ Not available; weekly average included in total for all projects.

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

TABLE 22.—Employment on Construction Projects Financed From Regular Federal Appropriations, November 1936 Through November 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>					
November.....	171,555	\$15,529,018	22,889,149	\$0.678	\$10,764,581
December.....	152,499	14,290,708	20,311,195	.704	14,321,802
<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
October.....	218,347	20,911,266	29,940,767	.698	24,400,381
November.....	211,004	20,303,903	28,858,259	.704	23,858,860

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

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

STATE-ROADS PROJECTS

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

TABLE 23.—Employment on Construction and Maintenance of State Roads, November 1936 Through November 1937¹

[Subject to revision]

Month	Number of employees working on ² —			Total pay roll
	New roads	Maintenance	Total	
<i>1936</i>				
November.....	27,988	153,688	181,676	\$11,330,509
December.....	21,394	138,540	159,934	10,000,371
<i>1937</i>				
January.....	15,622	117,576	133,198	8,387,864
February.....	11,706	120,786	132,492	8,560,561
March.....	11,802	119,046	130,848	8,333,600
April.....	13,164	124,761	137,925	9,108,030
May.....	17,241	159,167	176,408	10,850,394
June.....	19,382	148,392	167,774	11,069,510
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
October.....	27,280	160,045	187,325	12,134,860
November.....	29,491	163,182	192,673	12,776,701

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.