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# EMPLOYMENT AND PAY ROLLS

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# *Employment and Pay Rolls*

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## SUMMARY OF REPORTS FOR JANUARY 1938

NET decreases in employment and pay rolls were shown between December and January in all manufacturing industries combined and in the 16 nonmanufacturing industries surveyed monthly by the United States Bureau of Labor Statistics. The estimated decline in number of workers in these industries was 1,280,000, and in weekly wage disbursements, \$35,100,000.

Approximately 1,300,000 fewer workers were employed in these industries in January 1938 than in the corresponding month of 1937 and the weekly wage bill was nearly \$35,400,000 lower.

There was a decrease between December and January of 46,786 in the number of workers on class I railroads (exclusive of executives, officials, and staff assistants), according to a preliminary tabulation by the Interstate Commerce Commission. This tabulation showed 947,374 workers employed in January.

Employment in the judicial and military services of the Federal Government was greater in January than in the preceding month, while decreases occurred in the executive and legislative services. The growing unemployment in industry necessitated increases in the number of workers engaged on projects operated by W. P. A. Increases in employment also occurred on work projects of the National Youth Administration and Student Aid. Decreases occurred in the number of wage earners employed on Federal projects under The Works Program, P. W. A. construction projects, projects financed by the Reconstruction Finance Corporation, projects financed from regular Federal appropriations, and State road projects. There was a decrease in the number of workers in the Civilian Conservation Corps.

### *Industrial and Business Employment*

Almost all major lines of industry reporting to the Bureau showed some reduction in the number of their employees and the amount of their weekly pay rolls from December to January. In most cases the reductions were greater than seasonal.

Manufacturing industries as a whole showed an estimated decline over the month interval of 535,000 wage earners (7.2 percent) with a

shrinkage of \$18,900,000 (11.5 percent) in weekly wage disbursements. Although there are normally fairly marked declines in factory employment and pay rolls in January, the current declines are much more pronounced than usual for the season and have been exceeded in January in only 1 year (1921) during the past 18 years for which data are available.

Compared with January 1937, factory employment showed a decrease of 14.8 percent (1,195,000 workers) and weekly factory pay rolls, a decrease of 21.1 percent (38,900,000).

Of the 89 manufacturing industries for which index numbers are computed, 84 had fewer employees in January than a month earlier and 83 had lower pay rolls. The reductions were much more pronounced in the durable-goods group of industries than in the non-durable-goods group. For the former group, the employment decline was 10.9 percent and the pay-roll decrease, 17.1 percent. The non-durable-goods group showed reductions of 3.6 percent in employment and 5.0 percent in pay rolls.

Among the durable-goods industries which reported the largest employment declines over the month interval were automobiles (23.2 percent or 105,100 workers), blast furnaces, steel works, and rolling mills (9.2 percent or 37,000 workers), foundries and machine shops (7.9 percent or 31,000 workers), steam railroad repair shops (10.7 percent or 24,700 workers), electrical machinery, apparatus, and supplies (8.4 percent or 19,600 workers), sawmills (7.2 percent or 14,800 workers), and furniture (8.1 percent or 10,400 workers). Among the non-durable-goods industries having large reductions in force were cotton goods (2.7 percent or 10,600 workers), knit goods (4.4 percent or 8,300 workers), silk and rayon goods (8.6 percent or 6,700 workers), and newspapers (3.3 percent or 4,100 workers).

The five manufacturing industries which showed employment gains over the month were millinery (13.6 percent), boots and shoes (6.5 percent), slaughtering and meat packing (2.1 percent), fertilizers (1.2 percent), and chewing and smoking tobacco (0.6 percent). All of these increases were seasonal in character except the one for slaughtering and meat packing.

All but 1 of the 16 nonmanufacturing industries surveyed showed decreases in employment and pay rolls between December and January. The exception was insurance, which showed gains of 1.0 percent in employment and 0.8 percent in pay rolls.

The most pronounced employment decline in the nonmanufacturing group was in retail trade, where a recession of 16.3 percent (642,000 employees) was due largely to the release of temporary workers who had been employed for the holiday trade. Weekly pay rolls in this industry fell 13.1 percent or nearly \$9,700,000. While employment declines occurred in all of the 39 lines of retail trade surveyed, with

the exception of farmers' supply stores and firms dealing in wood, coal, and ice, the most pronounced loss (37.3 percent) was the post-holiday reduction in force in the general merchandising group, which consists of department, variety, and general merchandising stores and mail-order houses. Other groups of retail trade establishments showing marked recessions following the Christmas expansion were jewelry (20.5 percent), apparel (19.4 percent), and furniture (12.2 percent). Seasonal recessions, slightly more pronounced than usual, occurred in lumber and building materials (6.2 percent) and hardware (6.8 percent). Automotive establishments showed an employment loss of 4.3 percent, drug stores 2.4 percent, and food stores 2.5 percent.

Employment in wholesale trade establishments decreased 2.5 percent. A loss in employment in wholesale trade between December and January has occurred in each of the preceding 9 years for which the Bureau has been collecting these data, but the decrease in the present year is slightly more than any previously reported for the same interval. The losses were general among the various lines of wholesale trade surveyed. The most pronounced percentage declines in employment occurred in general merchandise (10.9 percent) and jewelry and optical goods (18.9 percent). In most other lines of trade the declines were not large. For the groups of wholesale dealers employing large numbers of workers, employment recessions over the month interval were as follows: Food products (2.4 percent), groceries and food specialties (0.9 percent), dry goods and apparel (3.7 percent), machinery, equipment and supplies (1.4 percent), automotive (1.5 percent), lumber and building materials (5.1 percent), electrical goods (2.8 percent), chemicals and drugs (1.3 percent), metals and minerals (1.2 percent), hardware (1.9 percent), paper and paper products (2.0 percent), and furniture and housefurnishings (4.1 percent). Employment declines were also reported by manufacturers' sales branches (2.6 percent), assemblers and country buyers (4.3 percent), and agents and brokers (1.1 percent).

Private building construction firms reported seasonal declines of 14.2 percent in employment and 15.2 percent in pay rolls, which were somewhat larger than the January recessions of the preceding 5 years. Employment in the quarrying and nonmetallic mining industry fell 11.7 percent (largely seasonal) and in metalliferous mining, 4.4 percent. Wage-rate decreases in the latter industry accounted in part for its 9.5-percent pay-roll decline. The employment decreases in the remaining nonmanufacturing industries ranged from 0.3 percent to 3.0 percent and were largely due to seasonal influences.

The 16 nonmanufacturing industries combined had approximately 749,000 fewer employees on their pay rolls in January than in December and paid out approximately \$16,200,000 less in weekly wages.

According to a preliminary tabulation by the Interstate Commerce Commission there were 947,374 employees on class I railroads, exclusive of executives, officials, and staff assistants. This was 4.7 percent or 46,786 workers lower than the December figure. January pay-roll totals were not available when this report was prepared. For December, however, the wage disbursements were \$151,025,582, a decrease of 2.5 percent or \$3,831,183 from November.

*Hours and earnings.*—According to reports covering both full- and part-time employees, factory wage earners worked an average of 33.2 hours per week in January, which was 3.7 percent lower than the December figure. Average hourly earnings for these workers were 66.3 cents, a decrease of 0.5 percent compared with December, and average weekly earnings fell 4.6 percent to \$21.88.

Of the 14 nonmanufacturing industries for which man-hour data are available, only 2 showed gains in average hours worked per week. These were telephone and telegraph (1.1 percent), and year-round hotels (0.2 percent). Increases in average hourly earnings were reported for 8 of the 14 industries and only 1 industry, retail trade, showed higher average weekly earnings (3.9 percent).

Previous to January 1938, the wording of the definition on the schedules for public utilities, wholesale and retail trade, hotels, and brokerage and insurance firms called for the inclusion of higher-salaried employees such as corporation officers, executives, and others whose duties are mainly supervisory. These employees have, for the most part, always been excluded from employment reports for other industries, and beginning with this month it was requested that they be omitted also for the industries named above. For this reason, the average hours worked per week, average hourly earnings, and average weekly earnings which have been previously published for these industries are not comparable with the January figures. Comparable December data, however, were secured and used in computing the percentage changes and indexes presented in table 1, following.

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

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

Industry	Employment			Pay roll			Average weekly earnings		
	Index, January 1938	Percentage change from—		Index, January 1938	Percentage change from—		Average in January 1938	Percentage change from—	
		December 1937	January 1937		December 1937	January 1937		December 1937	January 1937
All manufacturing industries combined <sup>1</sup> .....	(1923-25=100) 82.2	-7.2	-14.8	(1923-25=100) 71.6	-11.5	-21.1	21.88	-4.6	-7.3
Class I steam railroads <sup>2</sup> .....	53.7 (1929=100)	-4.8	-10.8	( <sup>3</sup> ) (1929=100)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Coal mining:									
Anthracite <sup>4</sup> .....	59.6	-3.0	-8.7	46.5	-9.3	+3.3	25.27	-6.5	+9.9
Bituminous <sup>4</sup> .....	96.8	-2.6	-7.3	70.2	-26.1	-24.9	19.26	-24.1	-19.0
Metalliferous mining.....	67.3	-4.4	+8	59.0	-9.5	+1.0	27.80	-5.3	+2
Quarrying and nonmetallic mining.....	33.8	-11.7	-15.2	28.2	-15.6	-18.7	18.66	-4.4	-4.1
Crude-petroleum producing.....	75.6	-1.2	+3.9	68.0	-2.5	+11.1	33.70	-1.3	+7.0
Public utilities:									
Telephone and telegraph.....	77.8	-3	+4.5	93.8	-9	+12.2	<sup>5</sup> 31.02	-6	+7.4
Electric light and power and manufactured gas.....	94.0	-2.2	+2.0	98.9	-3.4	+7.1	<sup>5</sup> 33.47	-1.3	+5.0
Electric-railroad and motor-bus operation and maintenance.....	72.2	-8	-3	70.9	-1.4	+4.3	<sup>5</sup> 32.11	-6	+4.7
Trade:									
Wholesale.....	90.9	-2.5	+2	75.3	-3.1	+3.8	<sup>5</sup> 28.95	-6	+3.6
Retail.....	84.1	-16.3	-1.5	70.1	-13.1	+3.1	<sup>5</sup> 21.43	+3.9	+4.8
General merchandising.....	91.5	-37.3	-3.7	84.6	-31.4	+9	<sup>5</sup> 18.37	+9.4	+4.8
Other than general merchandising.....	82.1	-7.2	-1.0	67.1	-6.5	+3.7	<sup>5</sup> 23.92	+8	+4.8
Hotels (year-round) <sup>4</sup> <sup>6</sup> .....	94.3	-6	+1.5	81.5	-1.3	+7.0	<sup>5</sup> 14.90	-7	+5.4
Laundries <sup>4</sup> .....	96.7	-3	-1.6	80.1	-1.2	+2.4	17.04	-9	+4.1
Dyeing and cleaning <sup>4</sup> .....	96.7	-2.5	-2.1	65.2	-4.8	+9	18.66	-2.4	+3.0
Brokerage.....	( <sup>3</sup> )	-1.9	-10.6	( <sup>3</sup> )	-3.4	-12.6	<sup>5</sup> 36.23	-1.5	-2.2
Insurance.....	( <sup>3</sup> )	+1.0	+2.4	( <sup>3</sup> )	+8	+3.8	<sup>5</sup> 37.38	-2	+1.4
Building construction.....	( <sup>3</sup> )	-14.2	-16.5	( <sup>3</sup> )	-15.2	-12.3	28.36	-1.2	+5.1

<sup>1</sup> Indexes adjusted to 1933 Census of Manufactures.

<sup>2</sup> Preliminary. Source: Interstate Commerce Commission.

<sup>3</sup> Not available.

<sup>4</sup> Indexes adjusted to 1935 census and not comparable with previously published indexes. Comparable series presented in table 7.

<sup>5</sup> Average weekly earnings not strictly comparable with previously published figures as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory. Comparable figures for December 1937 appear in table 4.

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

### Public Employment

In the period from mid-December to mid-January, approximately 97,000 wage earners were working on P. W. A. construction projects, a decrease of 8,000 as compared with the preceding month. Of the total number of employees 29,000 were working on Federal and non-Federal N. I. R. A. projects and 68,000 on projects financed from E. R. A. A. 1935, 1936, and 1937 funds. Pay-roll disbursements, on all P. W. A. projects amounted to \$7,837,000.

There were 154,000 workers employed on construction projects financed from regular Federal appropriations. Compared with the period ending in mid-December this represents a decrease of 27,000.



The decrease was caused largely by seasonal curtailment in road building. Employment decreases occurred on nonresidential building construction projects, Rural Electrification Administration projects, public roads, reclamation, river, harbor, and flood control, streets and roads, water and sewerage, and miscellaneous projects. Small increases in employment were reported for all other types of projects. Pay-roll disbursements for January totaled \$15,706,000, a decline of \$1,457,000 compared with the preceding month.

For the period from mid-December to mid-January about 3,700 workers were at work on construction projects financed by the Reconstruction Finance Corporation. Decreases in employment occurred on building construction and water and sewerage projects, while an increase was registered in the number working on miscellaneous projects. Pay-roll disbursements amounted to \$549,000.

Nearly 227,000 more workers were engaged at the site of projects under The Works Program in January than in December. The necessity for this increase was the growing unemployment in industry. Employment on projects of The Works Program during January totaled 2,507,000. Of this number 158,000 were working on Federal projects, 1,898,000 on projects operated by the Works Progress Administration, and 451,000 on work projects of the National Youth Administration and on Student Aid. Total pay rolls for The Works Program were \$105,477,000, an increase of \$6,497,000 over December.

Increases in employment in the regular services of the Federal Government were reported in the judicial and military services, while employment in the executive and legislative services decreased. Of the 811,000 employees in the executive service in January, 113,000 were working in the District of Columbia and 698,000 outside the District. Employees paid from regular appropriations and emergency funds, excluding force-account employees,<sup>1</sup> were 92.1 percent of the total number of employees in the executive service. Day labor hired by the Federal Government for construction work was 7.9 percent. The most marked increase in employment occurred in the Social Security Board. Among the departments reporting decreases were the Post Office Department, the War Department, and the Department of Agriculture.

The number of workers employed in the Civilian Conservation Corps was 335,000, which was approximately 3,000 fewer than in December. Decreases in employment were registered for all classes of workers with the exception of nurses. Virtually no change occurred in the number of nurses employed. Of the total number employed in camps during January 290,000 were enrolled workers, 5,000 reserve officers, 300 nurses, 1,600 educational advisers, and 38,000 supervisory

<sup>1</sup> Day labor hired by the Federal Government for construction work.

and technical employees. The monthly pay roll for all classes of workers was \$15,444,000.

Approximately 142,000 workers were engaged on State road construction projects during the month ending January 15, a falling-off of 28,000 compared with the mid-December period. Of the total number employed, 15,000, or 10.8 percent, were working on new roads and 127,000, or 89.2 percent, on maintenance and repairs to existing roads. January pay-roll disbursements for both types of work totaled \$9,577,000.

A summary of Federal employment and pay-roll statistics for December 1937 and January 1938 is given in table 2.

TABLE 2.—*Summary of Federal Employment and Pay Rolls, January 1938*<sup>1</sup>  
[Preliminary figures]

Class	Employment		Per-centage change	Pay rolls		Per-centage change
	January 1938	December 1937		January 1938	December 1937	
Federal services:						
Executive <sup>2</sup> .....	811,481	<sup>3</sup> 890,603	-8.9	\$122,861,647	<sup>3</sup> \$137,345,103	-10.5
Judicial.....	2,034	2,008	+1.3	518,126	514,920	+.6
Legislative.....	5,183	5,188	-.1	1,201,451	1,209,723	-.7
Military.....	328,643	326,667	+.6	25,183,692	25,856,294	-2.2
Construction projects:						
Financed by P. W. A. <sup>4</sup> .....	96,725	104,718	-7.6	7,836,628	8,989,667	-12.8
Financed by R. F. C. <sup>5</sup> .....	3,739	3,977	-6.0	549,058	554,040	-.9
Financed by regular Federal appropriations.....	153,864	180,864	-14.9	15,705,838	17,162,379	-8.5
Federal projects under The Works Program.....	157,827	186,133	-15.2	7,973,494	10,173,186	-21.6
Projects operated by W. P. A. ....	1,898,162	1,668,085	+13.8	92,960,662	84,570,148	+9.9
National Youth Administration:						
Work projects.....	144,797	137,929	+5.0	2,549,914	2,397,423	+6.4
Student Aid.....	306,341	288,131	+6.3	1,992,810	1,839,242	+8.3
Civilian Conservation Corps.....	335,244	338,217	-.9	15,444,234	<sup>3</sup> 15,824,325	-2.4

<sup>1</sup> Includes data on projects financed wholly or partially from Federal funds.

<sup>2</sup> Includes force-account and supervisory and technical employees shown under other classifications to the extent of 104,180 employees and pay-roll disbursements of \$12,690,435 for January 1938 and 109,949 employees and pay-roll disbursements of \$13,409,327 for December.

<sup>3</sup> Revised.

<sup>4</sup> 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 67,967 wage earners and \$5,176,438 pay roll for January 1938; 70,228 wage earners and \$5,685,040 pay roll for December 1937 covering P. W. A. projects financed from E. R. A. A. 1935, 1936, and 1937 funds.

<sup>5</sup> Includes 113 employees and pay-roll disbursements of \$9,991 for January 1938 and 113 employees and pay-roll disbursements of \$9,760 for December 1937 on projects financed by the RFC Mortgage Co.

The value of material orders placed on construction projects financed wholly or partially from Federal funds during 1937 amounted to \$864,990,000. Material orders for P. W. A. projects accounted for approximately 32 percent of this total, regular Federal appropriations for 29 percent, projects operated by W. P. A. for 28 percent, Federal construction projects under The Works Program for 9 percent, and projects of the Reconstruction Finance Corporation for 2 percent.

## DETAILED REPORTS FOR JANUARY 1938

### *Industrial and Business Employment*

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

#### EMPLOYMENT, PAY ROLLS, HOURS, AND EARNINGS

The indexes of employment and pay rolls, average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in January 1938 are shown in table 3. Percentage changes from December and January 1937 are also given.

Indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings for November 1937, December 1937, and January 1938, are presented in table 4 where available. The November and December figures may differ in some instances from those previously published because of revisions necessitated by the inclusion of late reports and other causes, which are explained in the foregoing summary, in footnotes at the end of tables 3 and 4, and in the text relating to table 7.

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, January 1938*

## MANUFACTURING

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

Industry	Employment			Pay rolls			Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index, January 1938	Percentage change from—		Index, January 1938	Percentage change from—		January 1938	Percentage change from—		January 1938	Percentage change from—		January 1938	Percentage change from—	
		December 1937	January 1937		December 1937	January 1937		December 1937	January 1937		December 1937	January 1937		December 1937	January 1937
<b>All manufacturing industries.....</b>	<b>82.2</b>	<b>-7.2</b>	<b>-14.8</b>	<b>71.6</b>	<b>-11.5</b>	<b>-21.1</b>	<b>\$21.88</b>	<b>-4.6</b>	<b>-7.3</b>	<b>33.2</b>	<b>-3.7</b>	<b>-16.5</b>	<i>Cents</i> <b>66.3</b>	<b>-0.5</b>	<b>+11.3</b>
Durable goods.....	75.1	-10.9	-16.9	63.8	-17.1	-26.3	23.26	-6.9	-11.3	32.3	-6.3	-20.7	72.7	-7	+12.9
Nondurable goods.....	89.9	-3.6	-12.7	81.5	-5.0	-15.1	20.47	-1.4	-2.7	34.0	-1.1	-12.1	60.2	+5	+9.9
<i>Durable goods</i>															
<b>Iron and steel and their products, not including machinery.....</b>	<b>81.2</b>	<b>-9.8</b>	<b>-18.8</b>	<b>59.2</b>	<b>-17.7</b>	<b>-40.7</b>	<b>20.43</b>	<b>-8.8</b>	<b>-27.0</b>	<b>27.7</b>	<b>-7.8</b>	<b>-33.9</b>	<b>75.5</b>	<b>-8</b>	<b>+13.2</b>
Blast furnaces, steel works, and rolling mills.....	90.5	-9.2	-18.9	61.7	-18.4	-46.8	20.17	-10.1	-34.3	24.9	-8.8	-41.6	81.8	-1.2	+12.9
Bolts, nuts, washers, and rivets.....	63.2	-14.0	-27.2	49.1	-25.7	-49.8	17.62	-13.6	-30.9	25.3	-14.9	-40.1	69.7	+1.3	+15.2
Cast-iron pipe.....	55.3	-8.1	-18.5	36.0	-18.8	-29.0	17.26	-11.6	-12.9	29.3	-13.4	-24.6	58.2	+1.0	+15.2
Cutlery (not including silver and plated cutlery) and edge tools.....	77.7	-7.3	-10.8	63.0	-15.6	-21.5	20.24	-9.0	-12.1	33.6	-10.3	-21.3	62.5	+1.4	+12.9
Forgings, iron and steel.....	52.3	-13.7	-24.4	36.3	-25.8	-44.1	21.22	-13.9	-26.0	28.6	-15.5	-32.3	74.7	+1.9	+9.8
Hardware.....	70.8	-15.7	-11.8	56.3	-30.2	-31.0	17.94	-17.2	-21.8	27.4	-15.1	-34.3	65.1	-2.8	+18.8
Plumbers' supplies.....	78.9	-1.1	-13.0	56.0	+1.3	-18.4	21.45	+2.4	-6.3	32.3	+4.1	-17.9	66.5	-1.6	+14.6
Steam and hot-water heating apparatus and steam fittings.....	56.6	-8.5	-23.2	43.4	-11.5	-37.1	22.21	-3.3	-18.1	31.1	-5.4	-27.3	70.9	+1.9	+11.6
Stoves.....	63.8	-17.4	-34.1	43.9	-21.6	-42.8	20.21	-5.1	-13.3	31.8	-4.2	-20.1	65.0	-8	+9.2
Structural and ornamental metalwork.....	63.8	-8.2	-10.0	58.5	-14.2	-7.6	25.74	-6.5	+2.6	35.8	-6.7	-8.3	72.1	+2	+13.5
Tin cans and other tinware.....	85.7	-6.1	-10.5	88.1	-6.7	-6.7	22.93	-6	+4.2	36.7	-2.2	-7.4	63.2	+1.7	+13.9
Tools (not including edge tools, machine tools, files, and saws).....	81.5	-7.0	-16.4	75.9	-8.0	-26.2	21.60	-1.1	-11.8	34.7	-1.1	-22.3	62.0	+1	+13.3
Wirework.....	135.1	-16.2	-24.5	108.4	-20.3	-32.7	20.36	-4.9	-10.8	30.7	-2.6	-25.3	66.4	-2.4	+19.0

See footnotes at end of table.

TABLE 3.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, January 1938—Continued*

## MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings			
	Index, January 1938	Percentage change from—		Index, January 1938	Percentage change from—		January 1938	Percentage change from—		January 1938	Percentage change from—		January 1938	Percentage change from—		
		December 1937	January 1937		December 1937	January 1937		December 1937	January 1937		December 1937	January 1937		December 1937	January 1937	
Durable goods—Continued																
Machinery, not including transportation equipment	104.0	-8.0	-9.5	95.5	-13.7	-14.0	\$25.52	-6.1	-5.0	34.4	-7.0	-17.9	Cents	73.2	-0.4	+14.9
Agricultural implements	138.4	-8	+24.4	172.1	-8	+30.7	27.73	0	+5.0	37.1	-2	-8.8	74.8	+3	+15.9	
Cash registers, adding machines, and calculating machines	126.8	-1.7	+2.8	128.5	-6.8	+6.4	30.71	-5.2	+3.4	37.8	-4.2	-8.5	81.6	-1.3	+12.9	
Electrical machinery, apparatus, and supplies	95.9	-8.4	-7.8	88.1	-14.4	-9.1	25.17	-6.6	-1.3	33.5	-7.6	-16.7	74.9	+8	+17.3	
Engines, turbines, tractors, and water wheels	130.4	-7.7	+4.1	128.2	-10.8	+6.5	30.15	-3.4	+2.3	36.3	-4.0	-9.5	83.2	+5	+12.5	
Foundry and machine-shop products	90.3	-7.9	-10.9	79.1	-14.9	-19.8	24.46	-7.6	-10.0	34.1	-8.0	-21.7	71.4	+2	+14.3	
Machine tools	139.2	-6.0	+3.2	131.5	-11.7	-3.9	29.01	-6.1	-6.9	39.7	-5.6	-13.2	73.2	-4	+7.2	
Radios and phonographs	97.1	-21.6	-48.1	76.2	-22.8	-47.8	20.81	-1.5	+6	32.7	-2.5	-8.3	63.8	+9	+10.9	
Textile machinery and parts	68.6	-6.8	-13.8	53.4	-15.7	-35.7	21.27	-9.6	-25.5	32.8	-8.1	-28.4	65.0	-1.7	+4.2	
Typewriters and parts	117.7	-7.4	-19.5	76.8	-28.0	-41.5	17.41	-22.3	-27.3	27.1	-22.9	-35.3	64.1	+6	+11.9	
Transportation equipment	84.3	-20.1	-25.2	68.8	-25.8	-31.9	26.23	-7.1	-8.9	29.7	-7.1	-21.5	88.7	-2	+15.4	
Aircraft	771.5	-1.2	+6.4	674.9	-3.7	+11.3	27.79	-2.5	+4.7	39.4	-2.2	-7.7	71.3	+7	+15.3	
Automobiles	86.8	-23.2	-30.7	63.8	-29.7	-41.0	25.15	-8.5	-14.8	27.4	-8.9	-27.5	91.9	+5	+17.4	
Cars, electric- and steam-railroad	44.5	-20.3	-20.1	48.9	-24.7	-16.8	26.41	-5.5	+4.1	35.4	-4.1	-7.7	74.6	-1.4	+12.8	
Locomotives	52.2	-12.3	+16.2	37.7	-29.8	+21.1	28.11	-20.0	+4.2	36.4	-16.3	-8.9	77.2	-4.5	+14.3	
Shipbuilding	99.2	-5.4	+4.9	114.2	-9.7	+17.9	31.21	-4.5	+12.3	36.1	-4.4	+1.4	84.8	-3	+7.9	
Railroad repair shops	47.6	-9.7	-22.2	47.3	-15.1	-22.7	23.87	-6.0	-6	39.4	-4.9	-5.6	72.8	-7	+5.4	
Electric railroad	63.1	-6	-5	68.4	-2.4	+6.0	30.61	-1.8	+6.6	43.5	-1.6	+(?)	69.4	+(?)	+7.0	
Steam railroad	46.4	-10.7	-24.0	45.9	-16.0	-24.8	28.52	-6.0	-1.1	39.0	-5.4	-6.3	73.1	-7	+5.4	
Nonferrous metals and their products	88.4	-10.6	-17.3	73.3	-15.3	-24.5	22.49	-5.3	-8.7	33.1	-5.5	-19.5	67.6	+2	+13.7	
Aluminum manufactures	103.9	-9.0	-12.6	96.9	-12.4	-15.5	23.11	-3.8	-3.3	33.5	-4.4	-16.9	69.1	+7	+16.5	
Brass, bronze, and copper products	89.1	-8.2	-24.8	71.4	-11.0	-36.8	22.73	-3.2	-16.0	30.8	-3.9	-28.9	73.8	+9	+18.1	
Clocks and watches and time-recording devices	99.8	-13.4	-15.7	88.8	-15.6	-18.5	20.42	-2.6	-3.4	33.6	-4.1	-16.6	60.7	+1.6	+15.8	
Jewelry	82.2	-8.6	-2.6	60.5	-14.3	-3.0	22.52	-6.3	-3	36.3	-5.8	-6.2	61.9	-9	+5.2	
Lighting equipment	69.2	-20.5	-5.6	52.7	-26.9	-24.1	19.54	-8.0	-19.5	28.8	-8.4	-29.7	67.9	-1	+14.2	
Silverware and plated ware	69.3	-9.0	-1	54.0	-20.2	-6.2	21.11	-12.3	-6.2	33.2	-11.8	-8.8	63.6	-7	+3.0	
Smelting and refining—copper, lead, and zinc	81.1	-4.9	+8	74.0	-7.7	+8.1	26.92	-2.9	+7.1	39.1	-2.8	-4.4	68.9	-1	+12.1	
Stamped and enameled ware	105.2	-14.2	-32.1	88.6	-22.7	-40.3	20.64	-9.9	-12.2	31.8	-8.8	-22.1	64.6	-1.3	+12.7	

<b>Lumber and allied products</b> .....	53.7	-7.6	-17.4	42.5	-12.2	-22.6	17.66	-5.0	-6.4	34.6	-4.6	-15.3	51.6	+2	+12.0
Furniture.....	68.5	-8.1	-20.3	49.4	-17.7	-30.9	17.16	-10.4	-13.2	31.8	-11.7	-24.0	53.8	+9	+13.4
Lumber:															
Millwork.....	44.1	-7.5	-18.1	36.5	-14.8	-22.5	18.85	-7.8	-5.4	34.0	-8.1	-20.7	55.3	-1	+18.7
Sawmills.....	39.7	-7.2	-15.1	31.5	-7.0	-15.3	17.70	+2	-3	36.5	+7	-8.3	49.3	-2	+9.6
<b>Stone, clay, and glass products</b> .....	55.1	-12.8	-11.8	43.4	-20.4	-17.6	19.97	-8.6	-6.5	31.1	-8.1	-18.6	65.1	-2	+15.0
Brick, tile, and terra cotta.....	35.3	-14.2	-22.7	24.3	-21.0	-33.1	16.53	-8.0	-13.4	31.2	-7.7	-22.4	54.1	+7	+14.1
Cement.....	50.2	-17.1	-12.1	44.4	-23.5	-11.0	22.45	-7.7	+1.1	32.8	-8.8	-10.5	68.4	+1.2	+12.3
Glass.....	87.6	-12.4	-5.6	76.2	-20.5	-9.9	20.89	-9.2	-4.5	29.8	-8.0	-18.4	70.4	-1.0	+16.9
Marble, granite, slate, and other products.....	31.9	-16.1	-12.0	23.7	-23.2	-16.8	22.26	-8.4	-5.4	32.9	-7.2	-9.6	67.9	-1.5	+4.3
Pottery.....	69.7	-5.9	-6.9	51.3	-14.2	-18.9	19.43	-8.7	-12.8	32.1	-8.2	-21.5	64.0	+4	+15.1
<i>Nondurable goods</i>															
<b>Textiles and their products</b> .....	84.6	-4.1	-21.0	65.3	-4.9	-31.0	15.31	-9	-12.6	30.2	-6	-18.6	51.1	+1	+7.8
Fabrics.....	80.6	-4.0	-21.2	64.8	-6.0	-32.5	15.02	-2.0	-14.3	30.7	-1.9	-20.5	48.9	-1	+7.9
Carpets and rugs.....	66.9	-14.6	-31.9	45.6	-16.1	-52.4	16.24	-1.8	-30.2	24.6	-3.7	-40.5	65.9	+2.3	+16.0
Cotton goods.....	86.6	-2.7	-15.7	70.3	-5.1	-29.8	12.73	-2.5	-16.8	30.2	-2.1	-22.7	42.0	-4	+8.2
Cotton small wares.....	78.8	-7.1	-26.1	67.9	-9.3	-34.9	15.96	-2.4	-11.9	33.1	-8	-16.5	48.7	-2.5	+6.1
Dyeing and finishing textiles.....	103.6	-1.6	-15.3	83.9	-3.0	-25.2	19.59	-1.4	-11.8	34.2	+4	-16.0	56.9	-1.9	+5.5
Hats, fur-felt.....	82.7	-9	-6.4	65.2	+5	-24.5	21.40	+1.4	-19.3	31.2	+1.1	-18.9	72.0	+2.1	+2.6
Knit goods.....	98.8	-4.4	-17.9	89.7	-5.7	-25.4	15.64	-1.4	-9.1	30.8	-2.3	-16.4	51.9	+1.2	+9.0
Silk and rayon goods.....	57.8	-8.6	-30.3	40.4	-16.0	-41.0	13.55	-8.1	-15.5	29.5	-7.5	-21.8	45.5	-1.2	+8.2
Woolen and worsted goods.....	59.1	-3.1	-36.0	48.9	-1.4	-41.2	18.97	+1.7	-8.1	32.0	+1.0	-17.4	59.4	+4	+11.0
Wearing apparel.....	91.7	-4.1	-20.7	63.7	-2.3	-27.7	16.13	+1.9	-8.8	28.9	+2.4	-14.3	55.8	+4	+7.8
Clothing, men's.....	83.2	-1.0	-24.3	58.2	+5.0	-33.7	16.44	+6.1	-12.6	26.7	+5.9	-22.3	62.1	(2)	+13.8
Clothing, women's.....	128.3	-2.1	-17.2	82.8	-3.7	-23.1	17.87	-1.7	-7.2	29.9	+1.2	-8.8	56.8	-1.2	+4.3
Corsets and allied garments.....	84.4	-3.6	-5.2	74.7	-6.3	-12.4	14.99	-2.8	-7.4	32.3	-3	-11.7	46.9	-6	+7.8
Men's furnishings.....	97.6	-17.8	-24.9	66.5	-26.0	-28.8	12.05	-9.9	-5.0	29.2	-8.1	-22.5	37.8	+2.3	+15.7
Millinery.....	50.1	+13.6	-9.4	34.4	+25.7	-16.8	20.02	+10.7	-8.3						
Shirts and collars.....	89.3	-15.9	-25.0	70.9	-18.8	-28.9	11.87	-3.3	-5.0	30.3	+1	-10.1	41.7	-5	+8.1
<b>Leather and its manufactures</b> .....	85.8	+4.9	-12.0	65.6	+12.3	-24.0	17.96	+7.1	-13.6	33.4	+7.2	-17.5	53.6	-1	+4.5
Boots and shoes.....	89.3	+6.5	-9.8	63.1	+18.7	-23.3	16.94	+11.4	-15.0	32.9	+9.2	-18.5	51.4	+3	+3.8
Leather.....	76.6	-2.6	-21.0	76.9	-2.0	-24.9	22.43	+5	-5.0	35.4	+5	-12.4	63.8	-1	+8.7
<b>Food and kindred products</b> .....	102.7	-4.3	-2.4	106.4	-3.6	+5.9	25.22	+7	+8.5	40.4	-8	-3.1	61.8	+1.4	+10.8
Baking.....	129.6	-1.5	-7	125.0	-1.8	+5.5	25.18	-4	+6.3	41.5	-1.5	-1.3	61.2	+1.1	+8.0
Beverages.....	186.2	-6	+2.2	199.8	-1.1	+6.4	31.33	-5	+4.2	37.7	-2	-1.7	83.8	-4	+5.8
Butter.....	80.5	-1.3	+1	65.7	-1	+5.3	22.54	+1.3							
Canning and preserving.....	81.9	-8.1	-9.4	79.4	-8.4	-8.1	16.12	-3	+1.4	34.3	+2.2	-10.8	48.3	-2.5	+14.3
Confectionery.....	76.4	-12.4	-4.4	73.8	-14.9	-3.1	17.58	-2.9	+1.3	36.8	-7.1	-8.4	48.0	+4.1	+11.5
Flour.....	73.7	-1.8	-1.1	73.3	-1.0	+2.7	25.86	+9	+3.9	43.4	+1.3	-4.4	58.6	-9	+7.3
Ice cream.....	61.3	-3.8	+4	57.8	-4.4	+3.6	29.24	-6	+3.3	45.4	-1.9	-8	62.6	+1	+3.3
Slaughtering and meat packing.....	92.8	+2.1	-3.7	108.3	+3.5	+13.1	29.30	+1.3	+17.4	42.7	+1.2	+1.6	68.8	+2	+15.7
Sugar, beet.....	33.9	-76.8	-10.9	40.8	-70.0	-2.7	28.37	+29.2	+9.1	38.8	-4.2	-6	76.0	+36.9	+12.4
Sugar refining, cane.....	65.6	-12.5	+6.4	58.9	-18.6	+15.8	23.72	-6.9	+8.9	38.1	-14.3	-7.3	59.6	+7.1	+15.2
<b>Tobacco manufactures</b> .....	51.9	-14.6	-9.1	44.6	-19.9	-5.3	15.85	-6.2	+4.1	33.3	-10.5	-4.7	47.6	+4.5	+9.8
Chewing and smoking tobacco and snuff.....	57.2	+6	+1	66.6	-2.0	+4.4	17.31	-2.5	+4.2	34.7	-2.6	-5.7	50.3	(3)	+11.0
Cigars and cigarettes.....	51.1	-16.6	-10.4	41.9	-22.7	-7.1	15.48	-7.4	+3.9	33.1	-11.5	-4.7	47.2	+4.9	-7

See footnotes at end of table.

TABLE 3.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, January 1938—Continued

## MANUFACTURING—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index, January 1938	Percentage change from—		Index, January 1938	Percentage change from—		January 1938	Percentage change from—		January 1938	Percentage change from—		January 1938	Percentage change from—	
		December 1937	January 1937		December 1937	January 1937		December 1937	January 1937		December 1937	January 1937		December 1937	January 1937
Nondurable goods—Continued															
Paper and printing	101.0	-3.0	-3.2	95.6	-5.2	-3.1	\$26.96	-2.2	+ .01	36.8	-2.0	-8.6	Cents 76.2	-0.1	+8.0
Boxes, paper.	89.3	-7.8	-10.8	83.1	-10.4	-15.2	19.25	-2.9	-4.9	35.2	-5.4	-14.7	55.1	+2.7	+11.3
Paper and pulp.	108.2	-1.2	-4.9	98.0	-9	-10.9	22.41	+3	-6.3	35.9	+1.6	-15.4	62.4	-1.4	+10.8
Printing and publishing:															
Book and job.	95.8	-2.2	-3	91.0	-5.1	-5	29.95	-2.9	-2	38.4	-3.5	-4.3	79.3	+9	+4.5
Newspapers and periodicals.	103.1	-3.3	-3	100.8	-7.1	+3.7	36.75	-3.9	+3.9	36.7	-2.5	-1.3	96.9	-1.0	+6.3
Chemicals and allied products, and petroleum refining.	112.5	-3.3	-6.4	117.4	-5.6	-1.7	27.19	-2.4	+5.1	36.6	-3.5	-6.6	75.2	+1.0	+12.7
Other than petroleum refining.	111.0	-3.8	-7.8	112.2	-6.7	-6.0	24.22	-3.0	+1.9	37.1	-3.7	-8.4	66.8	+7	+11.3
Chemicals.	118.3	-3.5	-9.5	124.8	-4.3	-5.3	29.25	-8	+4.6	36.8	-1.8	-8.3	79.7	+1.1	+14.3
Cottonseed—oil, cake, and meal.	104.4	-5.0	+14.6	96.8	-7.6	+27.0	13.18	-2.7	+11.0	53.2	-3.6	+3	25.0	+1.2	+10.3
Druggists' preparations.	105.9	-4.2	-6	118.4	-4.5	+4.7	24.37	-4	+5.2	39.0	-2.0	-1.9	60.0	+3.9	+6.9
Explosives.	90.2	-4.8	-4.1	82.3	-17.9	-15.8	26.11	-13.8	-12.2	33.0	-13.2	-18.5	79.0	-7	+7.7
Fertilizers.	82.6	+1.2	-5.2	78.5	-4.7	+9	16.17	-5.9	+6.4	37.6	-1.9	-4.5	43.0	-4.0	+12.5
Paints and varnishes.	116.3	-4.0	-9.2	106.4	-8.4	-11.6	25.16	-4.6	-2.6	35.9	-4.8	-11.6	70.1	+2	+10.2
Rayon and allied products.	315.2	-6.4	-14.2	275.5	-12.1	-18.5	21.58	-6.1	-5.0	32.9	-6.9	-15.5	65.7	+9	+12.8
Soap.	94.0	-6	-6.3	109.2	-1.8	+2.0	28.65	-1.2	+10.9	38.4	-9	-3.5	74.8	-4	+12.9
Petroleum refining.	118.8	-1.1	-5	134.3	-2.6	+12.4	34.31	-1.5	+13.0	35.2	-2.6	-1	98.1	+8	+13.4
Rubber products.	78.3	-9.0	-22.7	65.9	-14.5	-33.7	22.41	-6.1	-14.2	29.0	-6.3	-20.0	79.2	+1	+8.5
Rubber boots and shoes.	59.2	-13.0	-23.5	44.3	-18.9	-33.6	18.76	-6.8	-13.3	30.7	-7.9	-20.0	61.1	+1.2	+9.4
Rubber goods, other than boots, shoes, tires, and inner tubes.	108.6	-10.2	-21.7	94.9	-14.5	-30.4	19.99	-4.8	-11.1	32.9	-4.2	-17.8	60.7	-1.1	+9.3
Rubber tires and inner tubes.	71.3	-6.8	-23.1	61.1	-13.8	-35.5	25.09	-7.5	-16.1	26.0	-7.0	-21.9	96.7	-4	+8.1

# NONMANUFACTURING

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

Coal mining:																			
Anthracite <sup>3</sup> .....	59.6	-3.0	-8.7	46.5	-9.3	+0.3	\$25.27	-6.5	+9.9	27.2	-6.1	-2.0	91.7	-0.3	+12.9				
Bituminous <sup>3</sup> .....	96.8	-2.6	-7.3	70.2	-26.1	-24.9	19.26	-24.1	-19.0	21.6	-25.5	-30.5	87.1	+6	+10.9				
Metalliferous mining.....	67.3	-4.4	+8	59.0	-9.5	+1.0	27.80	-5.3	+2	41.4	-4.0	-3.9	67.5	-1.5	+4.4				
Quarrying and nonmetallic mining.....	38.8	-11.7	-15.2	28.2	-15.6	-18.7	18.66	-4.4	-4.1	33.4	-4.4	-13.4	55.8	-3	+10.1				
Crude-petroleum producing.....	75.6	-1.2	+3.9	68.0	-2.5	+11.1	33.70	-1.3	+7.0	39.7	-1.8	-3	85.3	+5	+6.9				
Public utilities:																			
Telephone and telegraph <sup>4</sup> .....	77.8	-3	+4.5	93.8	-9	+12.2	31.02	-6	+7.4	39.9	+1.1	+3	82.2	-1.5	+7.3				
Electric light and power and manufactured gas <sup>4</sup> .....	94.0	-2.2	+2.0	98.9	-3.4	+7.1	33.47	-1.3	+5.0	39.3	-2.9	-2.0	85.5	+1.6	+7.7				
Electric-railroad and motorbus operation and maintenance <sup>4</sup> .....	72.2	-8	-3	70.9	-1.4	+4.3	32.11	-6	+4.7	45.0	-1.8	-2.3	70.0	+8	+7.0				
Trade:																			
Wholesale <sup>4</sup> .....	90.9	-2.5	+2	75.3	-3.1	+3.8	28.95	-6	+3.6	42.1	-1.3	-1.1	68.3	+3	+4.6				
Retail <sup>4</sup> .....	84.1	-16.3	-1.5	70.1	-13.1	+3.1	21.43	+3.9	+4.8	43.1	-1	-1.4	54.5	+3.9	+7.4				
General merchandising <sup>4</sup> .....	91.5	-37.3	-3.7	84.6	-31.4	+9	18.37	+9.4	+4.8	39.9	-2.4	-1.1	48.9	+7.5	+6.1				
Other than general merchandising <sup>4</sup> .....	82.1	-7.2	-1.0	67.1	-6.5	+3.7	23.92	+8	+4.8	44.0	-2	-1.5	56.1	+1.2	+7.6				
Hotels (year-round) <sup>3 4 5</sup> .....	94.3	-6	+1.5	81.5	-1.3	+7.0	14.90	-7	+5.4	46.6	+2	-2.8	31.1	-8	+6.8				
Laundries <sup>3</sup> .....	96.7	-3	-1.6	80.1	-1.2	+2.4	17.04	-9	+4.1	41.8	-7	-2.7	41.0	0	+7.1				
Dyeing and cleaning <sup>3</sup> .....	96.7	-2.5	-2.1	65.3	-4.8	+9	18.66	-2.4	+3.0	39.0	-3.7	-4.3	49.2	+1.0	+8.3				
Brokerage <sup>4</sup> .....	( <sup>6</sup> )	-1.9	-10.6	( <sup>6</sup> )	-3.4	-12.6	36.23	-1.5	-2.2	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )				
Insurance <sup>4</sup> .....	( <sup>6</sup> )	+1.0	+2.4	( <sup>6</sup> )	+8	+3.8	37.38	-2	+1.4	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )				
Building construction.....	( <sup>6</sup> )	-14.2	-16.5	( <sup>6</sup> )	-15.2	-12.3	28.36	-1.2	+5.1	30.5	-2.5	-5.5	92.5	+1.4	+11.6				

<sup>1</sup> 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.

<sup>2</sup> Less than  $\frac{1}{10}$  of 1 percent.

<sup>3</sup> Indexes adjusted to 1935 census and not comparable with previously published indexes.

Comparable series are presented in table 7.

<sup>4</sup> Average weekly earnings, hourly earnings, and hours not strictly comparable with previously published figures as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory. Comparable figures for December 1937 appear in table 4.

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

<sup>6</sup> Not available.



TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, January 1938, December 1937, and 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. Comparable series available on request]

Industry	Employment index			Pay-roll index			Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	January 1938	December 1937	November 1937	January 1938	December 1937	November 1937	January 1938	December 1937	November 1937	January 1938	December 1937	November 1937	January 1938	December 1937	November 1937
All manufacturing industries.....	82.2	88.6	94.7	71.6	80.9	89.5	\$21.88	\$22.93	\$23.92	33.2	34.4	35.4	Cents 66.3	Cents 66.6	Cents 66.7
Durable goods.....	75.1	84.3	92.4	63.8	77.0	89.9	23.26	24.95	26.80	32.3	34.4	36.4	72.7	72.9	73.3
Nondurable goods.....	89.9	93.3	97.3	81.5	85.8	89.0	20.47	20.68	20.54	34.0	34.3	34.4	60.2	60.0	59.6
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	81.2	90.0	98.1	59.2	71.9	85.7	20.43	22.49	24.64	27.7	30.1	32.6	75.5	76.1	76.3
Blast furnaces, steel works, and rolling mills.....	90.5	99.6	108.6	61.7	75.5	92.9	20.17	22.47	25.33	24.9	27.3	30.7	81.8	82.8	82.8
Bolts, nuts, washers, and rivets.....	63.2	73.5	80.5	49.1	66.1	78.7	17.62	20.39	22.34	25.3	29.7	32.3	69.7	68.9	69.2
Cast-iron pipe.....	55.3	60.2	57.9	36.0	44.3	42.6	17.26	19.65	19.68	29.3	33.7	33.5	58.2	58.1	58.5
Cutlery (not including silver and plated cutlery) and edge tools.....	77.7	83.9	88.3	63.0	74.6	80.5	20.24	22.32	22.94	33.6	37.5	38.9	62.5	61.2	60.2
Forgings, iron and steel.....	52.3	60.6	64.7	36.3	49.0	55.8	21.22	24.60	26.22	28.6	33.7	35.6	74.7	73.3	74.1
Hardware.....	70.8	84.0	91.5	56.3	80.6	99.9	17.94	21.63	24.55	27.4	32.2	35.4	65.1	67.2	69.4
Plumbers' supplies.....	78.9	79.8	89.6	56.0	55.3	63.5	21.45	21.96	22.45	32.3	32.3	33.6	66.5	67.9	66.8
Steam and hot-water heating apparatus and steam fittings.....	56.6	61.8	66.3	43.4	49.1	53.1	22.21	22.90	23.18	31.1	32.8	33.1	70.9	69.6	69.8
Stoves.....	63.8	77.2	91.1	43.9	56.0	65.0	20.21	21.26	21.02	31.8	33.3	32.3	65.0	65.4	65.5
Structural and ornamental metalwork.....	63.8	69.5	75.0	58.5	68.2	74.5	25.74	27.59	27.99	35.8	38.4	39.3	72.1	72.0	71.4
Tin cans and other tinware.....	85.7	91.3	96.8	88.1	94.4	99.8	22.93	23.10	23.07	36.7	37.6	37.5	63.2	62.2	61.9
Tools (not including edge tools, machine tools, files, and saws).....	81.5	87.6	91.7	75.9	82.4	90.3	21.60	21.96	22.95	34.7	35.2	36.7	62.0	62.2	62.2
Wirework.....	135.1	161.2	179.5	108.4	136.1	162.3	20.36	21.47	23.00	30.7	31.5	33.5	66.4	68.2	68.7
Machinery, not including transportation equipment.....	104.0	113.1	121.4	95.5	110.6	121.2	25.52	27.25	27.79	34.4	36.9	37.9	73.2	73.1	72.6
Agricultural implements.....	138.4	139.6	143.0	172.1	173.5	184.5	27.73	27.67	28.74	37.1	37.3	38.9	74.8	74.4	74.1
Cash registers, adding machines, and calculating machines.....	126.8	120.0	133.6	128.5	137.9	141.2	30.71	33.05	32.61	37.8	39.6	39.7	81.6	84.1	82.7
Electrical machinery, apparatus, and supplies.....	95.9	104.7	113.1	88.1	102.9	114.3	25.17	27.01	27.74	33.5	36.1	37.2	74.9	74.8	74.6
Engines, turbines, tractors, and water wheels.....	130.4	141.2	147.8	128.2	143.6	155.0	30.15	31.32	32.38	36.3	37.9	39.3	83.2	82.9	82.8

Foundry and machine-shop products.....	90.3	98.1	104.8	79.1	93.0	101.8	24.46	26.47	27.12	34.1	37.0	38.3	71.4	71.3	70.8
Machine tools.....	139.2	148.1	153.9	131.5	149.0	157.9	29.01	31.03	31.63	39.7	42.2	42.9	73.2	73.5	73.8
Radios and phonographs.....	97.1	124.0	156.7	76.2	98.7	123.0	20.81	20.90	20.74	32.7	33.2	33.2	63.8	63.0	62.5
Textile machinery and parts.....	68.6	73.7	77.7	53.4	63.4	70.2	21.27	23.53	24.50	32.8	35.7	37.0	65.0	66.1	66.6
Typewriters and parts.....	117.7	127.0	138.4	76.8	106.6	106.0	17.41	22.40	20.43	27.1	35.2	32.5	64.1	63.7	62.7
Transportation equipment.....	84.3	105.5	121.8	68.6	92.4	130.0	28.23	27.40	31.03	29.7	31.2	35.1	88.7	88.1	88.9
Aircraft.....	771.5	781.0	795.0	674.9	700.7	725.3	27.79	28.06	27.89	39.4	39.8	39.7	71.3	70.4	70.2
Automobiles.....	86.8	112.9	133.2	63.8	90.8	125.8	25.15	26.44	31.23	27.4	29.2	34.3	91.9	90.5	91.3
Cars, electric- and steam-railroad.....	44.5	55.8	65.8	48.9	65.0	81.1	26.41	27.93	29.61	35.4	36.9	38.5	74.6	75.7	76.9
Locomotives.....	52.2	59.5	61.6	37.7	53.7	51.4	28.11	35.15	32.47	36.4	43.5	41.4	77.2	80.8	78.5
Shipbuilding.....	99.2	104.8	105.9	114.2	126.5	121.4	31.21	32.69	31.02	36.1	37.9	36.9	84.8	85.0	83.8
Railroad repair shops.....	47.6	52.7	57.4	47.3	55.7	63.3	28.87	30.48	31.61	39.4	41.5	45.0	72.8	73.3	73.6
Electric railroad.....	63.1	63.5	63.1	68.4	70.1	68.2	30.61	31.38	30.63	43.5	44.8	43.6	69.4	68.6	68.5
Steam railroad.....	46.4	51.9	57.0	45.9	54.7	63.0	28.52	30.33	31.78	39.0	41.2	43.0	73.1	73.7	74.1
Nonferrous metals and their products.....	88.4	98.9	108.4	73.3	86.5	99.9	22.49	23.49	24.63	33.1	35.1	37.3	67.6	68.5	65.9
Aluminum manufactures.....	103.9	114.1	123.5	96.9	110.7	127.8	23.11	24.18	25.82	33.5	35.3	38.5	69.1	68.6	67.2
Brass, bronze, and copper products.....	89.1	97.0	105.5	71.4	80.3	92.1	22.73	23.36	24.77	30.8	31.9	33.7	73.8	73.0	73.4
Clocks and watches and time-recording devices.....	99.8	115.3	125.0	88.8	105.3	122.3	20.42	20.72	22.22	33.6	35.4	38.6	60.7	58.5	57.6
Jewelry.....	82.2	89.9	100.3	60.5	70.6	78.8	22.52	23.53	24.09	36.3	38.2	40.3	61.9	61.3	58.9
Lighting equipment.....	69.2	87.1	95.6	52.7	72.1	94.4	19.54	21.31	25.07	28.8	31.7	38.3	67.9	67.5	65.4
Silverware and plated ware.....	69.3	76.1	79.3	54.0	67.7	72.6	21.11	24.18	24.84	33.2	37.7	38.8	63.6	64.1	64.1
Smelting and refining—copper, lead, and zinc.....	81.1	85.3	88.0	74.0	80.2	83.8	26.92	27.73	27.90	39.1	40.2	39.9	68.9	69.0	69.8
Stamped and enameled ware.....	105.2	122.6	144.0	88.6	114.7	141.5	20.64	21.69	22.76	31.8	35.0	37.1	64.6	61.8	61.2
Lumber and allied products.....	53.7	58.1	63.5	42.5	48.4	55.1	17.66	18.62	19.48	34.6	36.3	37.2	51.6	51.3	52.8
Furniture.....	68.5	74.5	79.5	49.4	60.0	65.8	17.16	19.27	19.66	31.8	36.0	37.0	53.8	53.7	53.2
Lumber:															
Millwork.....	44.1	47.6	51.2	36.5	42.8	46.3	18.85	20.38	20.58	34.0	37.0	37.7	55.3	55.2	54.7
Sawmills.....	39.7	42.8	47.6	31.5	33.9	40.4	17.70	17.56	18.99	36.5	36.4	37.3	49.3	48.8	52.0
Stone, clay, and glass products.....	55.1	63.2	68.2	43.4	54.5	63.6	19.97	21.86	23.71	31.1	33.8	36.6	65.1	64.9	64.4
Brick, tile, and terra cotta.....	35.3	41.1	45.5	24.3	30.8	36.4	16.53	17.95	19.18	31.2	33.8	35.8	54.1	53.5	53.4
Cement.....	50.2	60.5	66.1	44.4	58.0	67.3	22.45	24.34	25.73	32.8	36.1	38.2	68.4	67.4	67.4
Glass.....	87.6	100.0	106.7	76.2	95.8	111.9	20.89	23.01	25.21	29.8	32.4	35.8	70.4	71.2	70.5
Marble, granite, slate, and other products.....	31.9	38.0	42.1	23.7	30.8	34.6	22.26	23.64	23.88	32.9	35.1	36.2	67.9	67.5	66.3
Pottery.....	69.7	74.1	76.9	51.3	59.7	70.0	19.43	21.19	24.05	32.1	34.9	37.9	64.0	63.1	63.1
<i>Nondurable goods</i>															
Textile and their products.....	84.6	88.2	92.0	65.3	68.7	71.5	15.31	15.42	15.37	30.2	30.3	30.6	51.1	51.1	50.9
Fabrics.....	80.6	84.0	87.2	64.8	68.9	71.5	15.02	15.36	15.24	30.7	31.4	31.5	48.9	49.0	49.2
Carpets and rugs.....	64.9	78.3	85.7	45.6	54.4	49.7	16.24	16.50	13.77	24.6	25.6	21.2	65.9	64.4	64.9
Cotton goods.....	86.6	89.0	91.1	70.3	74.1	76.8	12.73	13.13	13.25	30.2	30.9	31.5	42.0	42.3	42.1
Cotton small wares.....	78.8	84.9	91.2	67.9	74.9	79.0	15.96	16.47	16.10	33.1	33.5	33.1	48.7	50.0	50.0
Dyeing and finishing textiles.....	103.6	105.3	108.8	83.9	86.5	89.0	19.50	19.81	19.87	34.2	34.0	34.4	56.9	58.0	57.6
Hats, fur-felt.....	82.7	83.5	83.0	65.2	64.9	61.0	21.40	21.13	19.96	31.2	30.8	28.2	72.0	70.6	71.6
Knit goods.....	98.8	103.3	111.9	89.7	95.1	112.3	15.64	16.00	17.40	30.8	31.7	33.7	51.9	51.3	52.4
Silk and rayon goods.....	57.8	63.2	67.6	40.4	48.1	50.8	13.55	14.75	14.54	29.5	32.0	31.7	45.5	46.0	46.2
Woolen and worsted goods.....	59.1	61.1	59.8	48.9	49.6	42.8	18.97	18.69	16.43	32.0	31.7	27.7	59.4	59.2	59.4

See footnotes at end of table.

**TABLE 4.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, January 1938, December 1937, and November 1937—Continued**  
**MANUFACTURING—Continued**

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	January 1938	December 1937	November 1937	January 1938	December 1937	November 1937	January 1938	December 1937	November 1937	January 1938	December 1937	November 1937	January 1938	December 1937	November 1937
<i>Nondurable goods—Continued</i>															
<b>Textile and their products—Continued.</b>													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Wearing apparel.....	91.7	95.6	101.0	63.7	65.2	68.6	\$16.13	\$15.60	\$15.74	28.9	28.2	28.9	55.8	55.3	54.3
Clothing, men's.....	83.2	84.0	90.7	58.2	55.5	61.1	16.44	15.61	15.82	26.7	25.2	26.1	62.1	62.4	61.1
Clothing, women's.....	128.3	131.0	134.9	82.8	86.0	84.2	17.87	17.85	17.25	29.9	29.4	29.2	56.8	56.8	55.5
Corsets and allied garments.....	84.4	87.6	88.1	74.7	79.7	82.1	14.99	14.85	15.52	32.3	32.0	33.6	46.9	46.7	46.0
Men's furnishings.....	97.6	118.8	130.4	66.5	89.8	103.8	12.05	13.16	14.36	29.2	31.5	32.8	37.8	36.6	37.3
Millinery.....	50.1	44.1	43.8	34.4	27.4	26.7	20.02	18.00	17.40						
Shirts and collars.....	89.3	106.3	114.6	70.9	87.3	102.6	11.87	12.11	13.14	30.3	30.2	33.1	41.7	41.0	40.4
<b>Leather and its manufactures.....</b>	85.8	81.8	80.3	65.6	58.4	53.8	17.96	16.61	15.48	33.4	31.1	28.6	53.6	53.6	54.5
Boots and shoes.....	89.3	83.8	80.8	63.1	53.2	46.0	16.94	15.25	13.72	32.9	30.1	26.9	51.4	51.1	52.3
Leather.....	76.6	78.6	82.9	76.9	78.5	82.7	22.43	22.23	22.13	35.4	35.2	35.2	63.8	63.8	62.8
<b>Food and kindred products.....</b>	102.7	107.3	114.6	106.4	110.4	115.9	25.22	24.93	24.46	40.4	40.5	40.3	61.8	61.2	60.2
Baking.....	129.6	131.6	135.2	125.0	127.4	130.3	25.18	25.22	25.10	41.5	41.4	41.4	61.2	61.3	61.1
Beverages.....	186.2	187.4	194.3	199.8	202.0	212.7	31.33	31.65	32.22	37.7	37.9	38.8	83.8	84.3	84.2
Butter.....	80.5	81.6	83.7	65.7	65.8	67.2	22.54	22.27	22.42						
Canning and preserving.....	81.9	89.1	118.7	79.4	86.6	111.4	16.12	16.22	15.74	34.3	33.6	33.8	48.3	49.6	47.8
Confectionery.....	76.4	87.2	91.8	73.8	86.8	89.8	17.58	18.11	17.63	36.8	39.7	38.7	48.0	45.6	45.6
Flour.....	73.7	75.1	76.0	73.3	74.0	76.7	25.86	25.52	26.10	43.4	42.7	43.7	58.6	58.9	58.8
Ice cream.....	61.3	63.7	65.1	57.8	60.4	61.5	29.24	29.25	29.16	45.4	46.6	46.5	62.6	61.7	61.3
Slaughtering and meat packing.....	92.8	90.9	90.5	108.3	104.7	102.3	29.30	28.89	28.31	42.7	42.2	41.1	68.8	68.0	68.1
Sugar, beet.....	33.9	146.1	252.1	40.8	135.8	267.4	28.37	21.98	25.09	38.8	40.4	49.6	76.0	55.6	50.8
Sugar refining, cane.....	65.6	75.0	70.4	58.9	72.4	66.8	33.72	26.87	26.41	38.1	43.0	40.9	59.6	60.8	62.8
<b>Tobacco manufactures.....</b>	51.9	60.8	62.9	44.6	55.7	57.2	15.85	16.88	16.72	33.3	37.1	37.4	47.6	45.5	44.9
Chewing and smoking tobacco and snuff.....	57.2	56.9	56.7	46.6	67.9	63.8	17.31	18.11	17.06	34.7	35.8	33.5	50.3	51.1	51.1
Cigars and cigarettes.....	51.1	61.2	63.6	41.9	54.2	56.4	15.48	16.62	16.66	33.1	37.3	37.9	47.2	44.9	44.2
<b>Paper and printing.....</b>	101.0	104.1	106.4	95.6	100.8	101.5	26.96	27.62	27.48	36.8	37.6	37.7	76.2	76.5	75.7
Boxes, paper.....	89.3	96.9	103.3	83.1	92.8	102.6	19.25	19.78	20.42	35.2	37.3	39.0	55.1	53.4	52.8
Paper and pulp.....	108.2	109.4	113.6	98.0	98.8	105.4	22.41	22.47	23.26	35.9	35.6	36.9	62.4	63.1	63.2
Printing and publishing:															
Book and job.....	95.8	98.0	98.3	91.0	95.9	93.1	29.95	30.75	29.96	38.4	39.7	38.7	79.3	78.3	78.5
Newspapers and periodicals.....	103.1	106.6	107.0	100.8	108.4	106.1	36.75	38.45	37.42	36.7	37.7	37.1	96.9	99.1	97.1
<b>Chemicals and allied products, and petroleum refining.....</b>	112.5	116.3	122.7	117.4	124.4	132.1	27.19	27.93	28.07	36.6	38.0	38.5	75.2	74.3	73.8
Other than petroleum refining.....	111.0	115.4	122.4	112.2	120.3	129.6	24.22	25.06	25.59	37.1	38.5	39.5	66.8	66.2	65.8
Chemicals.....	118.3	122.6	129.8	124.8	130.4	141.7	29.25	29.51	30.25	36.8	37.4	38.7	79.7	78.9	78.2

Cottonseed—oil, cake, and meal.....	104.4	109.9	121.0	96.8	104.8	113.0	13.18	13.48	13.18	53.2	55.0	53.5	25.0	24.7	24.8
Druggists' preparations.....	105.9	110.5	112.5	118.4	124.0	125.8	24.37	24.40	24.33	39.0	39.8	39.2	60.0	57.7	58.3
Explosives.....	90.2	94.7	95.4	82.3	100.3	106.6	26.11	29.48	31.64	33.0	37.8	39.7	79.0	78.0	79.8
Fertilizers.....	82.6	81.6	75.3	78.5	82.3	77.4	16.17	16.74	17.02	37.6	38.2	38.6	43.0	43.9	44.1
Paints and varnishes.....	116.3	121.1	128.0	106.4	116.1	124.8	25.16	26.40	26.95	35.9	37.8	38.8	70.1	69.9	69.6
Rayon and allied products.....	315.2	336.8	374.0	275.5	313.5	360.3	21.58	22.98	23.79	32.9	35.3	37.0	65.7	65.1	64.4
Soap.....	94.0	94.6	100.4	109.2	111.2	116.9	28.65	28.58	28.23	38.4	38.7	39.2	74.8	74.3	72.4
Petroleum refining.....	118.8	120.2	123.9	134.3	137.9	140.4	34.31	34.88	34.42	35.2	36.3	35.8	98.1	97.1	97.0
Rubber products.....	78.3	86.0	90.9	85.9	77.1	82.0	22.41	23.90	24.11	29.0	31.1	31.6	79.2	78.9	79.0
Rubber boots and shoes.....	59.2	68.0	71.9	44.3	54.6	62.1	18.76	20.08	21.70	30.7	33.6	35.9	61.1	59.8	60.4
Rubber goods, other than boots, shoes, tires, and inner tubes.....	108.6	120.9	128.2	94.9	110.9	121.7	19.99	21.15	21.93	32.9	34.5	36.0	60.7	61.3	60.9
Rubber tires and inner tubes.....	71.3	76.6	80.8	61.1	70.8	72.9	25.09	26.91	26.26	26.0	28.0	27.2	96.7	96.7	97.2

### NONMANUFACTURING

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

Coal mining:															
Anthracite <sup>2</sup> .....	59.6	61.4	60.9	46.5	51.3	49.0	\$25.27	\$27.02	\$26.00	27.2	28.9	28.3	91.7	92.0	90.7
Bituminous <sup>2</sup> .....	96.8	99.4	101.4	70.2	95.1	91.1	19.26	25.49	24.00	21.6	29.1	26.9	87.1	86.6	87.8
Metalliferous mining.....	67.3	70.4	75.4	59.0	65.1	71.6	27.80	29.43	30.05	41.4	43.1	43.1	67.5	68.6	69.9
Quarrying and nonmetallic mining.....	38.8	43.9	49.9	28.2	33.4	41.7	18.66	19.32	21.48	33.4	34.7	38.9	55.8	55.8	55.0
Crude-petroleum producing.....	75.6	76.5	77.2	68.0	69.8	70.2	33.70	34.11	34.12	39.7	40.1	39.9	85.3	83.8	84.3
Public utilities:															
Telephone and telegraph <sup>3</sup> .....	77.8	78.0	78.9	93.8	94.7	91.4	31.02	31.19	(*)	39.9	39.5	(*)	82.2	83.4	(*)
Electric light and power and manufactured gas <sup>3</sup> .....	94.0	96.1	97.3	98.9	102.4	103.8	33.47	33.91	(*)	39.3	40.4	(*)	85.5	84.2	(*)
Electric-railroad and motorbus operation and maintenance <sup>3</sup> .....	72.2	72.8	73.2	70.9	71.9	71.8	32.11	32.29	(*)	45.0	45.8	(*)	70.0	69.4	(*)
Trade:															
Wholesale <sup>3</sup> .....	90.9	93.3	93.5	75.3	77.8	78.3	28.95	29.13	(*)	42.1	42.7	(*)	68.3	68.1	(*)
Retail <sup>3</sup> .....	84.1	100.4	91.7	70.1	80.6	75.3	21.43	19.94	(*)	43.1	43.1	(*)	54.5	52.4	(*)
General merchandising <sup>3</sup> .....	91.5	145.9	109.8	84.6	123.3	97.1	18.37	16.79	(*)	39.9	40.9	(*)	48.9	45.5	(*)
Other than general merchandising <sup>3</sup> .....	82.1	88.5	86.9	67.1	71.8	70.8	23.92	23.74	(*)	44.0	44.1	(*)	56.1	55.4	(*)
Hotels (year-round) <sup>1 2 3</sup> .....	94.3	94.9	96.6	81.5	82.6	84.3	14.90	15.00	(*)	46.6	46.6	(*)	31.1	31.3	(*)
Laundries <sup>2</sup> .....	96.7	97.0	97.8	80.1	81.1	81.1	17.04	17.03	16.90	41.8	42.0	41.6	41.0	40.5	40.7
Dyeing and cleaning <sup>2</sup> .....	96.7	99.2	103.5	65.3	68.6	73.7	18.66	19.09	19.53	39.0	40.2	40.8	49.2	49.1	49.1
Brokerage <sup>4</sup> .....	-1.9	-1.6	+8	-3.4	-2.6	+1.1	36.23	36.79	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Insurance <sup>4</sup> .....	+1.0	+2	-1	+3	-8	+1.8	37.38	37.45	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Building construction <sup>5</sup> .....	-14.2	-17.2	-6.4	-15.2	-22.7	-8.1	28.36	28.53	30.52	30.5	30.9	33.1	92.5	91.9	91.6

<sup>1</sup> 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 small 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.

<sup>2</sup> Indexes adjusted to 1935 census and not comparable with previously published indexes. Comparable series are presented in table 7.

<sup>3</sup> Average weekly earnings, hourly earnings, and hours not strictly comparable with previously published figures as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

<sup>4</sup> Not available.

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

<sup>6</sup> Indexes of employment and pay rolls not available; percentage changes from preceding month substituted.

## INDEXES OF EMPLOYMENT AND PAY ROLLS

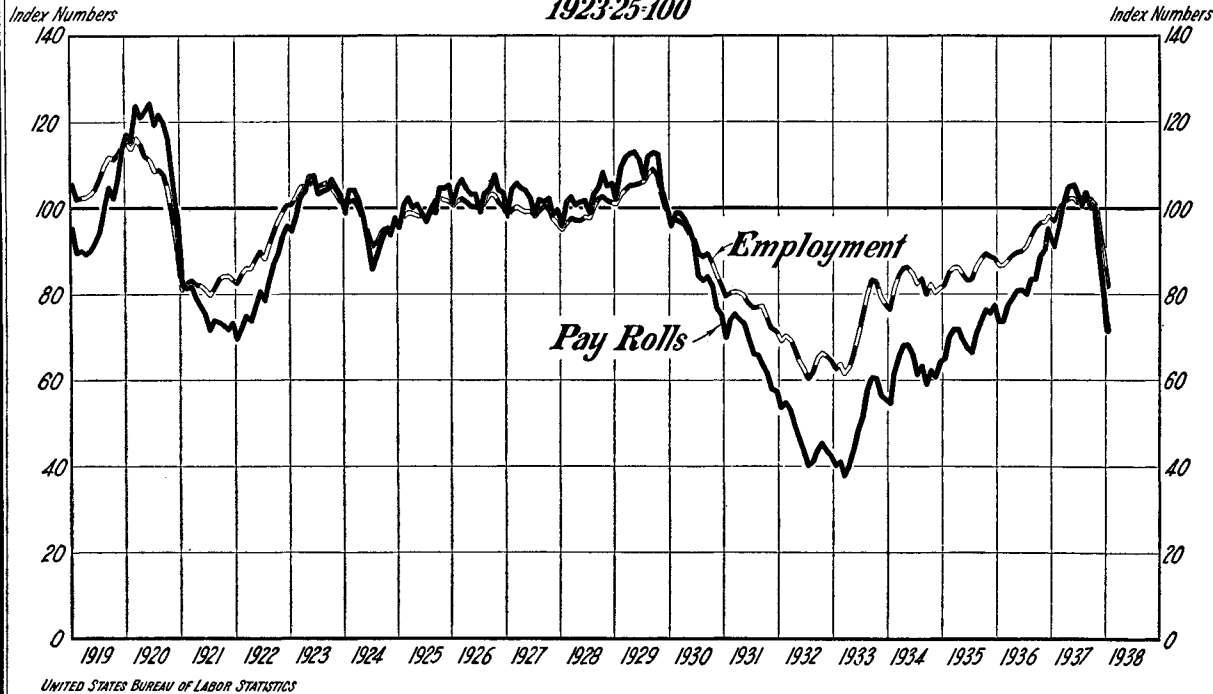
Indexes of employment and pay rolls are given in tables 5 and 6 for all manufacturing industries combined, for the durable- and non-durable-goods groups of manufacturing industries, and for 13 non-manufacturing industries, including 2 subgroups under retail trade, by months, from January 1937 to January 1938, inclusive. The indexes for anthracite and bituminous-coal mining, year-round hotels, laundries, and dyeing and cleaning, have been adjusted to 1935 census figures and are presented by months from 1929 forward where available in table 7. Explanatory text precedes that table. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to January 1938.

The indexes of factory employment and pay rolls are computed from returns supplied by representative establishments in 89 manufacturing industries and cover wage earners only. The base used in computing these indexes is the 3-year average 1923-25 as 100. In January 1938 reports were received from 24,957 manufacturing establishments employing 3,982,188 workers, whose weekly earnings were \$87,130,609. The employment reports received from these establishments cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 89 industries included in the monthly survey of the Bureau of Labor Statistics.

The indexes for the nonmanufacturing industries are based on the 12-month average for 1929 as 100. Figures for mining, laundries, dyeing and cleaning, and building construction cover wage earners only, but the figures for public utilities, trade, hotels, brokerage, and insurance relate to all employees, except corporation officers, executives, and other employees whose duties are mainly supervisory. For crude-petroleum producing they cover wage earners and clerical field force.

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

# EMPLOYMENT & PAY ROLLS ALL MANUFACTURING INDUSTRIES 1923=100



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

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

Month	Manufacturing											
	Total				Durable goods <sup>2</sup>				Nondurable goods <sup>2</sup>			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938
January.....	96.5	82.2	90.7	71.6	90.4	75.1	86.6	63.8	103.0	89.9	96.0	81.5
February.....	99.0	-----	95.8	-----	93.2	-----	92.5	-----	105.2	-----	99.9	-----
March.....	101.1	-----	101.1	-----	96.4	-----	100.0	-----	106.1	-----	102.6	-----
April.....	102.1	-----	104.9	-----	98.6	-----	106.4	-----	105.9	-----	102.9	-----
May.....	102.3	-----	105.2	-----	99.9	-----	107.5	-----	104.8	-----	102.3	-----
June.....	101.1	-----	102.9	-----	98.8	-----	104.6	-----	103.5	-----	100.8	-----
July.....	101.4	-----	100.4	-----	98.9	-----	100.7	-----	104.1	-----	100.0	-----
August.....	102.3	-----	103.8	-----	98.1	-----	104.0	-----	106.9	-----	103.5	-----
September.....	102.1	-----	100.1	-----	97.3	-----	99.4	-----	107.3	-----	100.9	-----
October.....	100.5	-----	100.1	-----	97.6	-----	101.7	-----	103.6	-----	98.2	-----
November.....	94.7	-----	89.5	-----	92.4	-----	89.9	-----	97.3	-----	89.0	-----
December.....	88.6	-----	80.9	-----	84.3	-----	77.0	-----	93.3	-----	85.8	-----
Average.....	99.3	-----	98.0	-----	95.5	-----	97.5	-----	103.4	-----	98.5	-----

<sup>1</sup> 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.<sup>2</sup> 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.<sup>3</sup> 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.**TABLE 6.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1937 to January 1938 <sup>1</sup>**

[12-month average 1929=100]

Month	Anthracite mining				Bituminous-coal mining				Metalliferous mining				Quarrying and non-metallic mining			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938
January.....	65.2	59.6	46.4	46.5	104.5	96.8	93.6	70.2	66.8	67.3	58.4	59.0	45.7	38.8	34.6	28.2
February.....	63.6	-----	44.6	-----	104.7	-----	96.4	-----	69.6	-----	63.4	-----	46.7	-----	37.8	-----
March.....	59.0	-----	41.1	-----	106.1	-----	103.5	-----	73.1	-----	70.6	-----	49.1	-----	41.3	-----
April.....	65.1	-----	69.4	-----	89.7	-----	63.6	-----	76.2	-----	76.9	-----	53.1	-----	48.1	-----
May.....	61.5	-----	48.2	-----	96.1	-----	79.4	-----	78.5	-----	79.8	-----	54.9	-----	51.4	-----
June.....	61.6	-----	55.3	-----	96.2	-----	83.3	-----	79.5	-----	77.7	-----	55.4	-----	52.6	-----
July.....	54.3	-----	38.2	-----	93.7	-----	77.7	-----	82.0	-----	77.8	-----	55.5	-----	50.8	-----
August.....	49.7	-----	29.6	-----	97.4	-----	86.3	-----	83.4	-----	83.0	-----	54.9	-----	53.2	-----
September.....	58.1	-----	34.2	-----	99.4	-----	90.9	-----	84.1	-----	82.2	-----	54.7	-----	50.1	-----
October.....	61.5	-----	55.4	-----	102.4	-----	100.7	-----	82.9	-----	81.7	-----	53.3	-----	49.3	-----
November.....	60.9	-----	49.0	-----	101.4	-----	91.1	-----	75.4	-----	71.6	-----	49.9	-----	41.7	-----
December.....	61.4	-----	51.3	-----	99.4	-----	95.1	-----	70.4	-----	65.1	-----	43.9	-----	33.4	-----
Average.....	60.2	-----	46.9	-----	99.3	-----	88.5	-----	76.8	-----	74.0	-----	51.4	-----	45.4	-----

<sup>1</sup> Comparable indexes for earlier years for all of these industries, except anthracite and bituminous-coal mining, year-round hotels, laundries, and dyeing and cleaning, 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. Indexes for anthracite and bituminous-coal mining, year-round hotels, laundries, and dyeing and cleaning from January 1929 forward have been adjusted to the 1935 census and are presented in table 7, following.

TABLE 6.—*Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1937 to January 1938—Continued*

Month	Crude-petroleum producing				Telephone and telegraph				Electric light and power, and manufactured gas				Electric-railroad and motorbus operation and maintenance <sup>2</sup>			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938
January.....	72.7	75.6	61.2	68.0	74.4	77.8	83.6	93.8	92.1	94.0	92.3	98.9	72.5	72.2	68.0	70.9
February.....	73.5		64.1		74.8		82.2		92.2		93.6		72.5		68.7	
March.....	74.2		63.9		75.4		87.2		92.4		94.8		72.6		69.2	
April.....	75.8		67.7		76.6		86.3		93.1		95.5		72.9		69.4	
May.....	76.7		68.2		77.7		89.5		94.6		97.9		73.3		70.1	
June.....	78.5		70.4		78.5		88.6		96.3		100.4		73.3		71.1	
July.....	78.5		70.5		79.7		92.1		97.5		102.2		73.4		70.8	
August.....	79.3		70.8		79.8		92.1		98.3		102.6		73.4		73.1	
September.....	78.2		71.2		79.8		92.3		98.6		104.0		73.7		71.6	
October.....	77.5		69.9		79.6		94.9		98.5		105.3		73.4		71.4	
November.....	77.2		70.2		78.9		91.4		97.3		103.8		73.2		71.8	
December.....	76.5		69.8		78.0		94.7		96.1		102.4		72.8		71.9	
Average.....	76.5		68.2		77.8		89.6		95.6		99.6		73.1		70.6	

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	
	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938
January.....	90.7	90.9	72.6	75.2	85.4	84.1	68.0	70.1	95.1	91.5	83.8	84.6	82.9	82.1	64.7	67.1
February.....	92.0		74.1		85.2		67.9		93.9		82.9		82.9		64.8	
March.....	92.1		75.0		88.5		70.5		100.3		87.6		85.4		67.0	
April.....	91.9		75.4		88.8		71.9		99.6		89.1		86.0		68.3	
May.....	90.8		76.1		89.9		73.5		102.1		91.5		86.7		69.8	
June.....	90.3		76.3		90.5		74.4		102.9		92.5		87.2		70.6	
July.....	90.6		76.9		87.6		72.8		95.9		87.3		85.4		69.8	
August.....	91.8		79.0		86.2		72.3		93.8		85.7		84.2		69.5	
September.....	93.0		78.3		90.7		74.4		103.7		92.4		87.3		70.7	
October.....	94.0		79.3		92.1		75.9		108.1		96.2		87.9		71.7	
November.....	93.5		78.3		91.7		75.3		109.8		97.1		86.9		70.8	
December.....	93.3		77.8		100.4		80.6		145.9		123.3		88.5		71.8	
Average.....	92.0		76.6		89.8		73.1		104.3		92.5		85.9		69.1	

Month	Year-round hotels				Laundries				Dyeing and cleaning			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938
January.....	92.9	94.3	76.2	81.5	98.3	96.7	78.2	80.1	98.8	96.7	64.7	65.3
February.....	93.9		78.5		98.4		78.1		98.0		63.6	
March.....	94.4		78.7		98.5		79.3		104.3		71.8	
April.....	96.1		80.7		98.3		80.4		109.2		80.1	
May.....	95.3		79.7		100.3		83.3		113.9		86.1	
June.....	94.4		80.1		103.9		87.5		118.5		92.2	
July.....	93.6		79.4		105.8		89.0		111.0		79.5	
August.....	94.3		80.5		104.7		88.0		110.3		81.3	
September.....	95.7		82.4		104.1		86.4		112.8		85.7	
October.....	96.9		84.1		99.9		83.4		110.5		83.6	
November.....	96.6		84.3		97.8		81.1		103.5		73.7	
December.....	94.9		82.6		97.0		81.1		99.2		68.6	
Average.....	94.9		80.6		100.6		83.0		107.5		77.6	

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



REVISED INDEXES OF EMPLOYMENT AND PAY ROLLS IN ANTHRACITE AND BITUMINOUS-COAL MINING, LAUNDRIES, DYEING AND CLEANING, AND YEAR-ROUND HOTELS

In table 7, following, are presented revised indexes of employment and pay rolls for the anthracite and bituminous-coal mining industries, power laundries, dyeing and cleaning establishments, and year-round hotels. The indexes are based on reports received each month from a selected group of representative firms. Since the monthly surveys do not cover all establishments in any industry, the movements of employment and pay rolls over an extended period of time deviate from the changes shown by the censuses, which are designed to cover all firms. Adjustments are therefore made when final census data become available to eliminate any differences in trend which may have developed between the Bureau's indexes and movements shown by the census. The revised indexes for the industries shown in the accompanying tables have been adjusted to conform with census levels for 1935 and supersede the formerly published series. They are based on the average for the year 1929 as 100. The monthly movements of the revised series subsequent to December 1935 have not been affected by these revisions.

The method of adjusting these indexes is similar to that used for the biennial adjustment of the Bureau's indexes of factory employment and pay rolls to the census.

In keeping with the policy adopted by the Bureau of Labor Statistics, further revisions, if necessary, will be made when final census data for these industries become available for succeeding years.

*Coal mining.*—The indexes of employment and pay rolls for the coal-mining industries have been adjusted to conform with the trends indicated by annual data for wage earners and wages available from the Census of Mines for 1929 and 1935. Since census data for the anthracite and bituminous-coal mining industries are available only for 1929 and 1935, a 7-year adjustment method was used to bring the Bureau's average indexes for 1935 into conformity with the movements indicated by census data between these 2 years.

*Laundries and dyeing and cleaning.*—The indexes of employment and pay rolls for the laundry and dyeing and cleaning industries were adjusted to conform with census data for the years 1931 and 1935. These indexes, which had previously been adjusted to the 1931 census levels, had not been adjusted to 1933 census data, due to the incompleteness of the census survey for that year.

*Hotels.*—The hotel indexes relate to year-round hotels having 25 or more guest rooms. They had previously been adjusted to conform with census movements between 1929 and 1933 for such year-round hotels. The present adjustment is based on the 1935 census and

affects the indexes from January 1933 forward. The published census data for 1935 showing comparisons of employment and pay rolls between 1929, 1933, and 1935 for year-round hotels, having 25 or more guest rooms, do not include figures for California because of lack of comparable information over this period. Since the movements shown by census employment and pay-roll reports between 1929 and 1933 excluding California were similar to those including California, it was assumed that similar relationships obtained between 1933 and 1935, and the census figures excluding California were used as a basis for the adjustment of the indexes between 1933 and 1935.

Also, in 1935, as in the earlier censuses, the yearly averages of employment (for hotels of 25 or more guest rooms), are based on figures for the months of April, July, October, and December, although the published pay-roll totals are on an annual basis. The census reports for 1935, however, show, in addition to the above, employment data for the 12 months of 1935 for all year-round hotels, from which it was possible to estimate values for the missing months in 1935.

TABLE 7.—*Indexes of Employment and Pay Rolls in Specified Nonmanufacturing Industries, by Months, January 1929 to January 1938*

ANTHRACITE MINING

[Adjusted to conform with Census of Mines data for 1929 and 1935. 1929=100]

Month	Employment									
	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
January.....	105.4	102.9	93.4	81.0	59.3	73.0	73.8	71.3	65.2	59.6
February.....	105.7	107.9	92.5	76.2	65.7	72.2	75.5	73.8	63.6	-----
March.....	97.7	83.7	85.1	78.9	61.8	76.7	62.6	63.3	59.0	-----
April.....	100.4	85.4	88.5	75.4	58.9	67.6	63.9	60.1	65.1	-----
May.....	103.5	95.3	83.8	72.4	50.7	73.3	65.0	66.2	61.5	-----
June.....	92.8	92.4	79.7	58.7	47.2	67.2	68.4	61.7	61.6	-----
July.....	83.1	93.4	68.9	50.3	51.7	63.5	61.0	58.4	54.3	-----
August.....	91.1	82.2	71.3	55.2	55.7	59.5	50.4	49.6	49.7	-----
September.....	102.1	95.9	84.2	62.0	65.0	67.1	57.8	57.4	58.1	-----
October.....	106.4	101.3	91.1	70.2	65.3	68.9	70.6	60.2	61.5	-----
November.....	104.4	99.7	88.0	69.2	69.5	71.2	58.4	62.1	60.9	-----
December.....	107.7	101.7	84.5	69.0	63.2	72.3	69.1	66.1	61.4	-----
Average.....	100.0	95.2	84.3	68.2	59.5	69.4	64.7	62.5	60.2	-----
Month	Pay rolls									
	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
January.....	100.6	106.1	90.4	63.5	46.0	76.8	61.9	59.1	46.4	46.5
February.....	122.0	121.9	103.1	59.3	59.7	69.5	68.8	83.3	44.6	-----
March.....	90.7	79.0	72.6	63.3	51.7	86.2	43.5	46.3	41.1	-----
April.....	88.2	75.5	76.6	74.2	40.4	55.5	54.5	31.1	69.4	-----
May.....	98.9	99.4	77.5	60.2	33.1	67.9	54.2	61.2	48.2	-----
June.....	80.6	95.0	68.2	39.7	37.4	57.3	70.7	45.6	55.3	-----
July.....	64.7	84.7	55.3	36.9	41.4	46.3	42.3	40.4	38.2	-----
August.....	78.4	79.6	58.0	43.9	49.9	43.8	33.1	34.1	29.6	-----
September.....	103.9	92.5	66.6	49.5	64.0	51.2	43.0	37.9	34.2	-----
October.....	134.0	118.1	92.9	69.3	65.0	52.5	60.7	52.7	55.4	-----
November.....	100.7	99.0	81.3	53.7	51.3	55.5	33.2	43.8	49.0	-----
December.....	137.5	101.1	80.3	58.9	47.9	56.7	60.2	60.2	51.3	-----
Average.....	100.0	96.0	76.9	56.0	49.0	59.9	52.2	49.6	46.9	-----

TABLE 7.—*Indexes of Employment and Pay Rolls in Specified Nonmanufacturing Industries, by Months, January 1929 to January 1938—Continued*

## BITUMINOUS-COAL MINING

Month	Employment									
	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
January.....	105.8	103.7	98.2	88.2	80.3	89.4	97.6	98.5	104.5	96.8
February.....	107.1	103.9	96.1	85.1	80.1	90.0	98.9	99.1	104.7	-----
March.....	106.3	100.3	93.6	83.1	78.7	92.0	99.5	99.3	106.1	-----
April.....	99.8	96.4	91.0	73.7	75.0	86.5	92.3	95.6	89.7	-----
May.....	96.3	92.6	87.8	71.1	72.8	91.3	93.5	94.2	96.1	-----
June.....	94.5	90.9	84.0	69.2	73.1	91.6	96.3	93.4	96.2	-----
July.....	93.9	90.8	82.3	67.6	75.3	92.1	88.3	93.2	93.7	-----
August.....	95.8	92.2	83.1	68.6	80.9	92.9	91.8	94.9	97.4	-----
September.....	97.5	93.8	86.8	71.9	84.4	93.9	95.6	96.5	99.4	-----
October.....	99.3	95.3	87.9	76.8	80.9	95.4	92.4	100.2	102.4	-----
November.....	101.6	96.3	88.0	79.4	87.9	96.1	94.6	101.7	101.4	-----
December.....	102.2	96.6	88.4	80.3	88.8	96.4	97.6	103.6	99.4	-----
Average.....	100.0	96.1	88.9	76.3	79.9	92.3	94.9	97.5	99.3	-----
Month	Pay rolls									
	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
January.....	105.7	102.2	76.1	51.7	42.8	60.0	71.1	83.3	93.6	70.2
February.....	116.2	103.0	71.2	51.9	44.1	63.7	77.8	92.1	96.4	-----
March.....	108.3	87.5	68.3	51.9	37.8	68.1	79.2	91.7	103.5	-----
April.....	89.0	83.0	61.9	39.1	33.8	59.3	56.6	72.9	63.6	-----
May.....	91.7	78.9	57.8	36.1	34.3	64.0	60.9	72.5	79.4	-----
June.....	89.9	77.2	56.0	32.9	36.8	64.8	76.9	71.5	83.3	-----
July.....	85.5	70.7	54.1	30.1	41.3	59.7	47.6	72.8	77.7	-----
August.....	92.8	73.0	54.5	32.3	51.2	60.8	57.7	76.3	86.3	-----
September.....	98.8	77.0	57.7	36.3	52.1	61.8	72.2	83.0	90.9	-----
October.....	107.1	81.7	60.4	44.0	52.3	68.4	81.7	92.6	100.7	-----
November.....	106.3	81.5	59.0	44.4	59.1	69.4	77.9	94.4	91.1	-----
December.....	108.7	80.3	56.9	44.3	59.3	68.2	81.8	99.5	95.1	-----
Average.....	100.0	83.0	61.2	41.3	45.4	64.0	70.1	82.7	88.5	-----

## LAUNDRIES

Month	Employment									
	1929 <sup>1</sup>	1930 <sup>1</sup>	1931	1932	1933	1934	1935	1936	1937	1938
January.....	-----	-----	93.9	89.1	81.8	84.1	87.5	90.5	98.3	96.7
February.....	-----	-----	93.3	87.4	80.9	84.2	87.7	90.2	98.4	-----
March.....	-----	-----	92.9	86.7	79.7	85.1	88.0	91.2	98.5	-----
April.....	-----	-----	94.0	86.9	80.3	86.6	88.4	92.4	98.3	-----
May.....	-----	-----	93.9	86.5	80.6	88.4	89.6	95.0	100.3	-----
June.....	-----	-----	94.6	86.3	83.4	90.5	91.0	96.9	103.9	-----
July.....	-----	-----	95.5	85.7	83.9	91.3	93.2	100.5	105.8	-----
August.....	-----	-----	94.1	84.5	85.7	90.6	93.0	99.5	104.7	-----
September.....	-----	-----	93.2	84.4	87.4	90.0	91.9	99.5	104.1	-----
October.....	-----	-----	92.1	83.4	86.3	89.0	90.8	97.3	99.9	-----
November.....	-----	-----	90.3	82.2	83.6	87.8	90.3	96.7	97.8	-----
December.....	-----	-----	89.5	82.1	83.8	87.2	90.1	97.3	97.0	-----
Average.....	100.0	-----	93.1	85.4	83.1	87.9	90.1	95.6	100.6	-----
Month	Pay rolls									
	1929 <sup>1</sup>	1930 <sup>1</sup>	1931	1932	1933	1934	1935	1936	1937	1938
January.....	-----	-----	90.6	80.2	61.3	62.7	65.3	69.9	78.2	80.1
February.....	-----	-----	89.5	76.9	58.7	62.7	65.5	69.4	78.1	-----
March.....	-----	-----	89.5	75.2	56.0	63.7	66.0	71.6	79.3	-----
April.....	-----	-----	90.9	75.0	57.3	65.5	67.0	72.6	80.4	-----
May.....	-----	-----	90.5	74.2	57.8	68.0	68.1	77.4	83.3	-----
June.....	-----	-----	91.2	72.1	60.1	69.4	69.7	77.6	87.5	-----
July.....	-----	-----	91.5	69.8	59.5	69.4	72.4	80.9	89.0	-----
August.....	-----	-----	88.6	67.3	61.1	67.8	70.7	78.5	88.0	-----
September.....	-----	-----	88.0	66.2	64.3	67.1	69.5	78.4	86.4	-----
October.....	-----	-----	85.7	64.6	63.4	66.1	68.7	77.1	83.4	-----
November.....	-----	-----	82.7	62.4	61.6	65.0	68.3	76.3	81.1	-----
December.....	-----	-----	81.1	61.9	62.0	64.6	69.1	77.9	81.1	-----
Average.....	100.0	-----	88.3	70.5	60.3	66.0	68.4	75.6	83.0	-----

<sup>1</sup> Data not available.

TABLE 7.—*Indexes of Employment and Pay Rolls in Specified Nonmanufacturing Industries, by Months, January 1929 to January 1938—Continued*

## DYEING AND CLEANING

Month	Employment									
	1929 <sup>1</sup>	1930 <sup>1</sup>	1931	1932	1933	1934	1935	1936	1937	1938
January.....			81.3	77.9	75.0	81.2	88.8	92.0	98.8	96.7
February.....			79.9	77.0	73.6	81.6	88.6	90.4	98.0	
March.....			80.5	77.4	74.3	86.4	91.9	96.1	104.3	
April.....			87.7	80.4	83.9	94.3	99.7	105.2	109.2	
May.....			88.7	81.9	85.1	99.2	101.0	112.3	113.9	
June.....			91.0	83.0	89.0	100.2	104.0	112.5	118.5	
July.....			91.0	81.0	86.9	96.3	102.3	110.0	111.0	
August.....			86.5	78.7	87.6	94.9	100.2	107.4	110.3	
September.....			88.4	82.7	93.1	96.7	103.0	111.5	112.8	
October.....			87.8	82.2	93.3	97.5	101.4	111.2	110.5	
November.....			84.4	78.7	88.3	93.4	97.3	104.6	103.5	
December.....			80.1	76.6	83.1	90.5	94.4	99.9	99.2	
Average.....	100.0		85.6	79.8	84.4	92.7	97.7	104.4	107.5	
Month	Pay rolls									
	1929 <sup>1</sup>	1930 <sup>1</sup>	1931	1932	1933	1934	1935	1936	1937	1938
January.....			73.4	63.3	47.4	52.2	58.1	60.1	64.7	65.3
February.....			70.9	60.1	43.5	51.9	57.7	57.1	63.6	
March.....			71.4	59.8	42.4	57.5	61.6	65.7	71.8	
April.....			81.6	64.0	55.4	66.8	70.1	74.6	80.1	
May.....			81.9	65.4	54.9	71.3	70.0	84.1	86.1	
June.....			84.3	64.2	57.8	70.5	74.2	80.6	92.2	
July.....			81.7	58.9	54.3	65.5	70.1	75.5	79.5	
August.....			76.0	55.6	54.5	63.5	66.8	73.6	81.3	
September.....			78.5	60.3	61.8	65.9	71.8	77.0	85.7	
October.....			77.5	58.4	62.3	66.2	69.8	77.7	83.6	
November.....			71.3	52.4	57.6	61.2	64.1	70.1	73.7	
December.....			65.1	48.9	52.5	58.6	61.6	66.7	68.6	
Average.....	100.0		76.1	59.3	53.7	62.6	66.3	71.9	77.6	

## YEAR-ROUND HOTELS

Month	Employment									
	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
January.....	97.8	99.7	90.5	78.8	68.7	77.6	85.5	89.0	92.9	94.3
February.....	99.5	101.1	90.4	78.6	68.4	80.4	86.6	90.0	93.9	
March.....	100.2	99.9	90.2	78.5	66.9	82.2	86.6	90.0	94.4	
April.....	99.9	98.5	90.0	77.9	66.9	83.7	87.2	90.4	96.1	
May.....	99.9	98.2	88.9	76.2	67.9	84.3	87.9	91.4	95.3	
June.....	100.1	97.3	87.0	74.0	69.2	84.7	87.8	91.2	94.4	
July.....	99.7	96.1	85.7	72.0	69.4	83.6	87.0	90.5	93.6	
August.....	100.5	95.2	84.2	70.7	70.3	83.5	87.5	90.4	94.3	
September.....	101.5	94.6	84.2	70.8	72.5	83.8	88.0	91.5	95.7	
October.....	101.2	94.6	83.5	71.4	73.3	85.1	88.6	92.8	96.9	
November.....	101.2	92.2	81.5	70.6	72.9	85.1	88.5	91.9	96.6	
December.....	98.4	90.1	79.5	69.4	74.7	84.8	87.8	91.3	94.9	
Average.....	100.0	96.5	86.3	74.1	70.1	83.2	87.4	90.9	94.9	
Month	Pay rolls									
	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
January.....	98.7	99.8	87.8	70.5	52.1	58.1	66.1	70.3	76.2	81.5
February.....	101.4	102.7	89.0	69.5	51.9	62.0	67.6	72.0	78.5	
March.....	102.4	102.5	88.6	68.1	49.6	63.6	68.3	71.4	78.7	
April.....	100.6	99.2	86.0	66.1	48.1	64.3	68.2	71.8	80.7	
May.....	100.1	98.8	85.1	64.2	48.8	64.8	68.4	72.5	79.7	
June.....	99.2	97.7	82.2	61.0	49.2	65.0	68.4	72.1	80.1	
July.....	99.1	95.9	79.9	57.5	49.2	63.9	67.1	71.4	79.4	
August.....	97.8	94.1	77.5	54.9	49.5	62.8	67.1	71.6	80.5	
September.....	99.2	93.1	77.1	54.9	51.6	63.9	68.3	73.1	82.4	
October.....	101.0	93.4	76.7	55.8	53.6	65.8	69.5	73.3	84.1	
November.....	100.9	91.4	74.5	54.9	53.1	65.8	70.1	75.3	84.3	
December.....	99.7	89.1	72.6	53.9	55.5	68.8	69.5	75.6	82.6	
Average.....	100.0	96.5	81.4	60.9	51.0	63.8	68.2	72.7	80.6	

<sup>1</sup> Data not available.

## TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in December 1937 and January 1938, is shown in table 8 for all groups combined, and for all manufacturing industries combined based on data supplied by reporting establishments. The percentage changes shown, unless otherwise noted, are unweighted—that is, the industries included in the manufacturing group and in the grand total have not been weighted according to their relative importance.

The totals for all manufacturing industries combined include figures for miscellaneous manufacturing industries in addition to the 89 manufacturing industries presented in table 4. The totals for all groups combined include all manufacturing industries, each of the nonmanufacturing industries presented in table 4 (except building construction), and seasonal hotels.

TABLE 8.—*Comparison of Employment and Pay Rolls in Identical Establishments in December 1937 and January 1938, by Geographic Divisions and by States*

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

Geographic division and State	Total—All groups					Manufacturing				
	Number of establishments	Number on pay roll January 1938	Percentage change from December 1937	Amount of pay roll (1 week) January 1938	Percentage change from December 1937	Number of establishments	Number on pay roll January 1938	Percentage change from December 1937	Amount of pay roll (1 week) January 1938	Percentage change from December 1937
				<i>Dollars</i>					<i>Dollars</i>	
<b>New England.....</b>	<b>13, 150</b>	<b>791, 489</b>	<b>-4.6</b>	<b>17, 122, 221</b>	<b>-5.9</b>	<b>3, 547</b>	<b>537, 025</b>	<b>-3.8</b>	<b>10, 919, 002</b>	<b>-6.5</b>
Maine.....	730	47, 120	-2.5	923, 067	-1.3	285	39, 047	-8	742, 447	-1
New Hampshire.....	561	32, 774	+1.9	598, 206	+1.1	203	27, 597	+3.3	484, 068	+2.4
Vermont.....	418	13, 323	-6.3	267, 046	-10.0	147	8, 697	-5.9	168, 387	-12.0
Massachusetts.....	<i>18, 256</i>	<i>444, 435</i>	<i>-3.1</i>	<i>10, 050, 463</i>	<i>-4.5</i>	<i>1, 747</i>	<i>249, 455</i>	<i>-2.6</i>	<i>5, 212, 708</i>	<i>-4.8</i>
Rhode Island.....	873	73, 630	-7.4	1, 516, 259	-6.5	415	60, 062	-6.2	1, 181, 210	-6.5
Connecticut.....	2, 312	180, 207	-7.0	3, 767, 180	-10.8	750	152, 187	-6.6	3, 130, 182	-11.5
<b>Middle Atlantic.....</b>	<b>30, 149</b>	<b>1, 939, 000</b>	<b>-7.8</b>	<b>48, 462, 629</b>	<b>-9.6</b>	<b>5, 442</b>	<b>1, 121, 935</b>	<b>-6.0</b>	<b>28, 421, 443</b>	<b>-9.1</b>
New York.....	19, 502	862, 607	-8.7	23, 657, 952	-7.8	<i>2, 283</i>	<i>404, 580</i>	<i>-5.7</i>	<i>10, 500, 018</i>	<i>-7.2</i>
New Jersey.....	3, 616	307, 597	-7.1	7, 658, 548	-7.4	<i>382</i>	<i>254, 706</i>	<i>-5.0</i>	<i>5, 789, 705</i>	<i>-6.7</i>
Pennsylvania.....	7, 031	768, 796	-7.0	17, 146, 129	-12.8	<i>2, 827</i>	<i>482, 709</i>	<i>-6.6</i>	<i>10, 131, 720</i>	<i>-11.5</i>
<b>East North Central.....</b>	<b>23, 144</b>	<b>1, 951, 525</b>	<b>-11.3</b>	<b>46, 717, 578</b>	<b>-15.7</b>	<b>8, 328</b>	<b>1, 466, 671</b>	<b>-12.1</b>	<b>34, 358, 288</b>	<b>-19.0</b>
Ohio.....	7, 095	528, 836	-11.2	12, 068, 848	-16.9	2, 529	390, 848	-10.5	8, 861, 213	-17.8
Indiana.....	<i>2, 432</i>	<i>222, 593</i>	<i>-12.0</i>	<i>4, 759, 426</i>	<i>-18.6</i>	<i>916</i>	<i>178, 803</i>	<i>-11.2</i>	<i>3, 752, 821</i>	<i>-20.0</i>
Illinois.....	<i>56, 125</i>	<i>569, 973</i>	<i>-7.1</i>	<i>14, 512, 862</i>	<i>-8.5</i>	<i>2, 412</i>	<i>392, 601</i>	<i>-6.1</i>	<i>9, 768, 185</i>	<i>-8.5</i>
Michigan.....	3, 664	409, 337	-17.7	10, 116, 326	-24.4	<i>986</i>	<i>349, 989</i>	<i>-21.7</i>	<i>8, 316, 143</i>	<i>-31.8</i>
Wisconsin.....	<i>8, 828</i>	<i>220, 786</i>	<i>-8.4</i>	<i>5, 260, 114</i>	<i>-9.8</i>	<i>1, 455</i>	<i>154, 470</i>	<i>-6.7</i>	<i>3, 659, 916</i>	<i>-9.9</i>
<b>West North Central.....</b>	<b>10, 789</b>	<b>392, 322</b>	<b>-6.0</b>	<b>9, 009, 086</b>	<b>-5.3</b>	<b>2, 373</b>	<b>197, 372</b>	<b>-3.9</b>	<b>4, 664, 062</b>	<b>-3.5</b>
Minnesota.....	2, 074	76, 975	-8.2	1, 950, 658	-8.4	426	38, 197	-4.1	934, 376	-6.4
Iowa.....	1, 721	59, 560	-3.5	1, 371, 481	-3.8	398	35, 529	-1.2	851, 251	-2.3
Missouri.....	2, 784	153, 326	-6.1	3, 505, 910	-4.9	853	85, 630	-4.7	1, 842, 141	-2.9
North Dakota.....	503	4, 559	-5.9	109, 369	-6.1	55	6, 627	-4.0	18, 165	-3.6
South Dakota.....	446	7, 443	-1.8	194, 464	-2.3	37	2, 219	— <sup>(c)</sup>	59, 469	-8
Nebraska.....	1, 205	28, 354	-8.4	652, 499	-6.4	152	10, 296	-11.9	265, 549	-7.7
Kansas.....	<i>9, 056</i>	<i>52, 105</i>	<i>-8.5</i>	<i>1, 224, 705</i>	<i>-5.1</i>	<i>452</i>	<i>24, 874</i>	<i>-1.2</i>	<i>643, 111</i>	<i>-6</i>
<b>South Atlantic.....</b>	<b>10, 111</b>	<b>779, 375</b>	<b>-5.8</b>	<b>13, 897, 683</b>	<b>-11.2</b>	<b>2, 795</b>	<b>530, 427</b>	<b>-4.5</b>	<b>8, 656, 392</b>	<b>-9.0</b>
Delaware.....	205	13, 237	-6.4	312, 475	-8.6	86	10, 384	-5.2	244, 616	-8.8
Maryland.....	<i>1, 593</i>	<i>124, 098</i>	<i>-8.0</i>	<i>2, 787, 843</i>	<i>-9.4</i>	<i>604</i>	<i>84, 515</i>	<i>-5.0</i>	<i>1, 807, 729</i>	<i>-7.8</i>
District of Columbia.....	1, 056	36, 339	-12.9	954, 927	-8.9	38	3, 183	-4.7	105, 791	-7.8

See footnotes at end of table.

TABLE 8.—Comparison of Employment and Pay Rolls in Identical Establishments in December 1937 and January 1938, by Geographic Divisions and by States—Continued

Geographic division and State	Total—All groups					Manufacturing				
	Number of establishments	Number on pay roll January 1938	Percentage change from December 1937	Amount of pay roll (1 week) January 1938	Percentage change from December 1937	Number of establishments	Number on pay roll January 1938	Percentage change from December 1937	Amount of pay roll (1 week) January 1938	Percentage change from December 1937
<b>South Atlantic—Continued</b>				<i>Dollars</i>					<i>Dollars</i>	
Virginia.....	1,998	106,145	-5.9	1,908,061	-8.6	464	76,370	-3.7	1,367,307	-6.9
West Virginia.....	1,127	133,758	-7.9	2,751,492	-22.6	252	49,214	-11.7	1,011,911	-19.5
North Carolina.....	1,249	145,359	-2.7	2,057,792	-4.3	565	135,495	-1.6	1,896,578	-3.9
South Carolina.....	687	74,945	-1.9	977,832	-5.4	215	68,389	-1.4	868,074	-5.4
Georgia.....	1,272	101,659	-5.5	1,428,382	-9.8	374	82,748	-4.5	1,052,591	-10.5
Florida.....	924	43,835	-3.8	718,879	-6.8	197	20,129	-11.3	301,785	-15.5
<b>East South Central.</b>	<b>3,518</b>	<b>256,787</b>	<b>-7.1</b>	<b>4,259,553</b>	<b>-11.5</b>	<b>1,016</b>	<b>183,328</b>	<b>-7.1</b>	<b>2,634,112</b>	<b>-9.1</b>
Kentucky.....	1,159	77,399	-4.8	1,470,693	-11.9	294	32,514	-4.8	651,219	-3.3
Tennessee.....	1,188	89,345	-7.1	1,425,823	-9.9	379	67,410	-5.9	1,050,941	-9.2
Alabama.....	777	73,832	-9.5	1,140,988	-13.7	246	51,277	-10.5	768,008	-13.9
Mississippi.....	394	16,191	-6.7	222,049	-7.0	97	12,127	-4.5	163,944	-5.2
<b>West South Central.</b>	<b>5,385</b>	<b>210,021</b>	<b>-4.2</b>	<b>4,071,518</b>	<b>-4.5</b>	<b>1,290</b>	<b>101,611</b>	<b>-2.5</b>	<b>2,144,892</b>	<b>-2.6</b>
Arkansas.....	<sup>11</sup> 790	28,660	-5.0	484,326	-5.8	267	16,228	-6.6	270,768	-7.0
Louisiana.....	908	44,455	-3.4	820,254	-3.8	238	26,272	-1.8	438,495	-1.2
Oklahoma.....	1,227	39,119	-2.9	954,925	-3.1	141	11,762	-1.1	287,129	+2.1
Texas.....	<sup>12</sup> 2,460	97,947	-4.9	2,412,014	-5.1	654	46,649	-2.4	1,148,610	-3.2
<b>Mountain.</b>	<b>3,977</b>	<b>119,353</b>	<b>-12.1</b>	<b>3,015,011</b>	<b>-14.2</b>	<b>580</b>	<b>31,618</b>	<b>-24.5</b>	<b>789,402</b>	<b>-22.8</b>
Montana.....	665	17,631	-10.4	518,194	-10.0	86	4,188	-24.9	111,363	-22.1
Idaho.....	442	9,505	-19.4	239,644	-18.1	60	2,035	-46.5	44,242	-43.5
Wyoming.....	301	8,933	-8.6	232,077	-21.3	40	1,622	-25.9	52,115	-22.7
Colorado.....	1,145	40,209	-13.8	971,444	-15.0	186	13,180	-24.5	320,868	-22.6
New Mexico.....	2,85	6,383	-5.0	132,339	-10.1	34	719	-6.5	12,744	-4.1
Arizona.....	436	15,229	-7.8	403,994	-7.6	38	2,823	-7.3	72,055	-5.4
Utah.....	556	18,843	-13.9	446,473	-17.7	117	6,292	-23.4	154,715	-24.5
Nevada.....	147	2,620	-5.1	70,846	-14.6	19	759	-10.0	21,300	-14.0
<b>Pacific.</b>	<b>9,346</b>	<b>394,450</b>	<b>-7.6</b>	<b>10,871,663</b>	<b>-7.5</b>	<b>2,458</b>	<b>203,937</b>	<b>-6.5</b>	<b>5,257,774</b>	<b>-8.5</b>
Washington.....	2,873	81,184	-9.6	2,055,748	-8.2	572	42,258	-8.0	1,011,717	-7.2
Oregon.....	<sup>13</sup> 1,297	42,077	-7.5	1,039,517	-5.2	310	23,598	-7.8	540,452	-5.5
California.....	<sup>13</sup> 5,176	271,189	-6.9	7,776,398	-7.6	1,576	138,081	-6.8	3,705,605	-9.2

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

<sup>2</sup> Includes laundering and cleaning, and water, light, and power.

<sup>3</sup> Includes laundries.

<sup>4</sup> Weighted percentage change.

<sup>5</sup> Includes automobiles, and miscellaneous services, restaurants, and building and contracting.

<sup>6</sup> Includes construction but not public works.

<sup>7</sup> Does not include logging.

<sup>8</sup> Less than 1/10 of 1 percent.

<sup>9</sup> Includes financial institutions, miscellaneous services, and restaurants.

<sup>10</sup> Weighted percentage change including hired farm labor.

<sup>11</sup> Includes automobile dealers and garages, and sand, gravel, and building stone.

<sup>12</sup> Includes business and personal service.

<sup>13</sup> Includes banks, insurance, and office employment.

## INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in December 1937 and January 1938 is made in table 9 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 the manufacturing and nonmanufacturing industries presented in table 4, with the exception of building construction, and include also miscellaneous industries.

**TABLE 9.—Comparison of Employment and Pay Rolls in Identical Establishments in December 1937 and January 1938, by Principal Metropolitan Areas**

Metropolitan area	Number of establishments	Number on pay-roll January 1938	Percentage change from December 1937	Amount of pay roll (1 week) January 1938	Percentage change from December 1937
New York <sup>1</sup> .....	13, 908	569, 631	-8. 9	\$15, 034, 181	-7. 9
Chicago <sup>2</sup> .....	4, 299	443, 205	-5. 7	11, 869, 653	-6. 6
Philadelphia <sup>3</sup> .....	1, 936	181, 755	-6. 3	4, 721, 939	-9. 3
Detroit, Mich.....	1, 583	255, 056	-19. 0	6, 752, 747	-26. 4
Los Angeles <sup>4</sup> .....	2, 640	142, 988	-7. 2	3, 929, 592	-7. 0
Cleveland, Ohio.....	1, 672	117, 869	-12. 2	2, 810, 092	-15. 1
St. Louis, Mo.....	1, 443	117, 819	-7. 4	2, 751, 351	-6. 2
Baltimore, Md.....	1, 130	95, 279	-8. 9	2, 146, 097	-9. 9
Boston <sup>5</sup> .....	1, 660	103, 713	-8. 8	2, 759, 983	-7. 1
Pittsburgh, Pa.....	1, 033	184, 615	-7. 8	4, 018, 121	-16. 8
San Francisco <sup>6</sup> .....	1, 555	78, 445	-7. 8	2, 263, 479	-8. 9
Buffalo, N. Y.....	769	52, 632	-9. 2	1, 380, 620	-8. 1
Milwaukee, Wis.....	1, 068	95, 798	-8. 5	2, 448, 583	-11. 7

<sup>1</sup> Does not include Elizabeth, Jersey City, Newark, or Paterson, N. J.; nor Yonkers, N. Y.

<sup>2</sup> Does not include Gary, Ind.

<sup>3</sup> Does not include Camden, N. J.

<sup>4</sup> Does not include Long Beach, Calif.

<sup>5</sup> Figures relate to city of Boston only.

<sup>6</sup> 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 Administration 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 work to be carried out by 61 units of the Federal Government. The Works Program was continued by

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

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 December 1937 and January 1938 are given in table 10.

TABLE 10.—*Employment and Pay Rolls for the Executive Service of the U. S. Government, December 1937 and January 1938*<sup>1</sup>

[Subject to revision]

Item	Employment		Per-centage change	Pay Rolls		Per-centage change
	January 1938	December 1937 <sup>2</sup>		January 1938	December 1937 <sup>2</sup>	
Entire service:						
Total.....	811, 481	890, 603	-8.9	\$122, 861, 647	\$137, 345, 103	-10.5
Regular appropriation.....	686, 973	758, 695	-9.5	107, 029, 046	120, 521, 886	-11.2
Emergency appropriation.....	60, 741	63, 579	-4.5	8, 162, 948	8, 616, 099	-5.3
Force-account (regular and emergency).....	63, 767	68, 329	-6.7	7, 669, 653	8, 207, 118	-6.5
Inside the District of Columbia:						
Total.....	113, 338	114, 398	-.9	19, 948, 315	20, 225, 313	-1.4
Regular appropriation.....	93, 707	94, 125	-.4	16, 980, 052	17, 168, 492	-1.1
Emergency appropriation.....	13, 877	14, 539	-4.6	2, 109, 574	2, 167, 090	-2.7
Force-account (regular and emergency).....	5, 754	5, 734	+ .3	858, 689	889, 731	-3.5
Outside the District of Columbia:						
Total.....	698, 143	776, 205	-10.1	102, 913, 332	117, 119, 790	-12.1
Regular appropriation.....	593, 266	664, 570	-10.7	90, 048, 994	103, 353, 394	-12.9
Emergency appropriation.....	46, 864	49, 040	-4.4	6, 053, 374	6, 449, 009	-6.1
Force-account (regular and emergency).....	58, 013	62, 595	-7.3	6, 810, 964	7, 317, 387	-6.9

<sup>1</sup> Data includes number of employees receiving pay during the last pay period of the month.

<sup>2</sup> Revised.



The monthly record of employment in the executive service of the United States Government from January 1937 to January 1938, inclusive, is shown in table 11.

**TABLE 11.—Employment in the Executive Service of the U. S. Government, by Months, January 1937 Through January 1938 <sup>1</sup>**

[Subject to revision]

Month	District of Columbia	Outside District of Columbia	Total	Month	District of Columbia	Outside District of Columbia	Total
<i>1937</i>				<i>1937—Continued</i>			
January.....	116, 259	713, 924	830, 183	September <sup>1</sup> .....	111, 296	725, 588	836, 884
February.....	116, 259	710, 462	826, 721	October <sup>1</sup> .....	110, 809	717, 993	828, 802
March.....	116, 535	713, 047	829, 582	November <sup>1</sup> .....	112, 166	709, 420	821, 586
April.....	116, 755	718, 884	835, 639	December <sup>1</sup> .....	114, 398	776, 205	890, 603
May.....	116, 274	724, 247	840, 521				
June <sup>1</sup> .....	111, 981	758, 841	870, 822	<i>1938</i>			
July <sup>1</sup> .....	110, 942	738, 428	849, 370	January.....	113, 338	698, 143	811, 481
August <sup>2</sup> .....	111, 301	731, 830	843, 131				

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

<sup>2</sup> Revised.

## CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

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

**TABLE 12.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, January 1938 <sup>1</sup>**

[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 <sup>1</sup>	Weekly average				
Federal projects financed from N. I. R. A. funds						
All projects.....	\$ 15, 015	13, 696	\$1, 479, 288	1, 910, 952	\$0. 774	\$993, 293
Building construction.....	2, 684	2, 201	295, 480	263, 403	1. 122	420, 511
Naval vessels.....	3, 685	3, 374	479, 936	586, 219	. 819	121, 570
Public roads <sup>2</sup> .....	( <sup>3</sup> )	4, 504	273, 572	553, 118	. 495	220, 000
Reclamation.....	1, 869	1, 638	232, 742	279, 779	. 832	162, 040
River, harbor, and flood control.....	2, 032	1, 771	175, 127	204, 004	. 858	59, 276
Miscellaneous.....	241	208	22, 431	24, 429	. 918	9, 896
Non-Federal projects financed from N. I. R. A. funds						
All projects.....	13, 743	11, 433	\$1, 180, 902	1, 203, 273	\$0. 981	\$2, 588, 286
Building construction.....	5, 883	4, 980	565, 888	500, 921	1. 130	876, 107
Railroad construction.....	11	11	23	46	. 500	0
Streets and roads.....	718	585	36, 453	48, 033	. 759	45, 466
Water and sewerage.....	5, 498	4, 605	491, 335	517, 083	. 950	1, 472, 864
Miscellaneous.....	1, 633	1, 252	87, 203	137, 190	. 636	193, 849

See footnotes at end of table.

TABLE 12.—*Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, January 1938—Continued*

Type of project	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed	Weekly average				
	Projects financed from E. R. A. A. 1935, 1936, and 1937 funds <sup>a</sup>					
All projects <sup>7</sup> .....	67, 967	55, 056	\$5, 176, 438	6, 178, 815	\$0. 838	\$11, 361, 854
Building construction <sup>7</sup> .....	38, 146	30, 429	2, 878, 520	3, 170, 923	. 908	6, 140, 264
Electrification.....	504	417	29, 897	34, 730	. 861	301, 524
Heavy engineering.....	4, 567	3, 913	434, 513	555, 326	. 782	1, 067, 415
Reclamation.....	675	635	91, 358	110, 446	. 827	47, 203
River, harbor, and flood control.....	47	40	2, 097	2, 270	. 924	15, 066
Streets and roads.....	10, 624	8, 443	596, 936	959, 913	. 622	1, 272, 560
Water and sewerage.....	12, 382	10, 239	1, 038, 939	1, 226, 178	. 847	2, 280, 087
Miscellaneous.....	1, 072	940	104, 178	119, 029	. 875	237, 735

<sup>1</sup> Data are for the month ending on the 15th.<sup>2</sup> Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.<sup>3</sup> Includes weekly average for public roads.<sup>4</sup> Under the jurisdiction of the Bureau of Public Roads.<sup>5</sup> Not available; weekly average included in total for all projects.<sup>6</sup> These data are also included in separate tables covering projects financed by The Works Program.<sup>7</sup> Includes a maximum of 5,162 and an average of 4,158 employees working on low-cost housing projects financed from E. R. A. A. 1935 funds who were paid \$563,940 for 526,109 man-hours of labor. Material orders in the amount of \$463,440 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 12 and 13 are financed by allotments made by the Public Works Administration to the various agencies and departments of the Federal Government from funds provided under the National Industrial Recovery Act. The major portion of the low-cost housing program now under way, however, is financed by funds provided under the Emergency Relief Appropriation Act of 1935. The work is performed either by commercial firms which have been awarded contracts, or by day labor hired directly by the Federal agencies.

Non-Federal projects are financed by allotments made by the Public Works Administration from funds available under either the National Industrial Recovery Act, the Emergency Relief Appropriation Act of 1935, the First Deficiency Appropriation Act of 1936, or the Public Works Administration Extension Act of 1937. Most of the allotments have been made to the States and their political subdivisions, but occasionally allotments have been made to commercial firms. In financing projects for the States or their political subdivisions from funds appropriated under the National Industrial Recovery Act, the Public Works Administration makes a direct grant of not more than 30 percent of the total labor and material cost. When funds provided under the Emergency Relief Appropriation Act of 1935, the First Deficiency Appropriation Act of 1936, or the Public Works Administration Extension Act of 1937 are used to finance a non-Federal project, as much as 45 percent of the total cost may be furnished in the form of a grant. The remaining 55 percent or more

of the cost is financed by the recipient. When circumstances justify such action, the Public Works Administration may provide the grantee with the additional funds by means of a loan. Allotments to commercial enterprises are made only as loans. All loans made by the Public Works Administration carry interest charges and have a definite date of maturity. Collateral posted with the Public Works Administration to secure loans may be offered for sale to the public. In this way a revolving fund is provided which enlarges the scope of the activities of the Public Works Administration.

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

#### MONTHLY TREND

A summary of employment, pay rolls, and man-hours worked on projects financed from Public Works Administration funds from July 1933 to January 1938, inclusive, is given in table 13.

**TABLE 13.—Employment and Pay Rolls, July 1933 to January 1938, Inclusive, on Projects Financed From Public Works Administration Funds <sup>1</sup>**

[Subject to revision]

Year and month	Maximum number of wage earners <sup>2</sup>	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
July 1933 to January 1938 <sup>3</sup> .....	-----	\$1, 060, 307, 639	1, 547, 154, 280	\$0. 685	<sup>4</sup> \$1, 848, 112, 406
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	<sup>4</sup> \$ 610, 065, 389
January to December 1935 <sup>3</sup> .....	-----	270, 548, 829	392, 127, 344	. 690	<sup>5</sup> 439, 244, 485
January to December 1936 <sup>3</sup> .....	-----	271, 331, 937	353, 259, 435	. 768	<sup>5</sup> 432, 513, 423
<i>1937 <sup>3</sup></i>					
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.....	192, 201	15, 242, 390	19, 063, 352	. 799	26, 135, 173
May.....	206, 019	15, 850, 554	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, 466	19, 115, 326	. 807	25, 714, 152
September.....	166, 958	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
December.....	104, 718	8, 989, 667	10, 487, 849	. 857	13, 453, 492
<i>1938 <sup>3</sup></i>					
January.....	96, 725	7, 836, 628	9, 293, 040	. 843	14, 943, 433

<sup>1</sup> Data are for the month ending on the 15th.

<sup>2</sup> 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.

<sup>3</sup> 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. Beginning with November 1937 data were included on projects financed from E. R. A. A. 1937 funds. These data are also included in tables 14 and 16 covering projects financed by The Works Program. January figures include a maximum of 67,967 employees and a pay roll of \$5,176,438.

<sup>4</sup> Revised.

<sup>5</sup> 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 January is shown in table 14, by type of project.

TABLE 14.—*Employment and Pay Rolls, on Projects Financed by The Works Program January 1938*<sup>1</sup>

[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.....	2 157,827	141,359	\$7,973,494	15,721,606	\$0.507	\$3,599,854
Building construction.....	41,980	37,471	2,295,417	3,966,810	.579	650,633
Electrification.....	417	352	31,448	50,917	.618	31,641
Forestry 3.....	8,262	7,186	352,645	841,748	.419	40,423
Grade-crossing elimination 4.....	6,732	5,300	375,203	621,454	.604	678,027
Hydroelectric power plants 5.....	2,757	2,473	69,190	295,232	.234	141,382
Plant, crop, and livestock conservation 3.....	13,126	10,784	560,813	1,344,502	.417	108,278
Professional, technical, and clerical.....	5,623	5,606	424,921	621,001	.684	87,265
Public roads 4.....	6,177	4,731	319,780	533,069	.600	525,317
Reclamation.....	39,889	37,831	2,322,284	4,563,097	.509	1,025,885
River, harbor, and flood control.....	15,160	13,924	822,833	1,315,545	.625	182,035
Street and roads.....	8,876	7,675	267,048	853,083	.313	83,679
Water and sewerage.....	513	450	20,298	58,630	.346	13,788
Miscellaneous.....	8,315	7,576	111,614	656,518	.170	31,501
P. W. A. projects financed from E. R. A. A. funds of 1935, 1936, and 1937 6						
All projects.....	2 67,967	55,056	\$5,176,438	6,178,815	\$0.838	\$11,361,854
Building construction.....	38,146	30,429	2,878,520	3,170,923	.908	6,140,264
Electrification.....	504	417	29,897	34,730	.861	301,524
Heavy engineering.....	4,567	3,913	434,513	555,326	.782	1,067,415
Reclamation.....	675	635	91,358	110,446	.827	47,203
River, harbor, and flood control.....	47	40	2,097	2,270	.924	15,066
Streets and roads.....	10,624	8,443	506,936	959,913	.622	1,272,500
Water and sewerage.....	12,382	10,239	1,038,939	1,226,178	.847	2,280,087
Miscellaneous.....	1,022	940	104,178	119,029	.875	237,735
Projects operated by Works Progress Administration 7						
All projects.....	\$1,898,162	-----	\$92,960,662	182,776,459	\$0.509	(9)

<sup>1</sup> Unless otherwise noted data are for the month ending on the 15th.

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

<sup>3</sup> 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.

<sup>4</sup> These data are for projects operated under the jurisdiction of the Bureau of Public Roads.

<sup>5</sup> These data are for projects under construction in Puerto Rico.

<sup>6</sup> Includes data for 62,805 employees working on non-Federal projects and 5,162 employees working on low-cost housing projects. These data are included in separate tables covering projects under the jurisdiction of P. W. A.

<sup>7</sup> Data are for the calendar month. Not available by type of project.

<sup>8</sup> Represents number of names on pay roll for week ending January 29, 1938.

<sup>9</sup> Data on a monthly basis are not available.

Statistics on employment, pay rolls, and man-hours worked on National Youth Administration work projects and Student Aid in January are shown in table 15, by type of program.

**TABLE 15.—Employment and Pay Rolls on National Youth Administration Projects Financed by The Works Program, January 1938<sup>1</sup>**

[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.....	451, 138	\$4, 542, 724	13, 839, 324	\$0. 328	-----
Work projects.....	144, 797	2, 549, 914	6, 896, 668	.370	( <sup>2</sup> )
Student Aid.....	306, 341	1, 992, 810	6, 942, 656	.287	( <sup>3</sup> )

<sup>1</sup> These data are for the calendar month.

<sup>2</sup> Data not available on a monthly basis.

<sup>3</sup> 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 January 1938, inclusive, are given in table 16.

**TABLE 16.—Employment and Pay Rolls, July 1935 to January 1938, Inclusive, on Projects Financed by The Works Program<sup>1</sup>**

[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
Federal projects					
July 1935 to January 1938, inclusive <sup>2</sup> .....	( <sup>3</sup> )	\$429, 730, 952	904, 016, 370	\$0. 475	\$266, 441, 003
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.....	267, 525	13, 024, 133	27, 260, 313	.478	6, 874, 851
March.....	249, 090	12, 504, 895	25, 066, 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
1938					
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.....	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
December.....	186, 133	10, 173, 186	19, 720, 376	.516	4, 845, 962
January.....	157, 827	7, 973, 494	15, 721, 606	.507	3, 599, 854

See footnotes at end of table.

**TABLE 16.—Employment and Pay Rolls, July 1935 to January 1938, 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
<b>P. W. A. projects financed from E. R. A. A. funds of 1935, 1936, and 1937 <sup>1</sup></b>					
July 1935 to January 1938, inclusive.....	( <sup>2</sup> )	\$237, 709, 871	304, 567, 608	\$0. 780	\$436, 914, 363
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
<b>1937</b>					
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
December.....	70, 228	5, 685, 040	6, 734, 009	. 844	9, 538, 378
<b>1938</b>					
January.....	67, 967	5, 176, 438	6, 178, 815	. 838	11, 361, 854
<b>Projects operated by Works Progress Administration <sup>5</sup></b>					
July 1935 to January 1938, inclusive.....		\$3, 111, 582, 784	6, 482, 588, 379	\$0. 480	<sup>6</sup> \$948,201, 876
July to December 1935.....		238, 018, 075	570, 184, 607	. 417	
January to December 1936.....		1, 592, 942, 964	3, 432, 621, 686	. 464	
<b>1937</b>					
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	
December.....	1, 668, 085	84, 570, 148	162, 858, 030	. 519	
<b>1938</b>					
January.....	1, 898, 162	92, 960, 662	182, 776, 459	. 509	

<sup>1</sup> Unless otherwise noted data are for the month ending on the 15th.

<sup>2</sup> Since in November 1937, some reports were changed to a calendar-month basis, the total includes some data for the period Oct. 16-31, 1937, which are not shown in the monthly figures. These data consist of \$525,799 in pay rolls and 1,260,029 man-hours.

<sup>3</sup> Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.

<sup>4</sup> These data are included in tables covering projects under the jurisdiction of the Public Works Administration. The data for January 1938, include 62,805 employees working on non-Federal projects and 5,162 employees working on low-cost housing projects.

<sup>5</sup> These data are for the calendar month and exclude both work projects and Student Aid projects of the National Youth Administration, which appear in a separate table.

<sup>6</sup> Data on a monthly basis are not available. This total represents expenditures through December 1937, and includes rentals and services and some sponsors' contributions. In the future, data will be presented quarterly.

Table 17 shows the employment, pay rolls, and man-hours worked on work projects of the National Youth Administration from January 1936 to January 1938, inclusive. Similar data for Student Aid are shown from September 1935 to January 1938, inclusive.

**TABLE 17.—Employment and Pay Rolls From Beginning of Program Through January 1938 on National Youth Administration Projects Financed by The Works Program <sup>1</sup>**

[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
<b>Work projects</b>					
January 1936 to January 1938, inclusive.....		\$64,034,863	169,816,818	\$0.377	<sup>2</sup> \$5,549,074
January to December 1933.....		28,883,589	75,827,799	.381	
<i>1937</i>					
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.....	122,827	2,165,339	5,723,700	.378	
November.....	126,852	2,232,473	5,953,231	.375	
December.....	137,929	2,397,423	6,376,430	.376	
<i>1938</i>					
January.....	144,797	2,549,914	6,896,668	.370	
<b>Student Aid</b>					
September 1935 to January 1938, inclusive.....		\$58,233,433	194,736,260	\$0.299	( <sup>3</sup> )
September to December 1935.....		6,363,503	19,612,976	.324	
January to December 1936.....		25,888,559	85,424,616	.303	
<i>1937</i>					
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	
<i>1938</i>					
July <sup>4</sup> .....		141	730	.193	
August.....	35				
September.....	30,879	139,188	555,283	.251	
October.....	237,307	1,549,634	5,388,717	.288	
November.....	283,269	1,976,864	6,838,994	.289	
December.....	288,131	1,839,242	6,699,612	.275	
<i>1938</i>					
January.....	306,341	1,992,810	6,942,656	.287	

<sup>1</sup> Data are for a calendar month.

<sup>2</sup> Data on a monthly basis are not available. This total represents expenditures through December 1937 and includes rentals and services and some sponsors' contributions. In the future, data will be presented quarterly.

<sup>3</sup> No expenditures for materials on this type of project.

<sup>4</sup> No aid given to students during this month.

## CIVILIAN CONSERVATION CORPS

Statistics concerning employment and pay rolls in the Civilian Conservation Corps in December 1937 and January 1938 are presented in table 18. The Civilian Conservation Corps is usually regarded as a part of The Works Program, although it is now financed by a separate appropriation.

TABLE 18.—*Employment and Pay Rolls in the Civilian Conservation Corps, December 1937 and January 1938*<sup>1</sup>

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	January 1938	December 1937	January 1938	December 1937
All groups .....	335, 244	338, 217	\$15, 444, 234	<sup>2</sup> \$15, 824, 325
Enrolled personnel <sup>3</sup> .....	290, 228	291, 656	9, 060, 949	9, 183, 358
Reserve officers .....	5, 289	5, 501	1, 396, 037	1, 470, 721
Nurses <sup>4</sup> .....	282	281	28, 976	29, 365
Educational advisers <sup>4</sup> .....	1, 596	1, 642	254, 987	278, 048
Supervisory and technical <sup>4</sup> .....	37, 849	39, 137	4, 703, 285	4, 862, 833

<sup>1</sup> Date on number of employees refer to employment on last day of month. Amounts of pay rolls are for the entire month.

<sup>2</sup> Revised.

<sup>3</sup> January data include 4,207 enrollees and pay roll of \$89,854; December 4,221 enrollees and pay roll of \$100,631 outside continental United States.

<sup>4</sup> Included in executive service, tables 10 and 11.

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 January 1937 to January 1938, inclusive, are given in table 19.



TABLE 19.—*Employment and Pay Rolls in the Civilian Conservation Corps, by Months, January 1937 Through January 1938*<sup>1</sup>

[Subject to revision]

Month	Number of employees	Monthly pay-roll disbursements	Month	Number of employees	Monthly pay-roll disbursements
<i>1937</i>			<i>1937—Continued</i>		
January.....	407, 723	\$18, 650, 537	September.....	289, 167	\$14, 950, 554
February.....	394, 521	18, 314, 594	October.....	363, 256	15, 622, 911
March.....	307, 336	15, 770, 090	November.....	350, 714	16, 335, 299
April.....	369, 309	17, 502, 905	December.....	338, 217	<sup>2</sup> 15, 824, 325
May.....	348, 905	16, 719, 019			
June.....	323, 626	16, 085, 832	<i>1938</i>		
July.....	348, 779	16, 851, 511	January.....	335, 244	15, 444, 234
August.....	327, 360	16, 380, 024			

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

<sup>2</sup> 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 January are presented in table 20, by type of project.

TABLE 20.—*Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, January 1938*<sup>1</sup>

[Subject to revision]

Type of project	Number of wage earners <sup>2</sup>	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects.....	3, 739	\$549, 058	613, 079	\$0. 896	\$1, 030, 611
Building construction <sup>3</sup> .....	271	22, 361	25, 707	. 870	26, 931
Water and sewerage.....	3, 250	505, 934	556, 976	. 908	997, 155
Miscellaneous.....	218	20, 763	30, 396	. 683	6, 525

<sup>1</sup> Data are for the month ending on the 15th.

<sup>2</sup> Maximum number employed during any 1 week of the month by each contractor.

<sup>3</sup> Includes 113 employees; pay-roll disbursements of \$9,991; 7,884 man-hours worked; and material orders placed during the month of \$21,585 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 April 1934 to January 1938, inclusive, is given in table 21.

TABLE 21.—*Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, April 1934 Through January 1938*<sup>1</sup>

[Subject to revision]

Month	Number of wage earners <sup>2</sup>	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
<i>1934</i>					
April.....	18, 872	\$1, 523, 598	2, 323, 324	\$0. 656	\$2, 357, 379
May.....	19, 513	1, 655, 115	2, 372, 461	. 698	2, 073, 564
June.....	19, 168	1, 677, 042	2, 320, 844	. 723	2, 149, 096
July.....	17, 721	1, 623, 786	2, 169, 357	. 749	2, 235, 925
August.....	17, 491	1, 710, 083	2, 301, 673	. 743	2, 033, 663
September.....	17, 260	1, 667, 983	2, 241, 027	. 744	2, 163, 216
October.....	17, 561	1, 595, 435	2, 168, 069	. 736	1, 835, 658
November.....	16, 753	1, 670, 674	2, 272, 424	. 735	2, 179, 104
December.....	14, 476	1, 328, 825	1, 853, 529	. 717	1, 755, 530
<i>1935</i>					
January.....	11, 848	1, 097, 128	1, 545, 679	. 710	3, 994, 884
February.....	11, 958	1, 140, 814	1, 581, 857	. 721	4, 127, 521
March.....	11, 755	1, 057, 878	1, 486, 649	. 712	1, 117, 867
April.....	12, 811	1, 234, 159	1, 703, 249	. 725	1, 596, 797
May.....	13, 107	1, 335, 269	1, 825, 415	. 731	1, 429, 203
June.....	14, 160	1, 375, 560	1, 881, 011	. 731	4, 023, 752
July.....	10, 553	1, 095, 486	1, 476, 215	. 742	1, 507, 618
August.....	10, 447	1, 140, 224	1, 529, 372	. 746	1, 329, 138
September.....	10, 437	1, 066, 722	1, 403, 765	. 760	1, 025, 379
October.....	11, 625	1, 161, 212	1, 547, 995	. 750	1, 237, 833
November.....	13, 278	1, 333, 500	1, 809, 285	. 737	1, 437, 016
December.....	12, 250	1, 245, 488	1, 686, 881	. 738	1, 489, 744
<i>1936</i>					
January.....	12, 045	1, 230, 015	1, 615, 857	. 761	1, 387, 927
February.....	12, 368	1, 330, 185	1, 767, 761	. 752	1, 619, 293
March.....	12, 567	1, 323, 107	1, 743, 784	. 759	1, 681, 811
April.....	14, 955	1, 607, 736	2, 141, 248	. 751	1, 308, 183
May.....	16, 350	1, 503, 447	2, 020, 521	. 744	1, 516, 658
June.....	12, 916	1, 340, 157	1, 783, 033	. 752	3, 818, 223
July.....	11, 608	1, 244, 358	1, 676, 439	. 742	2, 582, 720
August.....	10, 451	1, 176, 042	1, 591, 396	. 739	1, 405, 739
September.....	11, 185	1, 212, 870	1, 684, 258	. 720	1, 641, 645
October.....	11, 191	1, 233, 994	1, 676, 111	. 736	2, 125, 902
November.....	11, 142	1, 278, 221	1, 744, 721	. 733	3, 219, 109
December.....	10, 370	1, 237, 692	1, 698, 949	. 729	1, 488, 306
<i>1937</i>					
January.....	9, 934	1, 117, 933	1, 526, 695	. 732	2, 541, 231
February.....	9, 223	1, 077, 135	1, 453, 117	. 741	1, 238, 932
March.....	9, 005	1, 067, 392	1, 367, 163	. 781	1, 707, 821
April.....	8, 832	1, 114, 362	1, 402, 443	. 795	1, 072, 462
May.....	7, 482	955, 072	1, 186, 052	. 805	943, 026
June.....	5, 742	778, 429	915, 335	. 850	935, 090
July.....	5, 120	656, 552	761, 321	. 862	656, 049
August.....	4, 743	645, 836	753, 381	. 857	1, 688, 550
September.....	3, 999	527, 076	618, 879	. 852	839, 099
October.....	4, 541	589, 217	691, 767	. 852	952, 408
November.....	4, 565	625, 719	733, 981	. 853	3, 227, 200
December.....	3, 977	554, 040	642, 377	. 862	500, 582
<i>1938</i>					
January.....	3, 739	549, 058	613, 079	. 896	1, 030, 611

<sup>1</sup> Includes projects financed by RFC Mortgage Co. Data are for the month ending on the 15th. Revised from April 1934 through December 1937.

<sup>2</sup> Maximum number employed during any 1 week of the month.

## CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

When a construction contract is awarded or force-account work is started by a Department or agency of the Federal Government, the Bureau of Labor Statistics is immediately notified, on forms supplied by the Bureau, of the name and address of the contractor, the amount of the contract, and the type of work to be performed. Blanks are then mailed by the Bureau to the contractor or Government agency doing the work. These reports are returned to the Bureau and show the number of men on pay rolls, 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 January are given in table 22, by type of project.

**TABLE 22.—Employment on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, January 1938 <sup>1</sup>**  
(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 <sup>2</sup>	Weekly average				
All projects.....	<sup>3</sup> 153,864	141,693	\$15,705,838	21,447,213	\$0.732	\$21,517,638
Building construction:						
Nonresidential.....	18,753	15,370	1,618,837	1,719,550	.941	2,513,776
Residential.....	529	501	29,957	76,156	.393	138,230
Electrification:						
Rural Electrification Administration projects <sup>4</sup> .....	6,695	5,474	416,879	747,357	.558	1,987,867
Other than R. E. A. projects.....	136	91	3,462	5,920	.585	3,719
Forestry.....	244	242	10,456	27,429	.381	3,973
Heavy engineering.....	81	56	10,831	7,275	1.489	1,281
Public roads <sup>5</sup> .....	( <sup>6</sup> )	33,479	2,980,260	5,175,146	.576	4,967,099
Reclamation.....	10,921	10,519	1,301,106	1,614,998	.806	1,140,125
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	27,618	23,226	2,396,111	3,751,700	.639	2,450,087
Locks and dams.....	8,159	7,199	830,839	1,129,664	.735	1,734,249
Ship construction:						
Naval vessels.....	41,628	40,734	5,792,243	6,673,594	.868	6,281,584
Other than naval vessels.....	63	53	9,096	7,951	1.144	1,000
Streets and roads.....	3,532	3,293	201,812	364,469	.554	190,187
Water and sewerage.....	159	120	8,697	9,239	.941	31,268
Miscellaneous.....	1,867	1,336	95,252	136,765	.696	73,193

<sup>1</sup> Data are for the month ending on the 15th.

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

<sup>3</sup> Includes weekly average for public roads.

<sup>4</sup> Financed by Rural Electrification Administration loans.

<sup>5</sup> Under the jurisdiction of the Bureau of Public Roads.

<sup>6</sup> 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 August 1934 to January 1938, inclusive, are shown by months in table 23.

TABLE 23.—*Employment on Construction Projects Financed From Regular Federal Appropriations, August 1934 Through January 1938*<sup>1</sup>

[Subject to revision]

Month and year	Number of wage earners <sup>2</sup>	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
<i>1934</i> <sup>3</sup>					
August.....	8,695	\$566,172	1,085,013	\$0.522	\$479,376
September.....	13,883	731,074	1,298,569	.563	820,404
October.....	21,256	1,038,800	1,844,834	.563	1,344,439
November.....	22,304	1,201,728	2,242,075	.536	3,532,778
December.....	21,940	1,229,628	2,250,960	.546	2,146,697
<i>1935</i> <sup>3</sup>					
January.....	18,332	1,028,221	1,798,750	.572	3,592,180
February.....	17,853	1,000,894	1,728,386	.579	3,012,192
March.....	19,320	1,133,467	1,868,181	.607	3,312,555
April.....	24,739	1,531,692	2,441,807	.627	3,129,055
May.....	28,404	1,900,704	2,910,551	.653	3,170,610
June.....	31,564	2,221,146	3,327,904	.667	3,675,064
July.....	33,328	2,378,104	3,607,924	.659	3,939,625
August.....	44,411	3,095,352	4,905,620	.631	5,065,532
September.....	54,590	3,601,064	5,831,784	.617	6,342,745
October.....	72,199	4,737,228	7,760,852	.610	8,170,585
November.....	75,364	4,686,945	7,706,479	.608	8,083,725
December.....	66,890	4,331,437	7,022,310	.617	7,521,365
<i>1936</i> <sup>3</sup>					
January.....	55,006	4,470,005	7,138,479	.626	6,631,325
February.....	48,344	3,791,133	5,968,311	.635	7,641,405
March.....	53,018	4,105,920	6,449,433	.637	8,420,221
April.....	65,594	5,721,847	9,217,472	.621	11,321,197
May.....	83,026	6,356,227	10,482,502	.606	11,591,245
June.....	110,922	9,732,997	14,983,043	.650	14,555,306
July.....	148,569	14,328,371	21,706,730	.660	25,709,624
August.....	166,769	15,261,340	22,947,833	.665	19,662,652
September.....	171,697	15,312,179	23,143,640	.662	18,673,229
October.....	177,185	17,075,574	25,771,876	.663	19,550,680
November.....	171,463	15,535,153	22,889,856	.679	19,754,019
December.....	152,465	14,302,183	20,327,501	.704	14,331,074
<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	24,400,331
November.....	211,004	20,303,903	28,858,259	.704	23,858,860
December.....	180,594	17,162,379	23,964,127	.716	23,897,187
<i>1938</i>					
January.....	153,864	15,705,838	21,447,213	.732	21,517,638

<sup>1</sup> Data are for the month ending on the 15th.

<sup>2</sup> 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.

<sup>3</sup> Revised.

## STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements in the construction and maintenance of State roads from January 1937 to January 1938, inclusive, is presented in table 24.

TABLE 24.—*Employment on Construction and Maintenance of State Roads, January 1937 Through January 1938*<sup>1</sup>

[Subject to revision]

Month	Number of employees working on <sup>2</sup> —			Total pay roll
	New roads	Maintenance	Total	
1937				
January.....	15,622	117,576	133,198	\$8,387,864
February.....	11,706	120,786	132,492	8,560,561
March.....	11,802	119,046	130,848	8,333,600
April.....	13,164	124,761	137,925	9,108,030
May.....	17,241	159,167	176,408	10,850,394
June.....	19,382	148,392	167,774	11,069,510
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
December.....	23,825	146,340	170,165	10,377,340
1938				
January.....	15,394	126,565	141,959	9,577,200

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

<sup>2</sup> Monthly average.

## MATERIAL ORDERS PLACED

During the year 1937 the value of orders placed for materials on P. W. A. projects, projects of the Reconstruction Finance Corporation, projects financed from regular Federal appropriations, Federal construction projects under The Works Program, and projects operated by the W. P. A. totaled \$864,990,000. Iron and steel products accounted for \$194,504,000 of the total, machinery for \$148,410,000, cement for \$79,950,000, and forest products for \$66,045,000.

On projects of the Public Works Administration orders were placed for materials valued at approximately \$275,758,000. Of this amount \$80,159,000 was expended for iron and steel products, \$20,505,000 for forest products, \$20,159,000 for cement, and \$41,691,000 for machinery.

Material orders placed on projects financed from regular Federal appropriations amounted to \$250,119,000, on projects operated by W. P. A. to \$242,961,000, on Federal construction projects under The Works Program to \$79,849,000, and on projects of the Reconstruction Finance Corporation to \$16,302,000.

The value of material orders placed on construction projects financed by Federal funds in 1937 is presented in table 25.

TABLE 25.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Year 1937 <sup>1</sup>

(Subject to revision)

Type of material	Total	Projects				
		Public Works Administration <sup>2</sup>	Reconstruction Finance Corporation <sup>3</sup>	Regular Federal appropriations <sup>4</sup>	Federal construction under The Works Program	Operated by W. P. A. <sup>5</sup>
All materials.....	\$864,989,680	\$275,757,903	\$16,302,450	\$250,118,787	\$79,849,165	\$242,961,375
Textiles and their products.....	\$24,513,668	925,587	4,108	264,410	84,378	\$23,235,185
Awnings, tents, canvas, etc.....	84,837	26,878	1,925	33,811	22,223	-----
Carpets and rugs.....	26,653	24,661	1,854	127	11	-----
Cordage and twine.....	95,052	22,163	98	58,772	14,019	-----
Cotton goods.....	21,197	11,501	231	8,454	1,011	-----
Felt goods.....	33,280	24,611	-----	4,220	4,449	-----
Jute goods.....	22,073	16,678	-----	1,843	3,552	-----
Linoleum.....	848,127	755,989	-----	62,630	29,568	-----
Sacks and bags.....	119,508	32,232	-----	83,621	3,655	-----
Upholstering materials, not elsewhere classified.....	10,435	8,564	-----	1,630	241	-----
Waste.....	17,321	2,310	-----	9,302	5,709	-----
Forest products.....	\$66,045,001	20,505,074	342,983	11,317,609	7,891,567	\$25,987,768
Cork products.....	169,800	119,401	85	40,834	9,480	-----
Lumber and timber products, not elsewhere classified.....	30,484,115	13,986,434	298,671	9,729,571	6,460,439	-----
Planing-mill products.....	9,100,339	6,210,501	43,892	1,504,815	1,411,131	-----
Window and door screens and weatherstrip.....	232,979	188,738	335	42,389	1,517	-----
Chemicals and allied products.....	\$13,856,991	2,789,153	234,335	1,689,504	1,625,897	\$7,518,102
Ammunition and related products.....	48,122	48,122	-----	-----	-----	-----
Chemicals, miscellaneous.....	206,104	83,869	99	54,984	67,152	-----
Compressed and liquefied gases.....	277,415	73,005	38,890	66,310	99,210	-----
Explosives.....	2,761,014	916,085	187,108	973,583	684,238	-----
Paints and varnishes.....	7,541,764	1,668,072	8,238	594,627	775,297	4,495,530
Stone, clay, and glass products.....	\$241,130,999	75,868,717	4,391,531	63,345,090	19,771,281	\$77,754,380
Asbestos products, not elsewhere classified.....	87,156	61,896	1,157	16,112	7,991	-----
Brick, hollow tile, and other clay products.....	26,683,833	14,111,089	65,728	1,733,641	879,962	9,893,413
Cement.....	79,950,418	20,159,192	3,694,949	28,461,966	8,042,605	19,591,706
Concrete products.....	28,554,994	13,930,143	19,393	1,532,317	2,695,698	10,377,443
Crushed stone.....	27,915,354	3,843,961	14,199	9,882,091	1,957,216	12,217,887
Glass.....	1,575,931	1,219,568	6,347	253,763	96,253	-----
Lime.....	170,130	142,553	48	16,449	11,080	-----
Marble, granite, slate, and other stone products.....	11,932,668	6,400,976	2,754	4,719,815	809,123	-----
Minerals and earths, ground or otherwise treated.....	93,180	80,574	-----	12,327	279	-----
Sand and gravel.....	46,841,278	10,659,957	562,754	15,656,746	4,618,809	15,343,012
Tiling, floor and wall, and terrazzo.....	2,883,698	2,008,072	8,807	501,392	365,427	-----
Wall plaster, wall board, insulating board, and floor composition.....	4,111,440	3,250,736	15,395	558,471	286,838	-----
Iron and steel and their products, not including machinery.....	\$194,504,177	80,159,283	5,428,127	44,476,138	21,748,988	\$42,691,641
Bolts, nuts, washers, etc.....	1,958,755	899,253	24,991	707,503	327,008	-----
Cast-iron pipe and fittings.....	25,508,517	10,275,678	98,901	1,348,021	792,341	12,993,876
Doors, shutters and window sash and frames, molding and trim (metal).....	8,306,785	5,510,219	11,311	2,643,881	150,374	-----
Forgings, iron and steel.....	3,124,064	728,514	8,932	2,049,604	337,004	-----
Hardware, miscellaneous.....	7,245,960	4,121,834	299,559	1,504,173	1,320,394	-----
Heating and ventilating equipment.....	18,519,836	12,749,942	41,313	2,521,138	431,107	2,776,336

See footnotes at end of table.

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

Type of material	Total	Projects				
		Public Works Administration	Reconstruction Finance Corporation	Regular Federal appropriations	Federal construction under The Works Program	Operated by W. F. A.
Nails and spikes.....	\$954,090	\$460,414	\$4,938	\$160,286	\$328,452	-----
Rail fastenings, excluding spikes.....	65,678	49,274	2,240	11,636	2,528	-----
Rails, steel.....	707,325	462,583	10,336	225,293	9,113	-----
Springs, steel.....	881	335	-----	-----	546	-----
Steel works and rolling-mill products, not elsewhere classified.....	25,800,541	11,228,419	3,123,904	8,443,791	3,004,427	-----
Stoves and ranges, other than electric.....	412,857	406,579	100	572	5,606	-----
Structural and reinforcing steel.....	77,266,465	29,658,963	1,696,138	21,161,429	13,505,557	\$11,244,378
Switches, railway.....	6,267	5,582	-----	-----	685	-----
Tools, other than machine tools.....	4,780,471	225,848	4,229	958,837	555,915	3,035,642
Wire products, not elsewhere classified.....	4,834,500	1,462,065	37,057	2,427,081	908,297	-----
Wrought pipe.....	2,369,486	1,922,781	64,178	312,893	69,634	-----
Nonferrous metals and their products.....	6,663,713	3,189,872	30,274	1,475,996	712,484	6 1,255,087
Aluminum manufactures.....	457,332	204,112	-----	248,726	4,494	-----
Copper products.....	609,205	428,376	22,893	141,176	16,760	-----
Lead products.....	180,845	127,853	10	49,946	3,036	-----
Nonferrous-metal alloys and products, not elsewhere classified.....	1,351,084	548,151	5,472	772,686	24,775	-----
Sheet-metal work.....	2,799,093	1,877,444	1,883	257,029	662,732	-----
Zinc products.....	11,067	3,936	11	6,433	687	-----
Machinery, not including transportation equipment.....	6148,409,695	41,690,745	4,349,667	82,085,093	9,138,721	6 11,145,469
Electrical machinery, apparatus, and supplies.....	41,813,669	11,693,099	1,375,653	25,674,562	3,070,355	-----
Elevators and elevator equipment.....	4,575,849	2,577,531	64,395	1,870,342	63,581	-----
Engines, turbines, tractors, and waterwheels.....	22,435,360	3,521,590	77,380	17,584,991	1,251,399	-----
Foundry and machine shop products, not elsewhere classified.....	62,099,255	18,931,808	2,819,741	31,232,227	4,013,173	5,102,306
Machine tools.....	1,415,405	478,804	2,815	762,329	171,457	-----
Meters (gas, water, etc.) and gas generators.....	287,681	277,495	-----	8,455	1,731	-----
Pumps and pumping equipment.....	7,940,324	2,584,664	9,683	4,796,506	549,471	-----
Refrigerators and refrigerating and ice-making apparatus.....	1,798,989	1,625,754	-----	155,681	17,554	-----
Transportation equipment—air, land, and water.....	2,490,687	480,912	16,094	882,798	722,288	388,595
Aircraft (new).....	832,793	122,941	-----	709,852	-----	-----
Boats, steel and wooden (small).....	79,417	19,031	-----	52,765	7,621	-----
Carriages and wagons.....	17,461	11,321	-----	1,639	4,501	-----
Locomotives, other than steam.....	34,800	34,800	-----	-----	-----	-----
Locomotives, steam.....	23,550	23,550	-----	-----	-----	-----
Motor vehicles, passenger.....	191,047	3,654	4,940	23,603	158,850	-----
Motor vehicles, trucks.....	1,311,619	265,615	11,154	94,939	551,316	388,595
Miscellaneous.....	167,374,749	50,148,560	1,505,331	44,582,149	18,153,561	52,985,148
Belting, miscellaneous.....	16,821	10,229	-----	412	6,180	-----
Coal.....	1,659,746	138,749	960	402,724	139,655	977,658
Creosote.....	12,476	5,424	-----	2,240	4,812	-----
Electric wiring and fixtures.....	24,740,867	10,977,640	159,577	11,300,946	2,302,704	-----
Furniture, including store and office fixtures.....	11,218,323	7,650,610	9,413	284,327	64,349	3,209,624

See footnotes at end of table.

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

Type of material	Total	Projects				
		Public Works Administration	Reconstruction Finance Corporation	Regular Federal appropriations	Federal construction under The Works Program	Operated by W. P. A.
Instruments, professional and scientific.....	\$301,054	\$81,756	-----	\$213,225	\$6,073	-----
Mattresses and bed springs.....	30,119	26,976	-----	3,143	-----	-----
Models and patterns.....	21,820	20,538	-----	1,203	79	-----
Paper products.....	59,830	47,522	\$199	7,670	4,439	-----
Paving materials and mixtures, not elsewhere classified.....	29,667,663	3,551,502	872	3,928,470	1,888,726	\$20,298,093
Petroleum products.....	28,161,730	5,411,467	529,266	11,615,011	4,516,555	6,089,431
Photographic apparatus and materials.....	133,380	56,127	1,491	71,920	3,842	-----
Plumbing supplies, not elsewhere classified.....	14,606,776	8,487,656	40,009	1,880,728	1,321,742	2,876,641
Radio apparatus and supplies.....	52,355	26,211	-----	26,144	-----	-----
Roofing materials, not elsewhere classified.....	3,260,251	2,279,157	14,034	417,881	549,179	-----
Rubber goods.....	1,205,293	190,347	122,607	114,496	218,597	559,246
Steam and other packing, pipe and boiler covering, and gaskets.....	1,013,522	799,243	1,126	187,633	25,520	-----
Theatrical scenery and stage equipment.....	263,892	263,705	187	-----	-----	-----
Window shades and fixtures.....	256,117	242,287	-----	4,035	9,795	-----
Other materials.....	50,692,714	9,881,414	625,590	14,119,941	7,091,314	18,974,455

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

<sup>2</sup> Includes material orders placed on P. W. A. projects financed by the Emergency Relief Appropriation Acts of 1935, 1936, and 1937.

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

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

<sup>5</sup> Includes material orders placed to Dec. 31, 1937. Includes National Youth Administration projects.

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

The value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, by type of material, for the year 1937 is shown below.

TABLE 26.—*Value of Material Orders Placed on Federal Professional, Technical, and Clerical Projects Financed by The Works Program, for the Year 1937*

[Subject to revision]

Type of material	Value of material orders placed	Type of material	Value of material orders placed
Total.....	\$888,565	Stationery.....	\$31,023
Computing machines.....	12,112	Typewriters.....	9,419
Furniture.....	31,717	Other office machines.....	27,128
Office supplies.....	156,968	Other materials.....	372,687
		Rental of machinery and equipment.....	247,511

