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# EMPLOYMENT AND PAY ROLLS

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# *Employment and Pay Rolls*

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## SUMMARY OF REPORTS FOR AUGUST 1939

### *Total Nonagricultural Employment*

THERE were approximately 250,000 more persons at work in non-agricultural occupations in August than in July and approximately 1,110,000 more than in August of last year. Manufacturing industries alone accounted for a gain over the month interval of 230,000 wage earners, bituminous-coal mines added 10,000 workers, anthracite mines 6,000, and wholesale trade firms 18,000. The employment gains were offset to some extent by declines in other lines of non-manufacturing activity, the largest of which was in retail stores, which reported declines aggregating 43,000 workers.

These figures do not include emergency employment which decreased 294,000 in August. A decrease of 309,000 on projects operated by the Work Projects Administration was partly offset by increases of 4,000 on work projects of the National Youth Administration and 11,000 in the Civilian Conservation Corps.

### *Adjustment of Indexes of Factory Employment and Pay Rolls to the 1937 Census of Manufactures*

The indexes of factory employment and pay rolls have been adjusted to conform in general with levels indicated by the 1937 Census of Manufactures and are available in mimeographed form upon request. This revision continues an established policy of the Bureau of Labor Statistics and constitutes the fourth biennial adjustment of the factory employment and pay-roll indexes.

The Bureau's monthly indexes are computed from reports supplied by cooperating firms which, at the present time, employ approximately 55 percent of the factory wage earners of the country. As the monthly canvass does not cover all establishments in the industries surveyed, the movements based on the reporting sample over an extended period tend to deviate from those shown by census totals which cover data for virtually all firms. According to totals published by the Bureau of the Census, there was an increase of 19.0 percent in the number of factory wage earners between 1935 and 1937 whereas the Bureau's indexes of factory employment prior to adjustment indicated an

increase of 15.9 percent over the interval. Likewise, wages according to census reports increased 38.3 percent between 1935 and 1937, whereas the Bureau's factory pay-roll indexes before adjustment indicated a rise of 37.7 percent. In connection with the current adjustment, minor changes were made for a few industries by the inclusion of late reports, the reclassification of firms, and the addition of data for new firms.

The Bureau does not find it practicable to follow some of the modifications made by the Census of Manufactures in industry classifications because comparable data are not available from the census for the base-period years 1923 and 1925. Thus a number of the Bureau's industries and groups are no longer coterminous with those of the census. In such cases the indexes of employment and pay rolls between 1935 and 1937, as in earlier revisions, were adjusted to movements of selected census data on the assumption that such movements would agree closely with those of the former census series. The industries and groups coming under this category were druggists' preparations, cash registers, foundry and machine shops, men's clothing, men's furnishings, shirts and collars, silk and rayon, woolen and worsted goods, dyeing and finishing, hosiery, cotton small wares, the machinery group, the paper and printing group, and the textile group and its two subgroups, fabrics and wearing apparel. Although the composition of the iron and steel group and the brick, tile, and terra cotta industry was also changed by the census in 1937, their former classification was retained by the Bureau for the purposes of adjusting the indexes of employment and pay rolls.

As in 1935, the Bureau's indexes of employment and pay rolls in the automobile industry were not adjusted to 1937 census totals as the reports supplied to the Bureau by cooperating automobile firms cover broader activities than are represented by census totals. The Bureau, however, allowed for this broader coverage when revising its transportation group indexes. Due to incomplete census coverage in 1937, the Bureau's millinery indexes were not adjusted to published census data. Estimates of total employment and pay rolls for this industry were computed from available information and the indexes adjusted accordingly. On the other hand, although the census figures for women's clothing were not strictly comparable with those for 1935, the indexes were adjusted to published census totals for 1937, the discrepancy not being considered of sufficient significance to appreciably affect the trend.

### *Industrial and Business Employment*

Gains in employment from July to August were shown by 70 of the 90 manufacturing industries surveyed monthly by the Bureau of Labor Statistics and by 10 of the 16 nonmanufacturing industries

covered. Pay-roll increases were reported for 73 manufacturing and 10 nonmanufacturing industries.

For all manufacturing industries combined, there were greater-than-seasonal gains between July and August of 3.1 percent or 230,000 wage earners and 6.4 percent or \$10,400,000 in weekly pay rolls. The expected changes in August are increases of 2.5 percent for employment and 3.1 percent for pay rolls. The current gains brought the factory employment level to the highest point since December 1937 and the pay-roll level to the highest point since November 1937. Comparisons with August 1938 showed that there were gains of 8.6 percent in employment and 16.2 percent in pay rolls.

As in July, most of the employment gains over the month interval in manufacturing industries were larger than seasonal or were contraseasonal. Among the industries showing such increases were canning and preserving (77,200 workers), cotton goods (7,100 workers), millinery (7,100 workers), blast furnaces, steel works, and rolling mills (6,900 workers), foundries and machine shops (6,000 workers), confectionery (5,200 workers), hardware (3,400 workers), rubber boots and shoes (3,300 workers), stamped and enameled ware (2,700 workers), glass (1,600 workers), brass, bronze, and copper products (2,400 workers), beet sugar (2,500 workers), tin cans and other tinware (2,100 workers), jewelry (1,800 workers) knitted outerwear (2,000 workers), and electrical machinery, apparatus, and supplies (2,300 workers).

Gains of about seasonal proportions were shown in the following industries: Women's clothing (38,800 workers), sawmills (7,600 workers), furniture (5,500 workers), hosiery (3,400 workers), and silk and rayon goods (3,400 workers). Less-than-seasonal increases were reported by men's clothing factories (9,300 workers) and shoe plants (2,800 workers). The gain of 1.0 percent in aircraft factories continued the unbroken series of monthly advances which began in October of last year and lifted the employment level in the industry to nearly three times the 1929 level. In automobile and parts plants, there was a curtailment of 18,600 workers due to model changes for the 1940 season. The decrease, however, was less than seasonal. In the machine-tool industry, there was a decline of 2,000 workers primarily because of vacation shut-downs.

Retail trade employment decreased seasonally between mid-July and mid-August by approximately 43,000 persons. In general the employment changes in the various lines of trade followed the seasonal movements shown by the August averages of the past 10 years. Employment gains were reported by retail dealers in furniture, lumber, and building materials, the remaining groups covered showing reductions. Among them were food, general merchandise, automobiles, apparel, hardware, jewelry, general stores, and cigars.

The over-all increase in wholesale-trade employment was slightly larger than the average gain for August of the past 10 years, marked seasonal increases being shown by agents and brokers and wholesalers of farm products. Wholesale dealers in jewelry and in paper products also increased their personnel seasonally. Other lines of wholesale trade reporting employment increases were dry goods and apparel, lumber and building materials, and electrical goods.

Gains of 8.8 percent in employment and 32.2 percent in pay rolls were reported by anthracite mines. These increases are noteworthy in that they are the first August advances shown by this industry in the past 6 years. The employment gain of 2.6 percent in bituminous-coal mining was of seasonal proportions, but it was accompanied by an unusually large rise of 16.1 percent in pay rolls. Metal mines reported a small employment recession, but a large pay-roll gain. Quarries expanded their forces seasonally, the public utilities showed employment gains, and brokerage and insurance firms reported a slightly larger number of workers.

Oil wells curtailed employment by 1.0 percent. This decrease, which relates to mid-August, did not, however, reflect the curtailment of operations which occurred in a number of States in the latter part of the month. Seasonal employment declines were reported by laundries and dyeing and cleaning plants. Year-round hotels showed a slight employment decline.

Employment in private building construction increased 0.8 percent from July to August, according to reports from 14,193 contractors employing 143,938 workers. Corresponding pay rolls increased 1.2 percent. The moderate gains in employment reported from the Middle Atlantic and Pacific States in July were continued in August with increases of 3.4 percent and 2.4 percent, respectively. The South Atlantic group of States registered a net increase of 3.4 percent, and the East South Central area, a gain of 0.8 percent. A continued recession in employment in Colorado contributed to a net decrease of 8.9 percent for the Mountain States as a whole. Moderate employment declines were general throughout the New England area with the exception of Massachusetts. The over-all percentage decrease for this area was 2.3. The West North Central and South Central States registered declines of 1.8 percent and 1.1 percent, respectively. Reduced employment in Ohio and Wisconsin virtually offset appreciable gains in Indiana, Illinois, and Michigan, employment for the East North Central area as a whole showing a decline of 0.2 percent. The reports on which the figures are based do not cover construction projects financed by the Works Progress Administration, the Public Works Administration, and the Reconstruction Finance Corporation or by regular appropriations of the Federal, State, or local governments.

A preliminary report of the Interstate Commerce Commission showed an employment gain by class I railroads since July of 0.3 percent, the total number at work in August being 1,004,619. Corresponding pay rolls were not available when this report was prepared. For July they were \$154,856,716, an increase of 0.3 percent over the June figure of \$154,436,650.

The average hours worked per week by wage earners in manufacturing industries were 38.0 in August, a gain of 3.7 percent since July. The average hourly earnings of these workers were 63.9 cents, a decrease of 0.5 percent as compared with the preceding month. Average weekly earnings of factory workers climbed 3.1 percent to \$24.53.

TABLE 1.—*Employment, Pay Rolls, and Earnings in all Manufacturing Industries Combined and in Nonmanufacturing Industries, August 1939*

Industry	Employment			Pay roll			Average weekly earnings		
	Index August 1939	Percentage change from—		Index August 1939	Percentage change from—		Average in August 1939	Percentage change from—	
		July 1939	August 1938		July 1939	August 1938		July 1939	August 1938
All manufacturing industries combined <sup>1</sup> .....	(1923-25 = 100) 96.4	+3.1	+8.6	(1923-25 = 100) 89.8	+6.4	+16.2	\$24.53	+3.1	+7.1
Class I steam railroads <sup>2</sup> .....	56.2	+3	+6.9	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Coal mining:	(1929 = 100)			(1929 = 100)					
Anthracite <sup>4</sup> .....	48.6	+8.8	+29.2	33.3	+32.2	+66.3	22.96	+21.5	+28.6
Bituminous <sup>4</sup> .....	81.5	+2.6	+1.6	74.9	+16.1	+16.6	24.96	+13.2	+14.7
Metalliferous mining.....	60.2	—3	+17.1	53.2	+9.7	+21.8	27.06	+10.1	+4.0
Quarrying and nonmetallic mining.....	48.2	+1.3	+8.1	43.0	+4.9	+9.5	22.38	+3.6	+1.3
Crude-petroleum producing.....	66.6	—1.0	—8.0	61.8	—3	—7.5	33.87	+7	+6
Public utilities:									
Telephone and telegraph.....	75.6	+2	+1.1	95.2	+6	+4.3	\$ 30.20	+4	+3.2
Electric light and power and manufactured gas.....	93.8	+6	+1.2	101.0	+1.0	+2.1	\$ 33.87	+4	+9
Electric-railroad and motor-bus operation and maintenance.....	69.8	+2	+5	70.9	+5	+2.1	\$ 33.20	+3	+1.6
Trade:									
Wholesale.....	89.0	+1.2	+1.5	76.1	+4	+3.3	\$ 29.76	—8	+1.7
Retail.....	82.5	—1.3	+3.1	69.4	—2.1	+3.9	\$ 21.39	—7	+7
General merchandising.....	89.8	—2.1	+3.9	81.1	—3.2	+2.9	\$ 18.07	—1.1	—10
Other than general merchandising.....	80.6	—1.1	+2.9	67.0	—1.7	+4.1	\$ 23.99	—6	+1.2
Hotels (year-round) <sup>4</sup> .....	89.9	—4	—4	79.4	+4	+2.6	\$ 15.13	+9	+3.1
Laundries <sup>4</sup> .....	99.2	—8	+1.7	86.0	—2.3	+3.5	17.60	—1.5	+1.8
Dyeing and cleaning <sup>4</sup> .....	102.6	—3.7	—2.3	73.0	—5.2	—1.6	19.45	—1.6	+6
Brokerage.....	( <sup>5</sup> )	+1	—8.0	( <sup>5</sup> )	—1.7	—8.3	\$ 35.17	—1.8	—4
Insurance.....	( <sup>5</sup> )	+2	+1.1	( <sup>5</sup> )	—6	+2.0	\$ 34.43	—7	+9
Building construction.....	( <sup>5</sup> )	+8	+6.9	( <sup>5</sup> )	+1.2	+11.7	30.91	+5	+4.0

<sup>1</sup> Revised indexes—Adjusted to 1937 Census of Manufactures.

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

<sup>3</sup> Not available.

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

<sup>5</sup> Average weekly earnings not strictly comparable with figures published in issues of this pamphlet dated earlier than January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

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



Of the 14 nonmanufacturing industries for which man-hours are available, 11 showed increases in average hours worked per week and 4 showed gains in average hourly earnings. Ten of the 16 nonmanufacturing industries surveyed reported higher average weekly earnings.

Employment and pay-roll indexes, and average weekly earnings in August 1939 for all manufacturing industries combined, for selected nonmanufacturing industries, and for class I railroads, with percentage changes over the month and year intervals are presented in table 1.

### *Public Employment*

The small number of new contract awards on construction projects financed by the Public Works Administration during August was reflected in the employment figures. Employment for the month ending August 15 was 263,000, a reduction of 10,800 from July and an increase of 146,000 over August a year ago. Because of increased average hourly earnings in August, pay-roll disbursements increased from \$23,077,000 in July to \$23,819,000 in August.

During the month ending August 15, 17,900 men were employed on low-rent projects of the United States Housing Authority, an increase of 4,900 since July. Pay-roll disbursements of \$2,097,000 were \$671,000 more than in July. These figures cover new construction and demolition and pertain only to those projects started under the United States Housing Authority; those formerly under the Public Works Administration are shown under the Public Works Administration building construction projects in this report.

Employment on construction projects financed by regular Federal appropriations reached an all-time high when 275,500 men were employed in the month ending August 15. This is an increase of 10,300 over the preceding month and 22,900 over August 1938. Increases were reported in building construction; public roads; reclamation; dredging, dike, and revetment projects; construction of locks and dams; and naval vessels. Decreases occurred on rural electrification and street and road projects. Pay-roll disbursements for the month were \$28,095,000.

There was little change in employment on construction projects financed by the Reconstruction Finance Corporation. Approximately 2,600 men were employed during the month ending August 15 and pay rolls were \$289,000.

Because of the release, as required by law, of workers whose period of 18 months of continuous employment expired before September 1, 1939, employment on projects operated by the Work Projects Administration decreased 308,900 in August. Employment for the month was 1,834,700 and pay-roll disbursements, \$107,840,000.

Employment on Federal projects financed by the Work Projects Administration was almost halved, while an increase was reported on work projects of the National Youth Administration. The Student Aid program was not in operation in August.

The beginning of an enlistment period resulted in increased employment in camps of the Civilian Conservation Corps. Of the 333,100 in camps during the month, 295,400 were enrollees, 3,800 reserve officers, 300 nurses, 1,600 educational advisers, and 32,000 supervisory and technical employees.

TABLE 2.—*Summary of Federal Employment and Pay Rolls, August and July 1939*<sup>1</sup>  
(Preliminary figures)

Class	Employment			Pay rolls		
	August	July	Per-centage change	August	July	Per-centage change
<b>Federal services:</b>						
Executive <sup>2</sup> .....	932,953	928,195	+0.5	\$141,670,976	\$138,975,099	+1.9
Judicial.....	2,162	2,192	-1.4	554,291	549,952	+1.8
Legislative.....	5,532	5,432	+1.8	1,250,506	1,232,150	+1.5
Military.....	372,853	376,326	-9	29,152,927	29,273,973	-4
<b>Construction projects:</b>						
Financed by P. W. A. <sup>4</sup> .....	263,636	273,801	-3.9	23,819,075	23,077,354	+3.2
U. S. H. A. low-rent housing.....	17,930	13,020	+37.7	2,097,061	1,426,123	+47.0
Financed by R. F. C. <sup>5</sup> .....	2,555	2,470	+3.4	288,736	266,391	+8.4
Financed by regular Federal appro- priations.....	275,506	265,168	+3.9	28,094,698	25,776,242	+9.0
<b>Federal projects financed by the Work Projects Administration.....</b>	<b>93,809</b>	<b>169,851</b>	<b>-44.8</b>	<b>3,671,127</b>	<b>6,058,225</b>	<b>-39.4</b>
<b>Projects operated by W. P. A.....</b>	<b>1,834,686</b>	<b>2,143,593</b>	<b>-14.4</b>	<b>107,840,110</b>	<b>119,637,011</b>	<b>-9.9</b>
<b>National Youth Administration:</b>						
Work projects.....	211,195	207,357	+1.9	4,150,973	2,570,078	+61.5
Student Aid <sup>6</sup> .....	0	0	-----	0	0	-----
<b>Civilian Conservation Corps.....</b>	<b>333,121</b>	<b>322,058</b>	<b>+3.4</b>	<b>14,816,914</b>	<b>\$ 14,462,311</b>	<b>+2.5</b>

<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 125,695 employees and pay-roll disbursements of \$15,975,307 for August 1939, and 121,189 employees and pay-roll disbursements of \$14,600,205 for July 1939.

<sup>3</sup> Revised.

<sup>4</sup> Data covering P. W. A. projects financed from National Industrial Recovery Act funds, Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds, and Public Works Administration Appropriation Act of 1938 funds are included. These data are not shown under projects financed by the Work Projects Administration. Includes 17,773 wage earners and \$1,757,377 pay roll for August 1939; 16,396 wage earners and \$1,509,437 pay roll for July 1939, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 239,071 wage earners and \$21,261,831 pay roll for August 1939; 251,735 wage earners and \$20,914,518 pay roll for July 1939, covering Public Works Administration projects financed from funds provided by the Public Works Administration Appropriation Act of 1938.

<sup>5</sup> Includes 573 employees and pay-roll disbursements of \$58,401 for August 1939; 639 employees and pay-roll disbursements of \$59,836 for July 1939 on projects financed by the RFC Mortgage Co.

<sup>6</sup> Student Aid program not in operation during July and August.

In the regular services of the Federal Government, employment increases were reported in the executive and legislative services; decreases in the judicial and military services. Of the 933,000 employees in the executive service, 125,000 were working in the District of Columbia and 808,000 outside the District. Force-account employees (employees who are on the Federal pay roll and are engaged on construction projects) were 9.8 percent of the total number of employees in the executive service. Increased employment was reported in the Departments of Agriculture and Commerce, the War

and Navy Departments, and the Civil Aeronautics Authority, while a decrease was reported in the Administrative offices of the Federal Works Agency.

Employment on roads financed wholly from State or local funds increased 9,500 in August. Of the 155,700 at work, approximately 23,600 were engaged in the construction of new roads and 132,100 on maintenance work. Pay rolls for both types of road work were \$11,906,000.

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



## DETAILED TABLES FOR AUGUST 1939

### *Industrial and Business Employment*

MONTHLY reports on employment and pay rolls are available for the following groups: 90 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. 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 as well as average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in August 1939 are shown in table 3. Percentage changes from July 1939 and August 1938 are also given. For the manufacturing industries, 2 series of indexes are shown. One series (the new series) has been adjusted to the 1937 Census of Manufactures and the other is a continuation of the previously published indexes which have been adjusted only to the 1935 Census of Manufactures. The percentage changes over the month and year intervals relate to the new series of indexes.

The revised series of employment and pay-roll indexes, as well as average hours worked per week, average hourly earnings, and average weekly earnings for June, July, and August 1939, where available, are presented in table 4. The June and July figures, where given, may differ in some instances from those previously published, because of revisions necessitated primarily by the inclusion of late reports.

The 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 not all reporting establishments supply man-hours, average hours

worked per week and average hourly earnings are necessarily based on data furnished by a smaller number of reporting firms. The size and composition of the reporting sample varies slightly from month to month. Therefore the average hours per week, average hourly earnings, and average weekly earnings shown 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 movement of earnings and hours over the period shown. The changes from the preceding month, expressed as percentages, are based on identical lists of firms for the 2 months, but the changes from August 1938 are computed from chain indexes based on the month-to-month percentage changes.

TABLE 3.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, August 1939*

## MANUFACTURING

Indexes are based on 3-year average, 1923-25=100. New series adjusted to 1937 Census of Manufactures for all industries except automobiles. Not comparable to indexes published in earlier issues of pamphlet. Comparable series available upon request. See text in summary relative to adjustment.]

Industry	Employment				Pay rolls				Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>		Average hourly earnings <sup>1</sup>	
	Indexes, August 1939		Percentage change from—		Indexes, August 1939		Percentage change from—		August 1939	Percentage change from—		August 1939	Percentage change from July 1939	August 1939	Percentage change from July 1939
	Old series	New series	July 1939	August 1938	Old series	New series	July 1939	August 1938		Percentage change from—					
										July 1939	August 1938				
All manufacturing.....	93.1	96.4	+3.1	+8.6	89.2	89.8	+6.4	+16.2	\$24.53	+3.1	+7.1	38.0	+3.7	Cen/s 63.9	-0.5
Durable goods.....	83.3	84.1	+1.3	+16.2	82.3	81.6	+7.2	+29.3	27.94	+5.7	+11.2	38.3	+6.1	71.6	-2
Nondurable goods.....	102.5	108.1	+4.4	+3.5	97.0	99.0	+5.7	+6.2	21.60	+1.0	+2.6	37.7	+1.8	57.9	-5
Durable goods															
Iron and steel and their products, not including machinery.....	89.2	92.3	+2.9	+12.4	85.7	87.8	+11.7	+31.2	28.13	+8.6	+16.7	37.0	+8.0	75.6	-3
Blast furnaces, steel works, and rolling mills.....	93.5	97.0	+1.8	+11.7	89.8	92.5	+12.8	+37.6	30.13	+10.8	+23.1	35.6	+10.8	84.4	-7
Bolts, nuts, washers, and rivets.....	91.7	96.9	+4.4	+17.4	94.2	104.0	+25.1	+42.1	26.17	+19.8	+20.8	38.0	+10.3	68.9	+5
Cast-iron pipe.....	70.0	75.3	+1.0	+11.1	63.8	67.9	+3.2	+20.4	21.81	+2.2	+8.2	37.4	+1.8	58.0	+2
Cutlery (not including silver and plated cutlery) and edge tools.....	85.0	92.1	+6.5	+14.1	74.9	79.5	+4.4	+23.0	22.34	-2.0	+8.0	38.1	+1.0	59.8	-2.3
Forgings, iron and steel.....	49.1	55.6	+2.1	+18.2	48.6	59.4	+8.4	+41.0	29.10	+6.1	+19.1	38.3	+6.0	76.0	+3
Hardware.....	71.8	75.6	+9.6	+18.5	77.2	79.8	+21.9	+34.0	26.03	+11.3	+13.1	39.0	+4.2	66.7	+6.9
Plumbers' supplies.....	76.7	77.8	+1.5	+4.9	71.4	71.1	+8.9	+24.6	26.43	+7.4	+18.9	38.9	+6.2	68.0	+1.2
Stamped and enameled ware.....	138.9	151.9	+5.7	+21.7	137.2	152.8	+11.2	+24.8	23.51	+5.1	+2.5	38.6	+6.5	60.5	-1.5
Steam and hot-water heating apparatus and steam fittings.....	72.3	78.4	+3.6	+4.7	63.5	67.9	+13.2	+14.5	26.47	+9.2	+9.1	37.9	+8.1	69.9	+1.1
Stoves.....	85.2	90.2	+5.5	+12.1	71.1	77.7	+6.8	+15.5	24.78	+1.3	+3.1	37.7	+1.7	66.0	-3
Structural and ornamental metalwork.....	72.2	71.5	+3.9	+20.7	66.2	64.2	+8.9	+29.3	28.79	+4.7	+7.2	39.6	+4.0	72.8	+6.6
Tin cans and other tinware.....	102.1	107.4	+7.1	+2.7	113.2	114.9	+11.7	+5.8	24.20	+4.3	+3.1	39.9	+4.6	60.8	+2
Tools (not including edge tools, machine tools, files, and saws).....	83.8	83.5	+4.8	+16.6	81.4	79.4	+10.0	+29.1	23.97	+4.9	+11.1	38.6	+4.9	62.3	+3
Wirework.....	122.9	116.1	-7.8	+15.7	127.0	115.5	-6.9	+27.3	24.76	+1.0	+10.1	36.8	+2.1	67.4	-1.2
Machinery, not including transportation equipment.....	96.7	96.8	+1.1	+15.2	97.9	96.9	+3.1	+28.9	28.07	+1.9	+11.8	39.0	+2.5	72.1	-3
Agricultural implements (including tractors).....	109.5	114.4	+1.3	+9.7	115.8	124.0	+1.1	+21.2	29.11	-2	+10.6	37.4	+2	78.1	-5
Cash registers, adding machines, and calculating machines.....	126.6	124.6	-2.1	-6.2	118.4	119.4	-3.0	-1.8	30.23	-1.0	+4.8	37.0	-1.4	82.2	+4
Electrical machinery, apparatus, and supplies.....	87.1	87.8	+1.1	+17.6	89.7	93.4	+2.6	+32.5	28.50	+1.5	+12.5	38.8	+2.7	73.7	-8
Engines, turbines, water wheels, and windmills.....	97.4	96.8	+6	+17.9	116.7	113.5	+3.0	+29.8	31.01	+2.3	+9.9	40.1	+2.4	77.8	0
Foundry and machine-shop products.....	86.7	84.1	+1.8	+12.4	84.1	78.4	+4.8	+25.0	27.78	+3.0	+11.1	38.8	+3.1	71.5	-1

Machine tools.....	132.7	140.3	-4.9	+23.9	148.8	160.9	-3.0	+52.8	31.72	+2.0	+23.3	42.6	+2.2	74.6	-	2
Radios and phonographs.....	123.0	135.9	+4.8	+38.3	111.9	122.8	+8.1	+48.2	22.38	+3.1	+7.2	38.9	+3.2	57.6	-(2)	
Textile machinery and parts.....	75.4	77.6	+6	+30.7	76.7	74.6	-2	+62.9	26.47	-8	+16.7	40.1	-1.0	66.1	+1	
Typewriters and parts.....	117.0	117.9	-2.3	-6	118.1	116.5	+2.8	+20.7	24.24	+5.2	+21.4	37.8	+5.0	64.1	+2	
<b>Transportation equipment.....</b>	<b>75.4</b>	<b>76.3</b>	<b>-4.5</b>	<b>+47.3</b>	<b>79.4</b>	<b>79.2</b>	<b>+3.4</b>	<b>+59.4</b>	<b>33.38</b>	<b>+8.1</b>	<b>+8.2</b>	<b>38.1</b>	<b>+8.3</b>	<b>88.8</b>	<b>+4</b>	
Aircraft.....	1,390.2	1,413.5	+1.0	+82.1	1,393.0	1,380.9	+3.2	+94.7	30.59	+2.2	+6.7	41.7	+2.4	74.3	+9	
Automobiles.....	71.8	71.8	-6.1	+49.6	76.2	76.2	+4.6	+62.3	34.77	+11.4	+8.4	37.7	+10.9	93.5	+8	
Cars, electric- and steam-railroad.....	29.3	31.9	-4	+20.6	28.8	27.2	+10.1	+29.2	26.90	+10.5	+7.3	36.2	+10.4	74.4	+1	
Locomotives.....	30.2	29.1	+1.3	+67.7	27.0	27.2	+2.5	+106.3	28.72	+1.2	+22.9	37.6	+1.1	76.4	+1	
Shipbuilding.....	117.4	121.5	-2.4	+31.8	124.7	128.3	-2.5	+38.5	31.69	-1	+5.0	38.1	+1.2	82.9	-4	
<b>Nonferrous metals and their products.....</b>	<b>95.2</b>	<b>94.6</b>	<b>+3.6</b>	<b>+14.4</b>	<b>92.7</b>	<b>89.8</b>	<b>+7.7</b>	<b>+25.1</b>	<b>26.24</b>	<b>+3.9</b>	<b>+9.3</b>	<b>39.4</b>	<b>+4.3</b>	<b>66.8</b>	<b>-3</b>	
Aluminum manufactures.....	164.7	153.7	+2.8	+28.2	168.5	164.1	+10.8	+34.0	25.62	+7.7	+4.7	38.5	+8.5	66.4	-5	
Brass, bronze, and copper products.....	102.0	107.7	+3.6	+14.6	108.9	113.4	+6.2	+30.6	28.76	+2.5	+13.8	40.5	+2.5	71.2	-(2)	
Clocks and watches and time-recording devices.....	82.8	82.8	+3.8	+6.5	88.8	85.0	+11.2	+26.3	22.88	+7.2	+18.7	39.2	+7.9	58.4	-5	
Jewelry.....	97.8	94.2	+8.2	+12.8	80.5	76.9	+12.1	+14.9	22.89	+3.6	+1.9	39.7	+5.5	56.8	-1.5	
Lighting equipment.....	78.0	73.0	+3.5	+14.1	70.1	58.3	+9.0	+20.5	26.06	+5.3	+5.6	37.6	+4.9	69.3	+5	
Silverware and plated ware.....	66.6	68.9	+10.0	+15.8	60.2	59.3	+10.5	+24.3	25.03	+5.9	+7.4	39.0	+5.0	64.1	+7	
Smelting and refining—copper, lead, and zinc.....	69.2	74.6	-1.8	+9.8	65.5	70.8	+4	+13.0	26.64	+2.2	+3.1	38.2	+1.8	69.8	+4	
<b>Lumber and allied products.....</b>	<b>69.2</b>	<b>68.7</b>	<b>+3.0</b>	<b>+8.0</b>	<b>63.3</b>	<b>62.9</b>	<b>+11.7</b>	<b>+8.6</b>	<b>21.21</b>	<b>+8.5</b>	<b>+7</b>	<b>39.5</b>	<b>+6.2</b>	<b>64.1</b>	<b>+1.1</b>	
Furniture.....	82.7	87.5	+3.8	+8.9	71.6	75.5	+11.0	+14.5	20.90	+7.0	+5.4	39.7	+6.2	52.9	+2	
Lumber:																
Millwork.....	59.0	61.4	+2.8	+11.6	50.6	49.5	+9.1	+10.9	22.75	+6.1	-5	42.2	+5.9	53.9	+2	
Sawmills.....	56.0	62.7	+2.6	+6.8	52.8	56.8	+12.7	+5.1	20.95	+9.7	-1.7	38.7	+8.0	54.8	+1.8	
<b>Stone, clay, and glass products.....</b>	<b>74.7</b>	<b>80.8</b>	<b>+1.4</b>	<b>+12.8</b>	<b>68.1</b>	<b>71.7</b>	<b>+8.8</b>	<b>+20.5</b>	<b>24.26</b>	<b>+7.3</b>	<b>+6.7</b>	<b>37.7</b>	<b>+7.2</b>	<b>64.7</b>	<b>+2</b>	
Brick, tile, and terra cotta.....	57.5	61.8	+4	+15.2	46.2	50.1	+8.0	+24.2	21.17	+7.5	+7.7	39.2	+6.2	53.9	+1.7	
Cement.....	72.2	72.6	+2	+3.3	71.3	69.9	+2.6	+8.9	27.32	+2.4	+5.4	38.9	+2.4	70.3	-1	
Glass.....	92.6	98.5	+2.3	+17.6	98.0	102.9	+12.4	+24.7	25.53	+9.9	+6.0	35.7	+10.7	71.8	-3	
Marble, granite, slate, and other products.....	47.1	53.2	-1.8	+8.9	37.0	40.3	+1.8	+15.7	26.54	+3.6	+6.5	37.6	+5.3	71.1	-1.4	
Pottery.....	78.8	84.7	+3.5	+9.0	71.1	75.1	+14.5	+21.3	22.25	+10.6	+11.2	38.0	+8.1	61.8	-(2)	
<i>Nonferrous goods</i>																
<b>Textiles and their products.....</b>	<b>100.1</b>	<b>103.5</b>	<b>+5.5</b>	<b>+5.3</b>	<b>86.0</b>	<b>88.3</b>	<b>+11.3</b>	<b>+7.3</b>	<b>17.22</b>	<b>+5.6</b>	<b>+1.9</b>	<b>36.1</b>	<b>+2.8</b>	<b>47.9</b>	<b>+1.6</b>	
Fabrics.....	91.2	93.1	+2.2	+7.0	79.1	80.2	+4.8	+7.7	16.66	+2.5	+6	36.7	+2.2	45.8	-1	
Carpets and rugs.....	81.3	75.6	+2.5	+20.3	71.5	63.5	+10.7	+29.0	23.34	+8.0	+7.3	35.8	+5.4	65.3	+2.5	
Cotton goods.....	87.3	87.3	+1.9	+7.4	74.7	74.8	+3.2	+9.1	14.03	+1.2	+1.5	36.6	+1.2	38.3	-2	
Cotton small wares.....	83.0	80.9	+1.8	+15.1	78.6	75.6	+3.6	+20.2	18.18	+1.7	+4.6	38.6	+1.0	47.7	+6	
Dyeing and finishing textiles.....	111.3	122.2	+2.5	+9.2	94.3	103.3	+5.8	+7.9	20.56	+3.3	-1.3	38.5	+2.3	52.9	+6	
Hats, fur-felt.....	87.2	93.7	+3.9	-1.0	85.4	84.1	+3.1	-2.0	24.21	-7	-1.0	34.3	-1.3	70.1	-1.1	
Hosiery.....	145.2	152.4	+2.4	+5.2	137.0	161.1	+11.5	+1.8	19.14	+0.0	-3.1	36.0	+7.1	53.3	+8	
Knitted outerwear.....	83.7	78.1	+8.3	+12.5	78.5	63.8	+12.8	+20.4	17.45	+4.1	+6.9	38.7	+4.6	41.8	-8	
Knitted underwear.....	77.4	77.1	+5.3	+13.2	68.9	68.0	+5.2	+19.6	14.92	-1	+5.5	37.0	-7	40.4	+6	
Knitted cloth.....	158.2	110.4	+3.3	+5.2	129.8	116.6	+2.3	+2.9	18.86	-9	-1.8	39.3	-1	46.9	-1.2	
Silk and rayon goods.....	60.3	62.8	+4.5	-1.6	49.6	52.0	+8.0	-1.1	15.71	+3.4	+6	37.0	+4.5	42.2	-9	
Woolen and worsted goods.....	81.3	86.2	-1	+8.4	67.2	71.5	-1.6	+8.3	19.18	-1.5	-(2)	36.4	-8	52.7	-7	
<b>Wearing apparel.....</b>	<b>118.5</b>	<b>122.1</b>	<b>+11.5</b>	<b>+1.9</b>	<b>96.6</b>	<b>98.4</b>	<b>+23.5</b>	<b>+6.7</b>	<b>18.80</b>	<b>+10.7</b>	<b>+4.7</b>	<b>35.2</b>	<b>+4.4</b>	<b>51.3</b>	<b>+3.7</b>	
Clothing, men's.....	107.5	110.2	+4.8	+3.0	83.9	86.5	+10.3	+12.8	20.29	+5.2	+9.4	34.6	+3.8	58.0	+1.3	
Clothing, women's.....	167.6	174.3	+21.1	+1.0	129.3	132.9	+37.2	+9	20.14	+13.4	-1	34.8	+2.7	52.4	+0.8	
Corsets and allied garments.....	107.6	114.0	+2.0	+13.6	104.6	112.2	-1.0	+21.9	16.27	-3.0	+7.4	35.2	-5.3	45.8	+2.0	
Men's furnishings.....	131.9	131.2	+5.8	+3.7	122.3	120.2	+13.9	+11.7	14.27	+7.6	+7.8	35.9	+4.8	38.9	+2.4	
Millinery.....	66.8	78.2	+39.9	-2.2	60.0	66.8	+82.1	+7	24.05	+30.2	+2.9	35.9	+18.7	62.4	+5.1	
Shirts and collars.....	117.0	119.9	+2.1	-3	105.6	102.5	+12.4	+13.1	13.63	+10.1	+13.3	35.8	+10.4	38.5	+2	

See footnotes at end of table.

TABLE 3.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, August 1939—Continued*

## MANUFACTURING—Continued

Industry	Employment				Pay rolls				Average weekly earnings			Average hours worked per week		Average hourly earnings		
	Indexes, August 1939		Percentage change from—		Indexes, August 1939		Percentage change from—		Percentage change from—			August 1939	Per-centage change from July 1939	August 1939	Per-centage change from July 1939	
	Old series	New series	July 1939	August 1938	Old series	New series	July 1939	August 1938	August 1939	Percentage change from—						
										July 1939	August 1938					
<i>Nondurable goods—Continued</i>																
Leather and its manufactures.....	94.6	100.8	+1.1	+2.0	79.4	85.1	+1.8	+2.8	\$19.65	+0.6	+0.7	37.4	-0.4	<i>Cents</i> 52.6	+1.0	
Boots and shoes.....	95.2	100.4	+1.3	+7	75.8	83.5	+1.9	+8	18.54	+7	+2	37.5	-8	49.3	+1.3	
Leather.....	84.2	85.5	-1	+8.8	85.5	83.1	+1.4	+9.8	24.29	+1.5	+8	38.6	+1.5	63.3	+2	
Food and kindred products.....	140.0	147.1	+9.0	+1.1	136.1	135.1	+5.1	+4.0	23.93	+3.7	+2.8	40.5	+9	59.5	-2.9	
Baking.....	146.2	146.9	-6	+1.2	142.2	135.3	-2.7	+1.7	25.49	-2.1	+6	41.1	-2.5	62.4	+(?)	
Beverages.....	262.7	295.4	-1.9	+1.0	326.1	350.2	-2.4	+1.3	34.74	-5	+2	40.4	-5	86.8	-1	
Butter.....	107.0	102.9	-1.0	-2.8	92.1	86.7	-2.4	-2.4	22.57	-1.4	+3	47.2	-1.6	47.9	+(?)	
Canning and preserving.....	248.1	289.3	+46.9	-1.8	232.2	251.1	+63.4	+13.6	17.20	+11.3	+15.4	39.4	+11.3	44.7	-(?)	
Confectionery.....	75.0	78.5	+11.9	+4.8	76.0	76.7	+19.5	+9.5	18.93	+6.8	+4.5	37.9	+10.8	50.6	-2.4	
Flour.....	79.1	79.9	-3.0	+1.6	79.7	76.8	-4.6	+1.3	25.95	-1.6	-4	42.4	-1.6	60.5	-2	
Ice cream.....	91.5	89.4	-3.6	-1.7	78.9	74.2	-3.6	-1.7	29.29	-1	-1	46.8	-1.8	62.3	+2.6	
Slaughtering and meat packing.....	98.5	100.2	-5	+4.7	108.8	105.8	-3.1	+3.8	27.77	-2.7	-7	40.4	-2.9	68.8	+1	
Sugar, beet.....	82.7	88.3	+54.3	+10.8	79.6	85.7	+59.9	+17.6	25.22	+3.6	+6.3	40.1	+21.0	63.8	-15.7	
Sugar refining, cane.....	91.2	98.6	-1.7	+2	78.0	80.8	-1.3	-2.7	23.05	-4	-3.8	36.6	+1.2	63.0	-1.7	
Tobacco manufactures.....	65.2	66.6	+1.8	+1.4	60.7	62.7	+1.5	+2.6	17.43	-4	+1.2	36.9	-4	47.2	-6	
Chewing and smoking tobacco and snuff.....	59.1	60.7	+2.6	-2.2	67.9	67.3	-(?)	+2.7	18.04	-2.6	+4.9	34.9	-1.3	51.7	-1.4	
Cigars and cigarettes.....	66.0	67.3	+1.9	+0.9	59.7	62.1	+1.9	+2.9	17.30	0	+1.0	37.1	-2	46.7	-6	
Paper and printing.....	105.7	110.9	+7	+3.1	102.3	103.7	+1.7	+4.5	28.04	+1.0	+1.4	38.1	+1.8	76.4	-7	
Boxes, paper.....	105.1	114.3	+4.2	+10.9	111.8	124.6	+6.9	+14.9	21.71	+2.6	+3.5	40.2	+3.3	54.4	-5	
Paper and pulp.....	107.0	107.0	+1.1	+4.1	107.6	107.7	+6.4	+5.6	24.65	+5.2	+1.5	39.9	+5.0	61.8	+1	
Printing and publishing:																
Book and job.....	99.3	98.3	-8	+3	88.4	83.4	-2.5	+2.6	29.78	-1.7	+2.3	37.8	-1.2	79.7	-1.0	
Newspapers and periodicals.....	103.7	112.0	+1	+1.2	103.5	102.2	+(?)	+2.4	36.75	-1	+1.0	35.7	+7	99.8	-4	
Chemical, petroleum, and coal products.....	107.8	109.1	-1.2	-2	119.5	118.9	+9	-2.5	29.64	+2.2	+1.7	38.5	+1.6	77.0	-(?)	
Petroleum refining.....	121.5	122.7	+8	-3	135.8	135.9	+3.4	-1.6	34.76	+2.6	-1.4	35.8	+3.3	97.5	-9	
Other than petroleum refining.....	104.5	105.7	-1.8	-3	114.5	113.6	0	+4.0	27.17	+1.8	+4.0	39.6	+1.1	68.6	+1	
Chemicals.....	117.0	119.1	+1.7	+6.1	133.6	136.1	+4.1	+10.5	31.63	+2.4	+4.1	40.1	+2.1	78.9	+3	
Cottonseed—oil, cake, and meal.....	49.3	56.7	+14.9	-27.9	42.8	47.5	+13.9	-24.9	13.69	-9	+4.1	42.3	+1	31.0	-2	
Druggists' preparations.....	106.0	107.3	+1.4	-2.0	119.2	118.9	+9	+11.8	23.84	-5	+3.9	39.9	-1.1	59.9	-2	
Explosives.....	89.4	93.3	+2.3	+9.1	104.2	109.1	+6.2	+1.7	32.20	+3.8	+2.5	40.2	+4.7	80.2	-8	
Fertilizers.....	65.9	73.9	+6	-4.4	62.4	62.7	-1.2	-4.5	17.26	-1.7	-2	35.8	-1.5	48.3	-1	
Paints and varnishes.....	117.2	122.1	-(?)	+6.0	123.2	125.6	+1.2	+10.8	28.47	+1.3	+4.6	40.3	+7	70.7	+5	
Rayon and allied products.....	266.1	255.1	-14.1	-9.5	269.4	246.6	-12.9	-6.8	24.81	+1.4	+3.0	38.6	+8	64.3	+6	
Soap.....	96.5	86.0	+4.9	+6.4	98.3	102.3	+3.3	+7.8	28.98	-1.5	+1.3	39.6	-1	73.3	-1.5	

<b>Rubber products</b> .....	82.8	82.6	+5.0	+14.2	88.3	86.0	+5.5	+27.0	28.44	+5	+11.2	36.9	+1.4	77.1	-3
Rubber boots and shoes .....	60.5	58.5	+29.6	+11.9	60.6	58.4	+37.4	+19.1	22.92	+6.1	+6.4	37.3	+4.3	61.5	+1.6
Rubber tires and inner tubes .....	68.9	68.3	+2.6	+13.7	80.6	78.5	+1.9	+33.0	33.73	-7	+17.0	35.2	-1.0	96.2	-1
Rubber goods other .....	131.1	132.9	+1.7	+15.8	129.7	127.1	+4.7	+20.4	23.23	+2.9	+3.9	38.8	+3.2	60.5	+2

## NONMANUFACTURING

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

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index, August 1939	Percentage change from—		Index, August 1939	Percentage change from—		August 1939	Percentage change from—		August 1939	Percentage change from—		August 1939	Percentage change from—	
		July 1939	August 1938		July 1939	August 1938		July 1939	August 1938		July 1939	August 1938		July 1939	August 1938
<b>Coal mining:</b>															
Anthracite <sup>3</sup> .....	48.6	+8.8	+20.2	33.3	+32.2	+66.3	\$22.96	+21.5	+28.6	23.8	+17.0	+24.4	93.3	-0.2	+2.5
Bituminous <sup>3</sup> .....	81.5	+2.6	+1.6	74.9	+16.1	+16.6	24.96	+13.2	+14.7	27.7	+14.0	+16.1	89.4	-2	-9
Metalliferous mining.....	60.2	-3	+17.1	53.2	+9.7	+21.8	27.06	+10.1	+4.0	39.3	+9.8	+1.0	69.5	+5	+3.2
Quarrying and nonmetallic mining.....	48.2	+1.3	+8.1	43.0	+4.9	+9.5	22.38	+3.6	+1.3	40.6	+4.3	-2.0	55.0	-6	+3.6
Crude-petroleum producing.....	66.6	-1.0	-8.0	61.8	-3	-7.5	33.87	+7	+6	38.5	+2.1	-4.2	88.2	-1.3	+4.7
<b>Public utilities:</b>															
Telephone and telegraph <sup>4</sup> .....	75.6	+2	+1.1	95.2	+6	+4.3	30.20	+4	+3.2	39.2	+6	+2.3	80.3	-( <sup>5</sup> )	+4
Electric light and power and manufactured gas <sup>4</sup> .....	93.8	+6	+1.2	101.0	+1.0	+2.1	33.87	+4	+9	30.9	+3.3	-8	85.1	-2.5	+1.6
Electric-railroad and motorbus operation and maintenance <sup>4</sup> .....	69.8	+2	+5	70.9	+5	+2.1	33.20	+3	+1.6	46.0	+6	+1.8	71.4	-3	-2
<b>Trade:</b>															
Wholesale <sup>4</sup> .....	89.0	+1.2	+1.5	76.1	+4	+3.3	29.76	-8	+1.7	41.9	+1.4	-8	71.0	-2.4	+2.7
Retail <sup>4</sup> .....	82.5	-1.3	+3.1	69.4	-2.1	+3.9	21.39	-7	+7	42.8	+3	-4	55.3	-8	+1.1
General merchandising <sup>4</sup> .....	89.8	-2.1	+3.9	81.1	-3.2	+2.9	18.07	-1.1	-1.0	38.5	-1	-8	50.1	-( <sup>5</sup> )	+3
Other than general merchandising <sup>4</sup> .....	80.6	-1.1	+2.9	67.0	-1.7	+4.1	23.09	-6	+1.2	44.0	+4	-3	56.8	-1.0	+1.4
Hotels (year-round) <sup>3 4 5</sup> .....	89.9	-4	-4	79.4	+4	+2.6	15.13	+9	+3.1	46.9	+6	-1	32.3	+2	+2.4
Laundries <sup>3</sup> .....	99.2	-8	+1.7	86.0	-2.3	+3.5	17.60	-1.5	+1.8	42.9	-1.5	-8	41.3	-1	+2.2
Dyeing and cleaning <sup>3</sup> .....	102.6	-3.7	-2.3	73.0	-6.2	-1.6	19.45	-1.6	+6	41.6	-1.6	-2.0	48.3	+2	+2.1
Brokerage <sup>4</sup> .....	( <sup>6</sup> )	+1	-8.0	( <sup>6</sup> )	-1.7	-8.3	35.17	-1.8	-4	( <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> )	+2	+1.1	( <sup>6</sup> )	-6	+2.0	34.43	-7	+9	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
<b>Building construction</b> .....	( <sup>6</sup> )	+8	+6.9	( <sup>6</sup> )	+1.2	+11.7	30.91	+5	+4.0	33.5	-3	+5	92.4	+7	+3.7

<sup>1</sup> Average weekly earnings are computed from figures furnished by all reporting establishments. A average hours and average hourly earnings are computed from data supplied by a smaller number of establishments, as not all reporting firms 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. Hours and earnings for all manufacturing industries relate to 90 industries instead of 87 which were covered in the July and prior issues of the pamphlet, due to the separation of the knit goods industry into its four component divisions.

<sup>2</sup> Less than 1/10 of 1 percent.

<sup>3</sup> Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this publication.

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

<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*

MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1937 Census of Manufactures for all industries except automobiles. Not comparable to indexes published in earlier issues of pamphlet. Comparable series available upon request. See text in summary relative to adjustment]

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>		
	August 1939	July 1939	June 1939	August 1939	July 1939	June 1939	August 1939	July 1939	June 1939	August 1939	July 1939	June 1939	August 1939	July 1939	June 1939
<b>All manufacturing.....</b>	<b>96.4</b>	<b>93.5</b>	<b>93.4</b>	<b>89.8</b>	<b>84.4</b>	<b>86.5</b>	<b>\$24.53</b>	<b>\$23.71</b>	<b>\$24.23</b>	<b>38.0</b>	<b>36.6</b>	<b>37.2</b>	<i>Cents</i> <b>63.9</b>	<i>Cents</i> <b>64.3</b>	<i>Cents</i> <b>64.8</b>
Durable goods.....	84.1	83.0	84.6	81.6	78.1	80.7	27.94	26.44	27.36	38.3	36.1	37.4	71.6	71.8	72.4
Nondurable goods.....	108.1	103.5	101.8	99.0	93.7	93.0	21.60	21.27	21.33	37.7	37.0	37.1	57.9	58.1	58.2
<i>Durable goods</i>															
<b>Iron and steel and their products, not including machinery.....</b>	<b>92.3</b>	<b>89.7</b>	<b>90.4</b>	<b>87.8</b>	<b>78.6</b>	<b>82.6</b>	<b>28.13</b>	<b>25.82</b>	<b>26.89</b>	<b>37.0</b>	<b>34.2</b>	<b>35.6</b>	<b>75.6</b>	<b>76.0</b>	<b>75.7</b>
Blast furnaces, steel works, and rolling mills..	97.0	95.3	95.7	92.5	82.0	85.9	30.13	27.12	28.30	35.6	32.1	33.6	84.4	84.9	84.2
Bolts, nuts, washers, and rivets.....	96.9	92.9	93.2	104.0	83.1	90.4	26.17	21.79	23.59	38.0	31.8	34.0	68.9	68.5	69.5
Cast-iron pipe.....	75.3	74.6	73.0	67.9	65.8	65.7	21.81	21.28	21.73	37.4	36.6	37.2	58.0	57.8	58.0
Cutlery (not including silver and plated cutlery) and edge tools.....	92.1	86.5	90.4	79.5	76.1	82.4	22.34	22.66	23.56	38.1	37.6	38.8	59.8	61.2	61.4
Forgings, iron and steel.....	55.6	54.4	54.4	59.4	54.8	55.8	29.10	27.43	27.95	38.3	36.2	36.5	76.0	75.8	76.6
Hardware.....	75.6	69.0	72.1	79.8	65.4	73.8	26.03	23.38	25.21	39.0	37.4	38.5	66.7	62.5	65.5
Plumbers' supplies.....	77.8	76.7	75.8	71.1	65.3	67.5	26.43	24.70	25.56	38.9	36.8	38.1	68.0	67.3	67.1
Stamped and enameled ware.....	151.9	143.7	147.3	152.8	137.4	146.4	23.51	22.68	23.44	38.6	36.4	37.3	60.5	62.8	62.5
Steam and hot-water heating apparatus and steam fittings.....	78.4	75.7	75.0	67.9	60.0	62.9	26.47	24.23	25.66	37.9	35.1	36.9	69.9	69.1	69.6
Stoves.....	90.2	85.5	87.5	77.7	72.7	76.9	24.78	24.43	25.20	37.7	37.0	37.9	66.0	66.1	66.6
Structural and ornamental metalwork.....	71.5	68.8	67.1	64.2	59.0	58.8	28.79	27.56	28.13	39.6	37.9	39.1	72.8	72.8	72.1
Tin cans and other tinware.....	107.4	100.2	97.7	114.9	102.8	103.2	24.20	23.12	23.82	39.9	38.1	39.4	60.8	60.5	60.4
Tools (not including edge tools, machine tools, files, and saws).....	83.5	79.7	83.7	79.4	72.2	79.4	23.97	22.88	24.05	38.6	36.8	39.0	62.3	62.3	61.8
Wirework.....	116.1	125.9	136.3	115.5	124.0	138.4	24.76	24.54	25.26	36.8	35.9	37.6	67.4	68.4	67.3
<b>Machinery, not including transportation equipment.....</b>	<b>96.8</b>	<b>95.7</b>	<b>95.6</b>	<b>96.9</b>	<b>94.0</b>	<b>95.4</b>	<b>28.07</b>	<b>27.55</b>	<b>27.97</b>	<b>39.0</b>	<b>38.0</b>	<b>38.6</b>	<b>72.1</b>	<b>72.4</b>	<b>73.5</b>
Agricultural implements (including tractors).....	114.4	113.0	118.7	124.0	122.7	127.3	29.11	29.20	28.85	37.4	37.4	37.1	78.1	78.5	78.0
Cash registers, adding machines, and calculating machines.....	124.6	127.2	128.3	119.4	123.0	124.5	30.23	30.52	30.62	37.0	37.5	37.6	82.2	81.8	82.1
Electrical machinery, apparatus, and supplies.....	87.8	86.8	86.5	93.4	91.0	91.6	28.50	28.05	28.42	38.8	37.8	38.3	73.7	74.3	74.4
Engines, turbines, water wheels, and windmills.....	96.8	96.2	99.0	113.5	110.2	114.3	31.01	30.36	30.57	40.1	39.2	39.2	77.8	77.9	78.2
Foundry and machine-shop products.....	84.1	82.6	82.6	78.4	74.8	76.9	27.78	26.95	27.71	38.8	37.6	38.7	71.5	71.6	71.6
Machine tools.....	140.3	147.4	144.8	160.9	165.7	165.6	31.72	31.23	31.78	42.6	41.8	42.4	74.6	74.8	75.0
Radios and phonographs.....	135.9	129.6	119.9	122.8	113.6	104.5	22.38	21.71	21.63	38.9	37.7	37.2	57.6	57.6	58.3

Textile machinery and parts.....	77.6	77.1	75.3	74.6	74.7	73.4	26.47	26.63	26.70	40.1	40.5	40.5	66.1	65.8	66.1
Typewriters and parts.....	117.9	120.6	124.9	116.5	113.4	112.7	24.24	23.05	22.13	37.8	36.0	34.5	64.1	64.0	64.0
Transportation equipment.....	76.3	79.9	90.8	79.2	76.6	88.9	33.38	31.06	31.73	38.1	35.1	36.3	88.8	88.4	89.3
Aircraft.....	1,413.5	1,398.9	1,304.8	1,380.9	1,337.9	1,299.2	30.59	29.94	31.17	41.7	40.7	42.0	74.3	73.7	73.6
Automobiles.....	71.8	76.4	91.6	76.2	72.9	88.6	34.77	31.50	31.94	37.7	34.0	34.3	93.5	92.8	93.3
Cars, electric and steam-railroad.....	31.9	32.0	35.1	27.2	24.7	30.0	26.90	24.36	26.94	36.2	32.8	36.5	74.4	74.2	73.8
Locomotives.....	29.1	28.7	26.0	27.2	26.5	24.5	28.72	28.38	29.01	37.6	37.2	37.7	76.4	76.3	77.0
Shipbuilding.....	121.5	124.4	125.7	128.3	131.5	136.2	31.69	31.71	32.53	38.1	37.6	38.5	82.9	83.2	83.2
Nonferrous metals and their products.....	94.6	91.3	91.3	89.8	83.4	84.0	26.24	25.39	25.52	39.4	37.8	38.2	66.8	67.1	67.0
Aluminum manufactures.....	153.7	149.5	144.4	164.1	148.1	156.9	25.62	24.20	26.65	38.5	35.7	39.1	66.4	67.7	68.0
Brass, bronze, and copper products.....	107.7	104.0	104.2	113.4	106.8	103.1	28.76	28.31	27.32	40.5	39.7	38.8	71.2	71.7	70.7
Clocks and watches and time-recording devices.....	82.8	79.8	79.9	85.0	76.4	76.4	22.88	21.34	21.30	39.2	36.3	36.4	58.4	58.7	58.5
Jewelry.....	94.2	87.0	84.5	76.9	68.6	69.7	22.89	22.20	23.12	39.7	37.7	38.8	56.8	57.9	59.1
Lighting equipment.....	73.0	70.5	71.2	58.3	53.5	55.7	26.06	24.66	24.79	37.6	35.8	35.6	69.3	68.9	69.7
Silverware and plated ware.....	68.9	62.6	67.8	59.3	50.8	57.6	25.03	23.44	24.53	39.0	37.0	38.5	64.1	64.0	64.0
Smelting and refining—copper, lead, and zinc.....	74.6	76.0	76.5	70.8	70.6	71.8	26.64	26.05	26.34	38.2	37.5	38.1	69.8	69.5	69.1
Lumber and allied products.....	68.7	66.7	66.3	62.9	56.3	60.1	21.21	19.62	20.96	39.5	36.8	39.1	54.1	53.7	54.3
Furniture.....	87.5	81.3	83.2	75.5	68.0	68.0	20.90	19.47	19.91	39.7	37.1	38.0	52.9	52.8	52.7
Lumber:															
Millwork.....	61.4	59.7	59.6	49.5	45.3	47.5	22.75	21.41	22.45	42.2	39.7	41.4	53.0	54.0	54.3
Sawmills.....	62.7	61.1	60.9	56.8	50.4	55.9	20.95	19.16	21.26	38.7	35.9	39.2	54.8	54.0	55.2
Stone, clay, and glass products.....	80.8	79.7	80.5	71.7	65.9	70.6	24.26	22.60	23.94	37.7	35.3	37.2	64.7	64.6	64.7
Brick, tile, and terra cotta.....	61.8	61.5	61.3	50.1	46.4	50.1	21.17	19.58	21.25	39.2	36.6	39.5	53.9	53.1	53.8
Cement.....	72.6	72.5	71.6	69.9	68.1	68.4	27.32	26.84	27.31	38.9	38.0	39.1	70.3	70.6	69.6
Glass.....	98.5	96.3	99.0	102.9	91.5	100.8	25.53	23.26	24.86	35.7	32.5	35.0	71.8	71.6	71.1
Marble, granite, slate, and other products.....	53.2	54.1	51.8	40.3	39.6	39.8	26.54	25.83	26.76	37.6	35.7	37.5	71.1	72.9	71.8
Pottery.....	84.7	81.8	85.5	75.1	65.6	73.0	22.25	20.30	21.59	38.0	35.8	36.2	61.8	61.7	63.1
<i>Nondurable goods</i>															
Textiles and their products.....	108.5	98.1	98.0	88.3	79.3	79.6	17.22	16.47	16.51	36.1	35.2	35.4	47.9	47.1	47.2
Fabrics.....	93.1	91.1	89.6	80.2	76.5	75.6	16.66	16.24	16.20	36.7	35.9	35.9	45.8	45.8	45.8
Carpets and rugs.....	75.6	73.8	73.4	63.5	57.3	57.4	23.34	21.61	21.77	35.8	33.9	34.3	63.7	63.6	63.6
Cotton goods.....	87.3	85.7	84.1	74.8	72.5	70.9	14.03	13.83	13.69	36.6	36.1	35.8	38.3	38.3	38.3
Cotton small wares.....	80.9	79.5	77.0	75.6	73.0	70.3	18.18	17.78	17.75	38.6	38.5	37.9	47.7	47.1	47.4
Dyeing and finishing textiles.....	122.2	119.2	116.8	103.3	97.6	97.1	20.56	19.87	20.29	38.5	37.6	37.4	52.0	52.4	53.7
Hats, fur-felt.....	93.7	90.2	85.7	84.1	81.6	73.5	24.24	24.35	23.24	34.3	34.6	33.4	70.1	71.1	70.9
Hosiery.....	152.4	148.9	148.7	161.1	144.4	147.8	10.14	17.63	17.95	36.0	33.7	34.3	53.3	52.8	52.0
Knitted outerwear.....	78.1	72.1	70.5	63.8	56.6	55.8	17.45	16.76	16.96	38.7	36.9	36.7	44.8	45.3	46.1
Knitted underwear.....	77.1	73.2	74.5	68.0	64.7	67.2	14.92	14.90	15.13	37.0	37.1	37.5	40.4	40.2	40.5
Knitted cloth.....	140.4	135.9	135.2	116.6	114.0	110.5	18.86	18.34	17.87	39.3	39.2	38.3	46.9	46.1	45.8
Silk and rayon goods.....	62.8	60.1	58.7	52.0	48.1	47.6	15.71	15.15	15.38	37.0	35.3	35.4	42.2	42.5	43.0
Woolen and worsted goods.....	86.2	86.3	84.5	71.5	72.7	71.0	19.18	19.42	19.32	36.4	36.8	36.7	52.7	53.0	52.6
Wearing apparel.....	122.1	109.5	112.6	98.4	79.7	82.3	18.80	17.14	17.46	35.2	33.7	34.6	51.3	49.5	49.8
Clothing, men's.....	110.2	105.1	100.4	86.5	78.4	73.9	20.29	19.07	19.04	34.6	33.4	33.8	58.0	55.5	56.8
Clothing, women's.....	174.3	143.9	157.9	132.9	90.8	106.0	20.14	17.71	18.06	34.8	34.1	35.6	52.4	48.6	47.8
Corsets and allied garments.....	114.0	111.8	112.9	112.2	113.4	117.0	16.27	16.73	17.09	35.2	37.1	38.0	45.8	44.9	45.1
Men's furnishings.....	131.2	123.9	127.4	120.2	105.5	111.4	14.27	13.19	13.83	35.9	34.5	35.7	38.9	37.5	37.7
Millinery.....	78.2	65.9	68.2	66.8	36.7	45.2	24.05	18.06	18.43	35.9	30.4	28.8	62.4	59.8	63.0
Shirts and collars.....	119.9	117.5	118.5	102.5	91.2	98.0	13.63	12.38	13.33	35.8	32.5	34.2	38.5	38.3	39.4

See footnotes at end of table.

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

## MANUFACTURING—Continued

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	August 1939	July 1939	June 1939	August 1939	July 1939	June 1939	August 1939	July 1939	June 1939	August 1939	July 1939	June 1939	August 1939	July 1939	June 1939
<i>Nondurable goods—Continued</i>															
<i>Leather and its manufactures.....</i>	100.8	99.7	94.1	85.1	83.6	74.6	\$19.65	\$19.72	\$18.65	37.4	37.5	35.1	<i>Cents</i> 52.6	<i>Cents</i> 52.1	<i>Cents</i> 52.7
Boots and shoes.....	100.4	99.1	92.5	83.5	81.9	70.4	18.54	18.74	17.28	37.5	37.7	34.5	49.3	49.8	50.5
Leather.....	85.5	85.5	84.8	83.1	82.0		24.29	23.96	24.30	38.6	38.0	38.7	63.3	62.9	63.0
<i>Food and kindred products.....</i>	147.1	135.0	127.2	135.1	123.6	123.8	23.93	24.61	25.13	40.5	40.1	40.5	59.5	61.5	62.2
Baking.....	146.9	147.8	147.4	135.3	139.1	138.1	25.49	26.05	25.96	41.1	42.1	42.2	62.4	62.4	61.8
Beverages.....	295.4	301.1	298.0	350.2	359.0	355.3	34.74	34.93	34.78	40.4	40.7	40.8	86.8	86.8	85.5
Butter.....	102.9	103.9	103.1	86.7	88.8	87.3	22.57	22.96	22.63	47.2	48.0	47.7	47.9	48.0	47.3
Canning and preserving.....	289.3	197.0	141.2	251.1	153.7	110.3	17.20	15.49	15.54	39.4	34.6	34.2	44.7	44.5	46.4
Confectionery.....	78.5	70.2	72.0	76.7	64.2	60.1	18.93	17.66	18.52	37.9	34.0	36.6	50.6	51.9	50.5
Flour.....	79.9	82.5	79.2	76.8	80.4	74.3	25.95	26.28	25.40	42.4	43.3	42.0	60.5	60.4	60.3
Ice cream.....	89.4	92.7	92.2	74.2	77.0	75.2	29.29	29.03	28.42	46.8	47.5	47.1	62.3	60.4	59.9
Slaughtering and meat packing.....	100.2	100.7	99.4	105.8	109.2	106.7	27.77	28.54	28.25	40.4	41.6	40.9	68.8	68.7	69.1
Sugar.....	88.3	57.2	54.2	85.7	53.6	59.2	25.22	23.96	27.89	40.1	32.5	41.1	63.8	75.7	70.0
Sugar refining, cane.....	98.6	97.9	91.0	80.8	80.6	77.2	23.05	23.15	23.87	36.6	36.1	37.0	63.0	64.1	64.5
<i>Tobacco manufactures.....</i>	96.6	65.4	65.2	62.7	61.8	61.5	17.43	17.48	17.19	36.9	37.0	36.6	47.2	47.6	47.4
Chewing and smoking tobacco and snuff.....	60.7	59.1	60.8	67.3	67.3	65.1	18.04	18.52	17.25	34.9	35.3	33.9	51.7	52.4	51.2
Cigars and cigarettes.....	67.3	66.1	65.7	61.1	61.0	60.4	17.30	17.26	17.17	37.1	37.2	36.9	46.7	47.0	47.0
<i>Paper and printing.....</i>	110.9	110.1	109.8	103.7	102.0	103.5	27.57	28.10	27.57	38.1	37.5	38.1	78.4	77.0	77.0
Boxes, paper.....	114.3	109.7	108.2	124.6	116.5	117.6	21.71	21.19	21.75	40.2	38.9	39.8	54.4	54.8	55.1
Paper and pulp.....	107.0	105.8	106.1	107.7	101.2	104.5	24.65	23.40	24.13	39.9	38.0	39.0	61.8	61.6	61.8
Printing and publishing:															
Book and job.....	98.3	99.1	96.5	83.4	85.6	83.7	29.78	30.16	30.28	37.8	38.3	38.1	70.7	80.2	80.9
News papers and periodicals.....	112.0	111.9	114.0	102.2	102.2	105.7	36.75	36.78	37.28	35.7	35.5	36.0	99.8	100.1	99.9
<i>Chemical, petroleum, and coal products.....</i>	109.1	110.4	109.8	118.9	117.8	118.7	29.04	29.99	29.87	38.5	37.9	38.5	77.0	77.0	78.2
Petroleum refining.....	122.7	121.8	120.5	135.9	131.5	134.4	34.76	33.91	34.99	35.8	34.7	36.1	97.5	98.5	97.2
Other than petroleum refining.....	105.7	107.6	107.2	113.6	113.6	113.9	27.17	26.71	26.79	39.6	39.1	39.5	68.6	68.5	68.0
Chemicals.....	119.1	117.1	116.5	136.1	130.8	131.5	31.63	30.74	31.07	40.1	39.3	40.0	78.9	78.3	77.7
Cottonseed—oil, cake, and meal.....	59.7	49.3	54.3	47.5	41.7	45.4	13.69	13.55	13.37	42.3	41.1	42.2	31.0	31.3	30.5
Druggists' preparations.....	107.3	105.9	108.3	118.9	117.9	118.7	23.84	23.92	24.95	39.9	40.5	39.8	59.9	59.5	59.2
Explosives.....	93.3	91.1	89.7	109.1	102.8	100.9	32.20	30.97	30.92	40.2	38.4	38.4	80.2	80.7	80.6
Fertilizers.....	73.9	73.4	78.9	62.7	63.4	61.9	17.25	17.65	16.79	35.8	36.4	35.4	48.3	48.5	47.5
Paints and varnishes.....	122.1	122.2	124.3	125.6	124.0	128.9	28.47	28.14	28.62	40.3	40.0	41.1	70.7	70.4	69.7
Rayon and allied products.....	255.1	297.0	236.2	246.6	283.2	271.8	24.81	24.47	24.38	38.6	38.3	37.9	64.3	63.9	64.3
Soap.....	86.0	81.9	79.6	102.3	99.0	97.3	28.98	29.42	29.74	39.6	39.6	40.0	73.3	74.4	74.6

<b>Rubber products</b> .....	82.6	78.7	80.1	86.0	81.5	82.1	28.44	28.22	27.88	36.9	36.4	36.5	77.1	77.3	76.5
Rubber boots and shoes.....	58.5	45.2	56.1	58.4	42.5	55.4	22.92	21.61	22.69	37.3	35.7	37.3	61.5	60.5	60.8
Rubber tires and inner tubes.....	68.3	66.6	66.2	78.5	77.1	74.8	33.73	33.84	33.06	35.2	35.6	34.9	96.2	95.6	94.7
Rubber goods, other.....	132.9	130.7	129.3	127.1	121.4	121.9	23.23	22.47	22.77	38.8	37.6	38.1	60.5	60.4	60.3

# NONMANUFACTURING

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

Coal mining:															
Anthracite <sup>2</sup> .....	48.6	41.7	51.2	33.3	25.2	36.1	22.96	18.65	23.30	23.8	20.2	25.4	93.3	93.1	92.8
Bituminous <sup>2</sup> .....	81.5	79.4	78.3	74.9	61.5	66.5	24.96	22.03	22.75	27.7	24.4	25.2	89.4	89.2	88.6
Metalliferous mining.....	60.2	60.4	61.6	53.2	48.5	53.8	27.06	21.91	27.26	39.3	36.4	39.4	69.5	68.8	69.5
Quarrying and nonmetallic mining.....	48.2	47.5	47.3	43.0	40.9	41.7	22.38	21.69	22.15	40.6	39.0	40.1	55.0	55.5	54.9
Crude-petroleum producing.....	66.6	67.3	67.0	61.8	61.9	62.5	33.87	33.82	34.38	38.5	37.7	38.8	88.2	88.0	96.7
Public utilities:															
Telephone and telegraph <sup>3</sup> .....	75.6	75.4	75.3	95.2	94.6	93.7	30.20	31.06	30.79	39.2	39.1	39.1	86.3	81.5	81.4
Electric light and power and manufactured gas <sup>3</sup> .....	93.8	93.2	92.3	101.0	100.0	100.2	33.87	33.48	33.89	39.9	38.7	40.2	85.1	86.4	84.4
Electric-railroad and motorbus operation and maintenance <sup>3</sup> .....	69.8	69.7	69.9	70.9	70.6	71.2	33.20	33.02	33.21	46.0	45.8	46.2	71.4	71.4	71.1
Trade:															
Wholesale <sup>3</sup> .....	80.0	87.9	88.1	76.1	75.8	75.8	29.76	29.92	29.90	41.9	41.3	42.0	71.0	72.6	71.5
Retail <sup>3</sup> .....	82.5	83.6	86.4	69.4	70.9	72.5	21.39	21.58	21.36	42.8	42.6	42.7	55.3	55.7	55.1
General merchandising <sup>3</sup> .....	89.8	91.7	97.4	81.1	83.8	88.1	18.07	18.25	18.05	38.5	38.5	39.2	50.1	49.9	48.7
Other than general merchandising <sup>3</sup> .....	80.6	81.5	83.5	67.0	68.2	69.3	23.99	24.16	24.00	44.0	43.9	43.8	56.8	57.5	57.1
Hotels (year-round) <sup>2, 3, 4</sup> .....	89.9	90.3	92.8	79.4	79.1	82.0	15.13	15.15	15.30	46.9	46.8	46.8	32.3	32.0	32.6
Laundries <sup>2</sup> .....	99.2	100.0	98.7	86.0	88.0	86.9	17.60	17.85	17.95	42.9	43.3	43.2	41.3	41.6	41.9
Dyeing and cleaning <sup>2</sup> .....	102.6	106.5	110.1	73.0	77.1	84.2	19.45	19.81	21.00	41.6	42.1	43.4	48.3	48.2	49.1
Brokerage <sup>2, 5</sup> .....	+1	-1.5	-2.0	-1.7	-2.1	-2.4	35.17	35.78	35.71	(6)	(6)	(6)	(6)	(6)	(6)
Insurance <sup>2, 5</sup> .....	+2	+6	+4	-6	-1.2	+5	34.43	36.20	36.75	(6)	(6)	(6)	(6)	(6)	(6)
Building construction <sup>5</sup> .....	+8	+4.5	+1.4	+1.2	+4.6	-7	30.91	30.85	30.87	33.5	33.6	33.4	92.4	92.0	92.8

<sup>2</sup> <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 not all reporting firms 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. Hours and earnings for all manufacturing industries relate to 90 industries instead of 87 which were covered in the July and prior issues of the pamphlet, due to the separation of the knit goods industry into its four component divisions.

<sup>2</sup> Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this publication.

<sup>3</sup> Average weekly earnings, hourly earnings, and hours not strictly comparable with figures published in pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

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

<sup>5</sup> Indexes of employment and pay rolls are not available, percentage changes from preceding month substituted.

<sup>6</sup> Not available.

## INDEXES OF EMPLOYMENT AND PAY ROLLS

General indexes of factory employment and pay rolls, adjusted to the 1937 Census of Manufactures, are given in table 5 for the months January 1919 to August 1939. They supersede the previously published series, which was adjusted only to 1935 census figures. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to August 1939 as shown by the adjusted indexes and by the former series of indexes.

Indexes of employment and pay rolls are given in table 6 for all manufacturing industries combined, for the durable- and nondurable-goods groups of manufacturing industries, and for each of 13 non-manufacturing industries, including 2 subgroups under retail trade, by months, from August 1938 to August 1939, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to August 1939.

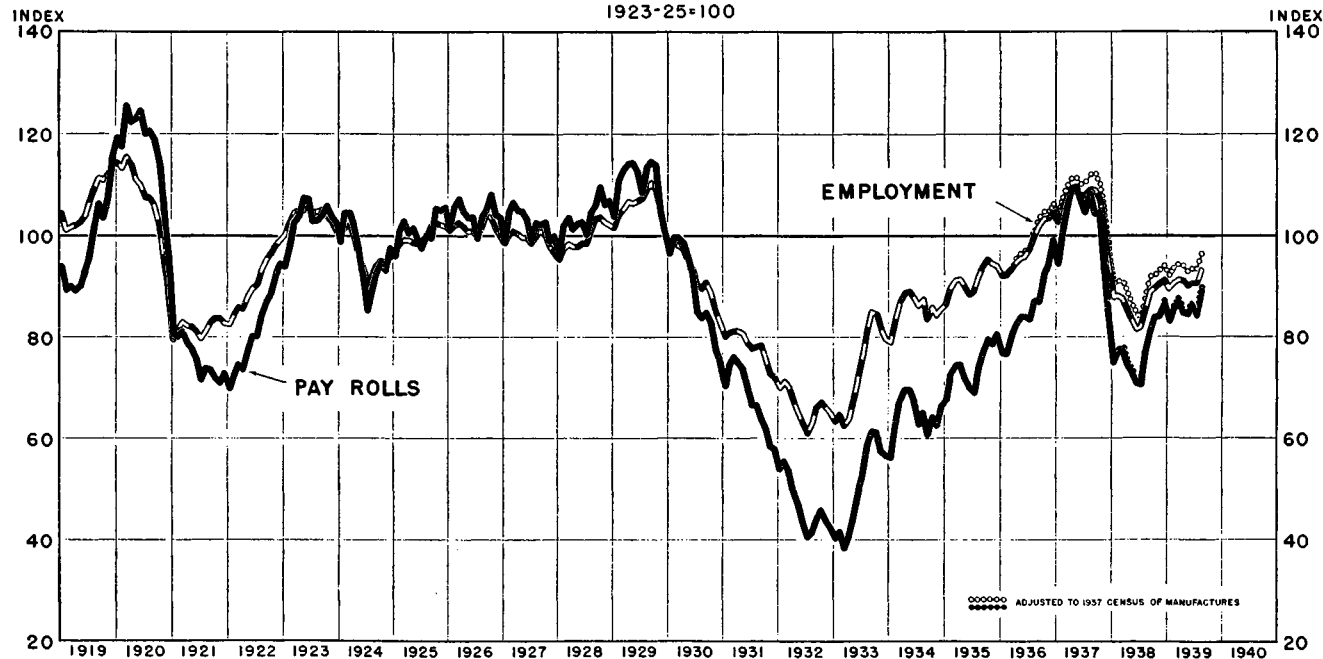
The indexes of factory employment and pay rolls are based on the 3-year average 1923-25 as 100. They relate to wage earners only and are computed from reports supplied by representative manufacturing establishments in 90 manufacturing industries. These reports cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 90 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, and dyeing and cleaning cover wage earners only, but the figures for public utilities, trade, and hotels relate to all employees except corporation officers, executives, and other employees whose duties are mainly supervisory. For crude-petroleum production they cover wage earners and the clerical field force. The coverage of the reporting samples for the various nonmanufacturing industries ranges from approximately 25 percent for wholesale trade and dyeing and cleaning to approximately 80 percent for quarrying and nonmetallic mining, anthracite mining, and public utilities.

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 AND PAY ROLLS ALL MANUFACTURING INDUSTRIES

1923-25=100



UNITED STATES BUREAU OF LABOR STATISTICS

ADJUSTED TO 1935 CENSUS

TABLE 5.—General Indexes of Factory Employment and Pay Rolls by Months, January 1919 to August 1939

[1923-1925=100]

Employment													
Year and month	January	February	March	April	May	June	July	August	September	October	November	December	Average
1919	104.5	101.2	101.7	101.9	102.6	103.9	106.6	109.3	111.3	110.9	112.1	113.9	106.7
1920	114.3	113.3	115.6	114.0	111.1	110.1	107.5	107.4	106.1	102.1	95.6	88.0	107.1
1921	79.5	81.7	82.9	82.3	82.0	81.2	79.7	81.1	83.0	83.7	83.7	82.7	82.0
1922	82.4	84.5	85.8	85.7	87.9	89.6	90.5	93.1	95.1	96.6	98.0	99.1	90.7
1923	100.2	102.4	101.6	105.1	105.2	105.7	104.6	104.8	105.3	104.0	102.8	101.1	103.8
1924	100.1	101.7	101.9	100.1	96.8	93.8	90.6	92.0	94.2	95.0	94.5	96.1	96.4
1925	96.6	98.3	99.2	99.1	98.6	98.4	98.3	100.0	101.9	102.6	102.2	101.8	99.8
1926	101.0	102.0	102.5	101.8	100.8	100.8	99.7	101.8	104.0	103.6	101.6	100.3	101.7
1927	98.6	100.2	100.9	100.3	99.6	99.7	98.6	99.9	101.2	100.2	98.0	96.5	99.5
1928	95.3	97.2	98.2	97.8	97.8	98.5	98.4	101.1	103.3	103.5	102.6	102.1	99.7
1929	101.7	104.1	105.4	106.7	106.5	106.8	107.3	109.2	110.3	109.0	104.6	100.7	106.0
1930	98.2	98.3	97.9	97.3	95.6	93.6	90.4	89.7	90.7	88.7	85.4	82.9	92.4
1931	80.1	80.8	81.2	81.2	80.6	78.8	77.7	77.9	78.3	75.5	72.7	72.0	78.1
1932	70.0	71.2	70.1	67.8	65.2	63.2	61.0	62.7	66.1	67.2	66.3	65.1	66.3
1933	63.3	64.7	62.3	63.9	66.8	71.6	76.2	81.3	85.0	84.6	81.2	79.5	73.4
1934	78.8	83.7	87.2	88.8	89.0	87.8	86.3	87.4	83.5	85.9	84.3	85.6	85.7
1935	86.7	89.6	91.0	91.2	89.9	88.3	88.7	91.7	93.9	95.2	94.6	94.2	91.3
1936	92.3	92.7	93.9	95.5	96.4	97.0	98.4	101.2	103.8	104.9	104.9	106.4	99.0
1937	104.7	107.6	110.1	111.3	111.5	110.3	110.9	112.3	112.3	110.3	104.1	97.4	108.6
1938	90.6	91.1	90.6	88.5	86.1	84.3	84.7	88.8	92.0	92.4	93.3	94.0	89.7
1939	92.2	93.6	94.3	94.1	93.0	93.4	93.5	96.4					

Pay rolls													
Year and month	January	February	March	April	May	June	July	August	September	October	November	December	Average
1919	93.8	89.3	90.0	89.2	90.1	92.7	95.6	101.7	106.3	103.6	107.8	115.4	98.0
1920	119.1	117.4	125.4	122.3	123.0	124.4	120.0	120.6	118.9	114.4	105.0	95.5	117.2
1921	80.6	80.1	81.0	78.8	77.4	75.6	71.6	73.6	73.3	71.9	70.9	72.7	75.6
1922	69.6	72.5	74.1	73.6	77.0	80.0	80.2	81.1	87.0	88.7	92.2	94.5	81.2
1923	93.9	97.8	102.6	103.8	107.3	107.2	102.9	103.1	103.8	105.9	103.9	102.7	102.9
1924	98.9	104.5	104.5	102.0	97.6	91.9	85.3	89.1	92.4	94.6	93.1	97.6	96.0
1925	96.0	101.0	102.8	100.4	101.4	99.2	97.5	100.1	99.4	105.3	105.1	105.5	101.1
1926	101.6	105.7	107.2	104.9	103.5	103.7	99.4	103.8	105.1	108.0	104.3	103.6	104.2
1927	98.6	104.8	106.6	105.0	104.8	103.2	99.1	102.5	102.1	102.7	98.9	100.0	102.4
1928	96.6	102.0	103.5	101.3	102.3	102.7	100.2	104.6	106.2	109.5	106.2	106.9	103.5
1929	103.8	110.8	113.0	114.1	114.3	112.7	108.6	113.5	114.1	113.7	104.9	101.2	110.4
1930	96.5	99.6	99.7	98.5	96.1	92.9	85.0	83.8	84.8	82.9	77.3	75.4	89.4
1931	70.3	74.4	75.0	74.7	73.6	69.9	66.6	66.4	63.8	61.8	58.3	57.8	67.8
1932	54.0	55.4	53.6	49.6	46.8	43.7	40.4	41.4	44.0	45.8	43.6	42.4	46.7
1933	40.3	41.4	38.3	40.4	44.4	49.1	52.7	58.6	61.3	61.1	57.3	56.5	50.1
1934	56.1	62.9	67.2	69.6	69.7	67.4	62.8	65.1	60.8	64.0	62.5	66.2	64.5
1935	67.5	72.6	74.4	74.6	71.8	69.8	69.1	74.0	76.8	79.5	78.6	80.5	74.1
1936	70.9	76.6	80.5	82.6	84.0	84.2	83.5	87.3	87.2	92.9	94.4	99.2	85.8
1937	94.6	100.1	105.0	109.7	110.1	107.6	105.2	108.7	104.9	104.9	93.3	84.6	102.5
1938	73.3	77.5	77.6	74.9	73.2	71.1	71.1	77.3	81.6	84.2	84.4	87.1	77.9
1939	83.7	86.0	87.6	85.5	85.0	86.5	84.4	89.8					

**TABLE 6.—Indexes of Employment and Pay Rolls in Selected Manufacturing<sup>1</sup> and Non-manufacturing<sup>2</sup> Industries, July 1938 to July 1939, Inclusive**

Industry	Employment														
	Av. 1938	1938					1939								
		Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	
<i>Manufacturing</i>															
All industries	89.7	88.8	92.0	92.4	93.3	94.0	92.2	93.6	94.3	94.1	93.0	93.4	93.5	96.4	
Durable goods <sup>3</sup>	77.9	72.4	75.9	79.7	82.9	83.8	82.3	83.3	84.1	84.8	84.0	84.6	83.0	84.1	
Non-durable goods <sup>4</sup>	100.9	101.4	107.3	104.6	103.1	103.8	101.7	103.5	104.0	103.0	101.6	101.8	103.5	108.1	
<i>Nonmanufacturing</i>															
Anthracite mining	52.3	37.6	46.4	52.4	51.0	51.3	50.0	52.2	51.7	53.0	52.6	51.2	44.7	48.6	
Bituminous-coal mining	86.7	80.1	83.4	87.2	88.6	89.3	88.7	88.6	87.4	25.9	47.9	78.3	79.4	81.5	
Metalliferous mining	59.0	51.4	55.2	57.9	61.9	62.3	62.6	60.9	61.0	61.5	61.9	61.6	60.4	60.2	
Quarrying and nonmetallic mining	42.3	44.6	44.6	44.4	44.4	41.4	38.3	37.9	40.1	43.0	45.6	47.3	47.5	48.2	
Crude-petroleum producing	72.1	72.4	71.5	69.5	68.3	67.8	67.0	66.4	66.2	65.8	66.1	67.0	67.3	66.6	
Telephone and telegraph, electric light and power, and manufactured gas	75.1	74.8	74.9	74.7	74.4	74.3	74.1	73.3	73.4	74.1	74.7	75.3	75.4	75.6	
Electric-railroad and motorbus operation and maintenance	92.3	92.7	92.5	92.5	91.9	91.4	90.0	89.6	89.5	90.3	91.0	92.3	93.2	93.8	
Wholesale trade	70.3	69.5	69.3	69.9	69.5	69.4	69.2	69.3	69.5	69.1	69.6	69.9	69.7	69.8	
Retail trade	88.8	87.6	88.5	89.1	89.8	90.0	88.3	87.9	87.4	87.3	87.2	88.1	87.9	89.0	
General merchandising	85.2	80.0	84.7	85.9	86.9	98.1	82.2	81.5	83.8	85.5	85.7	86.4	83.6	82.5	
Other than general merchandising	98.0	86.4	97.0	99.4	104.5	144.1	90.7	88.8	93.2	96.9	96.8	97.4	91.7	89.8	
Year-round hotels	81.8	78.3	81.5	82.3	82.3	86.0	80.0	79.6	81.3	82.5	82.8	83.5	81.5	80.6	
Laundries	92.7	90.4	91.8	92.9	92.5	92.0	91.8	92.6	92.7	93.2	93.9	92.8	90.3	89.9	
Dyeing and cleaning	95.7	97.5	96.5	94.4	93.7	93.4	93.3	92.8	92.9	93.5	93.5	98.7	100.0	99.2	
	104.3	105.0	107.8	106.8	102.5	97.9	91.2	92.1	95.4	102.2	107.0	110.1	106.5	102.6	
<i>Pay rolls</i>															
<i>Manufacturing</i>															
All industries	77.9	77.3	81.6	84.2	84.4	87.1	83.7	86.0	87.6	85.5	85.0	86.5	84.4	89.8	
Durable goods <sup>3</sup>	67.6	63.1	68.1	74.6	77.6	79.6	76.0	77.7	79.4	79.5	78.8	80.7	76.1	81.6	
Non-durable goods <sup>4</sup>	89.6	93.2	96.7	94.9	92.1	95.4	92.4	95.3	96.7	92.2	91.9	13.0	93.7	89.0	
<i>Nonmanufacturing</i>															
Anthracite mining	38.2	20.0	29.4	43.4	26.2	42.5	38.0	45.2	34.2	43.4	57.0	36.1	25.2	33.3	
Bituminous-coal mining	67.9	64.2	71.9	78.3	81.4	80.9	78.2	81.2	77.8	17.6	20.4	66.5	64.5	74.9	
Metalliferous mining	50.4	43.7	46.1	49.2	52.3	54.1	55.3	53.4	53.6	52.6	54.1	53.8	48.5	53.2	
Quarrying and nonmetallic mining	35.1	39.2	38.4	39.2	37.2	33.7	30.2	29.7	33.1	35.9	39.7	41.7	40.9	43.0	
Crude-petroleum producing	66.5	66.8	66.5	63.7	63.3	62.5	60.9	62.7	61.3	60.8	61.2	62.5	61.9	61.8	
Telephone and telegraph, electric light and power, and manufactured gas	92.1	91.3	92.6	95.3	93.0	92.5	92.0	91.7	91.9	92.1	93.7	93.7	94.6	95.2	
Electric-railroad and motorbus operation and maintenance	98.5	98.9	98.4	99.9	98.6	98.2	95.9	96.4	96.7	96.9	98.8	100.2	100.0	101.0	
Wholesale trade	69.7	69.5	68.4	68.9	68.8	69.7	71.1	69.9	70.5	69.6	70.1	71.2	70.6	70.9	
Retail trade	74.7	73.7	74.3	75.1	75.4	75.7	75.5	74.6	74.7	74.8	74.9	75.8	75.8	76.1	
General merchandising	70.4	66.8	69.4	70.8	71.5	79.2	69.7	68.4	69.6	71.3	71.5	72.5	70.9	69.4	
Other than general merchandising	87.8	78.8	85.3	88.3	91.8	122.9	84.0	81.0	83.4	86.6	86.7	88.1	83.8	81.1	
Year-round hotels	66.8	64.3	66.1	67.2	67.3	70.1	66.7	65.8	66.8	68.1	68.3	69.3	68.2	67.0	
Laundries	80.3	77.4	78.9	80.8	81.3	81.1	80.2	82.8	81.1	81.9	82.4	82.0	79.1	79.4	
Dyeing and cleaning	80.6	83.1	81.4	79.5	79.3	80.0	79.6	78.6	79.3	79.9	83.9	86.9	88.0	86.0	
	75.3	74.3	81.7	78.0	73.9	68.3	65.8	63.2	67.7	73.3	83.0	84.2	77.1	73.0	

<sup>1</sup> 3-year average, 1923-25=100—adjusted to 1937 Census of Manufactures.

<sup>2</sup> 12-month average for 1929=100. Comparable indexes are in November 1934 and subsequent issues of Employment and Pay Rolls, or in February 1935 and subsequent issues of Monthly Labor Review, except for anthracite and bituminous-coal mining, year-round hotels, laundries, and dyeing and cleaning. Indexes for these industries from January 1929 forward have been adjusted to the 1935 census and are presented in the January 1938 and subsequent issues of Employment and Pay Rolls.

<sup>3</sup> Includes: Iron and steel, machinery, transportation equipment, nonferrous metals, lumber and allied products, and stone, clay, and glass products.

<sup>4</sup> Includes: Textiles and their products, leather and its manufactures, food and kindred products, tobacco manufactures, paper and printing, chemicals and allied products, products of petroleum and coal, rubber products, and a number of miscellaneous industries not included in other groups.



## TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in July and August 1939 is shown in table 7 for all groups combined and for all manufacturing industries combined based on data supplied by reporting establishments. The percentage changes shown, unless otherwise noted, are unweighted—that is, the industries included in the manufacturing group and in the grand total have not been weighted according to their relative importance.

The totals for all manufacturing industries combined included figures for miscellaneous manufacturing industries in addition to the 90 manufacturing industries presented in table 3. The totals for all groups combined include all manufacturing industries, each of the nonmanufacturing industries presented in table 3 (except building construction), and seasonal hotels.

Similar comparisons showing only percentage changes are available in mimeographed form for "All groups combined," for "All manufacturing," for anthracite mining, bituminous-coal mining, metalliferous mining, quarrying and nonmetallic mining, crude-petroleum producing, public utilities, wholesale trade, retail trade, hotels, laundries, dyeing and cleaning, and brokerage and insurance.

TABLE 7.—*Comparison of Employment and Pay Rolls in Identical Establishments in August 1939, 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 August 1939	Percentage change from July 1939	Amount of pay roll (1 week) August 1939	Percentage change from July 1939	Number of establishments	Number on pay roll August 1939	Percentage change from July 1939	Amount of pay roll (1 week) August 1939	Percentage change from July 1939
				<i>Dollars</i>					<i>Dollars</i>	
<b>New England.....</b>	<b>10,648</b>	<b>812,069</b>	<b>+1.3</b>	<b>13,593,438</b>	<b>+1.2</b>	<b>3,657</b>	<b>634,625</b>	<b>+1.8</b>	<b>14,039,047</b>	<b>+1.9</b>
Maine.....	792	58,263	+2.5	1,157,236	+2.5	282	49,057	+3.0	952,149	+3.1
New Hampshire.....	581	35,876	+2.0	719,168	+2.1	193	29,880	+2.5	582,241	+2.6
Vermont.....	449	16,505	— .8	356,125	— 2.8	143	9,911	— 2.1	208,032	— 3.9
Massachusetts.....	<sup>1</sup> 5,639	418,680	+1.0	9,712,075	+3.3	1,900	310,113	+1.5	6,934,440	+1.1
Rhode Island.....	838	86,669	— 3.1	1,781,111	— 6.3	425	72,800	— 3.7	1,441,529	— 7.6
Connecticut.....	2,349	196,096	+3.7	4,857,121	+6.0	714	162,864	+4.8	3,919,656	+7.4
<b>Middle Atlantic.....</b>	<b>30,759</b>	<b>2,023,344</b>	<b>+1.6</b>	<b>53,691,886</b>	<b>+3.9</b>	<b>6,684</b>	<b>1,239,803</b>	<b>+3.2</b>	<b>32,411,620</b>	<b>+6.3</b>
New York.....	19,294	889,141	+ .9	24,673,535	+1.2	<sup>2</sup> 2,698	<sup>3</sup> 443,946	+4.2	<sup>4</sup> 12,210,875	+5.8
Pennsylvania.....	7,774	786,029	+1.6	20,011,161	+7.4	2,538	502,411	+1.8	12,010,687	+7.5
New Jersey.....	3,691	345,174	+3.1	9,007,190	+4.1	1,608	293,447	+3.8	7,584,055	+5.1
<b>East North Central.....</b>	<b>25,689</b>	<b>1,996,639</b>	<b>+1.6</b>	<b>54,841,014</b>	<b>+5.4</b>	<b>8,299</b>	<b>1,482,930</b>	<b>+2.4</b>	<b>41,701,667</b>	<b>+6.8</b>
Ohio.....	7,571	513,913	+1.9	13,934,828	+6.8	2,363	393,939	+2.9	11,008,576	+8.3
Indiana.....	<sup>2</sup> 2,816	<sup>2</sup> 248,251	+4.3	<sup>3</sup> 6,268,871	+6.8	<sup>1</sup> 1,051	<sup>1</sup> 196,738	+6.7	<sup>3</sup> 6,085,052	+8.2
Illinois.....	<sup>4</sup> 6,749	<sup>4</sup> 693,494	+2.3	<sup>5</sup> 16,190,685	+3.9	<sup>2</sup> 2,494	<sup>2</sup> 403,215	+3.1	<sup>4</sup> 10,815,788	+5.6
Michigan.....	4,211	388,249	— 1.3	12,186,762	+5.6	<sup>1</sup> 1,020	<sup>2</sup> 222,185	— .6	<sup>5</sup> 10,471,455	+6.2
Wisconsin.....	<sup>5</sup> 4,331	<sup>2</sup> 242,732	+1.3	<sup>6</sup> 268,770	+4.7	<sup>1</sup> 1,455	<sup>1</sup> 166,855	+3.9	<sup>4</sup> 4,320,816	+5.8

See footnotes at end of table.

TABLE 7.—Comparison of Employment and Pay Rolls in Identical Establishments in August 1939, by Geographic Divisions and by States—Continued

Geographic division and State	Total—all groups					Manufacturing				
	Number of establishments	Number on pay roll August 1939	Percentage change from July 1939	Amount of pay roll (1 week) August 1939	Percentage change from July 1939	Number of establishments	Number on pay roll August 1939	Percentage change from July 1939	Amount of pay roll (1 week) August 1939	Percentage change from July 1939
				<i>Dollars</i>					<i>Dollars</i>	
<b>West North Central</b>	<b>11,845</b>	<b>436,260</b>	<b>-0.1</b>	<b>10,697,125</b>	<b>+0.4</b>	<b>2,454</b>	<b>219,580</b>	<b>+0.3</b>	<b>5,277,973</b>	<b>+0.2</b>
Minnesota	<sup>7</sup> 2,769	139,891	+1.9	3,745,847	+1.8	647	60,805	+5.3	1,412,232	+2.6
Iowa	1,729	59,265	+1.3	1,433,303	+3.9	357	36,336	+1.9	889,640	+5.4
Missouri	3,011	145,629	-2.7	3,387,815	-2.0	793	88,709	-3.2	2,020,461	-2.6
North Dakota	455	4,550	-(9)	113,419	+1.4	28	510	-1.7	13,162	+1.1
South Dakota	392	5,939	-1.0	141,300	-3.4	29	2,420	-2.5	61,128	-9.3
Nebraska	1,031	26,031	+1.1	595,863	+1.1	139	9,315	+2.0	236,612	+1.8
Kansas	<sup>8</sup> 2,438	54,955	<sup>10</sup> -8.0	1,280,678	<sup>11</sup> -9	401	25,425	-2	644,738	-2.2
<b>South Atlantic</b>	<b>9,657</b>	<b>829,686</b>	<b>+9</b>	<b>16,422,681</b>	<b>+3.0</b>	<b>2,872</b>	<b>575,682</b>	<b>+7</b>	<b>10,366,409</b>	<b>+2.5</b>
Delaware	236	15,190	+4.0	351,474	-1.0	80	11,034	+5.6	241,118	-1.9
Maryland	1,582	133,044	-4.6	3,330,569	-3.8	641	92,381	<sup>12</sup> -6.4	2,331,620	<sup>13</sup> -3.3
District of Columbia	524	34,159	-1.7	918,026	-6	40	3,163	-2.1	109,672	-1.1
Virginia	1,719	113,560	+3.5	2,164,514	+4.0	442	80,386	+2.7	1,483,246	+3.7
West Virginia	1,116	129,343	-1.6	3,369,569	+11.8	205	49,677	+2.7	1,220,551	+12.9
North Carolina	1,444	169,290	-2.8	2,604,932	+5.4	662	152,920	+1.6	2,328,720	+4.9
South Carolina	745	83,323	+1.7	1,189,291	+2.5	241	76,800	+1.9	1,070,009	+3.0
Georgia	1,418	114,458	+1.9	1,784,349	+1.4	385	89,578	+2.4	1,256,585	+1.6
Florida	873	37,319	-1.6	703,957	-2	176	19,683	+2.7	324,888	+5.0
<b>East South Central</b>	<b>4,417</b>	<b>278,733</b>	<b>+3</b>	<b>5,129,792</b>	<b>+3.1</b>	<b>1,011</b>	<b>180,657</b>	<b>+5</b>	<b>3,145,570</b>	<b>+2.6</b>
Kentucky	1,364	72,240	-2	1,568,938	+4.8	290	31,305	-1.5	657,438	+7
Tennessee	1,328	100,312	-2	1,763,759	+1.7	361	75,023	+2	1,305,464	+2.5
Alabama	1,152	86,875	+1.0	1,506,422	+3.4	279	61,648	+1.5	1,012,518	+3.4
Mississippi	573	19,306	+1.1	290,673	+2.0	91	12,813	+3.3	170,150	+6.3
<b>West South Central</b>	<b>5,263</b>	<b>211,278</b>	<b>+1.0</b>	<b>4,722,148</b>	<b>+2.0</b>	<b>1,234</b>	<b>106,025</b>	<b>+1.8</b>	<b>2,284,521</b>	<b>+3.9</b>
Arkansas	<sup>11</sup> 853	25,906	+2.5	418,091	+3.8	251	17,437	+2.9	269,918	+4.3
Louisiana	991	53,738	+3.9	1,045,497	+2.3	223	29,307	+6.1	300,776	+4.3
Oklahoma	1,215	36,559	-2	922,696	+2	140	10,964	-2.4	268,364	+8
Texas	<sup>12</sup> 2,204	95,013	-(9)	2,335,864	+2.2	620	48,317	<sup>13</sup> -7	1,215,463	<sup>14</sup> +5.9
<b>Mountain</b>	<b>3,801</b>	<b>113,745</b>	<b>-4</b>	<b>2,876,410</b>	<b>+5.0</b>	<b>544</b>	<b>35,058</b>	<b>-3.4</b>	<b>881,624</b>	<b>+3.4</b>
Montana	577	16,316	+2.9	453,303	+7.0	67	4,475	+6.1	114,213	+6.8
Idaho	470	9,753	-1.0	249,206	-6.2	61	3,236	-7.1	84,304	+1.5
Wyoming	313	8,130	+1.8	230,741	+10.4	37	1,407	+3.8	45,639	+12.9
Colorado	1,118	36,607	-1	918,490	+4.1	196	14,782	-1.4	389,696	+4.9
New Mexico	279	5,996	+2.5	128,533	+6.9	31	964	+10.8	18,173	+16.7
Arizona	375	13,003	-2.9	348,840	+2.4	38	2,618	-1.1	61,890	+1.4
Utah	540	21,732	-3.5	486,300	+3.3	99	7,236	-13.6	157,582	-4.8
Nevada	129	2,208	+3.4	60,997	+6.6	15	340	+9	10,127	+16.4
<b>Pacific</b>	<b>10,009</b>	<b>500,248</b>	<b>+5.4</b>	<b>14,289,022</b>	<b>+10.1</b>	<b>2,651</b>	<b>284,395</b>	<b>+10.0</b>	<b>7,955,632</b>	<b>+19.3</b>
Washington	2,352	86,818	+4.1	2,309,899	+9.2	531	55,563	+5.4	1,497,425	+13.1
Oregon	1,125	48,037	+5.0	1,228,920	+11.6	288	31,863	+7.6	809,141	+18.4
California	<sup>12</sup> 6,532	365,393	+5.7	10,760,203	+10.1	1,832	196,969	+11.7	5,649,066	+21.2

<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> Weighted percentage change.

<sup>4</sup> Includes automobile and miscellaneous services; restaurants; and building and contracting.

<sup>5</sup> Includes construction but not public works.

<sup>6</sup> Does not include logging.

<sup>7</sup> Includes banks; real estate; pipe line transportation; motor transportation (other than operation and maintenance); water transportation; hospitals and clinics; and personal, business, mechanical repair, and miscellaneous services.

<sup>8</sup> Less than  $\frac{1}{10}$  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 banks, insurance, and office employment.

TABLE 10.—*Employment and Pay Rolls in Government Corporations and Government-Owned Corporations*

Establishment	Number of employees <sup>1</sup>		Total pay roll	
	June 30, 1939	Dec. 31, 1938	6-month period ending June 30, 1939	6-month period ending Dec. 31, 1938
All establishments.....	25, 519	24, 730	\$21, 014, 906	\$20, 968, 073
Treasury:				
Office of the Comptroller of the Currency, Division of Insolvent National Banks.....	306	377	350, 985	444, 362
Farm Credit Administration:				
Bank for cooperatives.....	207	198	283, 648	274, 585
Federal intermediate credit banks.....	436	443	529, 100	536, 563
Federal land banks <sup>2</sup> .....	4, 810	5, 053	4, 548, 619	4, 615, 243
General agents' offices.....	430	415	537, 742	518, 665
Joint stock land banks.....	557	610	680, 165	723, 424
Production Credit Corporation.....	297	294	424, 620	419, 590
Federal Deposit Insurance Corporation:				
National receivership trust funds.....	33	( <sup>3</sup> )	23, 042	( <sup>3</sup> )
State receivership trust funds.....	57	( <sup>3</sup> )	52, 205	( <sup>3</sup> )
Federal Reserve banks.....	11, 520	10, 919	9, 886, 769	9, 722, 718
Inland Waterways Corporation.....	2, 972	2, 744	1, 677, 466	1, 807, 560
Panama Railroad Co. <sup>4</sup> .....	3, 890	3, 672	2, 011, 755	1, 896, 453
Spruce Production Corporation.....	4	5	8, 790	8, 910

<sup>1</sup> Data on number of employees refer to employees on the pay roll with pay during the last pay-roll period of the month.

<sup>2</sup> Includes land-bank appraisers and their pay rolls.

<sup>3</sup> Data not available.

<sup>4</sup> Includes the Panama Railroad Steamship Line which is owned and operated by the Panama Railroad Co.

### CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

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

TABLE 11.—*Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, August 1939 <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>2</sup>	Weekly average				
Federal projects financed from National Industrial Recovery Act funds						
All projects.....	<sup>3</sup> 1, 254	1, 172	\$106, 036	169, 800	\$0. 624	\$214, 149
Building construction.....	109	88	11, 512	9, 080	1. 268	21, 343
Naval vessels.....	9	9	1, 051	1, 024	1. 026	944
Public roads <sup>4</sup> .....	( <sup>5</sup> )	400	31, 434	46, 816	. 671	54, 300
Reclamation.....	316	299	45, 365	59, 952	. 757	31, 367
River, harbor, and flood control.....	211	176	11, 411	20, 099	. 568	31, 674
Water and sewerage.....	209	200	5, 263	32, 829	. 160	74, 521

See footnotes at end of table.

TABLE 11.—*Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, August 1939—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				
Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	30, 114	25, 854	\$2, 928, 419	3, 191, 975	\$0. 917	\$3, 349, 452
Airport construction (exclusive of buildings).....	772	758	69, 672	115, 875	.601	124, 689
Building construction.....	22, 390	19, 041	2, 208, 216	2, 322, 379	.977	2, 598, 925
Electrification.....	867	832	73, 577	86, 356	.852	73, 985
Reclamation.....	1, 712	1, 423	122, 604	160, 665	.763	147, 509
River, harbor, and flood control.....	1, 006	865	104, 841	122, 045	.859	172, 493
Ship construction.....	1, 058	858	83, 142	102, 028	.815	83, 725
Streets and roads.....	432	362	35, 245	44, 937	.784	54, 945
Water and sewerage.....	455	401	24, 556	36, 434	.674	30, 852
Miscellaneous.....	633	603	47, 258	65, 913	.717	55, 348
Professional, technical, and clerical.....	789	711	99, 308	135, 343	.734	6, 981
Non-Federal projects financed from National Industrial Recovery Act funds						
All projects <sup>6</sup> .....	4, 938	4, 422	\$693, 831	516, 400	\$1. 343	\$689, 928
Building construction <sup>6</sup> .....	3, 198	2, 936	507, 840	321, 823	1. 764	343, 761
Railroad construction.....	15	15	35	50	.760	0
Streets and roads.....	58	48	3, 351	5, 339	.628	17, 473
Water and sewerage.....	587	451	66, 984	48, 939	1. 369	170, 959
Miscellaneous.....	1, 080	972	55, 618	140, 309	.396	157, 735
Projects financed from Emergency Relief Appropriations Act 1935, 1936, and 1937 funds						
All projects.....	17, 773	15, 065	\$1, 757, 377	2, 131, 084	\$0. 825	\$2, 497, 238
Building construction.....	5, 122	4, 187	458, 963	478, 968	.958	987, 685
Electrification.....	752	643	57, 647	85, 281	.670	83, 247
Heavy engineering.....	6, 475	5, 666	711, 419	950, 991	.748	954, 981
Reclamation.....	1, 434	1, 290	127, 273	188, 538	.675	23, 780
Streets and roads.....	379	301	11, 621	26, 901	.432	34, 418
Water and sewerage.....	3, 611	2, 978	390, 454	400, 405	.975	413, 127
Miscellaneous.....	0	0	0	0	0	0
Non-Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	208, 957	173, 970	\$18, 333, 412	20, 854, 079	\$0. 879	\$31, 826, 082
Building construction.....	122, 487	100, 895	10, 853, 573	11, 482, 831	.945	17, 161, 841
Electrification.....	2, 218	1, 804	154, 059	196, 690	.783	573, 038
Heavy engineering.....	12, 716	10, 948	1, 726, 733	1, 507, 783	1. 145	3, 198, 978
Reclamation.....	680	559	51, 230	81, 404	.629	31, 634
River, harbor, and flood control.....	368	312	37, 081	40, 324	.920	212, 584
Streets and roads.....	39, 823	33, 104	2, 792, 732	4, 078, 987	.685	5, 283, 413
Water and sewerage.....	30, 182	25, 978	2, 681, 659	3, 420, 655	.784	4, 852, 698
Miscellaneous.....	483	370	36, 345	45, 405	.800	512, 496

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

<sup>2</sup> Maximum number employed 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> Includes data for workers engaged in construction of underground tunnel who, because of the additional risk involved, were paid at rates higher than those usually paid for building construction.

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, and the Public Works Administration Appropriation Act of 1938 further continued the program to June 30, 1941. On July 1, 1939, pursuant to the provisions of Reorganization Plan No. 1, the Public Works Administration was transferred to the Federal Works Agency.

Federal construction projects for which data are included in table 11 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-rent housing program of the Public Works Administration, however, was financed by funds provided under the Emergency Relief Appropriation Act of 1935. Federal construction projects are also financed by allotments from funds provided under the Public Works Administration Appropriation Act of 1938. 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, the Public Works Administration Extension Act of 1937, or the Public Works Administration Appropriation Act of 1938. 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, the Public Works Administration Extension Act of 1937, or the Public Works Administration Appropriation Act of 1938 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.

#### UNITED STATES HOUSING AUTHORITY

The United States Housing Authority was created by Public No. 412, Seventy-fifth Congress, approved September 1, 1937, as a corporate body of the Department of the Interior for the purpose of assisting the States and their political subdivisions in remedying the unsafe and insanitary housing conditions and the acute shortage of decent, safe, and sanitary dwellings for families of low income, and in alleviating present and recurring unemployment.

Executive Order No. 7732, dated October 27, 1937, transferred to the Authority all the housing and slum-clearance projects of the Federal Emergency Administration of Public Works and all assets, contracts, records, applications, libraries, research materials, and other property held in connection with such projects or with the housing or slum-clearance activities of the Public Works Administration, together with the unexpended balance of funds allocated to the Public Works Administration for the construction of any housing or slum-clearance projects. This executive order was modified by Executive Order No. 7839, dated March 12, 1938, under which the two Puerto Rico projects were transferred to the Puerto Rico Reconstruction Administration. The President's Reorganization Plan No. 1, effective July 1, 1939, transferred the United States Housing Authority from the Department of the Interior to the Federal Works Agency.

Table 12 shows data for August 1939 on projects of the United States Housing Authority. These figures pertain only to new projects under the United States Housing Authority and not to those formerly under the Public Works Administration.

**TABLE 12.—Employment and Pay Rolls on Low-Rent Housing Projects of the United States Housing Authority, August 1939**

[Subject to revision]

Geographic division	Employment		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				
All divisions.....	17,930	15,310	\$2,097,061	2,010,813	\$1.043	\$3,087,376
New England.....	9	9	143	167	.856	0
Middle Atlantic.....	8,494	7,292	1,228,062	957,342	1.283	1,568,267
East North Central.....	2,549	2,234	329,622	307,623	1.072	415,655
West North Central.....	437	378	41,687	48,984	.851	75,573
South Atlantic.....	2,767	2,317	214,025	310,870	.688	449,984
East South Central.....	2,232	1,874	190,104	248,228	.766	321,136
West South Central.....	1,423	1,197	92,858	137,203	.677	256,761
Pacific.....	14	9	500	396	1.414	0

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

#### PROJECTS FINANCED AND PROJECTS OPERATED BY THE WORK PROJECTS ADMINISTRATION

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. The program was extended to June 30, 1939, by the Emergency Relief Appropriation Act of 1938 and to June 30, 1940, by the Emergency Relief Appropriation Act of 1939. Employment created by this program includes employment on Federal projects and employment on projects operated by the Work Projects Administration. In accordance with the provisions of Reorganization Plan No. 1, effective July 1, 1939, the name of this agency was changed from Works Progress Administration to Work Projects Administration and it became a part of the Federal Works Agency. Federal projects are those conducted by Federal agencies which have received allotments from the Work Projects Administration. Projects operated by the Work Projects Administration are those projects conducted under the supervision of that agency with the cooperation of States, cities, or counties.

A record of employment, pay rolls, and man-hours worked on projects financed by the Work Projects Administration in August is shown in table 13, by type of project.

**TABLE 13.—Employment and Pay Rolls on Projects Financed and Operated by the Work Projects Administration, August 1939**

[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.....	1 03,809	81,902	\$3, 671, 127	9, 957, 476	\$0. 369	\$622, 705
Airport construction (exclusive of buildings).....	1, 014	856	44, 928	115, 610	. 389	3, 900
Building construction.....	37, 781	34, 349	1, 675, 493	4, 170, 618	. 402	240, 782
Electrification.....	85	79	2, 902	9, 631	. 301	201
Forestry.....	7, 797	7, 624	236, 608	815, 270	. 260	20, 942
Grade-crossing elimination <sup>2</sup> .....	1, 006	807	51, 883	101, 047	. 499	95, 403
Hydroelectric power plants <sup>3</sup> .....	137	127	5, 099	14, 921	. 312	0
Plant, crop, and livestock conservation.....	12, 785	10, 873	553, 194	1, 366, 857	. 405	4, 361
Professional, technical, and clerical.....	3, 507	3, 318	237, 383	426, 652	. 556	4, 350
Public roads <sup>2</sup> .....	1, 038	834	67, 744	104, 672	. 617	127, 323
Reclamation.....	11, 668	11, 064	436, 482	1, 435, 323	. 304	38, 930
River, harbor, and flood control.....	587	511	43, 728	63, 760	. 686	54, 166
Streets and roads.....	10, 785	7, 551	195, 745	870, 993	. 225	13, 525
Water and sewerage.....	319	313	9, 482	33, 354	. 284	1, 480
Miscellaneous.....	5, 297	3, 656	110, 456	425, 765	. 259	17, 342
	Projects operated by Work Projects Administration <sup>4</sup>					
All projects.....	\$1, 834, 686	.....	\$107, 840, 110	248, 390, 103	\$0. 434	( <sup>6</sup> )

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

<sup>2</sup> These data are for projects under the jurisdiction of the Public Roads Administration.

<sup>3</sup> These data are for projects under construction in Puerto Rico.

<sup>4</sup> Data are for the calendar month. Not available by type of project.

<sup>5</sup> Represents number of names on pay roll for week ending Aug. 23, 1939.

<sup>6</sup> Data on a monthly basis are not available.

Employment and pay rolls on National Youth Administration projects for July and August 1939 are shown in table 14.

**TABLE 14.—Employment and Pay Rolls on National Youth Administration Projects, July and August 1939**

[Subject to revision]

Type of project	Number of employees		Amount of pay rolls	
	August	July	August	July
All projects.....	211, 195	207, 357	\$4, 150, 973	\$2, 570, 078
Student Aid <sup>1</sup> .....	0	0	0	0
Work projects.....	211, 195	207, 357	4, 150, 973	2, 570, 078

<sup>1</sup> Student Aid program not in operation during July and August.

### CIVILIAN CONSERVATION CORPS

The Civilian Conservation Corps was created by an act of Congress approved June 28, 1937, and succeeded the Emergency Conservation Work which had been set up in April 1933. On July 1, 1939, the



Civilian Conservation Corps lost its status as an independent agency and was transferred to the Federal Security Agency.

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, and the Department of the Interior. The monthly pay of the enrolled personnel is \$30 per month. Assistant leaders, not to exceed 10 percent of the total number of enrollees, may receive up to \$36 per month, and leaders, not to exceed 6 percent, may receive up to \$45 per month.

Employment and pay rolls in the Civilian Conservation Corps in July and August 1939 are presented in table 15.

**TABLE 15.—Employment and Pay Rolls in the Civilian Conservation Corps, July and August 1939 <sup>1</sup>**  
[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	August	July	August	July
All groups.....	333, 121	322, 058	\$14, 816, 914	<sup>2</sup> \$14, 462, 311
Enrolled personnel <sup>3</sup> .....	295, 421	284, 061	9, 170, 705	8, 854, 417
Reserve officers.....	3, 842	4, 413	1, 113, 290	1, 183, 861
Nurses <sup>4</sup> .....	304	297	41, 871	<sup>2</sup> 37, 576
Educational advisers <sup>4</sup> .....	1, 588	1, 593	268, 953	266, 419
Supervisory and technical <sup>4</sup> .....	31, 966	31, 094	4, 222, 095	4, 120, 038

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

<sup>2</sup> Revised.

<sup>3</sup> August data include 4,255 enrollees and pay roll of \$90,010 outside continental United States; in July the corresponding figures were 4,002 enrollees and pay roll of \$87,004.

<sup>4</sup> Included in executive service, table 9.

### CONSTRUCTION PROJECTS FINANCED BY RECONSTRUCTION FINANCE CORPORATION

Statistics of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in August are presented in table 16, by type of project.

**TABLE 16.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, August 1939 <sup>1</sup>**

[Subject to revision]

Type of project	Maximum 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.....	2, 555	\$288, 736	346, 499	\$0. 833	\$500. 324
Building construction <sup>3</sup> .....	1, 997	187, 584	237, 233	. 791	510, 256
Water and sewerage.....	558	101, 152	109, 266	. 926	50, 068

<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 873 employees; pay-roll disbursements of \$58,401; 69,231 man-hours worked, and material orders placed of \$269,144 on projects financed by the RFC Mortgage Co.

# CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

When a construction contract is awarded or force-account work is started by a department or agency of the Federal Government, the Bureau of Labor Statistics is immediately notified, on forms supplied by the Bureau, of the name and address of the contractor, the amount of the contract, and the type of work to be performed. Blanks are then mailed by the Bureau to the contractor or Government agency doing the work. These reports are returned to the Bureau and show the number of men on pay rolls, the amounts disbursed for pay, the number of man-hours worked on the project, and the value of the different types of materials for which orders were placed during the month.

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during August are given in table 17, by type of project.

**TABLE 17.—Employment and Pay Rolls on Construction Projects Financed from Regular Federal Appropriations, by Type of Project, August 1939 <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 <sup>2</sup> number employed	Weekly average				
All projects.....	275,506	259,075	\$28,094,608	38,511,066	\$0.730	\$48,109,194
Building construction.....	17,502	14,101	1,572,765	1,872,835	.840	2,787,834
Electrification:						
Rural Electrification Administration projects <sup>4</sup> .....	13,746	11,353	737,649	1,499,203	.492	3,017,876
Other than R. E. A. projects.....	70	60	4,665	5,221	.891	2,923
Forestry.....	106	99	7,953	15,272	.521	647
Heavy Engineering.....	236	226	35,737	27,545	1.297	42,905
Public roads <sup>5</sup> .....	(6)	99,396	8,000,014	13,071,567	.612	13,333,407
Reclamation.....	20,073	19,332	2,744,777	3,110,703	.882	1,569,196
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	35,779	30,679	3,155,529	5,054,814	.624	2,802,442
Locks and dams.....	11,252	9,925	1,237,685	1,708,867	.724	1,608,997
Ship construction:						
Naval vessels.....	57,375	55,601	8,556,857	9,604,463	.891	20,006,730
Other than naval vessels.....	15,606	14,479	1,772,086	2,091,575	.847	2,455,662
Streets and roads.....	2,909	2,634	187,018	333,601	.562	274,029
Water and sewerage.....	651	459	36,314	53,536	.678	48,020
Miscellaneous.....	805	731	45,019	61,864	.728	97,926

<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-road projects.

<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 the total for all projects.

## STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements in the construction and maintenance of roads financed wholly from State or local funds in August 1939, compared with July 1939, and August 1938, is presented in table 18.

**TABLE 18.—Employment and Pay Rolls on Construction and Maintenance of State Roads, August 1939, July 1939, and August 1938 <sup>1</sup>**

[Subject to revision]

Item	Number of employees <sup>2</sup>			Pay-roll disbursements		
	August 1939	July 1939	August 1938	August 1939	July 1939	August 1938
All projects.....	155,747	146,202	196,790	\$11,005,560	\$10,521,530	\$13,482,990
New roads.....	23,586	20,045	26,649	1,596,240	1,310,890	1,970,730
Maintenance.....	132,161	126,157	170,141	10,309,320	9,210,640	11,512,260

<sup>1</sup> Data are for the month ending on the 15th and are for projects financed wholly from State or local funds.

<sup>2</sup> Average number working during month.

