

UNITED STATES DEPARTMENT OF LABOR

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BUREAU OF LABOR STATISTICS

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# Employment and Pay Rolls

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January 1937

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# EMPLOYMENT AND PAY ROLLS

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## Summary of Reports for January 1937

**E**MPLOYMENT in the combined manufacturing and nonmanufacturing industries surveyed by the Bureau of Labor Statistics declined in January, the first month in which a decrease has been registered since February 1936. Pay rolls also fell below the December level. With the exception of July, this is the only month since January 1936 that pay rolls were reduced. The decreases were due largely to seasonal recessions in retail trade, following the sharp expansion in the preceding month for the holiday trade, and to seasonal declines in manufacturing industries, in which the seasonal influences were accentuated by labor disputes in the automobile industry. The loss in employment between December and January amounted to approximately 720,000 workers and the corresponding shrinkage in weekly pay rolls was more than \$18,600,000.

Compared with January 1936, however, employment showed a gain of nearly 1,300,000, and weekly pay rolls an increase of more than \$51,300,000.

Employment on class I steam railroads declined over the month interval. According to a preliminary report by the Interstate Commerce Commission, there were 5,941 fewer employees (exclusive of executives and officials) on the pay rolls of the railroads in January than in December.

Public employment reports in January showed decreases on construction projects financed by the Public Works Administration, the Reconstruction Finance Corporation, and on construction projects financed by regular governmental appropriations. Projects under the jurisdiction of The Works Program also registered decreases in the number of workers employed. An increase in employment, however, occurred on the emergency conservation program.

### Industrial and Business Employment

For January the Bureau of Labor Statistics' index of factory employment stood at 96.5 and the index of weekly pay rolls at 90.6 (1923-25 average equals 100). Compared with the preceding month, the employment index showed a decline of 1.6 percent, and the index of weekly wage disbursements a decrease of 4.7 percent. Reduced

to quantitative terms, these declines indicated that there were approximately 138,000 fewer wage earners on factory pay rolls, and weekly wage disbursements were \$9,100,000 less than in December. Declines are usually shown between December and January due to seasonal recessions in many industries and to customary shut-downs for inventory and repairs. January employment in manufacturing industries has shown decreases in 13 of the preceding 17 years for which data are available and January pay rolls have declined in 15 of the 17 years.

Despite the decline in total factory employment, gains over the month interval were shown in 45 of the 89 manufacturing industries surveyed. Increases in pay rolls were reported by 25 industries. Seasonal gains in employment were shown in millinery (21.9 percent), fertilizers (7.7 percent), agricultural implements (7.4 percent), boots and shoes (5.1 percent), and fur-felt hats (3.3 percent). Other industries reporting substantial gains were shipbuilding (4.6 percent), aircraft (4.5 percent), plumbers' supplies (3.8 percent), textile machinery and parts (3.5 percent), and bolts, nuts, washers, and rivets (3.2 percent). Blast furnaces, steel works, and rolling mills reported a gain of 2.1 percent in employment, the January employment index for this industry (111.5) exceeding that of any month in the preceding 14 years for which information is available. Other industries of major importance reporting increased employment over the month interval were foundries and machine shops (2.0 percent), silk and rayon goods (1.9 percent), woolen and worsted goods (1.0 percent), cotton goods (1.3 percent), men's clothing (1.9 percent), and women's clothing (0.6 percent). The machine-tool industry continued to employ additional workers. For January the gain amounted to 3.2 percent, bringing the employment index for the industry to 134.9 percent of the 1923-25 average. With the exception of a single month (August 1936), employment in the machine-tool industry has been advancing steadily since October 1934. The present level of employment in this industry exceeds that of any month since May 1930 and is more than four times as high as the low point reached in April 1933.

The decrease of 10.1 percent in employment in the automobile industry, resulting from suspended operations in some plants due to recent labor disputes, was the most important decline from December to January. The decrease of 16.1 percent in employment in the hardware industry was attributable largely to the curtailed operations of firms manufacturing automobile equipment. Labor disturbances also accounted in large part for the decline of 27.7 percent in the lighting equipment industry. Decreases in employment reflecting seasonal curtailment of operations were shown in beet sugar, 77.9 percent; confectionery, 11.8 percent; marble-slate-granite, 10.9 percent;

stoves, 10.9 percent; cigars and cigarettes, 10.6 percent; men's furnishings, 9.7 percent; jewelry, 9.0 percent; glass, 8.0 percent; radios and phonographs, 7.8 percent; canning and preserving, 7.3 percent; cottonseed oil-cake-meal, 7.1 percent; and brick, tile, and terra cotta, 6.7 percent. The decrease in the glass industry was partly due to labor disputes.

Of the 16 nonmanufacturing industries surveyed, 8 showed gains in employment over the month interval, and 6 showed increases in pay rolls. The largest employment gains were in year-round hotels (4,400 workers or 1.8 percent) and telephone and telegraph companies (4,300 workers or 1.1 percent). The January gain in the hotel industry raised the employment level to the highest point recorded since July 1931. An increase of approximately 2,700 workers (3.7 percent) in the metalliferous mining industry raised the January 1937 level for that industry above that of any month since January 1931. Gains in employment were also reported for bituminous-coal mining, crude-petroleum producing, laundries, brokerage, and insurance.

The outstanding decline in employment from December to January was in retail trade where the estimated decrease was over 555,000 or 14.2 percent. This seasonal decrease reflected the release of large numbers of temporary workers engaged to handle Christmas business. The general merchandising group of retail establishments, which is composed of department, variety, and general-merchandising stores, and mail-order houses, reported a decrease of 33.7 percent or approximately 393,000 workers over the month interval. In the group of "Other retail" establishments, employment decreased 5.8 percent, or by approximately 161,000 workers. Wholesale trade establishments reported a small decrease (0.3 percent), electric light and power and manufactured gas companies reported an employment loss of 1.3 percent, and the electric-railroad and motorbus operation and maintenance industry reported a falling off of 0.1 percent. A seasonal decline of 1.1 percent was shown in the dyeing and cleaning industry, and quarries and nonmetallic mines reported a seasonal recession of 7.5 percent—due to a curtailment of operations made necessary by winter weather. Anthracite mines showed a falling off of 1.3 percent in employment coupled with a decrease of 22.9 percent in pay rolls. In the private building construction industry, there was a seasonal decrease of 11.5 percent in number of workers over the month interval. This decline, however, was slightly less than the decrease shown in four of the five preceding years for which figures are available.

According to a report of the Interstate Commerce Commission, there were 1,063,504 workers (exclusive of executives and officials) on January pay rolls of class I railroads. This was 0.6 percent less

than the number employed in December (1,069,445). Corresponding pay-roll information was not available for January at the time this report was prepared. In December, however, the wages received by all employees except executives and officials was \$156,221,415 as against \$149,749,940 for November, a gain of 4.3 percent. The Commission's preliminary indexes of employment, based on the 3-year average 1923-25 as 100 and covering all employees, were 60.2 for January and 60.5 for December. The final November index was 61.1.

*Hours and earnings.*—Average hours worked per week by factory wage earners in January were 39.6 compared with 41.1 in December, a decrease of 3.6 percent. Average weekly earnings dropped 3.1 percent to \$24.04, but average hourly earnings climbed 0.3 percent to 59.7 cents. Wage-rate increases reported by cooperating manufacturing establishments affected 219,000 wage earners out of a reporting sample of approximately 4,500,000.

Only 1 of the 14 nonmanufacturing industries for which man-hour data are available showed a gain in average hours worked per week. This was the telephone and telegraph industry. Gains in average hourly earnings, however, were reported for 10 of these industries. Five of the sixteen nonmanufacturing industries covered reported gains in average weekly earnings.

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

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

Industry	Employment			Pay roll			Average weekly earnings		
	Index Janu- ary 1937	Percentage change from—		Index Janu- ary 1937	Percentage change from—		Average in Janu- ary 1937	Percentage change from—	
		Decem- ber 1936	Janu- ary 1936		Decem- ber 1936	Janu- ary 1936		Decem- ber 1936	Janu- ary 1936
All manufacturing indus- tries combined <sup>1</sup> .....	(1923-25 =100) 96.5	-1.6	+11.2	(1923-25 =100) 90.6	-4.7	+22.8	24.04	-3.1	+10.5
Class I steam railroads <sup>2</sup> ....	60.2 (1929= 100)	+5	+9.5	( <sup>3</sup> ) (1929= 100)	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>4</sup> )
Coal mining:									
Anthracite.....	54.1	-1.3	-8.4	42.7	-22.9	-21.5	22.97	-21.9	-14.3
Bituminous.....	84.6	+9	+6.1	80.1	-5.9	+13.4	23.96	-6.7	+6.9
Metalliferous mining.....	66.8	+3.7	+23.2	53.4	+1.2	+39.9	27.77	-2.5	+13.5
Quarrying and nonmetallic mining.....	45.7	-7.5	+16.1	34.6	-12.1	+35.9	19.04	-4.9	+17.1
Crude-petroleum producing Public utilities:	72.7	+5	+2.3	61.0	-5	+9.4	31.03	-1.0	+6.8
Telephone and telegraph and manufactured gas.....	74.4	+1.1	+6.3	83.8	+1.8	+11.8	30.07	+6	+5.2
Electric light and power and manufactured gas.....	92.1	-1.3	+6.9	92.3	-1.7	+8.7	32.47	-4	+1.7
Electric-railroad and motorbus operation and maintenance.....	72.5	-1	+2.5	68.0	-1.9	+4.6	30.84	-1.8	+2.1
Trade:									
Wholesale.....	90.7	-3	+6.0	72.6	-3	+9.1	28.29	+1	+2.9
Retail.....	85.4	-14.2	+6.2	68.0	-10.5	+9.5	21.27	+4.4	+3.1
General merchan- dising.....	95.1	-33.7	+7.8	83.8	-27.8	+9.8	18.38	+8.8	+1.8
Other than general merchandising.....	82.9	-5.8	+5.8	64.7	-4.2	+9.5	23.70	+1.8	+3.5
Hotels (year-round) <sup>4</sup> .....	85.5	+1.8	+4.3	70.4	+9	+8.5	14.24	-8	+4.0
Laundries.....	88.5	+1.0	+8.6	76.4	+4	+11.9	16.18	-6	+3.1
Dyeing and cleaning.....	76.8	-1.1	+7.4	55.6	-3.1	+7.8	17.67	-2.0	+3
Brokerage.....	( <sup>2</sup> )	+2.1	+10.2	( <sup>2</sup> )	+3.7	+15.6	38.83	+1.6	+5.0
Insurance.....	( <sup>2</sup> )	+3	+1.1	( <sup>2</sup> )	+1.3	+3.3	39.12	+9	+2.1
Building construction.....	( <sup>2</sup> )	-11.5	+32.8	( <sup>2</sup> )	-13.9	+52.8	27.85	-2.7	+15.1

<sup>1</sup> Revised and adjusted to Census of Manufactures totals for 1933.

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

<sup>3</sup> Not available.

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

## Public Employment

EMPLOYMENT on construction projects financed from funds provided by the Public Works Administration totaled 202,000 in January, a decrease of 41,000 or 16.7 percent compared with December. Losses in employment occurred on Federal and non-Federal projects financed from funds provided by the National Industrial Recovery Act and on projects financed from funds provided under the Emergency Relief Appropriation Acts of 1935 and 1936. Pay-roll disbursements for the month totaled \$15,440,000, a decrease of \$3,136,000.

On construction projects financed from regular governmental appropriations 120,000 workers were employed. This was a decrease of 24,000 or 16.9 percent compared with the number employed in December. Decreases in employment occurred on all types of construction with the exception of electrification and miscellaneous



projects. Pay-roll disbursements for the month amounted to \$11,-857,000, a decrease of \$1,634,000.

Employment on construction projects financed by the Reconstruction Finance Corporation totaled more than 8,000. Compared with December employment, this was a decrease of 1,000. Decreases in the number of employees occurred on all types of projects. Pay-roll disbursements in January were \$968,000.

In January 3,035,000 workers were engaged on projects financed by The Works Program compared with 3,366,000 in December. Of this total, 329,000 were working on Federal projects, 2,133,000 on that part of the program exclusive of National Youth Administration and Student-Aid projects operated by the Works Progress Administration, 185,000 on National Youth Administration projects, and 389,000 on Student-Aid. Statistics concerning National Youth Administration projects formerly were grouped with the projects operated by the Works Progress Administration, and no data were presented on Student-Aid. Detailed statistics for these two types of projects are now shown in separate tables. Total pay-roll disbursements amounted to \$140,155,000.

In the regular agencies of the Federal Government small decreases in employment occurred in the executive and judicial services; slight increases, however, were reported for the legislative and military services. Employment in the executive service was virtually unchanged in January, but was 3.6 percent higher than in January 1936. Of the 830,000 employees in the executive service in January 116,000 were working in the District of Columbia and 714,000 outside the District. The most marked increase in employment in the departments of the executive service in January occurred in the War Department. The flood in the Ohio and Mississippi Valleys accounted for this increase. A pronounced decrease in monthly pay-roll disbursements was reported for the Post Office Department. This is a seasonal development following the employment peak created by Christmas mail.

More than 407,000 workers were employed on emergency conservation work in January, an increase of 33,000 compared with December. Virtually all of this gain occurred in enrolled personnel. A small increase was registered in the number of reserve officers employed and the number of educational advisers remained the same. There was a small decrease, on the other hand, in the number of supervisory and technical employees. January pay-roll disbursements totaled \$18,-629,000, an increase of \$890,000 compared with December.

The number of workers employed on the construction and maintenance of State roads totaled 133,000 in January. This was a decrease of 27,000 compared with the preceding month. Of the total number engaged on the program, 88.3 percent were working on maintenance

and 11.7 percent on new construction. Pay-roll disbursements for January amounted to \$8,388,000.

A summary of Federal employment and pay-roll statistics for December 1936 and January 1937 is given in table 2.

**Table 2.—Summary of Federal Employment and Pay Rolls, January 1937 <sup>1</sup>**

[Preliminary figures]

Class	Employment		Per-centage change	Pay roll		Per-centage change
	January 1937	December 1936		January 1937	December 1936	
<b>Federal service:</b>						
Executive <sup>2</sup> .....	\$ 830, 183	831, 486	-0.2	\$129, 453, 718	\$138, 706, 681	-6.7
Judicial.....	1, 952	1, 970	-.9	478, 171	511, 213	-6.5
Legislative.....	5, 308	5, 274	+.6	1, 190, 651	1, 234, 689	-3.6
Military.....	310, 950	309, 023	+.6	23, 814, 519	23, 580, 975	+1.0
<b>Construction projects:</b>						
Financed by P. W. A. ....	\$ 202, 175	\$ 242, 818	-16.7	\$ 15, 439, 981	\$ 18, 575, 619	-16.9
Financed by R. F. C. <sup>3</sup> .....	8, 232	9, 189	-10.4	968, 077	1, 106, 816	-12.5
Financed by regular govern- mental appropriations.....	119, 853	144, 274	-16.9	11, 857, 007	13, 491, 223	-12.1
<b>The Works Program: <sup>4</sup></b>						
Federal projects.....	328, 867	370, 911	-11.3	15, 652, 964	18, 595, 253	-15.8
Projects operated by W. P. A.: Through State, city, and county agencies.....	2, 132, 861	2, 426, 002	-12.1	118, 612, 830	133, 209, 822	-11.0
National Youth Administra- tion.....	184, 686	173, 672	+6.3	3, 084, 561	3, 021, 431	+2.1
Student Aid.....	389, 074	395, 485	-1.6	2, 804, 693	3, 016, 775	-7.0
<b>Relief work: Emergency conservation work <sup>5</sup>.....</b>	407, 484	374, 774	+8.7	18, 629, 058	17, 738, 964	+5.0

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

<sup>2</sup> Includes employees of Columbia Institution for the Deaf and Howard University.

<sup>3</sup> Not including 133 employees transferred but not reported by department to which they were assigned.

<sup>4</sup> Revised.

<sup>5</sup> Includes 131,153 wage earners and \$9,346,663 pay roll covering P. W. A. projects financed from E. R. A. A. 1935 funds, and 2,448 wage earners and \$61,072 pay roll financed from First Deficiency Appropriation, 1936.

<sup>6</sup> Includes 154,845 wage earners and \$11,144,602 pay roll covering P. W. A. projects financed from E. R. A. A. 1935 funds, and 149 wage earners and \$7,714 pay roll financed from First Deficiency Appropriation, 1936.

<sup>7</sup> Includes 32 employees and pay-roll disbursements of \$1,314 for January and 61 employees and pay-roll disbursements of \$3,533 for December on projects financed by RFC Mortgage Co.

<sup>8</sup> Data covering P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds are not included in The Works Program and shown only under P. W. A.

<sup>9</sup> Includes 38,415 employees and pay roll of \$5,308,031 for January, and 37,942 employees and pay roll of \$5,318,635 for December also included in executive service.

## Detailed Reports for January 1937

### Industrial and Business Employment

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

**Employment, Pay Rolls, Hours, and Earnings in January 1937**

THE indexes of employment and pay rolls, average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in January 1937 are shown in table 3. Percentage changes from December 1936 and January 1936 are also given. The indexes for the manufacturing industries have been revised and adjusted to the Census of Manufactures for 1933.

Table 3.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, January 1937

*Manufacturing (indexes are based on 3-year average 1923-25=100 and are adjusted to 1933 Census of Manufactures)*

Industry	Employment			Pay rolls			Average weekly earnings <sup>1</sup>			Average hours worked per week <sup>1</sup>			Average hourly earnings <sup>1</sup>		
	Index January 1937	Percentage change from—		Index January 1937	Percentage change from—		Index January 1937	Percentage change from—		Index January 1937	Percentage change from—		Index January 1937	Percentage change from—	
		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936
<b>All manufacturing industries.....</b>	<b>96.5</b>	<b>-1.6</b>	<b>+11.2</b>	<b>90.6</b>	<b>-4.7</b>	<b>+22.8</b>	<b>\$24.04</b>	<b>-3.1</b>	<b>+10.5</b>	<b>39.6</b>	<b>-3.6</b>	<b>+5.9</b>	<i>Cents</i> <b>59.7</b>	<b>+0.3</b>	<b>+4.0</b>
<b>Durable goods.....</b>	<b>90.3</b>	<b>-2.6</b>	<b>+14.7</b>	<b>86.5</b>	<b>-7.1</b>	<b>+29.3</b>	<b>26.58</b>	<b>-4.6</b>	<b>+12.7</b>	<b>40.6</b>	<b>-5.1</b>	<b>+6.8</b>	<b>64.3</b>	<b>-.2</b>	<b>+4.4</b>
<b>Nondurable goods.....</b>	<b>103.1</b>	<b>-.9</b>	<b>+8.1</b>	<b>95.9</b>	<b>-1.7</b>	<b>+16.2</b>	<b>21.32</b>	<b>-.9</b>	<b>+7.5</b>	<b>38.6</b>	<b>-1.9</b>	<b>+5.0</b>	<b>55.0</b>	<b>+1.1</b>	<b>+2.8</b>
<i>Durable goods</i>															
<b>Iron and steel and their products, not including machinery.....</b>	<b>100.0</b>	<b>-.4</b>	<b>+18.5</b>	<b>99.4</b>	<b>-2.5</b>	<b>+42.8</b>	<b>28.45</b>	<b>-2.2</b>	<b>+20.5</b>	<b>41.9</b>	<b>-2.9</b>	<b>+10.6</b>	<b>66.8</b>	<b>+1.1</b>	<b>+7.7</b>
Blast furnaces, steel works, and rolling mills.....	111.5	+2.1	+20.7	115.9	+4	+51.3	31.07	-1.6	+25.3	42.7	-1.8	+13.5	72.6	-.4	+10.1
Bolts, nuts, washers, and rivets.....	86.5	+3.2	+19.9	96.9	-1.5	+35.9	25.90	-4.6	+13.4	43.1	-5.1	+7.6	60.2	+5	+5.2
Cast-iron pipe.....	67.8	+1.4	+19.5	50.7	-3.5	+41.2	20.12	-4.9	+18.1	38.6	-5.8	+12.3	51.5	-.2	+3.8
Cutlery (not including silver and plated cutlery), and edge tools.....	87.2	+1.1	+10.6	81.2	-5.0	+22.6	23.34	-5.1	+10.9	42.8	-6.7	+8.8	55.4	+1.5	+1.5
Forgings, iron and steel.....	69.2	+1.4	+20.9	65.1	-3.6	+41.6	29.28	-5.0	+17.3	43.8	-7.4	+8.6	67.3	+2.6	+7.9
Hardware.....	80.2	-16.1	-1.2	75.2	-19.6	-2.4	21.19	-4.1	-1.4	39.3	+3	-.2	54.0	-4.9	-1.7
Plumbers' supplies.....	90.7	+3.8	+10.1	68.7	-1.4	+27.6	23.46	-5.0	+16.1	40.3	-5.3	+12.0	58.1	+3	+3.5
Steam and hot-water heating apparatus and steam fittings.....	73.7	+7	+28.1	69.1	+2.6	+54.3	27.41	+1.8	+20.4	42.3	-4.0	+10.6	64.9	+6.3	+0.3
Stoves.....	96.6	-10.4	+17.1	77.2	-19.5	+28.4	23.09	-10.2	+9.6	39.4	-8.8	+9.2	59.2	-.7	+9
Structural and ornamental metalwork.....	70.8	+1.0	+31.0	63.3	-3.6	+50.8	25.27	-4.5	+15.1	40.4	-6.3	+8.6	62.6	+1.8	+6.0
Tin cans and other tinware.....	95.8	+1.4	+6.4	94.4	+1.0	+8.1	21.74	-4	+1.6	39.4	-1.2	+1.0	55.6	+5	+5
Tools (not including edge tools, machine tools, files, and saws).....	97.5	+1.4	+23.2	102.8	-1.6	+32.1	24.69	-2.9	+7.3	44.7	-3.6	+4.2	55.4	+9	+3.1
Wirework.....	178.8	-4.7	+19.7	161.0	-11.7	+32.1	22.79	-7.4	+11.5	40.0	-5.3	+7.9	57.1	-2.2	+3.5

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

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

Manufacturing (indexes are based on 3-year average 1923-25=100 and are adjusted to 1933 Census of Manufactures)—Continued

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index January 1937	Percentage change from—		Index January 1937	Percentage change from—		Index January 1937	Percentage change from—		Index January 1937	Percentage change from—		Index January 1937	Percentage change from—	
		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936
Durable goods—Continued															
Machinery, not including transportation equipment	114.8	+6	+20.5	111.0	-2.3	+34.5	\$26.67	-2.9	+11.7	41.8	-4.1	+7.2	Cents 63.6	+9	+4.6
Agricultural implements	110.5	+7.4	-11.3	130.6	+7.5	-4.0	26.60	+1	+8.4	41.0	+(?)	+2.2	65.4	+3	+6.0
Cash registers, adding machines, and calculating machines	123.3	+2.2	+10.0	120.8	-1.7	+14.7	30.59	-3.8	+4.2	41.8	-3.0	-1.3	73.7	-1.0	+4.8
Electrical machinery, apparatus, and supplies	104.0	-1.7	+27.1	97.0	-5.9	+38.7	25.75	-4.2	+9.1	40.1	-5.1	+6.8	63.5	+3	+2.4
Engines, turbines, tractors, and water wheels	125.3	+1.5	+12.0	120.3	+2.3	+24.4	29.98	+8	+11.7	40.5	-1.3	+3.5	74.2	+2.3	+8.3
Foundry and machine-shop products	101.3	+2.0	+23.8	98.7	-1.4	+40.7	27.05	-3.4	+13.7	43.1	-4.4	+8.2	62.5	+9	+5.4
Machine tools	134.9	+3.2	+24.7	136.9	+1.1	+37.5	30.74	-2.1	+10.3	45.8	-3.8	+3.6	67.2	+1.8	+6.5
Radios and phonographs	186.8	-7.8	+6.1	145.4	-13.2	+20.5	20.38	-5.8	+13.6	36.3	-6.7	+8.8	56.2	+9	+4.6
Textile machinery and parts	79.6	+3.5	+15.4	83.1	+5.5	+31.5	28.09	+1.9	+14.2	45.2	+1.1	+10.4	62.5	+9	+3.5
Typewriters and parts	146.2	+1.8	+31.0	131.2	-4.7	+45.5	23.95	-6.4	+11.0	41.9	-6.0	+12.8	57.2	-4	+1.6
Transportation equipment	112.3	-8.0	+9.5	100.6	-16.8	+17.4	28.37	-9.5	+7.3	36.9	-8.4	+3.3	77.1	-1.6	+3.7
Aircraft	722.3	+4.5	+64.2	603.8	-2.6	+62.8	26.31	-6.8	-3.3	42.8	-5.8	+4	62.2	-1.0	-1.6
Automobiles	124.7	-10.1	+5.8	108.1	-20.3	+12.9	28.58	-11.4	+6.8	36.5	-10.0	+2.3	78.6	-1.6	+4.6
Cars, electric- and steam-railroad	55.8	-1.9	+35.9	58.8	-1.8	+59.6	26.14	+1	+18.3	40.0	-3	+11.1	65.4	+4	+5.4
Locomotives	44.9	+2.4	+102.1	31.1	-1.1	+170.6	27.07	-3.5	+33.8	41.5	-5.3	+26.0	65.3	+2.0	+6.2
Shipbuilding	94.0	+4.6	+9.6	96.1	+6.1	+16.5	28.61	+1.4	+6.2	36.0	+2.6	+3.4	78.7	-1.5	+2.3
Railroad repair shops	61.2	0	+13.3	61.2	-6.6	+21.2	28.85	-6.5	+10.7	41.8	-6.4	+6.1	69.2	-4	+7
Electric railroad	63.4	+(?)	+3.1	64.5	-4.4	+6.2	28.72	-4.4	+3.0	43.8	-2.9	+5	64.3	-1.6	+2.3
Steam railroad	61.0	-(?)	+14.3	61.1	-6.8	+22.7	28.87	-6.8	+7.3	41.7	-6.6	+6.8	69.5	-3	+6
Nonferrous metals and their products	107.0	-4.1	+12.6	97.1	-8.0	+27.6	24.50	-4.0	+13.2	41.1	-6.2	+5.7	59.1	+2.4	+7.3
Aluminum manufactures	118.9	+1.0	+19.6	114.7	+(?)	+31.9	24.23	-1.0	+10.2	41.0	-3.9	+1.9	59.1	+3.1	+8.6
Brass, bronze, and copper products	118.5	+1.9	+19.0	113.1	+1.3	+38.5	27.05	-6	+16.4	42.8	-3.0	+5.7	63.3	+2.5	+10.0
Clocks and watches and time-recording devices	118.5	-2.3	+14.9	109.3	-7.2	+30.3	21.56	-5.0	+13.3	41.6	-6.9	+8.9	52.3	+2.4	+5.3
Jewelry	84.4	-9.0	+13.7	62.3	-16.4	+22.4	22.29	-8.2	+7.8	37.8	-8.4	+4.2	58.4	+5	+1.4
Lighting equipment	73.3	-27.7	-3.7	69.4	-33.4	+4.3	23.73	-7.8	+8.2	40.8	-7.4	+2.2	58.4	-4	+6.2
Silverware and plated ware	69.3	-5.6	+6.5	57.6	-19.3	+19.6	23.12	-14.5	+12.2	37.4	-21.0	+11.4	60.7	+3.7	-8
Smelting and refining—copper, lead, and zinc	80.4	-8	+2.6	68.5	-2.3	+14.6	25.12	-1.5	+11.7	40.7	-4.0	+2.1	61.7	+2.5	+9.4
Stamped and enameled ware	154.8	-4.7	+13.6	148.4	-9.6	+29.7	22.50	-5.2	+14.1	41.1	-7.8	+7.7	55.0	+2.8	+7.0

<b>Lumber and allied products</b>	<b>64.8</b>	<b>-3.4</b>	<b>+9.5</b>	<b>54.9</b>	<b>-9.3</b>	<b>+19.6</b>	<b>18.81</b>	<b>-6.1</b>	<b>+9.3</b>	<b>41.0</b>	<b>-5.9</b>	<b>+4.5</b>	<b>45.9</b>	<b>-8</b>	<b>+9</b>
Furniture	85.9	-2.1	+21.3	71.4	-8.8	+39.2	19.78	-6.8	+14.9	41.8	-7.7	+8.2	47.6	+1.1	+6.3
Lumber															
Millwork	53.9	-4	+23.2	47.3	-6.7	+36.8	20.14	-6.4	+11.0	42.8	-6.3	+10.8	47.5	+(2)	+1
Sawmills	46.6	-4.8	+3	37.1	-10.8	+2.0	17.46	-6.3	+1.8	40.0	-4.6	+1.0	44.3	-2.3	+8
<b>Stone, clay, and glass products</b>	<b>62.5</b>	<b>-6.9</b>	<b>+13.2</b>	<b>52.5</b>	<b>-11.2</b>	<b>+25.3</b>	<b>21.42</b>	<b>-4.7</b>	<b>+10.7</b>	<b>38.1</b>	<b>-4.6</b>	<b>+8.9</b>	<b>56.7</b>	<b>+1.2</b>	<b>+1.2</b>
Brick, tile, and terra cotta	45.5	-6.7	+25.3	36.2	-11.7	+44.8	19.27	-5.3	+15.7	40.5	-5.2	+11.9	47.9	-1	+4.4
Cement	56.8	-8.3	+42.5	49.6	-15.6	+71.0	21.72	-8.0	+19.9	35.7	-10.3	+15.9	60.9	+2.5	+3.7
Glass	92.6	-8.0	-1.4	83.8	-11.9	+3.5	22.03	-4.2	+4.8	36.5	-3.2	+4.8	60.5	-8	-2
Marble, granite, slate, and other products	36.5	-10.9	+27.1	28.6	-13.9	+45.1	23.08	-3.3	+14.3	36.1	-5.7	+10.9	64.8	+3.1	+3.3
Pottery	75.5	-1.3	+8.8	63.7	-2.3	+25.8	22.45	-1.0	+15.6	40.4	-2.7	+10.9	55.7	+1	+1.8
<i>Nondurable goods</i>															
<b>Textiles and their products</b>	<b>107.1</b>	<b>+7</b>	<b>+9.1</b>	<b>94.7</b>	<b>+1</b>	<b>+18.1</b>	<b>17.81</b>	<b>-6</b>	<b>+8.2</b>	<b>37.1</b>	<b>-1.9</b>	<b>+6.8</b>	<b>47.6</b>	<b>+8</b>	<b>+7</b>
Fabrics	102.3	+6	+9.1	96.0	-8	+22.0	17.70	-1.5	+11.8	38.8	-2.5	+7.7	45.5	+1.1	+3.5
Carpets and rugs	98.1	+2	+22.8	95.9	-7	+50.2	23.10	-9	+22.3	40.2	-1.8	+18.4	58.0	+1.2	+3.4
Cotton goods	102.7	+1.3	+14.0	100.1	+1.9	+31.2	15.43	+7	+15.0	39.4	-9	+7.7	39.0	+1.4	+6.9
Cotton small wares	106.7	+8	+10.2	104.3	-2.3	+17.8	18.25	-3.1	+7.0	39.8	-4.0	+6.3	45.9	+4	+1.8
Dyeing and finishing textiles	122.3	-4	+3.7	112.2	-3.6	+15.5	21.89	-3.2	+11.4	40.9	-4.3	+9.1	53.0	+1.1	+1.7
Hats, fur-felt	88.4	+3.3	+8	86.4	+4.8	+15.7	26.49	+1.4	+14.8	36.9	-3.2	+4.4	71.3	+5.0	+6.3
Knit goods	120.4	-1.2	+8.3	120.2	-4.7	+17.9	17.39	-3.5	+8.9	36.9	-4.9	+9.0	48.3	+1.3	+6
Silk and rayon goods	83.0	+1.9	+6	68.5	+2	+8.5	16.14	-1.7	+7.7	38.1	-1.5	+9.2	42.4	+(2)	-1.5
Woolen and worsted goods	92.5	+1.0	+4.3	83.1	-1.4	+16.7	20.66	-2.4	+11.8	38.8	-3.1	+4.6	53.4	+8	+6.8
Wearing apparel	115.5	+6	+9.2	88.2	+2.2	+19.4	18.16	+1.6	+1.2	33.5	-7	+5.0	52.0	+4	-4.0
Clothing, men's	109.8	+1.9	+5.5	87.8	+3.5	+10.3	19.29	+1.5	+4.6	33.6	+8	+7.4	55.0	-1.5	-2.1
Clothing, women's	154.9	+6	+9.3	107.6	+4.1	+8.7	19.24	+3.4	-6	32.5	+7	+4.5	56.0	+1.2	-5.7
Corsets and allied garments	89.0	-3	+8.5	85.2	-3.2	+7.4	15.64	-3.0	+3.7	35.9	-8	+9.6	43.5	-1.4	-4.9
Men's furnishings	127.0	-9.7	+16.7	91.4	-20.6	+11.9	13.22	-12.0	-4.2	35.3	-8.6	-4.1	33.5	-3.1	-3.1
Millinery	54.7	+21.9	+4.4	41.1	+40.9	+4.1	23.14	+15.6	-4						
Shirts and collars	119.2	-2.9	+21.2	100.4	-10.4	+23.3	12.79	-7.8	+1.5	34.2	-7.6	+1.8	37.9	+7	-1.6
<b>Leather and its manufactures</b>	<b>97.4</b>	<b>+3.6</b>	<b>+4.8</b>	<b>85.8</b>	<b>+9.6</b>	<b>+11.9</b>	<b>20.65</b>	<b>+5.8</b>	<b>+6.7</b>	<b>40.6</b>	<b>+4.0</b>	<b>+5.9</b>	<b>51.5</b>	<b>+1.3</b>	<b>+8</b>
Boots and shoes	98.9	+5.1	+6.2	81.8	+14.7	+13.3	19.94	+9.1	+6.6	40.7	+5.8	+6.4	49.9	+1.5	+(2)
Leather	97.0	-1.4	(2)	102.5	-2.4	+8.2	23.55	-1.0	+8.3	40.2	-2.5	+3.5	57.8	+1.5	+3.9
<b>Food and kindred products</b>	<b>165.1</b>	<b>-5.0</b>	<b>+6.8</b>	<b>100.4</b>	<b>-5.0</b>	<b>+11.8</b>	<b>22.99</b>	<b>-1</b>	<b>+4.6</b>	<b>41.3</b>	<b>-1.8</b>	<b>+2.1</b>	<b>55.8</b>	<b>+2.3</b>	<b>+4.7</b>
Baking	130.5	-1.2	+5.9	118.4	-1.2	+10.2	23.54	+1	+4.1	42.2	-7	+4.2	55.9	+3	+2.6
Beverages	182.1	+6	+12.9	186.9	-4	+14.4	30.37	-1.0	+1.3	38.4	-1.4	-5	79.6	+5	+1.2
Butter	80.6	-1.3	+4.4	62.3	-1.1	+8.2	21.81	+2	+3.6						
Canning and preserving	89.7	-7.3	+5.5	85.8	-5.5	+19.0	15.68	+2.0	+12.8	36.6	-1	+10.8	44.0	+2.3	+5.9
Confectionery	79.9	-11.8	+6.9	76.2	-11.7	+13.8	17.32	+2	+6.6	41.0	-3.4	+7.5	42.5	+4	-8
Flour	74.5	+3	-9	71.4	+2.5	+3.6	23.92	+2.2	+4.9	43.9	+6	+3.9	53.8	+1.3	+1.3
Ice cream	61.1	-2	+7.0	55.8	+1.2	+12.5	27.72	+1.4	+5.1	46.6	+(2)	+2.6	58.6	+1.4	+1.2
Slaughtering and meat packing	96.4	-3.0	+11.6	95.8	-5.6	+15.9	24.90	-2.7	+3.9	42.3	-4.1	-9	59.4	+1.8	+5.3
Sugar, beet	38.1	-77.9	-9.7	41.9	-72.4	-2.1	25.37	+25.0	+8.4	37.8	-15.8	-3.5	67.6	+49.7	+13.4
Sugar refining, cane	61.6	-10.6	-18.4	50.8	-14.2	-19.7	22.15	-4.0	-1.6	37.9	-7.1	-1.6	56.0	+3.0	-4.8
<b>Tobacco manufactures</b>	<b>57.4</b>	<b>-9.3</b>	<b>+4.6</b>	<b>47.2</b>	<b>-14.8</b>	<b>+9.8</b>	<b>15.23</b>	<b>-6.1</b>	<b>+5.0</b>	<b>34.8</b>	<b>-8.1</b>	<b>+1.6</b>	<b>43.8</b>	<b>+2.6</b>	<b>+4.3</b>
Chewing and smoking tobacco and snuff	57.2	-1.4	-6	62.8	-3.1	+4.7	16.42	-4.4	+5.5	36.3	-3.4	+1.4	45.3	-1.0	+4.1
Cigars and cigarettes	57.3	-10.6	+5.1	45.3	-16.6	+10.7	14.95	-6.7	+5.5	34.6	-8.7	+9	43.6	+3.0	+4.3

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

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

*Manufacturing (indexes are based on 3-year average 1923-25=100 and are adjusted to 1933 Census of Manufactures)—Continued*

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index January 1937	Percentage change from—		Index January 1937	Percentage change from—		Index January 1937	Percentage change from—		Index January 1937	Percentage change from—		Index January 1937	Percentage change from—	
		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936
Nondurable goods—Continued															
Paper and printing.....	104.3	-1.6	+6.4	98.7	-3.8	+13.6	\$27.50	-2.3	+6.7	40.4	-2.9	+5.3	Cents		
Boxes, paper.....	100.1	-5.8	+0.5	98.0	-9.5	+19.3	19.84	-3.9	+9.0	40.9	-7.7	+8.2	70.9	+4	+1.3
Paper and pulp.....	113.7	+8	+6.1	109.9	+1.2	+20.7	24.22	+4	+13.9	43.3	-1.5	+7.2	49.0	+3.8	+7
Printing and publishing:													55.9	+1.8	+5.8
Book and job.....	96.2	-1.3	+9.4	91.4	-1.9	+15.5	30.24	-6	+5.5	40.5	-1.4	+5.0	76.0	+1.1	+3
Newspapers and periodicals.....	103.4	-2.4	+2.3	97.2	-7.8	+5.0	35.23	-5.5	+2.6	36.7	-4.0	+2.0	92.7	-2.0	+9
Chemicals and allied products, and petroleum refining.....	120.3	+8	+7.6	119.5	+1.0	+19.0	25.97	+1	+10.6	39.4	-1.6	+2.8	67.0	+1.9	+8.3
Other than petroleum refining.....	120.5	+1.0	+8.8	119.5	+1.3	+21.0	24.03	+3	+11.2	40.7	-1.2	+3.6	59.8	+1.5	+8.6
Chemicals.....	130.8	+1.3	+14.6	131.8	-5	+27.1	28.06	-1.8	+11.0	40.2	-2.5	+2.2	69.7	+8	+8.5
Cottonseed—oil, cake, and meal.....	91.1	-7.1	+12.4	76.2	-7.1	+24.7	11.59	0	+10.7	53.1	-3.0	+11.2	22.0	+3.4	-(?)
Druggists' preparations.....	106.5	-1	+4.9	113.1	+5	+11.4	23.23	+6	+6.2	39.8	-9	+3.0	56.1	+3.1	+3.0
Explosives.....	94.0	+9	+15.7	97.8	-2	+35.4	28.66	-1.1	+17.0	39.7	-5	+9.5	72.2	-6	+7.1
Fertilizers.....	86.6	+7.7	+7.4	79.6	+11.2	+22.5	14.85	+3.3	+14.0	39.7	+2.2	+9.7	37.3	+1.0	+4.5
Paints and varnishes.....	128.0	+4	+6.9	120.3	-1.1	+15.6	25.91	-1.5	+8.2	41.2	-2.4	+3.7	63.0	+8	+4.1
Rayon and allied products.....	367.6	+1.4	+5.8	338.1	+5.2	+21.2	22.65	+3.8	+14.5	39.0	+1.7	+1.7	58.1	+2.0	+12.6
Soap.....	100.9	+2.0	+5.6	107.4	+3.0	+15.3	26.39	+9	+9.3	39.7	-1.1	+6	66.7	+2.1	+8.7
Petroleum refining.....	119.4	-1	+3.1	119.5	-(?)	+12.9	31.03	+1	+9.4	35.5	-2.9	-4	88.2	+2.9	+9.4
Rubber products.....	101.2	-7	+18.2	99.0	-5.5	+26.9	26.28	-4.9	+7.4	37.0	-5.5	+2.5	72.9	+8	+5.0
Rubber boots and shoes.....	77.3	-6.3	+8.9	66.8	-13.1	+18.0	21.50	-7.3	+8.4	38.6	-7.5	-(?)	55.7	+2	+6.9
Rubber goods, other than boots, shoes, tires, and inner tubes.....	138.7	+7	+17.2	136.3	-2.1	+32.5	22.69	-2.8	+13.1	41.6	-3.4	+10.1	55.3	+4	+3.6
Rubber tires and inner tubes.....	92.6	+1	+22.0	93.9	-5.8	+25.9	29.91	-5.9	+3.2	33.5	-6.6	-1.8	89.3	+8	+4.3

Nonmanufacturing (indexes are based on 12-month average 1929=100)

Coal mining:															
Anthracite.....	54.1	-1.3	-8.4	42.7	-22.9	-21.5	22.97	-21.9	-14.3	27.7	-20.2	-11.9	81.2	-3.4	-2.3
Bituminous.....	84.6	+9	+6.1	80.1	-5.9	+13.4	23.96	-6.7	+6.9	30.7	-6.2	+4.8	79.5	-1	+1.7
Metalliferous mining.....	66.8	+3.7	+23.2	58.4	+1.2	+39.9	27.77	-2.5	+13.5	43.2	-3.0	+5.6	64.5	+3	+8.4
Quarrying and nonmetallic mining.....	45.7	-7.5	+16.1	34.6	-12.1	+35.9	19.04	-4.9	+17.1	38.3	-6.6	+11.9	50.2	+1.4	+4.2
Crude-petroleum producing.....	72.7	+5	+2.3	61.0	-5	+9.4	31.08	-1.0	+6.8	39.0	-1.8	+5.1	79.2	+1.2	+9
Public utilities:															
Telephone and telegraph.....	74.4	+1.1	+6.3	83.8	+1.8	+11.8	30.07	+6	+5.2	39.7	+2.7	+3.3	79.1	-1.9	+2.2
Electric light and power and manufactured gas.....	92.1	-1.3	+6.9	92.3	-1.7	+8.7	32.47	-4	+1.7	39.7	-2.4	+1.1	82.4	+2.2	+1.9
Electric-railroad and motorbus operation and maintenance.....	72.5	-1	+2.5	68.0	-1.9	+4.6	30.84	-1.8	+2.1	46.1	-1.6	+1	66.1	-5	+2.1
Trade:															
Wholesale.....	90.7	-3	+6.0	72.6	-3	+9.1	28.29	+1	+2.9	42.1	-1.9	+5	67.1	+2.1	+1.9
Retail*.....	85.9	-14.1	+6.8	67.9	-10.6	+9.3	21.52	+4.1	+2.5	44.1	-9	+9	52.7	+5.2	+1.4
General merchandising*.....	97.4	-33.1	+10.4	83.5	-28.5	+9.3	18.72	+6.9	-1.0	42.0	-3.9	+2.4	46.6	+11.6	-6
Other than general merchandising*.....	82.9	-5.8	+5.8	64.7	-4.1	+9.4	23.72	+1.8	+3.4	44.8	-2	+6	54.5	+1.7	+2.1
Hotels (year-round) <sup>3</sup> .....	85.5	+1.8	+4.3	70.4	+9	+8.5	14.24	-8	+4.0	48.1	-1.2	+2	28.8	+2	+3.5
Laundries.....	88.5	+1.0	-8.6	76.4	+4	+11.9	16.18	-6	+3.1	42.8	-6	+1.8	37.5	+1	+1.3
Dyeing and cleaning.....	76.8	-1.1	+7.4	55.6	-3.1	+7.8	17.67	-2.0	+3	40.7	-2.7	-1.3	44.2	+2	+1.6
Brokerage.....	(4)	+2.1	+10.2	(4)	+3.7	+15.6	38.83	+1.6	+5.0	(4)	(4)	(4)	(4)	(4)	(4)
Insurance.....	(4)	+3	+1.1	(4)	+1.3	+3.3	39.12	+9	+2.1	(4)	(4)	(4)	(4)	(4)	(4)
Building construction.....	(4)	-11.5	+32.8	(4)	-13.9	+52.8	27.85	-2.7	+15.1	31.6	-4.5	+4.3	87.7	+1.9	+10.5

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

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

<sup>4</sup> Not available.

\* December data revised as follows:

*Retail trade.*—Employment index, 99.6; percentage change from November, +10.5; percentage change from December 1935, +7.2.

Pay-roll index, 75.9; percentage change from December 1935, +9.5.

Average weekly earnings, \$20.01; percentage change from November, -2.0; percentage change from December 1935, +2.1.

Average hours-percentage change from November, +0.8.

Average hourly earnings-percentage change from November, -3.1; percentage change from December 1935, +0.8.

*General merchandising.*—Employment index, 143.4; percentage change from November, +31.2; percentage change from December 1935, +8.9.

Pay-roll index, 116.2; percentage change from November, +27.1; percentage change from December 1935, +11.2.

Average weekly earnings, \$16.90; percentage change from November, -3.2; percentage change from December 1935, +2.1.

Average hourly earnings-percentage change from December 1935, -0.8.

*Other than general merchandising.*—Pay-roll index, 67.6; percentage change from November, +2.8; percentage change from December 1935, +8.9.

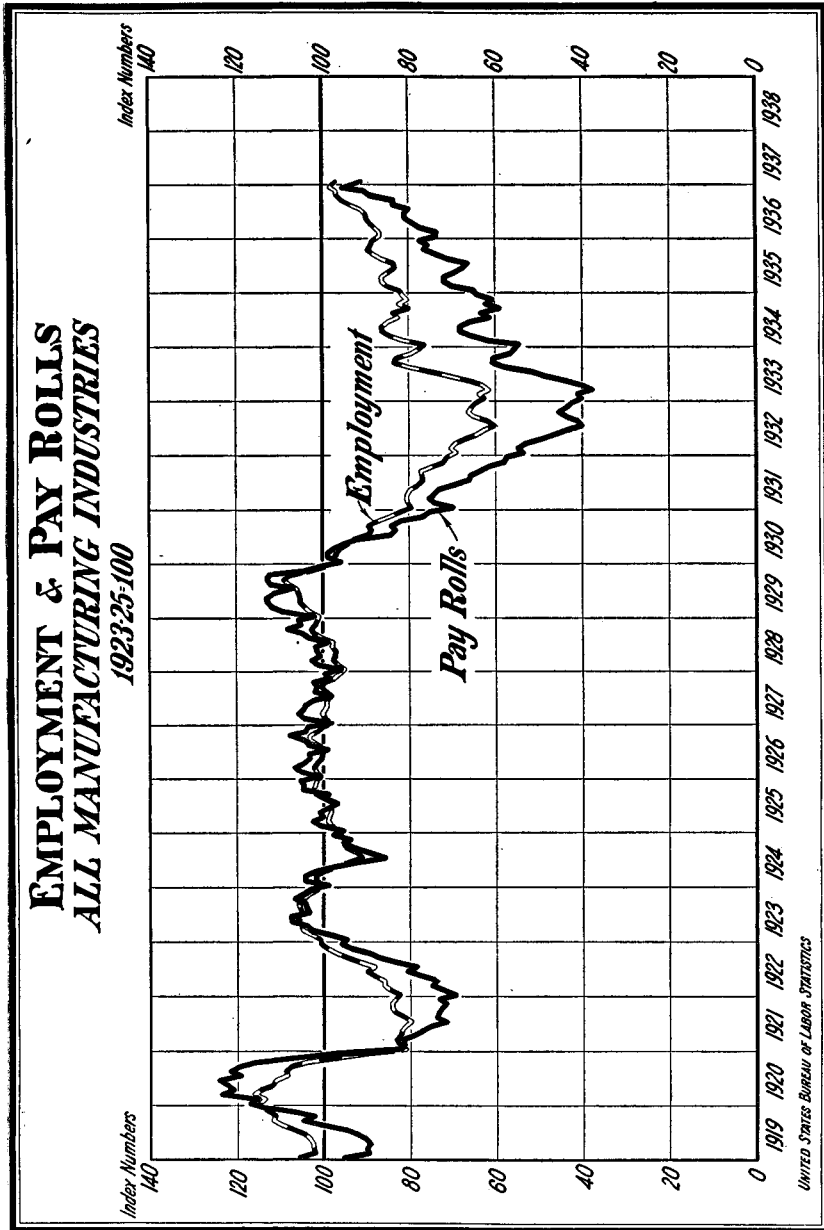
Average weekly earnings, \$23.58; percentage change from December 1935, +2.3.

Average hours-percentage change from November, -0.2.



## Indexes of Employment and Pay Rolls

GENERAL indexes of factory employment and pay rolls, adjusted to the 1933 Census of Manufactures, are given in table 4 for the



months January 1919 to January 1937. Similar indexes for the durable and nondurable-goods groups, by months, January 1923 to January 1937, are presented in table 5. The accompanying chart

indicates the trend of factory employment and pay rolls as shown by the adjusted indexes. Indexes for 13 nonmanufacturing industries including 2 subgroups under retail trade, by months, January 1936 to January 1937, inclusive, are presented in table 6.

The indexes of factory employment and pay rolls are computed from returns supplied by representative establishments in 89 manufacturing industries and cover only wage earners. The base used in computing these indexes is the 3-year average 1923-25 as 100. In January 1937 reports were received from 24,440 manufacturing establishments employing 4,512,073 workers whose weekly earnings were \$108,426,345. The employment reports received from these establishments cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 89 industries included in the monthly survey of the Bureau of Labor Statistics.

The indexes for nonmanufacturing industries are also computed from data supplied by reporting establishments, but the base is the 12-month average for 1929 as 100. Figures for mining, laundries, dyeing and cleaning, and building construction cover wage earners only, but the figures for public utilities, trade, hotels, brokerage, and insurance relate to all employees, including executives. For crude-petroleum producing they cover wage earners and clerical field force.

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

Table 4.—General Indexes of Factory Employment and Pay Rolls, by Months, January 1919 to January 1937, adjusted to 1933 Census of Manufactures

[1923-25=100]												
Month and year	January	February	March	April	May	June	July	August	September	October	November	December
<i>Employment</i>												
1919....	104.8	101.6	101.9	102.0	102.6	103.8	106.5	109.1	111.2	110.8	112.0	113.8
1920....	114.3	113.3	115.5	114.0	111.5	110.6	108.1	108.4	107.1	103.4	97.2	89.6
1921....	80.9	82.4	83.0	82.0	81.8	80.9	79.7	81.3	83.3	84.1	84.2	83.2
1922....	82.5	84.5	85.7	85.5	87.8	89.5	87.8	91.0	94.0	96.7	98.4	99.7
1923....	100.8	102.6	104.7	105.2	105.3	106.0	104.9	105.2	105.6	104.4	103.1	101.3
1924....	100.1	101.5	101.7	100.0	96.7	93.8	90.8	92.1	94.3	95.1	94.7	96.1
1925....	96.5	98.2	99.1	98.9	98.2	98.1	98.0	99.7	101.6	102.2	101.9	101.6
1926....	100.7	101.7	102.2	101.5	100.4	100.4	99.4	101.4	103.5	103.1	101.3	100.0
1927....	98.2	99.7	100.3	99.6	99.0	99.1	98.0	99.3	100.4	99.5	97.3	96.0
1928....	94.8	96.4	97.4	97.0	97.0	97.6	97.5	100.1	102.1	102.4	101.5	101.0
1929....	100.6	102.9	104.1	105.3	105.2	105.4	105.9	107.7	108.7	107.5	103.3	99.6
1930....	97.1	97.1	96.7	96.1	94.5	92.6	89.3	88.6	89.5	87.6	84.4	82.1
1931....	79.5	80.1	80.5	80.4	79.8	78.0	76.9	77.0	77.3	74.6	72.0	71.2
1932....	69.1	70.3	69.3	67.1	64.6	62.5	60.4	61.8	65.1	66.3	65.5	64.3
1933....	62.6	63.7	61.5	62.9	65.8	70.2	74.9	79.6	83.2	82.8	79.5	77.6
1934....	76.5	81.1	84.4	86.0	86.2	84.9	82.5	83.6	80.1	82.2	80.4	81.5
1935....	82.2	85.1	86.2	86.3	84.8	83.2	83.5	86.3	88.1	89.4	88.8	88.3
1936....	86.8	86.9	87.9	89.1	89.8	90.1	91.2	93.5	95.5	96.7	96.9	98.1
1937....	96.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

**Table 4.—General Indexes of Factory Employment and Pay Rolls, by Months, January 1919 to January 1937, adjusted to 1933 Census of Manufactures—Continued**

[1923-25=100]

Month and year	January	February	March	April	May	June	July	August	September	October	November	December	Average
<i>Pay rolls</i>													
1919.....	96.2	90.4	91.0	90.0	90.9	92.9	95.6	100.9	105.7	103.2	107.7	115.0	98.3
1920.....	118.3	116.7	124.8	122.0	123.5	125.3	120.4	122.7	120.9	116.9	108.1	99.0	118.2
1921.....	83.7	82.1	82.4	79.7	78.1	76.2	72.4	74.6	74.2	73.4	72.5	74.0	76.9
1922.....	70.3	73.1	75.3	74.2	77.6	80.9	78.6	83.2	87.1	89.6	93.4	95.7	81.6
1923.....	94.8	98.1	102.8	104.1	107.5	107.7	103.4	103.8	104.2	106.5	104.4	102.8	103.3
1924.....	98.7	104.1	104.1	101.9	97.5	92.2	85.4	89.2	92.3	94.9	93.4	97.7	96.0
1925.....	95.7	100.9	102.6	100.1	100.8	98.8	96.9	99.5	98.8	104.7	104.7	105.1	100.7
1926.....	100.9	105.1	106.6	104.3	103.0	103.2	98.9	103.3	104.3	107.4	104.0	103.3	103.7
1927.....	98.2	104.3	105.7	104.3	104.1	102.4	98.4	101.7	101.2	102.0	98.4	99.4	101.7
1928.....	95.9	101.1	102.6	100.5	101.3	101.7	99.1	103.2	104.6	108.2	105.0	105.7	102.4
1929.....	102.4	109.3	111.6	112.7	112.9	111.2	107.1	112.0	112.8	112.3	104.1	100.5	109.1
1930.....	95.6	98.6	98.6	97.5	95.1	92.0	84.1	83.1	83.8	82.0	76.6	75.0	88.5
1931.....	69.9	74.1	75.4	74.2	73.1	69.5	66.1	65.8	63.3	61.4	58.1	57.5	67.4
1932.....	53.6	54.8	53.1	49.4	46.8	43.5	40.2	41.0	43.5	45.3	43.5	42.3	46.4
1933.....	40.1	41.0	37.9	39.8	43.7	48.1	51.7	57.7	60.6	60.4	56.5	55.5	49.4
1934.....	54.6	61.3	65.6	68.1	68.1	66.0	61.4	63.2	59.1	62.2	60.7	64.2	62.9
1935.....	65.0	70.0	71.7	71.7	69.4	67.4	66.5	71.0	73.7	76.4	75.6	77.6	71.3
1936.....	73.8	73.7	77.6	79.3	80.8	81.1	80.2	83.5	83.6	89.0	90.7	95.1	82.4
1937.....	90.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

**Table 5.—Indexes of Employment and Pay Rolls in the Durable- and Nondurable-Goods Groups, January 1923 to January 1937, Adjusted to 1933 Census of Manufactures**

*Durable group*<sup>1</sup>

[1923-25=100]

Month and year	Employment												
	January	February	March	April	May	June	July	August	September	October	November	December	Average
1923.....	99.1	101.5	104.0	105.7	106.6	107.8	106.6	106.5	106.1	105.4	104.3	101.9	104.6
1924.....	100.6	102.1	103.1	102.7	98.8	94.7	91.0	90.9	91.8	93.4	93.1	94.6	96.4
1925.....	95.4	97.1	98.4	99.4	99.2	98.5	97.4	98.2	99.6	101.3	101.6	101.7	99.0
1926.....	100.8	102.2	103.1	103.4	102.7	102.2	101.0	102.0	102.6	102.1	100.2	98.2	101.7
1927.....	95.5	97.2	98.1	98.1	98.0	97.1	95.0	95.4	95.0	94.4	92.1	90.9	95.6
1928.....	89.8	91.8	93.7	94.7	96.1	96.6	95.7	98.0	99.3	99.7	99.1	98.7	96.1
1929.....	99.0	101.7	103.4	105.3	106.4	106.4	106.3	107.3	106.8	105.1	100.4	95.9	103.7
1930.....	83.1	83.4	83.2	82.9	81.9	89.1	84.7	82.3	81.1	79.6	77.1	74.9	86.1
1931.....	72.0	72.1	72.0	72.0	71.3	69.3	66.7	65.4	64.6	62.0	60.4	60.0	67.3
1932.....	57.7	58.4	57.3	55.6	54.1	52.3	50.0	48.7	49.2	49.8	50.3	49.8	52.8
1933.....	48.1	48.7	46.9	47.6	50.4	54.2	58.8	63.6	66.9	66.7	64.8	64.1	56.7
1934.....	63.2	67.0	70.9	73.9	75.6	74.8	71.4	70.0	68.1	66.7	66.1	68.1	69.7
1935.....	70.0	73.4	75.1	75.9	75.4	73.5	73.4	74.7	75.4	79.2	80.3	80.0	75.5
1936.....	78.7	78.6	80.2	82.3	84.0	84.7	84.6	84.7	85.7	89.2	91.0	92.7	84.7
1937.....	90.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Month and year	Pay rolls												
	January	February	March	April	May	June	July	August	September	October	November	December	Average
1923.....	91.6	95.8	101.4	104.6	109.2	110.0	104.5	106.1	105.2	108.9	107.3	104.0	104.1
1924.....	97.9	105.4	106.5	105.8	100.3	92.9	83.8	87.2	88.9	92.9	91.6	95.7	95.7
1925.....	92.6	99.8	101.9	100.9	102.0	99.3	95.4	97.5	97.1	104.5	105.3	105.6	100.2
1926.....	99.0	105.2	107.3	106.5	105.2	104.9	99.1	103.7	103.1	107.0	103.2	100.9	103.8
1927.....	93.3	101.1	103.5	103.2	103.3	99.9	93.9	97.5	95.1	96.8	93.3	94.1	97.9
1928.....	89.5	96.9	99.5	99.8	101.9	101.2	97.1	102.0	102.3	107.0	104.1	103.9	100.4
1929.....	100.0	108.9	112.0	114.7	115.8	112.9	107.2	112.7	111.8	111.2	101.9	96.9	108.8
1930.....	90.2	94.8	95.3	95.4	93.4	89.2	78.2	75.7	74.8	73.9	68.5	66.5	83.0
1931.....	59.9	64.4	65.6	65.0	64.0	59.3	54.3	52.9	49.6	48.6	46.4	45.9	56.3
1932.....	41.5	42.3	40.3	38.1	37.1	33.6	30.2	28.8	28.8	30.8	30.9	30.4	34.4
1933.....	28.6	28.8	26.7	28.1	32.3	36.2	39.4	45.2	46.7	46.8	43.9	43.7	37.2
1934.....	42.7	48.9	53.9	58.6	60.1	58.6	51.4	51.4	47.0	48.1	47.8	51.9	51.7
1935.....	53.8	60.1	62.0	63.2	61.4	59.1	57.3	61.0	62.9	68.4	69.9	71.5	62.6
1936.....	66.9	66.6	71.8	76.0	78.5	79.0	75.9	77.0	77.2	85.3	88.9	93.1	78.0
1937.....	86.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Includes the following groups of manufacturing industries: Iron and steel; machinery; transportation equipment; railroad repair shops; nonferrous metals; lumber and allied products; and stone, clay, and glass products.

**Table 5.—Indexes of Employment and Pay Rolls in the Durable- and Nondurable-Goods Groups, January 1923 to January 1937, Adjusted to 1933 Census of Manufactures—Continued**

*Nondurable group<sup>2</sup>*

Month and year	Employment											
	January	February	March	April	May	June	July	August	September	October	November	December
1923....	102.6	103.8	105.5	104.5	104.0	104.1	103.1	103.8	105.1	103.3	101.8	100.6
1924....	99.6	100.9	100.2	97.1	94.5	92.8	90.6	93.3	96.9	97.0	96.4	97.8
1925....	97.8	99.4	99.7	98.4	97.2	97.7	98.7	101.3	103.7	103.3	102.2	101.4
1926....	100.7	101.1	101.2	99.4	98.0	98.5	97.7	100.8	104.4	104.2	102.5	101.9
1927....	101.1	102.3	102.6	101.2	100.0	101.1	101.3	103.4	106.3	105.0	102.9	101.4
1928....	100.2	101.4	101.3	99.4	98.0	98.8	99.4	102.2	105.1	105.3	104.1	103.5
1929....	102.3	104.2	104.9	105.4	103.8	104.3	105.5	108.1	110.7	110.1	106.4	103.5
1930....	101.3	101.1	100.5	99.6	97.3	96.3	94.2	95.3	98.6	96.2	92.2	89.8
1931....	87.5	88.7	89.5	89.4	88.9	87.4	87.8	89.5	91.0	88.1	84.3	83.2
1932....	81.4	83.0	82.2	79.5	75.9	73.4	71.5	75.9	82.2	83.9	81.8	79.8
1933....	78.2	79.9	77.1	79.3	82.2	87.3	92.2	96.8	100.7	100.1	95.3	92.0
1934....	90.8	96.1	98.8	99.0	97.5	95.7	94.3	98.2	92.9	98.9	95.7	95.9
1935....	95.4	97.5	98.1	97.4	94.9	93.6	94.4	98.7	101.7	100.3	97.8	97.2
1936....	95.4	95.8	96.1	96.3	96.0	95.9	98.2	102.8	105.9	104.7	103.3	104.0
1937....	103.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Month and year	Pay rolls											
	January	February	March	April	May	June	July	August	September	October	November	December
1923....	98.9	101.0	104.5	103.4	105.3	104.7	102.0	100.9	102.9	103.4	100.6	101.3
1924....	99.7	102.3	100.9	96.9	93.9	91.1	87.3	91.7	96.6	97.5	95.7	100.2
1925....	99.8	102.2	103.4	99.1	99.3	98.2	98.8	102.0	101.0	104.9	103.9	104.4
1926....	103.5	105.0	105.6	101.7	100.2	101.1	98.7	102.8	105.7	108.0	105.0	106.4
1927....	104.4	108.3	108.6	105.7	105.1	105.6	104.0	107.1	108.9	108.5	104.8	106.2
1928....	103.9	106.5	106.4	101.3	100.6	102.3	101.5	104.8	107.7	109.7	106.1	108.1
1929....	105.5	109.8	111.1	110.1	109.3	109.0	107.0	111.1	114.0	113.8	106.8	105.2
1930....	102.4	103.3	102.8	100.1	97.4	95.5	91.5	92.5	95.2	92.4	86.9	85.8
1931....	82.8	86.5	87.9	86.0	84.8	82.4	81.1	82.3	80.7	77.7	73.0	72.3
1932....	68.9	70.7	69.4	63.9	59.1	56.1	52.8	56.4	62.1	63.8	59.5	57.4
1933....	54.6	56.4	52.2	54.8	58.2	63.3	67.3	73.5	78.3	77.7	72.4	70.4
1934....	69.7	77.1	80.4	80.1	78.3	75.4	74.2	78.3	74.5	80.0	77.0	79.8
1935....	79.3	82.6	84.0	82.5	79.5	77.9	78.2	83.7	87.3	86.5	82.8	85.3
1936....	82.5	82.7	84.9	83.5	83.8	83.9	85.6	91.8	91.6	93.7	92.9	97.6
1937....	95.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>2</sup> Includes the following groups of manufacturing industries: Textiles and their products; leather and its manufactures; food and kindred products; tobacco manufactures; paper and printing; chemicals and allied products; products of petroleum and coal; rubber products; and a number of miscellaneous industries not included in other groups.

**Table 6.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1936 to January 1937<sup>1</sup>**

(12-month average 1929=100)

Month	Anthracite mining				Bituminous-coal mining				Metalliferous mining				Quarrying and non-metallic mining			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January....	59.1	54.1	54.4	42.7	79.8	84.6	70.6	80.1	54.2	66.8	41.7	58.4	39.4	45.7	25.5	34.6
February....	61.2	-----	76.7	-----	80.2	-----	78.4	-----	55.5	-----	42.8	-----	36.9	-----	23.9	-----
March.....	52.5	-----	42.6	-----	80.4	-----	70.2	-----	55.9	-----	45.1	-----	42.2	-----	30.9	-----
April.....	49.8	-----	28.6	-----	77.5	-----	62.6	-----	57.5	-----	45.5	-----	48.4	-----	36.1	-----
May.....	54.9	-----	56.3	-----	76.2	-----	62.2	-----	60.8	-----	47.7	-----	52.0	-----	42.1	-----
June.....	51.2	-----	42.0	-----	75.7	-----	61.5	-----	61.9	-----	48.2	-----	53.5	-----	44.0	-----
July.....	48.4	-----	37.2	-----	75.5	-----	62.6	-----	61.3	-----	46.1	-----	54.4	-----	43.9	-----
August.....	41.1	-----	31.4	-----	76.9	-----	65.4	-----	61.6	-----	48.2	-----	55.3	-----	46.2	-----
September....	47.6	-----	34.9	-----	78.2	-----	71.0	-----	63.1	-----	50.0	-----	54.9	-----	44.8	-----
October.....	49.9	-----	48.5	-----	81.1	-----	79.2	-----	64.2	-----	53.7	-----	54.6	-----	46.2	-----
November....	51.5	-----	40.3	-----	82.3	-----	80.7	-----	62.9	-----	54.6	-----	52.6	-----	43.5	-----
December....	54.8	-----	55.4	-----	83.9	-----	85.0	-----	64.4	-----	57.7	-----	49.4	-----	39.4	-----
Average....	51.8	-----	45.7	-----	79.0	-----	70.8	-----	60.3	-----	48.4	-----	49.5	-----	38.9	-----

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

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

Month	Crude-petroleum producing				Telephone and telegraph				Electric light and power, and manufactured gas				Electric-railroad and motorbus operation and maintenance <sup>2</sup>			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	71.1	72.7	55.7	61.0	70.1	74.4	75.0	83.8	86.1	92.1	84.8	92.2	70.7	72.5	65.0	68.0
February.....	70.8	70.8	55.7	60.9	69.9	74.4	76.2	86.1	86.2	92.1	84.7	92.2	71.7	72.5	68.3	68.3
March.....	70.9	70.9	56.0	70.2	70.2	77.2	77.2	86.8	86.8	92.1	85.9	92.2	71.2	72.5	67.8	67.8
April.....	71.3	71.3	57.1	70.8	70.8	76.0	76.0	88.0	88.0	92.1	86.2	92.2	71.3	72.5	65.9	65.9
May.....	72.7	72.7	58.0	71.6	71.6	78.5	78.5	89.0	89.0	92.1	87.0	92.2	71.5	72.5	66.1	66.1
June.....	73.7	73.7	58.9	72.1	72.1	77.4	77.4	90.4	90.4	92.1	88.1	92.2	71.7	72.5	66.8	66.8
July.....	75.4	75.4	60.4	73.1	73.1	79.9	79.9	91.7	91.7	92.1	89.8	92.2	72.4	72.5	66.5	66.5
August.....	75.0	75.0	59.7	73.5	73.5	81.2	81.2	93.1	93.1	92.1	89.8	92.2	72.4	72.5	66.5	66.5
September.....	74.5	74.5	60.4	73.7	73.7	78.8	78.8	93.5	93.5	92.1	91.4	92.2	72.8	72.5	66.4	66.4
October.....	73.6	73.6	59.6	73.8	73.8	83.1	83.1	94.0	94.0	92.1	92.7	92.2	73.1	72.5	67.7	67.7
November.....	73.2	73.2	60.1	73.7	73.7	81.6	81.6	93.5	93.5	92.1	91.8	92.2	73.0	72.5	69.7	69.7
December.....	72.4	72.4	61.3	73.6	73.6	82.4	82.4	93.2	93.2	92.1	93.8	92.2	72.5	72.5	69.3	69.3
Average.....	72.9	72.9	58.6	72.2	72.2	78.9	78.9	90.5	90.5	92.1	88.8	92.2	72.0	72.0	67.2	67.2

Month	Wholesale trade				Total retail trade				Retail trade—general merchandising				Retail trade—other than general merchandising			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	85.6	90.7	66.6	72.6	80.4	85.4	62.1	68.0	88.2	95.1	76.4	83.8	78.4	82.9	59.1	64.7
February.....	85.0	85.0	66.6	79.7	79.7	85.4	61.6	68.0	85.1	95.1	73.9	83.8	78.3	82.9	59.1	64.7
March.....	85.6	85.6	69.0	81.9	81.9	83.5	63.5	68.0	90.9	95.1	77.3	83.8	79.5	82.9	60.7	64.7
April.....	85.7	85.7	67.9	85.2	85.2	85.3	65.3	68.0	97.4	95.1	81.0	83.8	82.0	82.9	62.1	64.7
May.....	84.6	84.6	68.2	85.0	85.0	85.8	65.8	68.0	95.5	95.1	80.8	83.8	82.3	82.9	62.7	64.7
June.....	84.6	84.6	68.4	85.5	85.5	86.4	66.4	68.0	96.4	95.1	81.3	83.8	82.6	82.9	63.3	64.7
July.....	85.4	85.4	69.0	83.2	83.2	85.1	65.1	68.0	90.7	95.1	77.3	83.8	81.2	82.9	62.6	64.7
August.....	86.3	86.3	69.7	82.4	82.4	84.4	64.4	68.0	89.4	95.1	76.4	83.8	80.5	82.9	61.9	64.7
September.....	88.0	88.0	70.5	86.6	86.6	86.6	66.6	68.0	98.5	95.1	82.8	83.8	83.5	82.9	63.3	64.7
October.....	89.0	89.0	71.5	88.7	88.7	88.3	68.3	68.0	103.9	95.1	87.2	83.8	84.7	82.9	64.4	64.7
November.....	89.7	89.7	73.1	90.1	90.1	70.1	70.1	68.0	109.3	95.1	91.4	83.8	85.1	82.9	65.7	64.7
December.....	91.0	91.0	72.8	99.6	99.6	75.9	75.9	68.0	143.4	95.1	116.2	83.8	88.1	82.9	67.6	64.7
Average.....	86.7	86.7	69.4	85.7	85.7	66.3	66.3	68.0	99.1	95.1	83.5	83.8	82.2	82.9	62.7	64.7

Month	Year-round hotels				Laundries				Dyeing and cleaning			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	81.9	85.5	64.9	70.4	81.5	88.5	68.3	76.4	71.5	76.8	51.6	55.6
February.....	82.8	82.8	66.5	70.4	81.2	88.5	67.8	76.4	70.3	76.8	49.0	55.6
March.....	82.8	82.8	66.0	70.4	82.1	88.5	69.9	76.4	74.7	76.8	56.4	55.6
April.....	83.2	83.2	66.3	70.4	83.2	88.5	70.9	76.4	81.8	76.8	64.1	55.6
May.....	84.1	84.1	67.0	70.4	85.5	88.5	75.6	76.4	87.3	76.8	72.2	55.6
June.....	83.9	83.9	66.6	70.4	87.2	88.5	75.8	76.4	87.5	76.8	69.2	55.6
July.....	83.3	83.3	66.0	70.4	90.5	88.5	79.0	76.4	85.5	76.8	64.8	55.6
August.....	83.2	83.2	66.1	70.4	89.6	88.5	76.7	76.4	83.5	76.8	63.2	55.6
September.....	84.2	84.2	67.5	70.4	89.6	88.5	76.6	76.4	86.7	76.8	66.1	55.6
October.....	85.4	85.4	69.6	70.4	87.6	88.5	75.3	76.4	86.5	76.8	66.7	55.6
November.....	84.6	84.6	69.6	70.4	87.0	88.5	74.5	76.4	81.3	76.8	60.2	55.6
December.....	84.0	84.0	69.8	70.4	87.6	88.5	76.1	76.4	77.7	76.8	57.3	55.6
Average.....	83.6	83.6	67.2	70.4	86.1	88.5	73.9	76.4	81.2	76.8	61.7	55.6

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

<sup>1</sup> Revised.

## Trend of Industrial and Business Employment, by States

A COMPARISON of employment and pay rolls, by States and geographic divisions, in December 1936 and January 1937, is shown in table 7 for all groups combined, and for all manufacturing industries combined, based on data supplied by reporting establishments. The percentage changes shown, unless otherwise noted, are unweighted—that is, the industries included in the manufacturing group and in the grand total have not been weighted according to their relative importance.

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

Table 7.—Comparison of Employment and Pay Rolls in Identical Establishments in December 1936 and January 1937 by Geographic Divisions and by States

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

Geographic division and State	Total—all groups					Manufacturing				
	Number of establishments	Number on pay roll January 1937	Percentage change from December 1936	Amount of pay roll (1 week) January 1937	Percentage change from December 1936	Number of establishments	Number on pay roll January 1937	Percentage change from December 1936	Amount of pay roll (1 week) January 1937	Percentage change from December 1936
				<i>Dollars</i>					<i>Dollars</i>	
<b>New England.....</b>	<b>13, 620</b>	<b>918, 132</b>	<b>-1.9</b>	<b>21, 192, 956</b>	<b>-1.5</b>	<b>3, 472</b>	<b>650, 395</b>	<b>+0.8</b>	<b>14, 605, 905</b>	<b>-0.1</b>
Maine.....	762	55, 791	+3	1, 171, 521	+2.7	275	46, 044	+2.1	938, 208	+3.7
New Hampshire.....	585	37, 537	+3.0	806, 404	+5.5	194	30, 958	+5.3	646, 050	+7.4
Vermont.....	446	17, 901	-4	393, 078	-9	146	12, 092	+1.3	266, 245	+8
Massachusetts.....	<sup>1</sup> 8, 584	<i>498, 558</i>	<i>-3.0</i>	<i>11, 638, 647</i>	<i>-1.8</i>	<i>1, 700</i>	<i>305, 029</i>	<i>+5</i>	<i>6, 876, 448</i>	<i>+5</i>
Rhode Island.....	1, 234	98, 396	-1.0	2, 182, 856	-8	423	80, 167	+1.1	1, 705, 808	-1
Connecticut.....	2, 009	209, 949	-1.0	5, 000, 450	-3.1	734	176, 105	+2	4, 173, 146	-3.0
<b>Middle Atlantic.....</b>	<b>28, 737</b>	<b>2, 156, 160</b>	<b>-3.9</b>	<b>56, 145, 132</b>	<b>-4.5</b>	<b>5, 103</b>	<b>1, 216, 978</b>	<b>-2</b>	<b>30, 876, 280</b>	<b>-1.6</b>
New York.....	17, 311	966, 314	-5.6	26, 361, 927	-4.0	<sup>2</sup> 2, 032	<i>449, 094</i>	<i>-(9)</i>	<i>11, 983, 059</i>	<i>-6</i>
New Jersey.....	4, 016	336, 204	-2.4	8, 508, 109	-3.2	<sup>4</sup> 775	<i>248, 829</i>	<i>-1.0</i>	<i>6, 155, 200</i>	<i>-3.1</i>
Pennsylvania.....	7, 410	853, 642	-2.5	21, 275, 096	-5.5	<sup>2</sup> 2, 296	<i>519, 055</i>	<i>-2</i>	<i>12, 758, 021</i>	<i>-2.1</i>
<b>East North Central.....</b>	<b>20, 471</b>	<b>2, 186, 660</b>	<b>-5.3</b>	<b>57, 178, 580</b>	<b>-8.8</b>	<b>7, 295</b>	<b>1, 706, 118</b>	<b>-3.6</b>	<b>45, 429, 002</b>	<b>-8.8</b>
Ohio.....	7, 510	608, 007	-5.0	16, 040, 807	-6.7	2, 449	459, 585	-2.5	12, 455, 972	-6.1
Indiana.....	<sup>2</sup> 149	<i>226, 330</i>	<i>-6.4</i>	<i>5, 648, 936</i>	<i>-10.9</i>	<i>846</i>	<i>190, 686</i>	<i>-5.7</i>	<i>4, 795, 375</i>	<i>-11.5</i>
Illinois.....	<sup>6</sup> 6, 139	<i>608, 060</i>	<i>-2.1</i>	<i>15, 635, 461</i>	<i>-2.0</i>	<i>2, 345</i>	<i>422, 950</i>	<i>+3</i>	<i>10, 904, 772</i>	<i>+2</i>
Michigan.....	3, 691	559, 369	-9.2	15, 327, 076	-17.1	<i>926</i>	<i>481, 040</i>	<i>-8.4</i>	<i>13, 510, 067</i>	<i>-17.7</i>
Wisconsin.....	<sup>7</sup> 982	<i>184, 894</i>	<i>-2.0</i>	<i>4, 526, 300</i>	<i>-3.5</i>	<sup>8</sup> 729	<i>151, 857</i>	<i>+1.4</i>	<i>3, 762, 826</i>	<i>-6</i>
<b>West North Central.....</b>	<b>10, 511</b>	<b>397, 557</b>	<b>-5.1</b>	<b>9, 065, 064</b>	<b>-5.1</b>	<b>2, 322</b>	<b>204, 228</b>	<b>-2.7</b>	<b>4, 588, 048</b>	<b>-5.3</b>
Minnesota.....	1, 960	76, 061	-7.9	1, 821, 622	-6.3	400	36, 678	-5.8	876, 105	-7.5
Iowa.....	1, 588	63, 088	-1.5	1, 436, 059	-2.8	396	37, 766	+2.0	873, 367	-1.9
Missouri.....	2, 904	161, 943	-4.7	3, 623, 667	-5.3	832	90, 729	-2.0	1, 928, 814	-5.1
North Dakota.....	443	4, 368	-6.9	99, 692	-4.1	43	683	-1.6	17, 785	-5.2
South Dakota.....	348	7, 033	-2.9	172, 872	-2.8	38	1, 916	-2.3	45, 626	-5.2
Nebraska.....	1, 451	31, 182	-8.8	705, 814	-7.4	162	11, 237	-11.1	264, 072	-10.3
Kansas.....	<sup>9</sup> 1, 817	<i>53, 832</i>	<i>-4.2</i>	<i>1, 205, 338</i>	<i>-4.3</i>	<i>451</i>	<i>25, 219</i>	<i>-3.2</i>	<i>532, 279</i>	<i>-5.4</i>

See footnotes at end of table.

Table 7.—Comparison of Employment and Pay Rolls in Identical Establishments in December 1936 and January 1937 by Geographic Divisions and by States—Continued

Geographic division and State	Total—all groups					Manufacturing				
	Number of establishments	Number on pay roll January 1937	Percentage change from December 1936	Amount of pay roll (1 week) January 1937	Percentage change from December 1936	Number of establishments	Number on pay roll January 1937	Percentage change from December 1936	Amount of pay roll (1 week) January 1937	Percentage change from December 1936
				<i>Dollars</i>					<i>Dollars</i>	
<b>South Atlantic.....</b>	<b>10,812</b>	<b>819,456</b>	<b>-1.8</b>	<b>16,151,716</b>	<b>-2.2</b>	<b>2,625</b>	<b>546,298</b>	<b>+ (3)</b>	<b>10,079,435</b>	<b>- .2</b>
Delaware.....	194	15,004	-2.7	359,770	-3.5	84	11,645	- .7	2,278,023	-2.6
Maryland.....	1,456	121,656	-2.8	2,835,168	-1.2	510	82,642	<sup>5</sup> +1.2	1,915,719	<sup>5</sup> +.5
District of Columbia.....	1,073	37,453	-12.0	916,606	-8.1	39	3,992	-1.5	132,487	-4.3
Virginia.....	2,122	105,515	-2.3	2,093,972	-1.6	452	72,112	+ .9	1,405,049	+1.4
West Virginia.....	1,218	148,972	-1.1	3,714,278	-4.2	236	56,315	-1.1	1,453,492	-1.5
North Carolina.....	1,432	158,925	-1.5	2,527,019	- .9	565	146,542	- .5	2,294,744	- .5
South Carolina.....	745	73,852	+ .2	1,109,560	-1.0	197	66,213	+ .6	967,680	-1.0
Georgia.....	1,460	108,592	-1.2	1,747,560	- .5	354	87,659	+ .6	1,326,295	+ .6
Florida.....	1,112	49,481	+3.7	847,783	+ .1	188	19,178	-5.2	305,946	-9.0
<b>East South Central.....</b>	<b>4,169</b>	<b>278,445</b>	<b>-1.0</b>	<b>5,063,829</b>	<b>-4.0</b>	<b>917</b>	<b>177,132</b>	<b>+ .3</b>	<b>3,104,398</b>	<b>-1.7</b>
Kentucky.....	1,164	75,870	-1.1	1,522,983	-6.7	223	31,874	- .3	654,232	-2.8
Tennessee.....	1,252	99,240	-2.1	1,782,457	-3.1	377	75,090	- .6	1,309,819	-2.6
Alabama.....	1,220	88,440	+ .3	1,506,484	-2.6	235	61,912	+1.7	1,011,740	- .2
Mississippi.....	533	14,895	-1.2	251,905	-1.1	82	8,256	+ .3	128,517	+ .7
<b>West South Central.....</b>	<b>4,355</b>	<b>183,985</b>	<b>-2.8</b>	<b>3,903,024</b>	<b>-2.3</b>	<b>1,078</b>	<b>91,127</b>	<b>- .4</b>	<b>1,763,746</b>	<b>-1.3</b>
Arkansas.....	<sup>10</sup> 512	24,381	-1.5	407,972	-2.5	198	17,081	- .7	284,187	-3.0
Louisiana.....	994	45,212	-3.0	840,349	-2.2	235	24,376	-1.3	394,395	-1.3
Oklahoma.....	1,272	37,385	-2.3	863,021	-1.5	133	10,199	+1.8	214,671	-1.5
Texas.....	<sup>11</sup> 1,677	77,007	-3.3	1,791,682	-2.6	612	39,471	- .3	890,493	- .6
<b>Mountain.....</b>	<b>4,127</b>	<b>122,999</b>	<b>-6.1</b>	<b>3,136,875</b>	<b>-5.0</b>	<b>543</b>	<b>34,447</b>	<b>-17.4</b>	<b>855,774</b>	<b>-17.0</b>
Montana.....	663	18,735	-5.5	526,247	-7.1	76	4,455	-16.2	112,298	-19.6
Idaho.....	441	9,617	-13.3	238,323	-9.9	50	2,473	-29.8	55,818	-28.4
Wyoming.....	303	7,938	-6.8	233,558	-6.1	38	1,531	-24.8	46,170	-20.3
Colorado.....	1,183	40,378	-11.2	994,352	-9.8	193	15,824	-18.9	405,496	-17.6
New Mexico.....	300	6,550	+1.3	156,505	+3.2	23	3,606	+1.5	11,649	-1.9
Arizona.....	448	17,422	+ .9	437,127	- .4	32	2,387	-12.2	56,817	-13.8
Utah.....	572	19,171	-1.2	465,354	+4.5	104	6,194	-11.3	139,024	-10.6
Nevada.....	217	3,188	+8.6	85,409	+3.5	27	977	-2.9	28,502	-3.3
<b>Pacific.....</b>	<b>8,182</b>	<b>381,564</b>	<b>-5.6</b>	<b>10,024,572</b>	<b>-5.8</b>	<b>2,408</b>	<b>210,719</b>	<b>-4.0</b>	<b>5,454,083</b>	<b>-7.3</b>
Washington.....	2,654	86,624	-5.7	2,152,781	-6.4	552	47,496	-2.9	1,100,594	-7.6
Oregon.....	1,280	45,939	-5.1	1,081,113	-6.6	289	24,826	-5.7	533,826	-10.5
California.....	<sup>12</sup> 4,248	249,001	-5.7	6,790,678	-5.5	1,567	138,397	-4.0	3,819,663	-6.7

<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, water, light, and power.

<sup>3</sup> Less than 1/10 of 1 percent.

<sup>4</sup> Includes laundries.

<sup>5</sup> Weighted percentage change.

<sup>6</sup> Includes automobile, and miscellaneous services, restaurants, and building and contracting.

<sup>7</sup> Includes construction, but not hotels and restaurants, or public works.

<sup>8</sup> Does not include logging.

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

<sup>10</sup> Includes automobile dealers and garages, and sand, gravel, and building stone.

<sup>11</sup> Includes business and personal service, and real estate.

<sup>12</sup> Includes banks, insurance, and office employment.

### Industrial and Business Employment and Pay Rolls in Principal Cities

A COMPARISON of January 1937 employment and pay rolls with the December 1936 totals in 13 cities of the United States having a population of 500,000 or over is made in table 8. The changes are computed from reports received from identical establishments in both months.

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

Table 8.—Comparison of Employment and Pay Rolls in Identical Establishments in December 1936 and January 1937 by Principal Cities

City	Number of establishments	Number on pay roll January 1937	Percentage change from December 1936	Amount of pay roll (1 week) January 1937	Percentage change from December 1936
New York, N. Y. ....	16, 429	679, 567	-5. 8	\$18, 224, 280	-4. 7
Chicago, Ill. ....	4, 350	460, 852	-1. 6	12, 487, 316	-1. 7
Philadelphia, Pa. ....	2, 371	222, 944	-3. 7	5, 761, 046	-2. 7
Detroit, Mich. ....	1, 599	380, 262	-6. 4	11, 189, 973	-11. 2
Los Angeles, Calif. ....	2, 494	146, 458	-5. 4	3, 920, 548	-4. 1
Cleveland, Ohio. ....	1, 700	135, 640	-9. 1	3, 642, 462	-9. 5
St. Louis, Mo. ....	1, 487	129, 351	-3. 3	3, 111, 018	-2. 7
Baltimore, Md. ....	1, 216	97, 992	-3. 1	2, 318, 547	-3. 3
Boston, Mass. <sup>1</sup> ....	1, 592	106, 913	-4. 9	2, 786, 280	-3. 8
Pittsburgh, Pa. ....	1, 328	204, 195	-3. 7	5, 594, 141	-5. 5
San Francisco, Calif. ....	1, 595	79, 508	-5. 6	2, 221, 525	-5. 2
Buffalo, N. Y. ....	980	78, 920	-4. 3	2, 185, 177	-1. 8
Milwaukee, Wis. ....	593	81, 321	-2. 0	2, 082, 466	-4. 9

<sup>1</sup> Data relate to "Industrial area."

### Public Employment

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

Construction projects financed by the Public Works Administration are those projects authorized by title II of the National Industrial Recovery Act of June 16, 1933. This program of public works has been extended to June 30, 1937, by the Emergency Relief Appropriation Act of 1935 and title II of the First Deficiency Appropriation Act of 1936.

By authority of Public Resolution No. 11, Seventy-fourth Congress, approved April 8, 1935, the President, in a series of Executive orders, inaugurated a broad program of works to be carried out by 61 units of the Federal Government. The Works Program has been continued by title II of the First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936. Employment created by this program includes employment on Federal projects and employment on projects operated by the Works Progress Administration. Federal projects are those conducted by Federal agencies which have received allotments from The Works Program fund. Projects operated by the Works Progress Administration are those



projects conducted under the supervision of the Works Progress Administration through State, city, or county agencies.

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

With the following exceptions, statistics on public employment refer to the month ending on the 15th. Employment statistics for the Federal service and for emergency conservation work refer to the number employed on the last day of the month; pay-roll data are for the entire month. The value of material orders placed for projects operated by the Works Progress Administration is a cumulative total from the beginning of the program to the end of the current calendar month and is not available on a monthly basis. Employment and pay-roll statistics on National Youth Administration and Student-Aid projects are for the calendar month. Data on the value of material orders placed on National Youth Administration projects are cumulative through the current calendar month.

### Executive Service of the Federal Government

STATISTICS of employment in the executive service of the Federal Government in January 1937, and January and December 1936 are given in table 9.

**Table 9.—Employees in the Executive Service of the U. S. Government, January 1937 and January and December 1936 <sup>1</sup>**

[Subject to revision]

Item	District of Columbia <sup>2</sup>			Outside District of Columbia			Entire service <sup>2</sup>		
	Perma- nent	Tempo- rary	Total	Perma- nent	Tempo- rary <sup>3</sup>	Total	Perma- nent	Tempo- rary <sup>3</sup>	Total
Number of employees:									
January 1937.....	107,609	8,650	116,259	615,617	98,307	713,924	723,226	106,957	830,183
December 1936.....	107,898	8,457	116,355	618,663	96,468	715,131	726,561	104,925	831,486
January 1936.....	104,652	7,148	111,800	597,039	92,460	689,499	701,691	99,608	801,299
Percentage change:									
December 1936 to Jan- uary 1937.....	-0.27	+2.28	-0.08	-0.49	+1.91	-0.17	-0.46	+1.94	-0.16
January 1936 to January 1937.....	+2.83	+21.01	+3.99	+3.11	+6.32	+3.54	+3.07	+7.38	+3.60
Labor turn-over January 1937:									
Number of:									
Separations <sup>4</sup> .....	1,378	1,043	2,421	13,376	16,042	29,418	14,754	17,085	31,839
Accessions <sup>5</sup> .....	996	1,182	2,178	9,527	18,698	28,225	10,523	19,880	30,403
Turn-over rate per 100:									
Separation rate.....	1.28	12.19	2.08	2.17	16.47	4.12	2.04	16.13	3.83
Accession rate.....	.92	13.82	1.87	1.54	19.20	3.95	1.45	18.77	3.66

<sup>1</sup> Data on number of employees refer to employment on last day of month.

<sup>2</sup> Includes employees of Columbia Institution for the Deaf and Howard University.

<sup>3</sup> Not including field employees of Post Office Department or 21,410 employees hired under letters of authorization by the Department of Agriculture, with a pay roll of \$1,004,021.

<sup>4</sup> Not including 133 employees transferred but not reported by department to which they were assigned.

<sup>5</sup> Not including employees transferred within the Government service, as such transfers should not be regarded as labor turn-over.

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

**Table 10.—Employment in the Executive Service of the United States Government by Months, January 1936 through January 1937 <sup>1</sup>**

[Subject to revision]

Month	District of Columbia	Outside District of Columbia	Total	Month	District of Columbia	Outside District of Columbia	Total
<i>1936</i>				<i>1936—Continued</i>			
January.....	111, 800	689, 499	801, 299	September.....	115, 061	721, 093	836, 154
February.....	112, 708	687, 626	800, 334	October.....	114, 794	726, 507	841, 301
March.....	112, 739	693, 665	806, 404	November.....	115, 185	724, 261	839, 446
April.....	115, 422	695, 345	810, 767	December.....	116, 355	715, 131	831, 486
May.....	117, 229	700, 999	818, 228	<i>1937</i>			
June.....	117, 470	707, 156	824, 626	January.....	116, 255	713, 924	830, 183
July.....	116, 261	714, 600	830, 861				
August.....	115, 807	718, 697	834, 504				

<sup>1</sup> Data on number of employees refer to employment on last day of month.

### Construction Projects Financed by the Public Works Administration

DETAILS concerning employment, pay rolls, and man-hours worked during January 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, January 1937 <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 N. I. R. A. funds					
All projects.....	\$ 37, 402	34, 274	\$3, 589, 869	4, 596, 569	\$0. 781	\$2, 750, 778
Building construction.....	6, 472	5, 195	603, 838	646, 951	. 933	842, 077
Naval vessels.....	12, 731	12, 316	1, 495, 548	1, 826, 072	. 819	569, 413
Public roads <sup>4</sup> .....	( <sup>5</sup> )	7, 745	375, 737	807, 070	. 466	420, 000
Reclamation.....	1, 551	1, 394	180, 884	236, 528	. 765	374, 770
River, harbor, and flood control.....	7, 498	6, 449	843, 423	926, 129	. 911	479, 140
Streets and roads.....	520	402	21, 417	45, 544	. 470	33, 388
Water and sewerage.....	357	287	19, 888	41, 044	. 485	16, 757
Miscellaneous.....	528	486	49, 134	67, 231	. 731	15, 233
	Non-Federal projects financed from N. I. R. A. funds					
All projects.....	33, 136	27, 194	\$2, 492, 787	2, 763, 681	\$0. 902	\$7, 817, 262
Building construction.....	16, 486	13, 284	1, 209, 149	1, 239, 763	. 975	5, 381, 982
Streets and roads.....	1, 877	1, 454	124, 516	133, 632	. 932	167, 358
Water and sewerage.....	11, 719	9, 786	980, 424	1, 058, 786	. 926	1, 815, 661
Miscellaneous.....	3, 054	2, 670	178, 698	331, 500	. 539	452, 261

See footnotes at end of table.

**Table 11.—Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, January 1937—Continued**

Type of project	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed	Weekly average				
Non-Federal "transportation loan" projects financed from N. I. R. A. funds						
All projects.....	484	( <sup>6</sup> )	\$10,662	17,593	\$0.606	( <sup>6</sup> )
Railroad construction.....	94	78	1,572	2,543	.618	-----
Railroad-operated car and locomotive shops.....	390	( <sup>6</sup> )	9,090	15,050	.604	( <sup>6</sup> )
Projects financed from E. R. A. A. 1935 and 1936 funds <sup>7</sup> <sup>8</sup>						
All projects.....	131,153	107,999	\$9,346,663	11,390,833	\$0.821	\$16,361,268
Building construction <sup>9</sup> .....	87,480	72,301	6,492,282	7,392,685	.878	11,021,322
Electrification.....	598	424	32,453	43,308	.749	43,405
Heavy engineering.....	2,330	1,946	197,197	232,107	.850	619,154
Reclamation.....	3,056	2,837	264,173	370,818	.712	286,870
River, harbor, and flood control.....	680	517	46,064	68,936	.668	54,259
Streets and roads.....	11,262	8,412	451,758	877,321	.515	1,271,151
Water and sewerage.....	25,235	21,182	1,829,371	2,365,395	.773	2,965,239
Miscellaneous.....	512	380	33,365	40,263	.829	99,868

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

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

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

<sup>4</sup> Estimated by the Bureau of Public Roads.

<sup>5</sup> Not available; average included in total.

<sup>6</sup> Data not available.

<sup>7</sup> These data, excluding figures for projects financed from First Deficiency Appropriation 1936 funds, are also included in separate tables covering projects financed by The Works Program.

<sup>8</sup> Includes a maximum of 2,448 and an average of 2,191 employees working on projects financed from First Deficiency Appropriation 1936 funds, who were paid \$61,072 for 88,877 man-hours of labor. Material orders in the amount of \$622,339 were placed for these projects.

<sup>9</sup> Includes a maximum of 15,068 and an average of 13,269 employees working on low-cost housing projects financed from E. R. A. A. 1935 funds, who were paid \$1,422,625 for 1,592,207 man-hours of labor. Material orders in the amount of \$1,814,653 were placed for these projects. These data are also included in separate tables covering projects financed from The Works Program.

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

Non-Federal projects are financed by allotments made by the Public Works Administration from funds available under either the National Industrial Recovery Act, the Emergency Relief Appropriation Act of 1935, or the First Deficiency Appropriation Act of 1936. Most of the allotments have been made to the States and their political subdivisions, but occasionally allotments have been made to commercial firms. In financing projects for the States or their political subdivisions from funds appropriated under the National Industrial Recovery Act, the Public Works Administration makes a direct grant of not more than 30 percent of the total labor and material cost. When funds provided under the Emergency Relief Appropria-

tion Act of 1935, or the First Deficiency Appropriation Act of 1936 are used to finance a non-Federal project, as much as 45 percent of the total cost may be furnished in the form of a grant. The remaining 55 percent or more of the cost is financed by the recipient. When circumstances justify such action, the Public Works Administration may provide the grantee with the additional funds by means of a loan. Allotments to commercial enterprises are made only as loans. All loans made by the Public Works Administration carry interest charges and have a definite date of maturity. Collateral posted with the Public Works Administration to secure loans may be offered for sale to the public. In this way a revolving fund is provided which enlarges the scope of the activities of the Public Works Administration.

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

#### Monthly Trend

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

**Table 12.—Employment and Pay Rolls, July 1933 to January 1937, Inclusive, on Projects Financed From Public Works Administration Funds <sup>1</sup>**

(Subject to revision)

Year and month	Maximum number of wage earners <sup>2</sup>	Monthly pay roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
July 1933 to January 1937, inclusive <sup>3</sup> 4	-----	\$869,959,902	1,312,785,806	\$0.663	\$1,553,000,160
July to December 1933, inclusive <sup>4</sup> -----	-----	33,244,066	62,209,479	.534	75,524,702
January to December 1934, inclusive. -----	-----	308,311,143	523,561,666	.589	<sup>5</sup> 610,051,090
January to December 1935, inclusive <sup>3</sup> -----	-----	270,195,762	391,579,803	.690	<sup>5</sup> 439,152,426
<i>1936</i> <sup>3</sup>					
January -----	197,820	14,399,381	19,195,535	.750	22,796,818
February -----	176,764	12,220,479	16,404,771	.745	23,460,743
March -----	202,236	13,981,176	18,519,649	.755	29,068,402
April -----	264,427	18,915,663	25,203,010	.751	32,459,393
May -----	315,393	22,590,878	30,377,869	.744	<sup>5</sup> 39,778,571
June -----	349,572	25,840,926	34,418,037	.751	37,803,419
July -----	336,047	24,841,350	32,749,131	.759	40,589,226
August -----	330,784	24,676,121	32,235,040	.766	38,088,931
September -----	311,361	23,582,444	30,254,704	.779	38,152,624
October -----	284,903	22,290,424	28,140,040	.792	34,144,905
November -----	269,167	20,854,480	26,054,166	.800	<sup>4</sup> 34,246,615
December -----	242,818	18,575,619	23,114,230	.804	30,752,987
<i>1937</i>					
January <sup>3</sup> -----	202,175	15,439,981	18,768,676	.823	26,929,308

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

<sup>2</sup> Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work. Includes weekly average for public-road projects.

<sup>3</sup> Includes employees working on projects financed from E. R. A. A. 1935 and 1936 funds. These data are also included in separate tables covering projects financed by The Works Program.

<sup>4</sup> Revised.

<sup>5</sup> Includes orders placed by railroads for new equipment.

### The Works Program

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

**Table 13.—Employment and Pay Rolls on Projects Financed by The Works Program, January, 1937 <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						
All projects.....	328, 867	294, 062	\$15, 652, 964	32, 064, 351	\$0. 488	\$7, 595, 246
Building construction.....	44, 821	41, 049	2, 640, 201	4, 270, 673	. 618	1, 119, 775
Electrification.....	3, 781	3, 574	124, 157	282, 328	. 440	739, 796
Forestry.....	38, 974	35, 539	1, 265, 628	3, 211, 088	. 394	324, 066
Grade-crossing elimination.....	26, 109	20, 265	1, 368, 773	2, 289, 339	. 598	1, 774, 734
Heavy engineering.....	132	128	9, 463	10, 515	. 900	772
Hydroelectric power plants <sup>3</sup> .....	1, 627	1, 627	21, 957	87, 922	. 250	0
Plant, crop, and livestock conservation.....	33, 662	30, 152	1, 227, 560	4, 137, 222	. 297	22, 175
Professional, technical, and clerical.....	15, 061	14, 962	1, 363, 432	2, 067, 875	. 659	94, 820
Public roads.....	41, 704	32, 447	1, 803, 172	3, 699, 633	. 487	982, 950
Reclamation.....	77, 215	72, 909	3, 577, 303	7, 959, 673	. 449	1, 322, 218
River, harbor, and flood control.....	17, 713	15, 927	1, 302, 858	1, 872, 858	. 696	917, 219
Streets and roads.....	12, 346	11, 429	312, 885	989, 248	. 316	39, 238
Water and sewerage.....	2, 137	1, 919	49, 933	134, 930	. 370	21, 924
Miscellaneous.....	13, 585	12, 135	585, 642	1, 051, 047	. 557	235, 559
P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds <sup>4</sup>						
All projects.....	128, 705	105, 808	\$9, 285, 591	11, 301, 956	\$0. 822	\$15, 738, 929
Building construction.....	85, 713	70, 743	6, 447, 194	7, 330, 288	. 880	10, 542, 001
Electrification.....	598	424	32, 453	43, 308	. 749	43, 405
Heavy engineering.....	2, 322	1, 938	197, 027	231, 885	. 850	619, 094
Reclamation.....	3, 047	2, 828	264, 065	370, 740	. 712	283, 682
River, harbor, and flood control.....	680	517	46, 064	68, 936	. 668	54, 259
Streets and roads.....	11, 152	8, 315	449, 609	874, 514	. 514	1, 252, 553
Water and sewerage.....	24, 681	20, 663	1, 815, 814	2, 342, 022	. 775	2, 844, 067
Miscellaneous.....	512	380	33, 365	40, 263	. 829	99, 868
Projects operated by Works Progress Administration						
All projects.....	2, 132, 861	-----	\$118, 612, 830	231, 218, 557	\$0. 513	( <sup>5</sup> )
Conservation.....	107, 372	-----	5, 211, 841	11, 129, 039	. 468	-----
Highway, road, and street.....	753, 403	-----	36, 696, 212	80, 266, 887	. 457	-----
Housing.....	5, 328	-----	363, 275	582, 902	. 632	-----
Professional, technical, and clerical.....	233, 666	-----	18, 016, 009	26, 665, 836	. 676	-----
Public building.....	191, 795	-----	12, 734, 450	19, 976, 016	. 637	-----
Publicly owned or operated utilities.....	203, 661	-----	10, 794, 329	20, 744, 367	. 520	-----
Recreational facilities <sup>6</sup> .....	197, 021	-----	12, 629, 658	21, 227, 991	. 595	-----
Sanitation and health.....	62, 174	-----	2, 933, 683	6, 719, 185	. 437	-----
Sewing, canning, gardening, etc.....	264, 975	-----	12, 613, 784	30, 986, 758	. 407	-----
Transportation.....	46, 994	-----	2, 729, 315	5, 084, 843	. 537	-----
Not elsewhere classified.....	66, 472	-----	3, 885, 274	7, 834, 733	. 496	-----

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

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

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

<sup>4</sup> Includes data for 113,637 employees working on non-Federal projects and 15,068 employees working on low-cost-housing projects. These data are included in tables covering projects under the jurisdiction of P. W. A.

<sup>5</sup> Data on a monthly basis are not available.

<sup>6</sup> Exclusive of buildings.

Statistics on employment, pay rolls, and man-hours worked on National Youth Administration and Student-Aid projects under the jurisdiction of the Works Progress Administration in January are shown in table 14, by type of project.

**Table 14.—Employment and Pay Rolls on National Youth Administration and Student-Aid Projects Financed by The Works Program, January 1937 <sup>1</sup>**

[Subject to revision]

Type of project	Number of persons employed	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
Total.....	573,760	\$5,889,254	17,761,511	\$0.332	-----
National Youth Administration.....	184,686	3,084,561	8,212,091	.376	( <sup>2</sup> )
Student-Aid.....	389,074	2,804,693	9,549,420	.294	( <sup>3</sup> )

<sup>1</sup> These data are for the month ending Jan. 31, 1937.

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

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

### Monthly Trend

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

**Table 15.—Employment and Pay Rolls, July 1935 to January 1937, Inclusive, on Projects Financed by The Works Program <sup>1</sup>**

[Subject to revision]

Month and year	Maximum number employed <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
Federal projects					
July 1935 to January 1937, inclusive.....	-----	\$277,661,770	608,874,531	\$0.456	\$184,298,595
July to December 1935.....	-----	36,951,974	80,745,958	.458	34,763,337
<i>1936</i>					
January.....	248,929	11,179,541	25,955,820	.431	8,988,622
February.....	298,589	12,529,207	29,173,914	.429	9,684,578
March.....	325,505	14,431,789	35,243,886	.409	8,028,299
April.....	375,865	16,563,885	38,563,300	.430	12,903,903
May.....	401,298	19,160,510	43,267,437	.443	12,668,052
June.....	453,012	22,657,507	50,680,511	.447	14,431,802
July.....	451,570	22,699,760	48,849,680	.465	16,198,583
August.....	451,960	22,794,588	48,559,862	.469	13,191,899
September.....	439,897	22,585,121	47,786,683	.473	13,095,741
October.....	437,839	21,785,609	47,141,554	.462	12,270,703
November.....	404,671	20,074,062	42,946,903	.467	10,511,624
December.....	370,911	18,595,253	37,894,672	.491	9,966,206
<i>1937</i>					
January.....	328,867	15,652,964	32,064,351	.488	7,595,246

See footnotes at end of table.

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

[Subject to revision]

Month and year	Maximum number employed	Monthly payroll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds <sup>1</sup>					
September 1935 to January 1937, inclusive.....		\$107,317,327	143,400,319	\$0.748	\$214,882,697
September to December 1935.....		883,741	1,326,721	.666	2,061,700
1936					
January.....	23,740	1,128,635	1,621,349	.696	3,632,378
February.....	39,848	1,794,866	2,609,270	.688	8,611,717
March.....	64,223	3,032,280	4,525,546	.670	10,548,343
April.....	112,345	6,346,433	9,211,679	.689	14,725,726
May.....	149,334	9,101,702	13,011,674	.700	20,112,332
June.....	176,184	11,435,825	15,843,765	.722	20,454,214
July.....	188,076	12,277,476	16,574,227	.741	23,404,501
August.....	191,433	12,892,537	17,159,189	.751	24,067,345
September.....	184,518	12,794,471	16,597,561	.771	23,150,164
October.....	171,203	12,356,655	15,818,125	.781	21,396,051
November.....	166,178	12,135,818	15,228,131	.797	22,842,952
December.....	154,696	11,136,888	13,873,082	.803	19,875,274
1937					
January.....	128,705	9,285,591	11,301,956	.822	15,738,929
Projects operated by Works Progress Administration <sup>4</sup>					
August 1935 to January 1937, inclusive.....		\$1,871,547,980	4,044,389,852	\$0.463	\$575,656,633
August to December 1935.....		170,911,331	367,589,041	.465	
1936					
January.....	2,812,391	128,383,000	314,664,210	.408	
February.....	2,950,481	137,182,000	332,966,010	.412	
March.....	3,095,261	144,471,000	341,539,000	.423	
April <sup>5</sup> .....	2,906,175	145,678,964	337,087,332	.432	
May <sup>5</sup> .....	2,605,311	133,455,403	300,378,367	.444	
June <sup>5</sup> .....	2,418,076	126,795,165	278,357,787	.456	
July <sup>5</sup> .....	2,234,878	119,824,954	258,028,282	.464	
August <sup>5</sup> .....	2,282,654	122,186,484	241,081,167	.507	
September <sup>5</sup> .....	2,406,460	124,888,620	247,534,479	.505	
October <sup>5</sup> .....	2,472,774	130,171,087	257,590,453	.505	
November <sup>5</sup> .....	2,564,115	135,777,320	271,123,929	.501	
December <sup>5</sup> .....	2,426,002	133,209,822	265,222,238	.502	
1937					
January.....	2,132,861	118,612,830	231,218,557	.513	

<sup>1</sup> Data are for the month ending on the 15th with exceptions noted in the preceding table.

<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> These data are included in tables covering projects under the jurisdiction of the Public Works Administration. The data for January include 113,637 employees working on non-Federal projects and 15,068 employees working on low-cost-housing projects.

<sup>4</sup> These data exclude National Youth Administration and Student-Aid projects which appear in a separate table.

<sup>5</sup> Data on a monthly basis are not available.

<sup>6</sup> Revised.

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

**Table 16.—Employment and Pay Rolls From Beginning of Program Through January 1937, Inclusive, on National Youth Administration and Student-Aid Projects <sup>1</sup> Financed by The Works Program**

[Subject to revision]

Month and year	Number of persons employed	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed
National Youth Administration projects excluding Student-Aid					
January 1936 to January 1937, inclusive.....		\$31,906,757	83,872,005	\$0.380	<sup>2</sup> \$962,643
1936					
January.....	16,354	176,558	399,989	.441	-----
February.....	78,333	1,044,696	2,606,468	.401	-----
March.....	167,037	2,142,490	5,514,246	.389	-----
April.....	181,279	2,903,174	7,642,897	.380	-----
May.....	177,846	2,866,235	7,540,944	.380	-----
June.....	184,256	3,070,495	8,169,524	.376	-----
July.....	164,792	2,574,164	6,542,187	.393	-----
August.....	161,571	2,582,457	6,535,808	.395	-----
September.....	166,664	2,728,676	7,278,294	.375	-----
October.....	165,298	2,781,832	7,486,607	.372	-----
November.....	170,950	2,929,988	7,830,301	.374	-----
December.....	173,672	3,021,431	8,112,649	.372	-----
1937					
January.....	184,686	3,084,561	8,212,091	.376	-----
Student-Aid projects of National Youth Administration					
September 1935 to January 1937, inclusive.....		\$34,808,796	113,818,778	\$0.306	( <sup>4</sup> )
1935					
September.....	34,924	221,210	679,528	.326	-----
October.....	183,594	1,652,834	5,009,298	.330	-----
November.....	234,450	2,094,889	6,388,068	.328	-----
December.....	282,829	2,394,570	7,536,082	.318	-----
1936					
January.....	306,490	2,415,828	7,673,509	.315	-----
February.....	351,302	2,793,122	8,999,990	.310	-----
March.....	380,099	2,985,705	9,793,025	.305	-----
April.....	404,749	3,190,427	10,426,672	.306	-----
May.....	398,362	3,553,924	11,643,358	.305	-----
June.....	212,938	1,818,778	5,358,106	.339	-----
July.....	3,334	12,477	56,391	.221	-----
August.....	1,707	7,076	37,824	.187	-----
September.....	59,796	326,676	1,327,516	.246	-----
October <sup>3</sup> .....	330,768	2,453,458	8,427,611	.291	-----
November <sup>3</sup> .....	390,900	3,066,354	10,500,807	.292	-----
December <sup>3</sup> .....	395,485	3,016,775	10,411,573	.290	-----
1937					
January.....	389,074	2,804,693	9,549,420	.294	-----

<sup>1</sup> These data are presented on a calendar-month basis.

<sup>2</sup> These data are not available on a monthly basis.

<sup>3</sup> Includes data for Hawaii.

<sup>4</sup> No expenditures for materials on projects of this type.

### Emergency Conservation Work

STATISTICS concerning employment and pay rolls in emergency conservation work in December 1936 and January 1937 are presented in table 17.



**Table 17.—Employment and Pay Rolls in Emergency Conservation Work  
January 1937 and December 1936 <sup>1</sup>**

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	January 1937	December 1936	January 1937	December 1936
All groups.....	407, 484	<sup>2</sup> 374, 774	\$18, 629, 058	<sup>2</sup> \$17, 738, 964
Enrolled personnel <sup>3</sup> .....	359, 863	327, 056	11, 188, 936	10, 183, 844
Reserve officers.....	8, 090	8, 079	2, 008, 964	2, 055, 177
Educational advisers <sup>4</sup> .....	2, 130	<sup>2</sup> 2, 130	359, 235	<sup>2</sup> 356, 516
Supervisory and technical <sup>5</sup> .....	<sup>6</sup> 37, 401	<sup>2</sup> 37, 509	<sup>6</sup> 5, 071, 923	<sup>2</sup> 5, 143, 427

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

<sup>2</sup> Revised.

<sup>3</sup> January data include 3,496 enrollees and pay roll of \$59,719 outside continental United States; December 2,976 enrollees and pay roll of \$62,828.

<sup>4</sup> Included in executive service, tables 9 and 10.

<sup>5</sup> Includes carpenters, electricians, and laborers.

<sup>6</sup> 36,265 employees and pay roll of \$4,952,085 also included in executive service, tables 9 and 10.

<sup>7</sup> 35,812 employees and pay roll of \$4,962,118 also included in executive service, tables 9 and 10.

Employment and pay-roll data for emergency conservation workers are collected by the Bureau of Labor Statistics from the War Department, the Department of Agriculture, the Department of Commerce, the Treasury Department, and the Department of the Interior. The monthly pay of the enrolled personnel is distributed as follows: 5.0 percent are paid \$45; 8.0 percent, \$36; and the remaining 87.0 percent, \$30. The enrolled men, in addition to their pay, are provided with board, clothing, and medical services.

Monthly statistics of employment and pay rolls on the emergency conservation program from January 1936 to January 1937, inclusive, are given in table 18.

**Table 18.—Monthly Totals of Employees and Pay Rolls in Emergency Conservation Work, January 1936 through January 1937 <sup>1</sup>**

[Subject to revision]

Month	Number of employees	Monthly pay- roll disburse- ments	Month	Number of employees	Monthly pay- roll disburse- ments
<i>1936</i>			<i>1936—Continued</i>		
January.....	478, 751	\$21, 429, 044	August.....	383, 554	\$17, 840, 653
February.....	454, 231	20, 484, 493	September.....	320, 821	16, 367, 897
March.....	356, 273	17, 249, 609	October.....	404, 826	17, 662, 545
April.....	391, 002	18, 063, 534	November.....	391, 296	18, 004, 821
			December <sup>2</sup> .....	374, 774	17, 738, 964
May.....	407, 621	18, 598, 026			
June.....	383, 279	17, 973, 962	<i>1937</i>		
July.....	404, 422	18, 417, 372	January.....	407, 484	18, 629, 058

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

<sup>2</sup> Revised.

### Construction Projects Financed by Reconstruction Finance Corporation

STATISTICS of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in January are presented in table 19, by type of project.

**Table 19.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, January 1937<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
All projects.....	8, 232	\$968, 077	1, 300, 989	\$0. 744	\$2, 329, 944
Bridges.....	75	8, 282	8, 249	1. 004	84
Building construction <sup>2</sup> .....	865	69, 360	131, 478	. 528	550, 978
Reclamation.....	26	2, 603	4, 473	. 582	2, 103
Water and sewerage.....	6, 958	852, 664	1, 106, 551	. 771	1, 771, 578
Miscellaneous.....	308	35, 168	50, 238	. 700	5, 201

<sup>1</sup> Data are for the month ending on the 15th.<sup>2</sup> Includes 32 employees; pay-roll disbursements of \$1,314; 1,171 man-hours worked; and material orders placed during the month amounting to \$8,088 on projects financed by RFC Mortgage Co.

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

**Table 20.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation January 1936 through January 1937<sup>1 2</sup>**

[Subject to revision]

Month	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
<i>1936</i>					
January.....	7, 560	\$850, 271	1, 093, 350	\$0. 778	\$1, 355, 520
February.....	7, 961	905, 455	1, 179, 431	. 768	1, 436, 119
March.....	8, 134	916, 059	1, 193, 145	. 768	1, 385, 640
April.....	10, 021	1, 133, 880	1, 479, 182	. 767	1, 292, 063
May.....	10, 988	962, 280	1, 244, 097	. 773	1, 441, 248
June.....	8, 501	941, 680	1, 252, 193	. 752	2, 527, 262
July.....	9, 843	1, 063, 728	1, 436, 201	. 741	2, 050, 370
August.....	9, 658	1, 065, 744	1, 441, 791	. 739	1, 314, 692
September.....	10, 290	1, 085, 642	1, 510, 109	. 719	1, 420, 444
October.....	8, 864	1, 002, 648	1, 347, 317	. 744	1, 298, 643
November.....	9, 611	1, 108, 258	1, 502, 460	. 738	3, 008, 077
December.....	9, 189	1, 106, 816	1, 514, 355	. 731	1, 433, 075
<i>1937</i>					
January.....	8, 232	968, 077	1, 300, 989	. 744	2, 329, 944

<sup>1</sup> Includes projects financed by RFC Mortgage Co.<sup>2</sup> Data are for month ending on the 15th.**Construction Projects Financed from Regular Governmental Appropriations**

WHENEVER a construction contract is awarded or force-account work is started by a department or agency of the Federal Government, the Bureau of Labor Statistics is immediately notified, on forms supplied by the Bureau, of the name and address of the contractor, the amount of the contract, and the type of work to be performed. Blanks are then mailed by the Bureau to the contractor or Govern-

ment agency doing the work. These reports are returned to the Bureau and show the number of men on pay rolls, the amounts disbursed for pay, the number of man-hours worked on the project, and the value of the different types of materials for which orders were placed, during the month.

The following tables present data concerning construction projects for which contracts have been awarded since July 1, 1934. The Bureau does not have statistics covering projects financed from regular governmental appropriations for which contracts were awarded previous to that date.

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular governmental appropriations during January are given in table 21, by type of project.

**Table 21.—Employment on Construction Projects Financed from Regular Governmental Appropriations, by Type of Project, January 1937<sup>1</sup>**

[Subject to revision]

Type of project	Number of wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed <sup>2</sup>	Weekly average				
All projects.....	<sup>3</sup> 119,853	111,725	\$11,857,007	16,506,278	\$0.718	\$11,729,532
Building construction.....	25,719	22,343	2,143,310	2,769,407	.774	2,778,621
Electrification.....	285	233	16,584	26,060	.636	153,068
Forestry.....	28	21	2,057	3,554	.579	1,941
Naval vessels.....	34,763	34,188	4,604,969	5,293,738	.870	3,759,598
Public roads <sup>4</sup> .....	( <sup>5</sup> )	24,229	1,975,762	3,442,171	.574	2,208,512
Reclamation.....	735	719	118,438	155,328	.763	565
River, harbor, and flood control.....	29,072	25,392	2,719,512	4,344,744	.628	2,392,379
Streets and roads.....	2,432	2,192	110,878	234,333	.473	116,724
Water and sewerage.....	58	48	4,087	6,175	.662	6,080
Miscellaneous.....	2,532	2,360	161,410	230,768	.699	312,044

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

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

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

<sup>4</sup> Estimated by the Bureau of Public Roads.

<sup>5</sup> Not available; average number included in total.

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

**Table 22.—Employment on Construction Projects Financed From Regular Governmental Appropriations, January 1936 Through January 1937<sup>1</sup>**

[Subject to revision]

Month	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
<i>1936</i>					
January.....	46,895	\$3,990,725	6,246,418	\$0.639	\$5,584,611
February.....	43,915	3,619,025	5,545,115	.653	6,669,016
March.....	47,538	3,674,896	5,814,569	.632	7,185,019
April.....	60,107	5,205,353	8,375,190	.622	9,861,378
May.....	79,789	6,242,763	10,262,637	.608	12,559,367
June.....	102,376	8,631,104	13,692,884	.630	12,347,453
July.....	137,475	13,552,299	20,552,261	.659	25,670,217
August.....	158,939	14,663,201	22,023,669	.666	18,787,905
September.....	167,745	15,272,860	23,044,847	.663	21,301,074
October.....	168,657	16,370,857	24,708,818	.663	19,998,984
November.....	155,839	14,307,158	21,061,396	.679	16,844,360
December.....	144,274	13,491,223	19,164,694	.704	16,009,255
<i>1937</i>					
January.....	119,853	11,857,007	16,506,278	.718	11,729,532

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

#### State-Roads Projects

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

**Table 23.—Employment on Construction and Maintenance of State Roads, January 1936 Through January 1937<sup>1</sup>**

[Subject to revision]

Month	Number of employees working on—			Total pay roll
	New roads	Maintenance	Total	
1936				
January.....	14,358	105,795	120,153	\$7,481,502
February.....	10,256	119,777	130,033	7,572,614
March.....	8,150	133,386	141,536	7,689,770
April.....	11,339	143,305	154,644	8,918,024
May.....	16,566	164,356	180,922	10,560,866
June.....	20,773	165,363	186,136	11,488,253
July.....	21,744	164,956	186,700	11,839,215
August.....	26,810	158,582	185,692	11,937,585
September.....	34,459	151,772	186,231	11,806,481
October.....	34,136	149,717	183,853	11,566,892
November.....	27,988	153,688	181,676	11,330,509
December.....	21,394	138,540	159,934	10,000,371
1937				
January.....	15,622	117,576	133,198	8,387,864

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

