

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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November 1936

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# EMPLOYMENT AND PAY ROLLS

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## Summary of Reports for November 1936

**E**MPLOYMENT in the combined manufacturing and nonmanufacturing industries surveyed by the Bureau of Labor Statistics showed a further expansion in November. The gain amounted to approximately 84,000 and continued the unbroken succession of employment increases which had been shown each month since February. Corresponding weekly pay rolls in November were over \$5,900,000 greater than in the preceding month.

Comparisons with November 1935 showed a gain of nearly 1,170,000 workers over the year interval and an increase of nearly \$51,400,000 in weekly wage disbursements in these industries, which employ more than half of the working population.

Class I steam railroads, on the other hand, showed a decline from October to November of 16,934 in number of workers, exclusive of executives and officials, according to a preliminary report by the Interstate Commerce Commission.

Public employment in November increased on construction projects financed by the Reconstruction Finance Corporation and on projects operated by the Works Progress Administration. Decreases in the number of wage earners employed, on the other hand, occurred on construction projects financed by the Public Works Administration, on construction projects financed by regular governmental appropriations, on Federal projects under The Works Program, and in emergency conservation work.

### *Industrial and Business Employment*

Although factory employment increased only 0.2 percent from October to November, this slight gain of approximately 19,000 workers was noteworthy because employment had declined from October to November in 14 of the preceding 17 years for which data are available. Factory pay rolls also rose in November. The gain of 1.9 percent, representing approximately \$3,400,000, for 1 week, was the only increase to be reported in November during the preceding 17 years with the exceptions of 1919 and 1922. Of the 89 manufacturing industries surveyed, 56 showed gains in employment over the month interval, and 54 showed increases in pay rolls. Although the gains were widely distributed among the durable- and nondurable-goods indus-

tries, employment in the former group as a whole rose 1.9 percent, and in the latter group it fell 1.4 percent.

The outstanding employment gain over the month interval was one of 16.6 percent in the automobile industry, due to increased production on new models. Other industries for which substantial gains were reported over the month interval were hardware (8.0 percent), lighting equipment (6.9 percent), woolen and worsted goods (6.7 percent), wirework (6.5 percent), iron and steel forgings (6.1 percent), and slaughtering and meat packing (5.6 percent). Industries of major importance in which smaller gains occurred were electrical machinery (3.5 percent), cigars and cigarettes (2.4 percent), cotton goods (1.9 percent), furniture (1.6 percent), foundries and machine shops (1.4 percent), book and job printing (1.4 percent), and steam and hot-water heating apparatus (0.9 percent). With a single exception, employment in the machine-tool industry has been increasing steadily since October 1934. With 1923-25 as the base or 100, the November employment index for this industry was 127.8, an increase of 1.3 percent over October and the highest level recorded in any month since June 1930.

The largest declines in employment from October to November were seasonal. The canning and preserving industry showed a decline of 42.7 percent; millinery, 15.6 percent; fertilizer, 9.2 percent; tin cans and other tinware, 6.7 percent; boots and shoes, 5.5 percent; ice cream, 5.4 percent; agricultural implements, 4.4 percent; beverages, 4.1 percent; and radios and phonographs, 3.5 percent. The declines of 10.4 percent in employment in cane-sugar refining, 5.1 percent in shipbuilding, and 4.8 percent in sawmills, were due in part to the maritime strike. Labor disturbances in several localities also partly accounted for the decrease of 5.8 percent in the glass industry. Employment in blast furnaces, steel works, and rolling mills showed a slight decline of 0.2 percent, but pay rolls for November were 3.1 percent greater than in the preceding month. The November employment index for this industry (107.7) is, with the exception of October, the highest level recorded in any month since April 1924.

Five of the sixteen nonmanufacturing industries surveyed showed gains in employment from October to November, and 9 showed increases in pay rolls. The net increase in employment for the nonmanufacturing industries amounted to more than 64,000 workers, and weekly pay rolls were increased by over \$2,500,000.

Reflecting a seasonal expansion, employment in retail trade establishments increased by approximately 65,000 workers from October to November, a gain of 1.9 percent. The general merchandising subgroup under retail trade, which includes department, variety, and general merchandise stores, and mail order houses, showed an increase of 6.3 percent, and the subgroup, other than general merchandise, showed a gain of 0.5 percent. Among the separate lines of retail

trade showing employment gains were retail furniture (3.4 percent), jewelry (3.6 percent), hardware (1.1 percent), and automobiles (1.0 percent).

Wholesale trade establishments also employed more workers in November than in the preceding month, the gain being 0.9 percent, or over 11,000 in actual numbers. Among the several branches of wholesale trade sharing in this gain were farm products, including leaf tobacco (36.6 percent), automobiles (0.8 percent), hardware (1.1 percent), and machinery, equipment, and supplies (1.5 percent).

Anthracite and bituminous-coal mines reported substantial increases in number of workers, and smaller gains were reported by crude-petroleum producing and brokerage firms.

Among the declines in nonmanufacturing industries were seasonal recessions in quarrying, laundries, dyeing and cleaning, hotels, and private building construction. Metal mines reported fewer employees in November than in the preceding month and slight decreases were shown in reports received from telephone and telegraph, power and light, electric-railroad and motorbus operation and maintenance, and insurance companies.

According to preliminary reports of the Interstate Commerce Commission, class I railroads employed 1,079,972 workers (exclusive of executives and officials) in November compared with 1,096,906 in October, a decrease of 1.5 percent. Corresponding pay-roll information for November was not available at the time this report was prepared. The total compensation of all employees except executives and officials was \$159,693,330 in October and \$150,980,283 in September, the gain over the month interval being 5.8 percent. The Commission's preliminary indexes of employment, based on the 3-year average 1923-25 as 100, were 61.1 for November and 62.1 for October. The final September index was 61.7.

*Hours and earnings.*—Factory wage earners worked an average of 40.6 hours per week in November at an average hourly rate of 58.0 cents. The average workweek was 0.1 percent longer in November than in October and the average hourly rate was 1.2 percent higher. Compared with November 1935, there were gains of 7.2 percent in average hours worked per week and 2.1 percent in average hourly earnings. Average weekly earnings of factory workers in November 1936 were \$23.94 or 1.7 percent higher than in the preceding month and 10.0 percent higher than in the corresponding month of 1935.

Only 6 of the 14 nonmanufacturing industries for which man-hour data are compiled showed gains from October to November in average hours worked per week, but 10 showed increases in average hourly earnings. Gains in average weekly earnings were reported in 10 of the 16 nonmanufacturing industries surveyed.

Although many establishments reported decreased pay rolls during the November 15th pay period because of the observance of Armistice

Day and because of election day, the decreases were offset in part by wage-rate increases. Approximately 228,000 employees, chiefly factory wage earners, in the total of over 7,800,000 workers covered by the Bureau's November survey received wage-rate increases between October 15 and November 15.

Table 1 presents a summary of employment and pay-roll indexes and average weekly earnings in November 1936 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 for 1929 as 100.

As explained in the preceding issue of this publication, the indexes of factory employment and pay rolls have been revised and adjusted to the 1933 Census of Manufactures.

**Table 1.—Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, November 1936**

| Industry  | Employment              |                         |               | Pay roll                |                         |                  | Average weekly earnings  |                         |                  |
|---|-------------------------|-------------------------|---------------|-------------------------|-------------------------|------------------|--------------------------|-------------------------|------------------|
|   | Index November 1936     | Percentage change from— |               | Index November 1936     | Percentage change from— |                  | Average in November 1936 | Percentage change from— |                  |
|   |                         | October 1936            | November 1935 |                         | October 1936            | November 1935    |                          | October 1936            | November 1935    |
| All manufacturing industries combined <sup>1</sup> .....      | (1923-25 = 100)<br>96.7 | +0.2                    | +9.0          | (1923-25 = 100)<br>90.5 | +1.9                    | +19.9            | \$23.94                  | +1.7                    | +10.0            |
| Class I steam railroads <sup>2</sup> .....                    | 61.1                    | -1.6                    | +9.5          | ( <sup>3</sup> )        | ( <sup>3</sup> )        | ( <sup>3</sup> ) | ( <sup>3</sup> )         | ( <sup>3</sup> )        | ( <sup>3</sup> ) |
| Coal mining:  | (1929 = 100)            |                         |               | (1929 = 100)            |                         |                  |                          |                         |                  |
| Anthracite.....   | 51.5                    | +3.2                    | +10.4         | 40.3                    | -17.1                   | +41.9            | 22.75                    | -19.6                   | +28.4            |
| Bituminous.....   | 82.3                    | +1.6                    | +8.2          | 80.7                    | +1.9                    | +23.1            | 25.02                    | +3                      | +13.7            |
| Metalliferous mining.....                                     | 62.9                    | -2.0                    | +19.6         | 54.6                    | +1.6                    | +37.8            | 27.63                    | +3.7                    | +15.3            |
| Quarrying and nonmetallic mining.....                         | 52.6                    | -3.6                    | +12.7         | 43.5                    | -5.9                    | +35.5            | 20.80                    | -2.4                    | +20.2            |
| Crude-petroleum producing.....                                | 73.2                    | -6                      | +3            | 60.1                    | +9                      | +5.0             | 30.49                    | +1.5                    | +4.7             |
| Public utilities:   |                         |                         |               |                         |                         |                  |                          |                         |                  |
| Telephone and telegraph.....                                  | 73.7                    | -2                      | +5.6          | 81.6                    | -1.8                    | +9.0             | 29.65                    | -1.6                    | +3.2             |
| Electric light and power and manufactured gas.....            | 93.5                    | -5                      | +6.7          | 91.8                    | -1.0                    | +10.1            | 31.93                    | -5                      | +3.2             |
| Electric-railroad and motorbus operation and maintenance..... | 73.0                    | -1                      | +2.7          | 69.7                    | +2.9                    | +9.2             | 31.05                    | +3.1                    | +6.4             |
| Trade:  |                         |                         |               |                         |                         |                  |                          |                         |                  |
| Wholesale.....  | 89.7                    | +9                      | +3.8          | 73.2                    | +2.2                    | +9.4             | 29.25                    | +1.4                    | +5.4             |
| Retail.....   | 90.4                    | +1.9                    | +6.9          | 70.1                    | +2.6                    | +10.6            | 20.56                    | +7                      | +3.6             |
| General merchandising.....                                    | 110.4                   | +6.3                    | +8.7          | 91.4                    | +4.8                    | +11.4            | 17.23                    | -1.4                    | +2.5             |
| Other than general merchandising.....                         | 85.1                    | +5                      | +6.1          | 65.7                    | +2.1                    | +10.3            | 23.66                    | +1.6                    | +3.9             |
| Hotels (year-round) <sup>4</sup> .....                        | 84.6                    | -1.0                    | +3.8          | 69.6                    | +1                      | +7.5             | 14.18                    | +1.1                    | +3.5             |
| Laundries.....  | 87.0                    | -7                      | +7.1          | 74.5                    | -1.1                    | +11.6            | 15.95                    | -4                      | +4.4             |
| Dyeing and cleaning.....                                      | 81.3                    | -6.0                    | +6.5          | 60.2                    | -9.6                    | +8.8             | 18.15                    | -3.8                    | +2.1             |
| Brokerage.....  | ( <sup>3</sup> )        | +1.4                    | +14.1         | ( <sup>3</sup> )        | +2.2                    | +20.4            | 37.75                    | +7                      | +5.4             |
| Insurance.....  | ( <sup>3</sup> )        | -1                      | +1.1          | ( <sup>3</sup> )        | +1.7                    | +4.9             | 38.02                    | +1.8                    | +3.8             |
| Building construction.....                                    | ( <sup>3</sup> )        | -1.9                    | +33.1         | ( <sup>3</sup> )        | -1                      | +61.5            | 28.89                    | +1.8                    | +21.4            |

<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*

In November, more than 269,000 employees were working on construction projects financed from Public Works Administration funds. Compared with the previous month this is a decrease of 16,000. Losses in employment occurred on Federal and non-Federal projects financed from funds provided by the National Industrial Recovery Act and on non-Federal public-works projects financed from funds released under the Emergency Relief Appropriation Act of 1935. Pay-roll disbursements during the month amounted to \$20,854,000, a decrease of \$1,436,000 in comparison with the October total.

On projects financed from regular governmental appropriations 156,000 workers were employed in November, a decrease of 7.6 percent compared with October. Included in this total are the workers employed on the Tennessee Valley Authority projects. Statistics concerning these projects formerly appeared under projects financed from Public Works Administration funds. November pay-roll disbursements totaled \$14,307,000, a decrease of \$2,064,000 compared with the previous month.

In November 9,600 wage earners were employed on projects financed by the Reconstruction Finance Corporation. Compared with the previous month, November employment showed a gain of 8.4 percent. The increase was wholly accounted for by gains in the number of workers employed on reclamation work and on water and sewerage projects. Pay-roll disbursements for November totaled \$1,108,000, an increase of \$106,000 over the previous month.

The number of wage earners engaged on projects financed by The Works Program increased moderately in November. During the month 3,131,000 employees were working on these projects, a gain of 55,000 compared with October. The increase occurred on that part of the program operated by the Works Progress Administration and was partially accounted for by an expansion of employment in the drought areas. Employment on projects operated by the Works Progress Administration totaled 2,726,000, and 405,000 persons were employed on Federal projects. Total pay-roll disbursements amounted to \$158,618,000, an increase of \$3,940,000 over October.

In the regular agencies of the Federal Government small decreases in employment occurred in the executive, judicial, and legislative branches; a slight increase, however, was reported for the military service. Employment in the executive service was virtually unchanged in November but was 5.0 percent higher than in November 1935. Of the 839,000 employees in the executive service in November, 115,000 were working in the District of Columbia and 724,000 outside the District. The most marked increases in employment in

the executive departments of the Federal Government in November occurred in the Social Security Board, the Post Office Department, and the Navy Department. Pronounced decreases in the number of workers, on the other hand, were reported for the War Department, the Department of the Interior, and the Tennessee Valley Authority.

In November, 391,000 employees were engaged on emergency conservation work, a decrease of 14,000 compared with the previous month. All groups of workers, with the exception of educational advisers, showed decreases. Pay rolls for the month totaled \$18,605,000.

A total of 182,000 workers were employed on the construction and maintenance of State roads during the month. Of the total, 15.0 percent were engaged on the construction of new roads and 85.0 percent in maintenance. Total pay-roll disbursements amounted to \$11,331,000.

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

Table 2.—Summary of Federal Employment and Pay Rolls, November 1936

[Preliminary figures]

| Class  | Employment           |                       | Per-centage change | Pay roll                |                            | Per-centage change |
|--|----------------------|-----------------------|--------------------|-------------------------|----------------------------|--------------------|
|  | Novem-ber            | October               |                    | November                | October                    |                    |
| Federal service:                                     |                      |                       |                    |                         |                            |                    |
| Executive <sup>1</sup> .....                         | <sup>2</sup> 839,446 | 841,301               | -0.2               | \$130,237,173           | <sup>3</sup> \$131,039,213 | -0.6               |
| Judicial.....  | 1,985                | 1,987                 | -1                 | 501,392                 | 501,803                    | -1                 |
| Legislative.....                                     | 5,381                | 5,402                 | -4                 | 1,231,814               | 1,236,283                  | -4                 |
| Military.....  | 305,757              | 303,960               | +6                 | 26,072,885              | 23,427,278                 | +11.3              |
| Construction projects:                               |                      |                       |                    |                         |                            |                    |
| Financed by P. W. A.....                             | <sup>4</sup> 269,167 | <sup>5</sup> 284,903  | -5.5               | <sup>4</sup> 20,854,480 | <sup>5</sup> 22,290,424    | -6.4               |
| Financed by R. F. C.....                             | <sup>6</sup> 9,611   | <sup>7</sup> 8,864    | +8.4               | <sup>6</sup> 1,108,258  | <sup>7</sup> 1,002,648     | +10.5              |
| Financed by regular governmental appropriations..... | 155,839              | <sup>8</sup> 168,657  | -7.6               | 14,307,158              | <sup>9</sup> 16,370,857    | -12.6              |
| The Works Program: <sup>8</sup>                      |                      |                       |                    |                         |                            |                    |
| Federal projects.....                                | 404,671              | 437,839               | -7.6               | 20,074,062              | 21,785,609                 | -7.9               |
| Projects operated by W. P. A.....                    | 2,726,361            | 2,637,742             | +3.4               | 138,543,440             | 132,892,258                | +4.3               |
| Relief work: Emergency conservation work.....        | <sup>9</sup> 391,296 | <sup>10</sup> 404,826 | -3.3               | <sup>9</sup> 18,604,821 | <sup>10</sup> 17,662,545   | +5.3               |

<sup>1</sup> Includes employees of Columbia Institution for the Deaf and Howard University.

<sup>2</sup> Includes 363 employees by transfer previously reported as separations by transfer not actual additions for November.

<sup>3</sup> Revised.

<sup>4</sup> Includes 166,178 wage earners and \$12,135,818 pay roll covering P. W. A. projects financed from E. R. A. A. 1935 funds.

<sup>5</sup> Includes 171,203 wage earners and \$12,356,655 pay roll covering P. W. A. projects financed from E. R. A. A. 1935 funds.

<sup>6</sup> Includes 81 employees and pay-roll disbursements of \$4,145 on projects financed by R. F. C. Mortgage Co.

<sup>7</sup> Includes 139 employees and pay-roll disbursements of \$11,128 on projects financed by R. F. C. Mortgage Co.

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

<sup>9</sup> Includes 40,348 employees and pay roll of \$5,751,433 also included in executive service.

<sup>10</sup> Includes 40,744 employees and pay roll of \$5,402,280 also included in executive service.

## Detailed Reports for November 1936

### 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 non-manufacturing—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 November 1936

THE indexes of employment and pay rolls, average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in November 1936 are shown in table 3. Percentage changes from October 1936 and November 1935 are also given. The indexes for the manufacturing industries have been revised and adjusted to the 1933 Census of Manufactures as explained in the preceding issue of this publication.

Table 3.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, November 1936

*Manufacturing (indexes are based on 3-year average, 1923-25=100)*

| 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 November 1936 (revised series) <sup>2</sup> | Percentage change from— |               | Index November 1936 (revised series) <sup>2</sup> | Percentage change from— |               | November 1936                        | Percentage change from— |               | November 1936                              | Percentage change from— |               | November 1936                        | Percentage change from— |               |
|  |   | October 1936            | November 1935 |   | October 1936            | November 1935 |                                      | October 1936            | November 1935 |  | October 1936            | November 1935 |                                      | October 1936            | November 1935 |
| <b>All manufacturing industries.....</b>                               | <b>96.7</b>                                       | <b>+0.2</b>             | <b>+9.0</b>   | <b>90.5</b>                                       | <b>+1.9</b>             | <b>+19.9</b>  | <b>\$23.94</b>                       | <b>+1.7</b>             | <b>+10.0</b>  | <b>40.6</b>                                | <b>+0.1</b>             | <b>+7.2</b>   | <i>Cents</i><br><b>58.0</b>          | <b>+1.2</b>             | <b>+2.1</b>   |
| <b>Durable goods.....</b>  | <b>90.6</b>                                       | <b>+1.9</b>             | <b>+13.1</b>  | <b>88.5</b>                                       | <b>+4.1</b>             | <b>+27.2</b>  | <b>27.13</b>                         | <b>+2.2</b>             | <b>+12.4</b>  | <b>42.7</b>                                | <b>+1.7</b>             | <b>+8.9</b>   | <b>62.7</b>                          | <b>+1.5</b>             | <b>+2.7</b>   |
| <b>Nondurable goods.....</b>   | <b>103.2</b>                                      | <b>-1.4</b>             | <b>+5.4</b>   | <b>93.0</b>                                       | <b>-1.7</b>             | <b>+12.2</b>  | <b>26.55</b>                         | <b>+1.7</b>             | <b>+6.4</b>   | <b>38.4</b>                                | <b>-1.6</b>             | <b>+5.0</b>   | <b>53.2</b>                          | <b>+1.4</b>             | <b>+1.7</b>   |
| <i>Durable goods</i>   |   |                         |               |   |                         |               |                                      |                         |               |  |                         |               |                                      |                         |               |
| <b>Iron and steel and their products, not including machinery.....</b> | <b>97.8</b>                                       | <b>+2</b>               | <b>+16.7</b>  | <b>94.4</b>                                       | <b>+2.5</b>             | <b>+36.6</b>  | <b>27.47</b>                         | <b>+2.2</b>             | <b>+17.0</b>  | <b>43.4</b>                                | <b>+1.0</b>             | <b>+14.3</b>  | <b>63.2</b>                          | <b>+1.3</b>             | <b>+1.9</b>   |
| Blast furnaces, steel works, and rolling mills.....                    | 107.7   | -2                      | +18.0         | 105.0   | +3.1                    | +40.5         | 29.13                                | +3.3                    | +19.0         | 43.5                                       | +2.4                    | +17.6         | 67.3                                 | +1.4                    | +1.7          |
| Bolts, nuts, washers, and rivets.....                                  | 80.6  | +2.8                    | +14.1         | 88.6  | +2.3                    | +34.4         | 25.41                                | -4                      | +17.9         | 44.2                                       | -1                      | +17.5         | 57.5                                 | -4                      | +2            |
| Cast-iron pipe.....  | 65.6  | -1.1                    | +20.1         | 47.8  | -3.7                    | +43.5         | 19.91                                | -2.6                    | +19.3         | 39.4                                       | -3.3                    | +18.0         | 49.9                                 | +8                      | +9            |
| Cutlery (not including silver and plated cutlery) and edge tools.....  | 85.8  | +3.3                    | +6.8          | 82.5  | +5.3                    | +19.0         | 23.75                                | +2.0                    | +11.4         | 45.4                                       | +1.2                    | +10.8         | 52.3                                 | +7                      | +4            |
| Forgings iron and steel.....   | 64.4  | +6.1                    | +16.2         | 58.3  | +12.6                   | +28.4         | 28.21                                | +6.2                    | +10.6         | 44.5                                       | +5.1                    | +5.9          | 63.6                                 | +1.0                    | +4.2          |
| Hardware.....  | 73.4  | +8.0                    | +14.2         | 83.6  | +14.3                   | +30.2         | 26.20                                | +5.8                    | +14.0         | 44.8                                       | +5                      | +8.7          | 59.3                                 | +6.2                    | +5.5          |
| Plumbers' supplies.....  | 85.8  | +3                      | +4            | 63.3  | -4.0                    | +9.2          | 22.85                                | -4.4                    | +8.8          | 39.5                                       | -5.0                    | +4.7          | 57.8                                 | +6                      | +3.5          |
| Steam and hot-water heating apparatus and steam fittings.....          | 73.7  | +9                      | +20.4         | 65.9  | +6                      | +38.9         | 26.05                                | -4                      | +15.1         | 43.4                                       | -3                      | +12.0         | 59.9                                 | -2                      | +2.5          |
| Stoves.....  | 114.6   | -2.1                    | +12.2         | 102.9   | -5.4                    | +28.5         | 25.99                                | -3.4                    | +14.2         | 44.2                                       | -4.4                    | +13.6         | 59.1                                 | +7                      | +1            |
| Structural and ornamental metalwork.....                               | 73.2  | -2.2                    | +32.4         | 65.5  | -4.3                    | +58.3         | 25.23                                | -2.2                    | +19.1         | 43.0                                       | -2.3                    | +19.3         | 58.7                                 | +1                      | -2            |
| Tin cans and other tinware.....  | 95.8  | -6.7                    | +2.3          | 92.2  | -5.2                    | +4.8          | 21.22                                | +1.7                    | +2.6          | 39.2                                       | +3                      | +1.9          | 54.5                                 | +1.3                    | +6            |
| Tools (not including edge tools, machine tools, files, and saws).....  | 93.5  | +4.3                    | +21.3         | 97.6  | +3.7                    | +29.6         | 24.34                                | -7                      | +6.9          | 45.1                                       | -1.0                    | +7.4          | 53.9                                 | +6                      | -2            |
| Wirework.....  | 164.2   | +6.5                    | +24.6         | 167.0   | +14.2                   | +39.4         | 25.04                                | +7.2                    | +11.8         | 45.2                                       | +4.9                    | +11.8         | 55.4                                 | +2.2                    | +2            |
| <b>Machinery, not including transportation equipment.....</b>          | <b>111.3</b>                                      | <b>+1.6</b>             | <b>+15.3</b>  | <b>105.4</b>                                      | <b>+2.8</b>             | <b>+27.0</b>  | <b>26.16</b>                         | <b>+1.2</b>             | <b>+10.1</b>  | <b>42.4</b>                                | <b>+1.4</b>             | <b>+7.6</b>   | <b>61.7</b>                          | <b>+1.0</b>             | <b>+2.7</b>   |
| Agricultural implements.....   | 91.1  | -4.4                    | -19.6         | 97.3  | -3.7                    | -16.5         | 24.54                                | +8                      | +3.8          | 40.2                                       | -8                      | +3.0          | 61.1                                 | +8                      | +4            |
| Cash registers, adding machines, and calculating machines.....         | 119.5   | +5                      | +10.7         | 111.6   | -4.2                    | +19.7         | 28.83                                | -4.7                    | +8.1          | 40.0                                       | -7.0                    | +3.2          | 72.8                                 | +2.1                    | +4.6          |
| Electrical machinery, apparatus, and supplies.....                     | 103.0   | +3.5                    | +20.4         | 96.8  | +4.5                    | +31.4         | 25.97                                | +1.0                    | +9.0          | 41.4                                       | +1.3                    | +7.6          | 62.3                                 | +1                      | +1.8          |
| Engines, turbines, tractors, and water wheels.....                     | 116.8   | +4.5                    | +9.2          | 105.3   | +6.2                    | +15.8         | 28.00                                | +1.6                    | +6.0          | 40.3                                       | +6                      | +4.0          | 69.6                                 | +9                      | +2.0          |
| Foundry and machine-shop products.....                                 | 97.0  | +1.4                    | +20.8         | 93.3  | +3.4                    | +35.6         | 26.71                                | +2.0                    | +12.2         | 43.8                                       | +1.1                    | +9.7          | 60.9                                 | +1.2                    | +3.0          |

|  |              |                  |              |              |                  |              |              |             |              |             |                  |              |             |                  |             |
|--|--------------|------------------|--------------|--------------|------------------|--------------|--------------|-------------|--------------|-------------|------------------|--------------|-------------|------------------|-------------|
| Machine tools.....                                 | 127.8        | +1.3             | +20.7        | 124.4        | +1.6             | +31.2        | 29.28        | +2          | +8.6         | 45.5        | -.5              | +6.6         | 64.3        | +8               | +2.0        |
| Radios and phonographs.....                        | 210.6        | -3.5             | -6.2         | 169.4        | -4.7             | -1.4         | 21.11        | -1.3        | +5.0         | 38.6        | -3.2             | -1.2         | 54.7        | +2.0             | +6.5        |
| Textile machinery and parts.....                   | 74.0         | +1.0             | +13.0        | 67.4         | +1.7             | +21.8        | 24.35        | +7          | +8.0         | 40.7        | -.4              | +10.2        | 60.0        | +1.5             | -1.7        |
| Typewriters and parts.....                         | 139.0        | +4.5             | +20.7        | 134.4        | +4.3             | +31.9        | 25.81        | -.2         | +9.3         | 45.5        | -.6              | +12.4        | 56.8        | +1.2             | +7          |
| <b>Transportation equipment.....</b>               | <b>114.7</b> | <b>+12.7</b>     | <b>+12.9</b> | <b>112.9</b> | <b>+18.3</b>     | <b>+23.7</b> | <b>31.29</b> | <b>+5.0</b> | <b>+9.5</b>  | <b>41.0</b> | <b>+3.2</b>      | <b>+5.6</b>  | <b>76.5</b> | <b>+2.2</b>      | <b>+3.7</b> |
| Aircraft.....                                      | 532.4        | +4.4             | +26.4        | 389.8        | +4.8             | +23.6        | 26.93        | +3          | -2.2         | 43.1        | +1               | -.6          | 63.1        | -.1              | -1.4        |
| Automobiles.....                                   | 128.3        | +16.6            | +9.6         | 125.8        | +23.9            | +20.4        | 32.27        | +6.3        | +9.8         | 41.6        | +3.9             | +5.4         | 77.9        | +2.4             | +4.8        |
| Cars, electric- and steam-railroad.....            | 60.1         | -2.0             | +53.2        | 60.6         | -3.5             | +76.8        | 24.50        | -1.5        | +15.3        | 38.7        | -2.2             | +11.4        | 63.2        | +7               | +3.5        |
| Locomotives.....                                   | 40.5         | +2.5             | +65.3        | 28.2         | +4.4             | +106.1       | 27.31        | +1.8        | +24.5        | 42.9        | +1.5             | +19.8        | 63.6        | +3               | +3.8        |
| Shipbuilding.....                                  | 97.4         | -5.1             | +15.8        | 97.3         | -5.7             | +25.6        | 27.68        | -.6         | +8.4         | 35.7        | -1.1             | +8.4         | 77.2        | + <sup>(3)</sup> | +6          |
| <b>Railroad repair shops.....</b>                  | <b>60.6</b>  | <b>+3</b>        | <b>+12.8</b> | <b>65.2</b>  | <b>+2.0</b>      | <b>+24.0</b> | <b>30.78</b> | <b>+1.7</b> | <b>+9.8</b>  | <b>44.8</b> | <b>+1.6</b>      | <b>+8.9</b>  | <b>69.2</b> | <b>+1</b>        | <b>+1.1</b> |
| Electric railroad.....                             | 63.3         | - <sup>(3)</sup> | +2.8         | 65.5         | +3.0             | +10.4        | 29.06        | +3.1        | +7.4         | 44.8        | +3.0             | +5.1         | 63.4        | +1               | +2.2        |
| Steam railroad.....                                | 60.4         | +4               | +13.8        | 65.4         | +2.1             | +25.2        | 31.06        | +1.7        | +10.2        | 44.8        | +1.5             | +9.4         | 69.7        | +1               | +1.0        |
| <b>Nonferrous metals and their products.....</b>   | <b>110.0</b> | <b>+1.6</b>      | <b>+11.1</b> | <b>102.0</b> | <b>+2.3</b>      | <b>+23.9</b> | <b>25.08</b> | <b>+7</b>   | <b>+11.6</b> | <b>43.9</b> | <b>+2</b>        | <b>+7.6</b>  | <b>56.9</b> | <b>+5</b>        | <b>+3.8</b> |
| Aluminum manufactures.....                         | 118.8        | +1.4             | +16.8        | 114.9        | +3.9             | +27.9        | 24.56        | +2.5        | +9.3         | 43.4        | +2.6             | +4.7         | 56.6        | +4               | +4.7        |
| Brass, bronze, and copper products.....            | 112.9        | +1.4             | +11.5        | 103.8        | +9               | +24.4        | 26.28        | -.5         | +11.5        | 43.3        | -.5              | +5.5         | 60.8        | -.1              | +5.6        |
| Clocks and watches and time-recording devices..... | 120.5        | +2.4             | +12.9        | 121.9        | +5.0             | +19.9        | 23.73        | +2.5        | +6.2         | 46.6        | +1.8             | -2.7         | 50.5        | +6               | +2.7        |
| Jewelry.....                                       | 100.7        | -1.3             | +12.2        | 78.0         | -7.3             | +24.5        | 23.75        | -6.1        | +10.9        | 41.7        | -7.4             | +8.9         | 56.5        | +1.4             | +1          |
| Lighting equipment.....                            | 97.2         | +6.9             | +21.9        | 97.0         | +17.1            | +36.6        | 25.46        | +9.6        | +11.8        | 45.4        | +5.4             | +9.4         | 56.2        | +4.0             | +2.3        |
| Silverware and plated ware.....                    | 73.8         | +2.8             | +3.5         | 71.6         | +4.7             | +21.3        | 26.96        | +1.9        | +17.1        | 46.4        | +2.4             | +23.0        | 57.8        | -.3              | -4.3        |
| Smelting and refining—copper, lead, and zinc.....  | 79.4         | +4               | +4.0         | 70.0         | +3.2             | +19.6        | 26.00        | +2.8        | +15.1        | 43.5        | +3.7             | +8.7         | 59.7        | -.9              | +6.2        |
| Stamped and enameled ware.....                     | 156.0        | +1.1             | +8.9         | 155.0        | +4               | +21.8        | 23.18        | -.6         | +11.9        | 43.4        | +1.4             | +7.6         | 53.5        | +5               | +4.7        |
| <b>Lumber and allied products.....</b>             | <b>67.8</b>  | <b>-2.0</b>      | <b>+8.5</b>  | <b>60.8</b>  | <b>-4.3</b>      | <b>+21.4</b> | <b>20.12</b> | <b>-2.3</b> | <b>+11.8</b> | <b>43.5</b> | <b>-2.1</b>      | <b>+8.3</b>  | <b>46.3</b> | <b>-.8</b>       | <b>+3.9</b> |
| Furniture.....                                     | 88.3         | +1.6             | +15.9        | 77.6         | +8               | +32.1        | 20.79        | -.7         | +13.9        | 45.3        | -1.8             | +10.8        | 46.1        | +1.0             | +3.6        |
| Lumber:  |              |                  |              |              |                  |              |              |             |              |             |                  |              |             |                  |             |
| Millwork.....                                      | 53.4         | + <sup>(3)</sup> | +14.2        | 49.6         | -.5              | +30.5        | 21.45        | -.5         | +14.1        | 45.4        | -.9              | +12.9        | 47.3        | +3               | +9          |
| Sawmills.....                                      | 49.9         | -4.8             | +2.9         | 42.7         | -9.2             | +11.5        | 19.09        | -4.7        | +8.8         | 41.9        | -2.8             | +7.8         | 46.2        | -2.0             | +6          |
| <b>Stone, clay, and glass products.....</b>        | <b>67.3</b>  | <b>-2.6</b>      | <b>+9.6</b>  | <b>61.1</b>  | <b>-2.2</b>      | <b>+25.5</b> | <b>23.23</b> | <b>+4</b>   | <b>+14.5</b> | <b>41.4</b> | <b>+5</b>        | <b>+11.6</b> | <b>56.0</b> | <b>-.4</b>       | <b>+1.7</b> |
| Brick, tile, and terra cotta.....                  | 49.6         | - <sup>(3)</sup> | +22.4        | 41.1         | -.4              | +40.4        | 20.17        | -.3         | +14.7        | 44.0        | -1.2             | +12.7        | 46.1        | +1.1             | +1.0        |
| Cement.....  | 64.2         | -2.0             | +23.4        | 63.1         | +1.7             | +53.5        | 24.37        | +3.8        | +24.2        | 41.6        | +3.4             | +22.2        | 58.6        | +3               | +2.0        |
| Glass.....   | 97.6         | -5.8             | -2.7         | 99.4         | -3.5             | +10.6        | 24.50        | +2.4        | +13.7        | 40.3        | +3.5             | +9.1         | 60.9        | -1.1             | +4.2        |
| Marble, granite, slate, and other products.....    | 43.3         | -2.3             | +22.7        | 34.2         | -10.4            | +41.2        | 23.60        | -8.3        | +15.3        | 36.9        | -8.8             | +16.9        | 63.4        | -.5              | -1.0        |
| Pottery.....                                       | 77.0         | -.1              | +5.2         | 67.1         | +1.4             | +18.3        | 23.35        | +1.5        | +12.5        | 42.0        | -1.0             | +9.3         | 55.7        | +2               | +1.5        |
| <i>Nondurable goods</i>                            |              |                  |              |              |                  |              |              |             |              |             |                  |              |             |                  |             |
| <b>Textiles and their products.....</b>            | <b>104.8</b> | <b>+5</b>        | <b>+4.7</b>  | <b>87.2</b>  | <b>-1.5</b>      | <b>+8.1</b>  | <b>16.76</b> | <b>-2.0</b> | <b>+3.2</b>  | <b>36.5</b> | <b>-.8</b>       | <b>+5.2</b>  | <b>45.9</b> | <b>-1.6</b>      | <b>-2.2</b> |
| Fabrics.....                                       | 98.8         | +1.8             | +3.1         | 86.7         | +1.9             | +6.6         | 16.54        | +2          | +3.4         | 38.2        | -.2              | +5.4         | 43.4        | -.2              | -1.7        |
| Carpets and rugs.....                              | 94.3         | +9               | +10.3        | 89.6         | -.2              | +31.8        | 22.51        | -1.1        | +19.5        | 40.0        | -1.3             | +20.1        | 56.3        | +2               | -.3         |
| Cotton goods.....                                  | 99.5         | +1.9             | +11.8        | 97.9         | +1.6             | +17.7        | 14.02        | -.3         | +5.3         | 38.3        | -.3              | +5.9         | 36.6        | -.1              | -.1         |
| Cotton small wares.....                            | 103.6        | +2.0             | +5.6         | 97.8         | -2.0             | +9.3         | 17.47        | -3.9        | +8.6         | 38.3        | -2.7             | +6.5         | 44.5        | -.8              | -2.1        |
| Dyeing and finishing textiles.....                 | 117.8        | +2.6             | -1.4         | 100.6        | +2.9             | +8.6         | 20.66        | +3          | +10.0        | 40.4        | + <sup>(3)</sup> | +13.8        | 50.8        | +5               | -3.8        |
| Hats, fur-felt.....                                | 82.7         | -.7              | -3.2         | 68.0         | +11.8            | +8.7         | 22.18        | +12.5       | +12.4        | 32.3        | +17.2            | +12.4        | 67.7        | -3.6             | -.2         |
| Knit goods.....                                    | 121.0        | -3               | +2.8         | 124.2        | - <sup>(3)</sup> | +3.5         | 17.84        | +3          | +7           | 38.4        | +1.0             | +2.0         | 47.4        | -.5              | -.7         |
| Silk and rayon goods.....                          | 80.0         | -1.9             | -6.0         | 63.8         | -4.8             | -8.4         | 15.84        | -3.0        | +1.1         | 37.5        | -2.2             | +6.0         | 42.2        | -1.1             | -4.8        |
| Woolen and worsted goods.....                      | 83.8         | +6.7             | -10.4        | 66.1         | +9.3             | -8.4         | 18.15        | +2.4        | +2.2         | 36.7        | +2.2             | -1.2         | 49.6        | +2               | +9          |
| Wearing apparel.....                               | 116.0        | -1.9             | +8.1         | 84.6         | -7.5             | +11.0        | 17.39        | -5.7        | +2.7         | 33.1        | -3.5             | +6.0         | 51.0        | -3.4             | -3.0        |
| Clothing, men's.....                               | 106.5        | -1.4             | +4.9         | 79.3         | -3.4             | +8.9         | 17.90        | -2.1        | +3.5         | 32.1        | -2.4             | +11.5        | 55.2        | -.2              | -3.6        |
| Clothing, women's.....                             | 158.1        | -3.2             | +10.8        | 102.7        | -13.8            | +13.1        | 18.25        | -11.0       | +2.2         | 31.8        | -5.8             | +2.9         | 53.8        | -7.5             | -2.3        |
| Corsets and allied garments.....                   | 90.4         | +8               | +2.8         | 88.1         | -2.6             | +8.1         | 16.05        | -3.4        | +5.1         | 35.0        | -4.6             | +8.7         | 45.0        | +5               | -2.3        |
| Men's furnishings.....                             | 143.0        | +3.4             | +17.2        | 125.5        | +6.7             | +13.8        | 15.99        | +3.2        | -2.9         | 38.6        | -1.3             | +4           | 36.3        | +6               | -2.2        |
| Millinery.....                                     | 47.8         | -15.6            | +3.4         | 31.2         | -18.3            | +10.4        | 18.35        | -3.3        | +6.8         | 28.8        | -7.2             | +6.8         | 58.8        | +1.9             | -2.6        |
| Shirts and collars.....                            | 124.7        | +1.0             | +8.5         | 116.4        | +5               | +10.2        | 14.05        | -.6         | +1.4         | 37.8        | -1.5             | +1.6         | 37.0        | +1.1             | -1.2        |

See footnotes at end of table.

Table 3.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, November 1936—Con.

Manufacturing (indexes are based on 3-year average, 1923-25=100)—Continued

| 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 No-<br>vem-<br>ber<br>1936<br>(re-<br>vised<br>series) <sup>2</sup> | Percentage<br>change from— |                            | Index No-<br>vem-<br>ber<br>1936<br>(re-<br>vised<br>series) <sup>2</sup> | Percentage<br>change from—           |                            | No-<br>vem-<br>ber<br>1936                 | Percentage<br>change from— |                                      | No-<br>vem-<br>ber<br>1936 | Percentage<br>change from— |                            |             |             |             |
|  |   | Octo-<br>ber<br>1936       | No-<br>vem-<br>ber<br>1935 |   | Octo-<br>ber<br>1936                 | No-<br>vem-<br>ber<br>1935 |  | Octo-<br>ber<br>1936       | No-<br>vem-<br>ber<br>1935           |                            | Octo-<br>ber<br>1936       | No-<br>vem-<br>ber<br>1935 |             |             |             |
| <i>Nondurable goods—Continued</i>  |   |                            |                            |   |                                      |                            |  |                            |                                      |                            |                            |                            |             |             |             |
| <b>Leather and its manufactures</b> .....                                | <b>89.0</b>   | <b>-4.1</b>                | <b>+2.9</b>                | <b>67.3</b>   | <b>-9.1</b>                          | <b>+4.5</b>                | <b>\$17.45</b>                             | <b>-5.1</b>                | <b>+1.5</b>                          | <b>35.1</b>                | <b>-4.6</b>                | <b>+2.5</b>                | <b>50.9</b> | <b>0.0</b>  | <b>-2.1</b> |
| Boots and shoes.....   | 87.8  | -5.5                       | +4.3                       | 58.2  | -13.6                                | +4.5                       | 15.90                                      | -8.6                       | +1.1                                 | 33.6                       | -6.3                       | +2.6                       | 49.3        | -.2         | -3.2        |
| Leather.....   | 98.4  | +1.2                       | -1.2                       | 100.8   | +1.8                                 | +4.7                       | 22.79                                      | +6                         | +6.2                                 | 40.1                       | +4                         | +4.1                       | 56.5        | +1.1        | +1.6        |
| <b>Food and kindred products</b> .....                                   | <b>114.1</b>  | <b>-8.1</b>                | <b>+5.8</b>                | <b>108.3</b>  | <b>-2.9</b>                          | <b>+14.0</b>               | <b>22.63</b>                               | <b>+5.7</b>                | <b>+7.7</b>                          | <b>42.4</b>                | <b>+8</b>                  | <b>-5.7</b>                | <b>53.2</b> | <b>+4.5</b> | <b>+3.0</b> |
| Baking.....  | 133.0   | +3                         | +5.6                       | 120.4   | +1.2                                 | +11.2                      | 23.57                                      | +9                         | +5.3                                 | 43.0                       | +3                         | +7.2                       | 55.0        | +5          | +1.1        |
| Beverages.....   | 183.0   | -4.1                       | +11.0                      | 191.3   | -3.8                                 | +13.8                      | 30.65                                      | +3                         | +2.5                                 | 39.0                       | -1.5                       | +8                         | 78.6        | +1.8        | +1.0        |
| Butter.....  | 82.0  | -.9                        | +2.4                       | 65.1  | +(?)                                 | +9.6                       | 22.43                                      | +9                         | +7.2                                 | 47.4                       | -.1                        | +5.8                       | 46.7        | +2.0        | +3.5        |
| Canning and preserving.....  | 113.1   | -42.7                      | -.7                        | 98.2  | -45.2                                | +6.8                       | 14.00                                      | -4.4                       | +7.6                                 | 36.0                       | -10.5                      | +6.0                       | 39.8        | +6.1        | +4.1        |
| Confectionery.....   | 91.9  | +1.0                       | +6.1                       | 84.6  | -2.0                                 | +12.7                      | 16.69                                      | -3.0                       | +6.3                                 | 42.7                       | -1.4                       | +10.6                      | 39.3        | -1.8        | -4.2        |
| Flour.....   | 74.7  | -2.8                       | -3.7                       | 70.4  | -3.3                                 | +1.6                       | 23.89                                      | -.6                        | +5.5                                 | 44.6                       | -1.0                       | +7.4                       | 53.0        | +2          | -2.1        |
| Ice cream.....   | 62.2  | -5.4                       | +3.6                       | 56.3  | -2.7                                 | +8.6                       | 27.67                                      | +2.9                       | +4.8                                 | 47.3                       | +1.1                       | +3.5                       | 57.6        | +1.5        | -.6         |
| Slaughtering and meat packing.....                                       | 96.9  | +5.6                       | +15.0                      | 99.8  | +12.5                                | +26.8                      | 25.76                                      | +6.5                       | +10.5                                | 44.0                       | +2.0                       | +6.7                       | 58.5        | +4.5        | +3.1        |
| Sugar, beet.....   | 273.6   | +7                         | +2.2                       | 268.8   | +33.1                                | +14.7                      | 22.52                                      | +32.2                      | +12.1                                | 53.1                       | +38.8                      | +7.2                       | 43.2        | -3.4        | +5.4        |
| Sugar refining, cane.....  | 68.0  | -10.4                      | -10.5                      | 58.6  | -4.4                                 | +1.4                       | 23.13                                      | +6.7                       | +13.4                                | 41.3                       | +13.4                      | +13.8                      | 53.0        | -10.9       | -4.0        |
| <b>Tobacco manufactures</b> .....  | <b>65.9</b>   | <b>+2.2</b>                | <b>+4.3</b>                | <b>54.8</b>   | <b>+2</b>                            | <b>+7.9</b>                | <b>15.21</b>                               | <b>-1.9</b>                | <b>+3.5</b>                          | <b>36.8</b>                | <b>-2.3</b>                | <b>+2.8</b>                | <b>41.1</b> | <b>-(?)</b> | <b>+4</b>   |
| Chewing and smoking tobacco and snuff.....                               | 57.1  | +9                         | +9                         | 62.1  | +1.9                                 | +9.9                       | 16.11                                      | +1.1                       | +9.3                                 | 35.8                       | -1.1                       | +5.1                       | 45.0        | +2.1        | +4.1        |
| Cigars and cigarettes.....   | 66.9  | +2.4                       | +4.6                       | 53.9  | +1                                   | +7.6                       | 15.04                                      | -2.3                       | +2.8                                 | 36.9                       | -2.5                       | +2.5                       | 40.6        | -.1         | +2          |
| <b>Paper and printing</b> .....  | <b>105.0</b>  | <b>+1.0</b>                | <b>+5.6</b>                | <b>98.6</b>   | <b>+2.2</b>                          | <b>+13.6</b>               | <b>27.32</b>                               | <b>+1.2</b>                | <b>+7.6</b>                          | <b>40.9</b>                | <b>+1.4</b>                | <b>-6.2</b>                | <b>69.8</b> | <b>-(?)</b> | <b>+8</b>   |
| Boxes, paper.....  | 106.2   | +7                         | +6.1                       | 108.8   | +7                                   | +13.4                      | 20.81                                      | +(?)                       | +6.9                                 | 44.6                       | +8                         | -8.9                       | 47.0        | -.8         | -1.5        |
| Paper and pulp.....  | 111.9   | +1.1                       | +4.1                       | 104.5   | +2.6                                 | +14.7                      | 23.47                                      | +1.5                       | +10.4                                | 43.5                       | +1.1                       | +8.0                       | 54.0        | +2          | +2.0        |
| Printing and publishing:   |   |                            |                            |   |                                      |                            |  |                            |                                      |                            |                            |                            |             |             |             |
| Book and job.....  | 95.6  | +1.4                       | +8.5                       | 87.6  | +3.3                                 | +14.9                      | 29.09                                      | +1.9                       | +5.8                                 | 39.6                       | +2.4                       | +5.2                       | 74.5        | -(?)        | +4          |
| Newspapers and periodicals.....  | 105.3   | +5                         | +3.9                       | 101.8   | +1.2                                 | +11.3                      | 36.32                                      | +7                         | +6.9                                 | 37.6                       | +9                         | +3.7                       | 93.4        | +2          | +1.3        |
| <b>Chemicals and allied products, and petro-<br/>leum refining</b> ..... | <b>119.7</b>  | <b>-.5</b>                 | <b>+4.5</b>                | <b>114.8</b>  | <b>+3</b>                            | <b>+13.1</b>               | <b>24.92</b>                               | <b>+8</b>                  | <b>+8.2</b>                          | <b>39.8</b>                | <b>-.5</b>                 | <b>+3.8</b>                | <b>63.8</b> | <b>+1.2</b> | <b>+4.2</b> |
| Other than petroleum refining.....                                       | 119.4   | -.7                        | +4.9                       | 113.4   | -.4                                  | +13.1                      | 22.75                                      | +2                         | +7.8                                 | 41.0                       | -1.1                       | +3.1                       | 56.8        | +1.2        | +4.7        |
| Chemicals.....   | 130.0   | +1                         | +11.7                      | 127.5   | +2.3                                 | +20.3                      | 27.38                                      | +2.2                       | +7.7                                 | 41.6                       | +1.6                       | +3.7                       | 65.9        | +5          | +3.8        |
| Cottonseed—oil, cake, and meal.....                                      | 103.6   | +1                         | -4.3                       | 83.1  | -1.6                                 | -1.4                       | 11.20                                      | -1.8                       | +2.9                                 | 53.6                       | +5                         | +6.8                       | 20.9        | -2.1        | -3.8        |
| Druggists' preparations.....   | 105.9   | +1.4                       | +1.4                       | 112.7   | +1                                   | +11.8                      | 22.88                                      | -1.3                       | +10.2                                | 40.4                       | +5                         | +9.5                       | 54.1        | -1.4        | -.3         |
| Explosives.....  | 95.4  | +2.4                       | +13.5                      | 98.3  | +2.2                                 | +28.5                      | 28.43                                      | -.2                        | +13.5                                | 41.3                       | -.7                        | +10.8                      | 68.8        | +6          | +2.8        |

|   |       |      |       |       |      |       |       |      |       |      |      |       |      |      |      |
|---|-------|------|-------|-------|------|-------|-------|------|-------|------|------|-------|------|------|------|
| Fertilizers.....  | 69.8  | -9.2 | -4.1  | 63.1  | -9.4 | +6.5  | 14.77 | -1.1 | +11.0 | 39.3 | -1.7 | +11.8 | 37.6 | +1.7 | +1.1 |
| Paints and varnishes.....   | 125.3 | -2.6 | +2.4  | 116.8 | -2.3 | +9.6  | 25.61 | +3   | +7.0  | 42.2 | -.9  | +4.3  | 60.9 | +1.1 | +2.5 |
| Rayon and allied products.....  | 364.0 | +7   | +4.0  | 299.6 | -2.6 | +7.8  | 20.36 | -3.3 | +3.6  | 37.1 | -5.4 | -3.7  | 54.9 | +2.2 | +7.9 |
| Soap.....   | 102.5 | -4.3 | +6    | 101.6 | -3.5 | +5.4  | 24.31 | +8   | +5.0  | 39.9 | -1.6 | +3.6  | 61.2 | +2.5 | +1.6 |
| Petroleum refining.....   | 121.1 | +4   | +3.2  | 119.1 | +2.8 | +13.5 | 30.43 | +2.3 | +9.9  | 36.5 | +1.7 | +5.6  | 83.9 | +7   | +4.2 |
| Rubber products.....  | 100.0 | +2.1 | +16.0 | 101.2 | +4.5 | +31.1 | 27.30 | +2.3 | +12.9 | 38.7 | +9   | +8.1  | 71.9 | +1.3 | +4.4 |
| Rubber boots and shoes.....   | 79.9  | +1.9 | +13.9 | 69.2  | +6.7 | +29.5 | 21.55 | +4.7 | +13.8 | 40.8 | +3.7 | +11.7 | 52.8 | +1.0 | +4.4 |
| Rubber goods, other than boots, shoes, tires,<br>and inner tubes..... | 135.6 | +2.1 | +10.4 | 130.5 | +1.8 | +23.7 | 22.48 | -.2  | +12.3 | 41.8 | -1.3 | +9.7  | 54.3 | +1.3 | +3.3 |
| Rubber tires and inner tubes.....                                     | 90.9  | +2.2 | +20.7 | 98.9  | +5.4 | +35.3 | 31.82 | +3.1 | +11.8 | 36.1 | +1.6 | +6.8  | 89.0 | +1.3 | +4.2 |

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

|  |                  |      |       |                  |       |       |       |       |       |                  |                  |                  |                  |                   |                  |
|--|------------------|------|-------|------------------|-------|-------|-------|-------|-------|------------------|------------------|------------------|------------------|-------------------|------------------|
| Coal mining:   |                  |      |       |                  |       |       |       |       |       |                  |                  |                  |                  |                   |                  |
| Anthracite.....  | 51.5             | +3.2 | +10.4 | 40.3             | -17.1 | +41.9 | 22.75 | -19.6 | +28.4 | 27.5             | -17.2            | +23.6            | 83.0             | -1.6              | +2.9             |
| Bituminous.....  | 82.3             | +1.6 | +8.2  | 80.7             | +1.9  | +23.1 | 25.02 | +3    | +13.7 | 31.8             | +1.2             | +16.0            | 79.5             | -.5               | -2.5             |
| Metalliferous mining.....  | 62.9             | -2.0 | +19.6 | 54.6             | +1.6  | +37.8 | 27.63 | +3.7  | +15.3 | 44.2             | +3.1             | +10.2            | 62.6             | +6                | +5.5             |
| Quarrying and nonmetallic mining.....                            | 52.6             | -3.6 | +12.7 | 43.5             | -5.9  | +35.5 | 20.80 | -2.4  | +20.2 | 42.9             | -2.1             | +19.3            | 48.3             | -.2               | +8               |
| Crude-petroleum producing.....                                   | 73.2             | -.6  | +3    | 60.1             | +9    | +5.0  | 30.49 | +1.5  | +4.7  | 39.2             | +9               | +7.3             | 77.2             | +6                | -3.3             |
| Public utilities:  |                  |      |       |                  |       |       |       |       |       |                  |                  |                  |                  |                   |                  |
| Telephone and telegraph.....                                     | 73.7             | -.2  | +5.6  | 81.6             | -1.8  | +9.0  | 29.65 | -1.6  | +3.2  | 38.6             | -2.8             | -.9              | 79.6             | +1.1              | +4.6             |
| Electric light and power and manufactured<br>gas.....            | 93.5             | -.5  | +6.7  | 91.8             | -1.0  | +10.1 | 31.93 | -.5   | +3.2  | 39.9             | -2.4             | +7               | 80.4             | +2.0              | +2.7             |
| Electric-railroad and motorbus operation and<br>maintenance..... | 73.0             | -.1  | +2.7  | 69.7             | +2.9  | +9.2  | 31.05 | +3.1  | +6.4  | 46.9             | +1.4             | +3.1             | 65.1             | +1.4              | +3.2             |
| Trade:   |                  |      |       |                  |       |       |       |       |       |                  |                  |                  |                  |                   |                  |
| Wholesale.....   | 89.7             | +9   | +3.8  | 73.2             | +2.2  | +9.4  | 29.25 | +1.4  | +5.4  | 43.3             | +4               | +2.9             | 67.4             | +8                | +2.6             |
| Retail.....  | 90.4             | +1.9 | +6.9  | 70.1             | +2.6  | +10.6 | 20.56 | +7    | +3.6  | 44.0             | +6               | +3.0             | 51.9             | +( <sup>3</sup> ) | +6               |
| General merchandising.....                                       | 110.4            | +6.3 | +8.7  | 91.4             | +4.8  | +11.4 | 17.23 | -1.4  | +2.5  | 41.7             | +2.0             | +6.1             | 45.1             | -1.9              | -1.9             |
| Other than general merchandising.....                            | 85.1             | +5   | +6.1  | 65.7             | +2.1  | +10.3 | 23.66 | +1.6  | +3.9  | 44.8             | +3               | +2.4             | 54.3             | +8                | +1.1             |
| Hotels (year-round) <sup>4</sup> .....                           | 84.6             | -1.0 | +3.8  | 69.6             | +1    | +7.5  | 14.18 | +1.1  | +3.5  | 47.7             | -.2              | +6               | 29.6             | +5                | +2.9             |
| Laundries.....   | 87.0             | -.7  | +7.1  | 74.5             | -1.1  | +11.6 | 15.95 | -.4   | +4.4  | 42.1             | -1.0             | +3.3             | 37.6             | +6                | +1.3             |
| Dyeing and cleaning.....   | 81.3             | -6.0 | +6.5  | 60.2             | -9.6  | +8.8  | 18.15 | -3.8  | +2.1  | 42.2             | -3.0             | +2.2             | 44.3             | -.7               | +1.3             |
| Brokerage.....   | ( <sup>5</sup> ) | +1.4 | +14.1 | ( <sup>5</sup> ) | +2.2  | +20.4 | 37.75 | +7    | +5.4  | ( <sup>5</sup> ) | ( <sup>5</sup> ) | ( <sup>5</sup> ) | ( <sup>5</sup> ) | ( <sup>5</sup> )  | ( <sup>5</sup> ) |
| Insurance.....   | ( <sup>5</sup> ) | -1   | +1.1  | ( <sup>5</sup> ) | +1.7  | +4.9  | 38.02 | +1.8  | +3.8  | ( <sup>5</sup> ) | ( <sup>5</sup> ) | ( <sup>5</sup> ) | ( <sup>5</sup> ) | ( <sup>5</sup> )  | ( <sup>5</sup> ) |
| Building construction.....                                       | ( <sup>5</sup> ) | -1.9 | +33.1 | ( <sup>5</sup> ) | -.1   | +61.5 | 28.89 | +1.8  | +21.4 | 33.9             | -.1              | +14.0            | 85.0             | +2.0              | +6.4             |

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

<sup>2</sup> Comparable indexes for earlier years are available in mimeographed form and will be furnished by the Bureau of Labor Statistics on request.

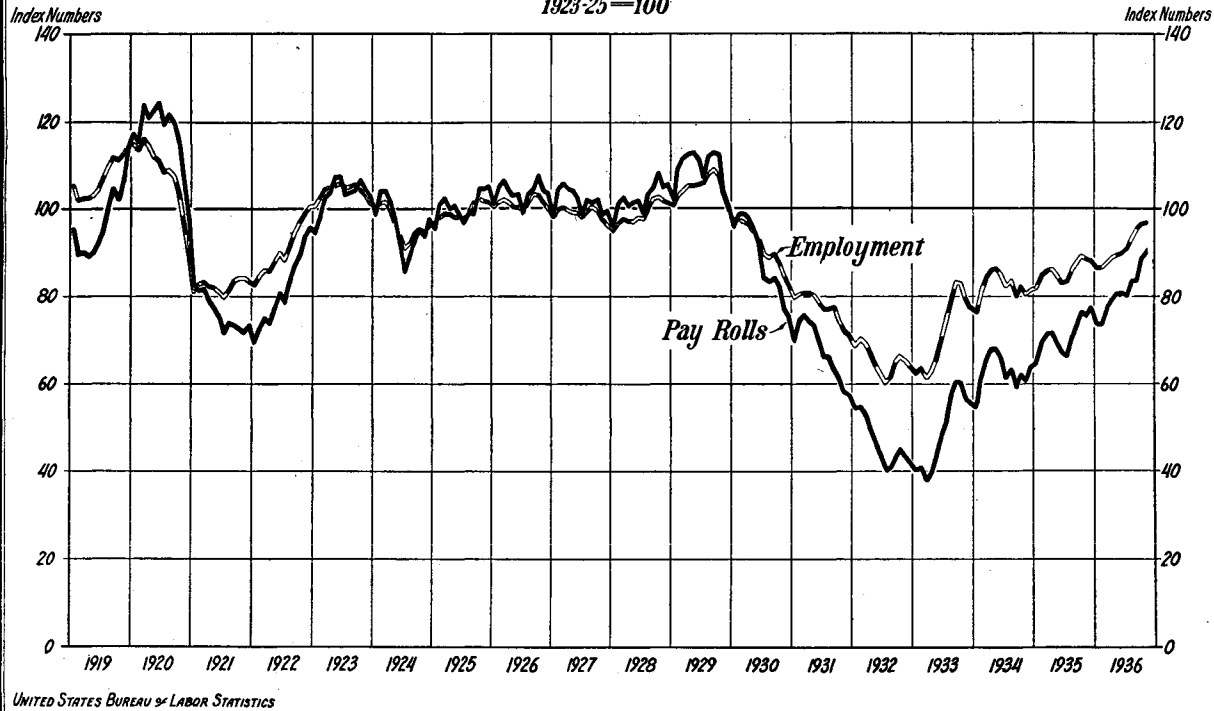
<sup>3</sup> Less than 1/10 of 1 percent.

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

<sup>5</sup> Not available.

# EMPLOYMENT & PAY ROLLS

*All Manufacturing Industries*  
1923-25=100





## 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 November 1936. They supersede the previously published series, which was adjusted only to the 1931 Census. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to November 1936 as shown by the adjusted indexes. Indexes for 13 nonmanufacturing industries including 2 subgroups under retail trade, by months, January 1935 to November 1936, inclusive, are presented in table 5.

The indexes of factory employment and pay rolls are computed from returns supplied by representative establishments in 89 manufacturing industries. The base used in computing these indexes is the 3-year average 1923-25 as 100. In November 1936 reports were received from 25,529 establishments employing 4,666,056 workers whose weekly earnings were \$111,702,922. 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.

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 November 1936, adjusted to 1933 Census of Manufactures<sup>1</sup>

[1923-25=100]

| Month<br>and<br>year | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.   | Dec.  | Aver-<br>age |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------------|
| <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 | 106.7        |
| 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  | 107.8        |
| 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  | 82.2         |
| 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  | 90.3         |
| 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 | 104.1        |
| 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  | 96.4         |
| 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 | 99.5         |
| 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 | 101.3        |
| 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  | 98.9         |
| 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 | 98.7         |
| 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  | 104.7        |
| 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  | 91.3         |
| 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  | 77.3         |
| 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  | 65.5         |
| 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  | 72.0         |
| 1934....             | 76.5  | 81.1  | 84.4  | 86.0  | 86.2  | 84.9  | 82.4  | 83.5  | 80.0  | 82.2  | 80.3   | 81.4  | 82.4         |
| 1935....             | 82.0  | 84.9  | 86.0  | 86.2  | 84.7  | 83.1  | 83.4  | 86.1  | 88.0  | 89.3  | 88.7   | 88.2  | 85.9         |
| 1936....             | 86.6  | 86.7  | 87.8  | 89.0  | 89.6  | 89.9  | 91.0  | 93.4  | 95.3  | 96.5  | * 96.7 | ----- | -----        |

Footnotes at end of table.

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**Table 4.—General Indexes of Factory Employment and Pay Rolls, by Months, January 1919 to November 1936, adjusted to 1933 Census of Manufactures—Continued**

| Month and year   | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.              | Dec.  | 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  | 61.3  | 63.2  | 59.1  | 62.1  | 60.6              | 64.1  | 62.8    |
| 1935----         | 64.9  | 69.9  | 71.6  | 71.6  | 69.3  | 67.3  | 66.4  | 70.9  | 73.5  | 76.3  | 75.5              | 77.4  | 71.2    |
| 1936----         | 73.6  | 73.6  | 77.4  | 79.1  | 80.6  | 80.8  | 80.0  | 83.4  | 83.4  | 88.8  | <sup>2</sup> 90.5 | ----- | -----   |

<sup>1</sup> Comparable revised indexes for each of 89 manufacturing industries, for the durable- and non-durable goods groups, for 14 divisions under these groups, and for 2 subgroups under textiles are available in mimeographed form and will be supplied on request.

<sup>2</sup> The November 1936 employment index without the adjustment would be 92.6, and the corresponding pay roll index 88.2.

**Table 5.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1935 to November 1936 <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 |       |
|                | 1935              | 1936  | 1935      | 1936  | 1935                   | 1936  | 1935      | 1936  | 1935                 | 1936  | 1935      | 1936  | 1935                              | 1936  | 1935      | 1936  |
| January-----   | 62.9              | 59.1  | 57.5      | 54.4  | 80.0                   | 79.8  | 59.6      | 70.6  | 44.3                 | 54.2  | 30.1      | 41.7  | 36.9                              | 39.4  | 20.8      | 25.5  |
| February-----  | 64.4              | 61.2  | 64.3      | 76.7  | 81.1                   | 80.2  | 66.1      | 78.4  | 44.3                 | 55.5  | 29.9      | 42.8  | 37.3                              | 36.9  | 22.2      | 23.9  |
| March-----     | 51.4              | 52.5  | 38.9      | 42.6  | 81.6                   | 80.4  | 67.5      | 70.2  | 45.0                 | 55.9  | 30.9      | 45.1  | 40.5                              | 42.2  | 24.9      | 30.9  |
| April-----     | 52.6              | 49.8  | 49.9      | 28.6  | 74.3                   | 77.5  | 45.0      | 62.6  | 46.0                 | 57.5  | 31.8      | 45.6  | 45.3                              | 48.4  | 28.9      | 36.1  |
| May-----       | 53.5              | 54.9  | 49.5      | 56.3  | 75.3                   | 76.2  | 49.1      | 62.2  | 44.4                 | 60.8  | 31.4      | 47.7  | 49.5                              | 52.0  | 32.8      | 42.1  |
| June-----      | 56.8              | 51.2  | 66.0      | 42.0  | 77.9                   | 75.7  | 64.7      | 61.5  | 46.0                 | 61.9  | 31.5      | 48.2  | 50.4                              | 33.5  | 33.8      | 44.0  |
| July-----      | 49.4              | 48.4  | 37.5      | 37.2  | 70.0                   | 75.5  | 35.9      | 62.6  | 45.2                 | 61.3  | 31.1      | 46.1  | 50.9                              | 54.4  | 34.4      | 43.9  |
| August-----    | 38.7              | 41.1  | 28.3      | 31.4  | 73.4                   | 76.9  | 45.8      | 65.4  | 46.3                 | 61.6  | 33.4      | 48.2  | 51.0                              | 55.3  | 36.3      | 46.2  |
| September----- | 46.0              | 47.6  | 38.2      | 34.9  | 77.1                   | 78.2  | 60.1      | 71.0  | 48.9                 | 63.1  | 35.4      | 50.0  | 50.0                              | 54.9  | 35.4      | 44.8  |
| October-----   | 58.8              | 49.9  | 55.9      | 48.5  | 74.3                   | 81.1  | 69.8      | 79.2  | 51.6                 | 64.2  | 38.7      | 53.7  | 50.0                              | 54.6  | 36.5      | 46.2  |
| November-----  | 48.6              | 51.5  | 28.4      | 40.3  | 76.1                   | 82.3  | 65.5      | 80.7  | 52.6                 | 62.9  | 39.6      | 54.6  | 46.7                              | 52.6  | 32.1      | 43.5  |
| December-----  | 57.3              | ----- | 65.4      | ----- | 79.1                   | ----- | 69.5      | ----- | 53.5                 | ----- | 43.2      | ----- | 43.1                              | ----- | 29.7      | ----- |
| Average--      | 53.2              | ----- | 47.5      | ----- | 76.7                   | ----- | 58.2      | ----- | 47.3                 | ----- | 33.9      | ----- | 46.0                              | ----- | 30.7      | ----- |

See footnotes at end of table.

Table 5.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1935 to November 1936—Continued

| Month          | Crude-petroleum producing |       |           |       | Telephone and telegraph |       |           |       | Electric light and power, and manufactured gas |       |           |       | Electric-railroad and motorbus operation and maintenance <sup>1</sup> |       |           |       |
|----------------|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|--|-------|-----------|-------|---|-------|-----------|-------|
|                | Employment                |       | Pay rolls |       | Employment              |       | Pay rolls |       | Employment                                     |       | Pay rolls |       | Employment  |       | Pay rolls |       |
|                | 1935                      | 1936  | 1935      | 1936  | 1935                    | 1936  | 1935      | 1936  | 1935   | 1936  | 1935      | 1936  | 1935  | 1936  | 1935      | 1936  |
| January.....   | 74.9                      | 71.1  | 55.5      | 55.7  | 70.5                    | 70.1  | 73.9      | 75.0  | 82.7   | 86.1  | 78.0      | 84.8  | 71.2  | 70.7  | 62.9      | 65.0  |
| February.....  | 74.2                      | 70.8  | 54.9      | 55.7  | 70.0                    | 69.9  | 72.9      | 76.2  | 82.2   | 86.1  | 78.3      | 84.7  | 71.0  | 71.7  | 63.1      | 68.3  |
| March.....     | 74.0                      | 70.9  | 56.0      | 56.0  | 69.8                    | 70.2  | 75.3      | 77.2  | 82.3   | 86.8  | 79.4      | 85.9  | 71.3  | 71.2  | 63.4      | 67.8  |
| April.....     | 74.9                      | 71.3  | 56.7      | 57.1  | 69.7                    | 70.8  | 73.1      | 76.0  | 82.6   | 88.0  | 79.0      | 86.2  | 71.4  | 71.3  | 63.3      | 65.9  |
| May.....       | 76.0                      | 72.7  | 57.8      | 58.0  | 70.0                    | 71.6  | 73.7      | 78.5  | 83.3   | 89.0  | 79.8      | 87.0  | 71.6  | 71.5  | 63.6      | 66.1  |
| June.....      | 76.7                      | 73.7  | 59.2      | 58.9  | 70.2                    | 72.1  | 74.4      | 77.4  | 83.9   | 90.4  | 79.8      | 88.1  | 71.7  | 71.7  | 63.9      | 66.8  |
| July.....      | 77.4                      | 75.4  | 59.9      | 60.4  | 70.3                    | 73.1  | 75.7      | 79.9  | 84.8   | 91.7  | 81.5      | 89.8  | 71.5  | 72.4  | 63.4      | 66.5  |
| August.....    | 76.3                      | 75.0  | 58.9      | 59.7  | 70.5                    | 73.5  | 75.5      | 81.2  | 86.8   | 93.1  | 82.8      | 89.8  | 71.2  | 72.4  | 63.3      | 66.5  |
| September..... | 75.1                      | 74.5  | 60.9      | 60.4  | 70.4                    | 73.7  | 73.8      | 78.8  | 86.9   | 93.5  | 84.5      | 91.4  | 71.0  | 72.8  | 64.0      | 66.4  |
| October.....   | 74.7                      | 73.6  | 57.9      | 59.6  | 70.0                    | 73.8  | 74.9      | 83.1  | 87.4   | 94.0  | 84.4      | 92.7  | 71.1  | 73.1  | 64.1      | 67.7  |
| November.....  | 73.0                      | 73.2  | 57.2      | 60.1  | 69.8                    | 73.7  | 74.9      | 81.6  | 87.6   | 93.5  | 83.4      | 91.8  | 71.1  | 73.0  | 63.8      | 69.7  |
| December.....  | 71.9                      | ----- | 59.9      | ----- | 69.6                    | ----- | 75.6      | ----- | 86.8   | ----- | 86.0      | ----- | 70.5  | ----- | 66.1      | ----- |
| Average..      | 74.9                      | ----- | 57.9      | ----- | 70.1                    | ----- | 74.5      | ----- | 84.8   | ----- | 81.4      | ----- | 71.2  | ----- | 63.7      | ----- |

| 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 |       |
|                | 1935            | 1936  | 1935      | 1936  | 1935               | 1936  | 1935      | 1936  | 1935                               | 1936  | 1935      | 1936  | 1935  | 1936  | 1935      | 1936  |
| January.....   | 84.2            | 85.6  | 63.9      | 66.6  | 79.5               | 80.4  | 59.7      | 62.1  | 87.3                               | 88.2  | 73.5      | 76.4  | 77.4  | 78.4  | 56.9      | 59.1  |
| February.....  | 84.6            | 85.0  | 64.6      | 66.6  | 79.2               | 79.7  | 59.3      | 61.6  | 86.2                               | 85.1  | 72.3      | 73.9  | 77.3  | 78.3  | 56.6      | 59.1  |
| March.....     | 84.0            | 85.6  | 65.2      | 69.0  | 80.2               | 81.9  | 60.4      | 63.5  | 88.6                               | 90.9  | 74.1      | 77.3  | 78.0  | 79.5  | 57.6      | 60.7  |
| April.....     | 83.2            | 85.7  | 64.8      | 67.9  | 83.5               | 85.2  | 62.5      | 65.3  | 94.4                               | 97.4  | 77.5      | 81.0  | 80.7  | 82.0  | 59.4      | 62.1  |
| May.....       | 82.5            | 84.6  | 64.6      | 68.2  | 82.2               | 85.0  | 62.0      | 65.8  | 91.3                               | 95.5  | 76.3      | 80.8  | 79.8  | 82.3  | 59.0      | 62.7  |
| June.....      | 82.1            | 84.6  | 64.6      | 68.4  | 82.2               | 85.5  | 62.5      | 66.4  | 91.2                               | 96.4  | 76.7      | 81.3  | 79.8  | 82.6  | 59.5      | 63.3  |
| July.....      | 82.1            | 85.4  | 64.6      | 69.0  | 79.3               | 83.2  | 60.5      | 65.1  | 85.5                               | 90.7  | 72.0      | 77.3  | 77.7  | 81.2  | 58.1      | 62.6  |
| August.....    | 82.7            | 86.3  | 64.8      | 69.7  | 78.0               | 82.4  | 59.3      | 64.4  | 83.1                               | 89.4  | 69.5      | 76.4  | 76.7  | 80.5  | 57.2      | 61.9  |
| September..... | 83.7            | 88.0  | 67.2      | 70.6  | 81.8               | 86.6  | 62.5      | 66.6  | 92.2                               | 98.5  | 77.2      | 82.8  | 79.1  | 83.5  | 59.4      | 63.3  |
| October.....   | 85.7            | 89.0  | 66.8      | 71.6  | 83.8               | 88.7  | 63.2      | 68.3  | 97.1                               | 103.9 | 79.8      | 87.2  | 80.3  | 84.7  | 59.8      | 64.4  |
| November.....  | 86.4            | 89.7  | 66.9      | 73.2  | 84.6               | 90.4  | 63.4      | 70.1  | 101.6                              | 110.4 | 82.0      | 91.4  | 80.1  | 85.1  | 59.6      | 65.7  |
| December.....  | 86.8            | ----- | 68.6      | ----- | 92.9               | ----- | 69.3      | ----- | 131.7                              | ----- | 104.5     | ----- | 82.7  | ----- | 62.0      | ----- |
| Average..      | 84.0            | ----- | 65.6      | ----- | 82.3               | ----- | 62.1      | ----- | 94.2                               | ----- | 78.0      | ----- | 79.1  | ----- | 58.8      | ----- |

See footnotes at end of table.

**Table 5.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1935 to November 1936—Continued**

| Month          | Year-round hotels |      |           |      | Laundries  |      |           |      | Dyeing and cleaning |      |           |      |
|----------------|-------------------|------|-----------|------|------------|------|-----------|------|---------------------|------|-----------|------|
|                | Employment        |      | Pay rolls |      | Employment |      | Pay rolls |      | Employment          |      | Pay rolls |      |
|                | 1935              | 1936 | 1935      | 1936 | 1935       | 1936 | 1935      | 1936 | 1935                | 1936 | 1935      | 1936 |
| January.....   | 80.3              | 81.9 | 62.2      | 64.9 | 79.6       | 81.5 | 63.9      | 68.3 | 70.3                | 71.5 | 50.4      | 51.6 |
| February.....  | 81.1              | 82.8 | 63.5      | 66.5 | 79.6       | 81.2 | 64.1      | 67.8 | 69.6                | 70.3 | 49.8      | 49.0 |
| March.....     | 80.8              | 82.8 | 63.9      | 66.0 | 79.7       | 82.1 | 64.6      | 69.9 | 72.5                | 74.7 | 53.5      | 56.4 |
| April.....     | 81.1              | 83.2 | 63.6      | 66.3 | 80.0       | 83.2 | 65.5      | 70.9 | 79.9                | 81.8 | 61.9      | 64.1 |
| May.....       | 81.6              | 84.1 | 63.7      | 67.0 | 81.1       | 85.5 | 66.6      | 75.6 | 80.9                | 87.3 | 61.7      | 72.2 |
| June.....      | 81.3              | 83.9 | 63.5      | 66.6 | 82.3       | 87.2 | 68.2      | 75.8 | 83.6                | 87.5 | 65.7      | 69.2 |
| July.....      | 80.3              | 83.3 | 62.1      | 66.0 | 84.4       | 90.5 | 70.9      | 79.0 | 81.7                | 85.5 | 61.5      | 64.8 |
| August.....    | 80.7              | 83.2 | 62.0      | 66.1 | 84.2       | 89.6 | 69.2      | 76.7 | 79.4                | 83.5 | 58.2      | 63.2 |
| September..... | 81.1              | 84.2 | 63.1      | 67.5 | 83.0       | 89.6 | 67.9      | 76.6 | 82.1                | 86.7 | 63.1      | 66.1 |
| October.....   | 81.6              | 85.4 | 64.3      | 69.6 | 81.9       | 87.6 | 67.1      | 75.3 | 80.4                | 86.5 | 61.1      | 66.7 |
| November.....  | 81.5              | 84.6 | 64.8      | 69.6 | 81.3       | 87.0 | 66.7      | 74.5 | 76.3                | 81.3 | 55.4      | 60.2 |
| December.....  | 80.8              | ---  | 64.2      | ---  | 81.1       | ---  | 67.5      | ---  | 73.4                | ---  | 52.9      | ---  |
| Average.....   | 81.0              | ---  | 63.4      | ---  | 81.5       | ---  | 66.9      | ---  | 77.5                | ---  | 57.9      | ---  |

<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.

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

#### **Trend of Industrial and Business Employment by States**

A COMPARISON of employment and pay rolls, by States and geographic divisions, in October and November 1936, is shown in table 6 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 6.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 1936, by Geographic Divisions and by States**

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

| Geographic division and State  | Total—All groups         |                                  |                                     |   |                                     | Manufacturing            |                                  |                                     |   |                                     |
|--------------------------------|--------------------------|----------------------------------|-------------------------------------|---|-------------------------------------|--------------------------|----------------------------------|-------------------------------------|---|-------------------------------------|
|                                | Number of establishments | Number on pay roll November 1936 | Percentage change from October 1936 | Amount of pay roll (1 week) November 1936 | Percentage change from October 1936 | Number of establishments | Number on pay roll November 1936 | Percentage change from October 1936 | Amount of pay roll (1 week) November 1936 | Percentage change from October 1936 |
|                                |                          |                                  |                                     | <i>Dollars</i>                            |                                     |                          |                                  |                                     | <i>Dollars</i>                            |                                     |
| <b>New England.....</b>        | <b>14,151</b>            | <b>913,668</b>                   | <b>+1.1</b>                         | <b>20,154,192</b>                         | <b>+1.0</b>                         | <b>3,540</b>             | <b>630,768</b>                   | <b>+1.1</b>                         | <b>13,287,615</b>                         | <b>+0.9</b>                         |
| Maine.....                     | 831                      | 56,145                           | -2.8                                | 1,024,552                                 | -7.8                                | 299                      | 44,948                           | -3.0                                | 774,071                                   | -8.8                                |
| New Hampshire.....             | 632                      | 37,105                           | -6                                  | 701,018                                   | -1.8                                | 206                      | 29,816                           | -9                                  | 529,390                                   | -2.8                                |
| Vermont.....                   | 487                      | 18,383                           | +7                                  | 381,167                                   | -1.6                                | 147                      | 11,505                           | +2.2                                | 232,509                                   | -1.3                                |
| Massachusetts.....             | <sup>1</sup> 8,670       | <i>497,090</i>                   | <i>+1.2</i>                         | <i>11,181,909</i>                         | <i>+2.4</i>                         | <i>1,695</i>             | <i>295,583</i>                   | <i>+1.5</i>                         | <i>6,290,653</i>                          | <i>+3.2</i>                         |
| Rhode Island.....              | 1,261                    | 95,657                           | +1.8                                | 1,890,307                                 | -3.8                                | 435                      | 76,472                           | +2.6                                | 1,403,986                                 | -4.3                                |
| Connecticut.....               | 2,270                    | 209,288                          | +2.2                                | 4,975,239                                 | +2.5                                | 758                      | 172,444                          | +1.1                                | 4,057,006                                 | +2.2                                |
| <b>Middle Atlantic.....</b>    | <b>36,435</b>            | <b>2,250,658</b>                 | <b>+3</b>                           | <b>57,413,113</b>                         | <b>-2</b>                           | <b>5,074</b>             | <b>1,204,210</b>                 | <b>-1</b>                           | <b>29,741,831</b>                         | <b>+(<sup>2</sup>)</b>              |
| New York.....                  | 24,136                   | 1,029,452                        | +5                                  | 27,261,578                                | +6                                  | <sup>3</sup> 2,010       | <i>445,376</i>                   | <i>+1.1</i>                         | <i>11,455,554</i>                         | <i>-2</i>                           |
| New Jersey.....                | 4,031                    | 335,330                          | +1.0                                | 8,359,861                                 | +2.0                                | <sup>4</sup> 780         | <i>246,676</i>                   | <i>+1.8</i>                         | <i>5,982,668</i>                          | <i>+2.4</i>                         |
| Pennsylvania.....              | 8,268                    | 885,876                          | -1                                  | 21,791,674                                | -1.9                                | <i>2,284</i>             | <i>512,159</i>                   | <i>-3.8</i>                         | <i>12,324,029</i>                         | <i>-1.0</i>                         |
| <b>East North Central.....</b> | <b>20,377</b>            | <b>2,278,778</b>                 | <b>+2.8</b>                         | <b>60,966,781</b>                         | <b>+5.9</b>                         | <b>7,589</b>             | <b>1,744,072</b>                 | <b>+3.0</b>                         | <b>47,572,076</b>                         | <b>+6.6</b>                         |
| Ohio.....                      | 8,352                    | 642,345                          | +7                                  | 16,965,082                                | +2.9                                | 2,620                    | 477,834                          | +5                                  | 13,018,749                                | +3.2                                |
| Indiana.....                   | <i>2,337</i>             | <i>268,080</i>                   | <i>-1.1</i>                         | <i>6,638,956</i>                          | <i>+1.8</i>                         | <i>909</i>               | <i>221,409</i>                   | <i>-1.1</i>                         | <i>5,692,625</i>                          | <i>+1.9</i>                         |
| Illinois.....                  | <sup>5</sup> 4,904       | <i>608,331</i>                   | <i>+3</i>                           | <i>15,100,503</i>                         | <i>+2.3</i>                         | <i>2,358</i>             | <i>403,891</i>                   | <i>+1.2</i>                         | <i>10,075,128</i>                         | <i>+2.2</i>                         |
| Michigan.....                  | 3,798                    | 586,166                          | +9.9                                | 17,642,681                                | +16.2                               | <i>969</i>               | <i>492,153</i>                   | <i>+10.4</i>                        | <i>15,033,246</i>                         | <i>+17.5</i>                        |
| Wisconsin.....                 | <sup>6</sup> 986         | <i>185,856</i>                   | <i>-4</i>                           | <i>4,619,559</i>                          | <i>+3</i>                           | <sup>7</sup> 733         | <i>148,785</i>                   | <i>+5</i>                           | <i>3,752,328</i>                          | <i>-2.0</i>                         |
| <b>West North Central.....</b> | <b>11,692</b>            | <b>433,095</b>                   | <b>+7</b>                           | <b>9,951,463</b>                          | <b>+2.2</b>                         | <b>2,414</b>             | <b>219,515</b>                   | <b>+9</b>                           | <b>4,985,696</b>                          | <b>+3.4</b>                         |
| Minnesota.....                 | 2,157                    | 92,395                           | +2.0                                | 2,233,985                                 | +2.6                                | 414                      | 43,432                           | +3.3                                | 1,048,654                                 | +5.0                                |
| Iowa.....                      | 1,703                    | 64,390                           | +2.1                                | 1,450,201                                 | +4.9                                | 426                      | 36,870                           | +4.0                                | 841,772                                   | +8.6                                |
| Missouri.....                  | 3,146                    | 172,809                          | -3                                  | 3,928,724                                 | +1.0                                | 911                      | 95,708                           | -1.0                                | 2,053,393                                 | +1                                  |
| North Dakota.....              | 529                      | 5,419                            | -2                                  | 128,000                                   | +3                                  | 44                       | 694                              | -3.1                                | 18,208                                    | -3.2                                |
| South Dakota.....              | 468                      | 6,324                            | -3                                  | 139,183                                   | +4                                  | 38                       | 2,519                            | +2.5                                | 54,698                                    | +2.9                                |
| Nebraska.....                  | 1,563                    | 35,661                           | +4                                  | 825,539                                   | +4.8                                | 161                      | 14,074                           | +8                                  | 340,983                                   | +11.1                               |
| Kansas.....                    | <sup>9</sup> 2,126       | <i>56,097</i>                    | <i>+4</i>                           | <i>1,245,831</i>                          | <i>+1.1</i>                         | <i>480</i>               | <i>26,218</i>                    | <i>-4</i>                           | <i>627,988</i>                            | <i>+1.3</i>                         |
| <b>South Atlantic.....</b>     | <b>11,276</b>            | <b>834,404</b>                   | <b>+1.1</b>                         | <b>16,193,637</b>                         | <b>+1.7</b>                         | <b>2,765</b>             | <b>550,816</b>                   | <b>+7</b>                           | <b>9,733,556</b>                          | <b>+1.7</b>                         |
| Delaware.....                  | 207                      | 15,455                           | +2                                  | 365,348                                   | +2.0                                | 86                       | 11,329                           | -1.3                                | 266,008                                   | +1.2                                |
| Maryland.....                  | <i>1,543</i>             | <i>125,559</i>                   | <i>-1</i>                           | <i>2,781,195</i>                          | <i>-1.0</i>                         | <i>529</i>               | <i>81,442</i>                    | <i>-7</i>                           | <i>1,804,208</i>                          | <i>-1</i>                           |
| District of Columbia.....      | 1,096                    | 42,552                           | +1.1                                | 1,063,865                                 | +1.7                                | 45                       | 4,105                            | +2.6                                | 137,816                                   | +3.2                                |
| Virginia.....                  | 2,254                    | 109,237                          | +1.0                                | 2,091,296                                 | +3.0                                | 466                      | 73,346                           | +9                                  | 1,360,414                                 | +3.6                                |
| West Virginia.....             | 1,253                    | 151,618                          | -( <sup>2</sup> )                   | 3,811,816                                 | +1.6                                | 255                      | 59,675                           | -1.3                                | 1,487,434                                 | +3.8                                |
| North Carolina.....            | 1,468                    | 159,932                          | +1.2                                | 2,414,734                                 | +1.6                                | 589                      | 146,255                          | +1.0                                | 2,168,601                                 | +1.4                                |
| South Carolina.....            | 802                      | 72,296                           | +1.2                                | 1,021,830                                 | +2.0                                | 231                      | 64,649                           | +1.4                                | 879,440                                   | +2.3                                |
| Georgia.....                   | 1,532                    | 114,867                          | +1.1                                | 1,845,283                                 | +2.0                                | 368                      | 88,604                           | +1.4                                | 1,284,363                                 | +2.6                                |
| Florida.....                   | 1,121                    | 44,888                           | +9.1                                | 798,270                                   | +7.9                                | 199                      | 21,411                           | +5.2                                | 345,272                                   | +2.2                                |
| <b>East South Central.....</b> | <b>4,523</b>             | <b>291,900</b>                   | <b>+7</b>                           | <b>5,387,753</b>                          | <b>+1.8</b>                         | <b>1,026</b>             | <b>183,666</b>                   | <b>+6</b>                           | <b>3,199,706</b>                          | <b>+1.6</b>                         |
| Kentucky.....                  | 1,350                    | 87,956                           | +4                                  | 1,861,962                                 | +2.2                                | 314                      | 39,596                           | +1                                  | 801,107                                   | +2.9                                |
| Tennessee.....                 | 1,361                    | 101,363                          | +8                                  | 1,802,648                                 | +8                                  | 386                      | 75,335                           | +1.0                                | 1,302,079                                 | +7                                  |
| Alabama.....                   | 1,269                    | 87,585                           | +1.3                                | 1,470,884                                 | +2.8                                | 243                      | 60,634                           | +9                                  | 973,698                                   | +2.3                                |
| Mississippi.....               | 543                      | 14,976                           | -1.1                                | 252,259                                   | -9                                  | 83                       | 8,101                            | -2.8                                | 122,822                                   | -3.2                                |
| <b>West South Central.....</b> | <b>4,574</b>             | <b>197,635</b>                   | <b>+1.2</b>                         | <b>4,180,581</b>                          | <b>+2.2</b>                         | <b>1,059</b>             | <b>94,782</b>                    | <b>+9</b>                           | <b>1,892,163</b>                          | <b>+3.4</b>                         |
| Arkansas.....                  | <sup>10</sup> 503        | <i>24,999</i>                    | <i>+8</i>                           | <i>420,409</i>                            | <i>+(<sup>2</sup>)</i>              | <i>188</i>               | <i>17,439</i>                    | <i>-4</i>                           | <i>275,420</i>                            | <i>+8</i>                           |
| Louisiana.....                 | 1,021                    | 46,266                           | +8                                  | 881,729                                   | +2.8                                | 240                      | 23,930                           | +7                                  | 396,578                                   | +3.1                                |
| Oklahoma.....                  | 1,382                    | 39,497                           | +4                                  | 905,808                                   | +1.4                                | 139                      | 11,713                           | +6                                  | 260,868                                   | +2.0                                |
| Texas.....                     | <sup>11</sup> 1,668      | <i>86,963</i>                    | <i>+1.8</i>                         | <i>1,972,635</i>                          | <i>+2.9</i>                         | <i>492</i>               | <i>41,700</i>                    | <i>+1.6</i>                         | <i>959,297</i>                            | <i>+4.7</i>                         |
| <b>Mountain.....</b>           | <b>4,443</b>             | <b>139,024</b>                   | <b>-3.3</b>                         | <b>3,554,562</b>                          | <b>+1.9</b>                         | <b>601</b>               | <b>45,921</b>                    | <b>-8.4</b>                         | <b>1,114,442</b>                          | <b>+1.5</b>                         |
| Montana.....                   | 699                      | 21,311                           | -5                                  | 620,383                                   | -4                                  | 87                       | 5,910                            | -3.7                                | 157,042                                   | -4.8                                |
| Idaho.....                     | 477                      | 12,227                           | -6.3                                | 291,755                                   | -2.5                                | 58                       | 4,845                            | -11.7                               | 108,513                                   | -12.1                               |
| Wyoming.....                   | 329                      | 9,703                            | -5                                  | 286,034                                   | +2.9                                | 37                       | 2,252                            | -3.4                                | 63,283                                    | +1                                  |
| Colorado.....                  | 1,256                    | 47,874                           | -3.1                                | 1,184,171                                 | +4.5                                | 199                      | 19,491                           | -5.9                                | 478,893                                   | +9.5                                |
| New Mexico.....                | 325                      | 6,542                            | +1.9                                | 141,429                                   | +1.9                                | 32                       | 799                              | +10.5                               | 13,269                                    | -8.4                                |
| Arizona.....                   | 515                      | 16,245                           | +3.5                                | 417,157                                   | +5.8                                | 46                       | 3,165                            | +2                                  | 73,949                                    | +2.1                                |
| Utah.....                      | 625                      | 21,971                           | -12.0                               | 525,503                                   | -2.2                                | 113                      | 8,437                            | -20.1                               | 189,169                                   | -1.8                                |
| Nevada.....                    | 217                      | 3,151                            | +1.4                                | 88,130                                    | +2.4                                | 29                       | 1,022                            | +1.6                                | 30,324                                    | +3.8                                |

See footnotes at end of table.

**Table 6.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 1936, by Geographic Divisions and by States—Con.**

| Geographic division and State | Total—All groups         |                                  |                                     |   |                                     | Manufacturing            |                                  |                                     |   |                                     |
|-------------------------------|--------------------------|----------------------------------|-------------------------------------|---|-------------------------------------|--------------------------|----------------------------------|-------------------------------------|---|-------------------------------------|
|                               | Number of establishments | Number on pay roll November 1936 | Percentage change from October 1936 | Amount of pay roll (1 week) November 1936 | Percentage change from October 1936 | Number of establishments | Number on pay roll November 1936 | Percentage change from October 1936 | Amount of pay roll (1 week) November 1936 | Percentage change from October 1936 |
| <b>Pacific</b> .....          | <b>9, 033</b>            | <b>426, 398</b>                  | <b>-5.7</b>                         | <i>Dollars</i><br><b>11, 363, 956</b>     | <b>-4.7</b>                         | <b>2, 351</b>            | <b>236, 021</b>                  | <b>-9.5</b>                         | <i>Dollars</i><br><b>6, 262, 725</b>      | <b>-8.8</b>                         |
| Washington.....               | 3, 085                   | 96, 626                          | -7.1                                | 2, 399, 805                               | -8.0                                | 571                      | 52, 592                          | -11.1                               | 1, 248, 062                               | -13.6                               |
| Oregon.....                   | 1, 365                   | 49, 885                          | -8.9                                | 1, 218, 504                               | -9.9                                | 288                      | 27, 197                          | -14.3                               | 617, 841                                  | -17.6                               |
| California..... <sup>12</sup> | <b>4, 588</b>            | <b>279, 887</b>                  | <b>-4.7</b>                         | <b>7, 750, 647</b>                        | <b>-2.8</b>                         | <b>1, 492</b>            | <b>156, 232</b>                  | <b>-8.0</b>                         | <b>4, 396, 822</b>                        | <b>-6.0</b>                         |

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

<sup>3</sup> Includes laundering and cleaning, water, light, and power.

<sup>4</sup> Includes laundries.

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

<sup>6</sup> Includes construction, but not hotels, restaurants, or public works.

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

<sup>8</sup> Weighted percentage change.

<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 November employment and pay rolls with the October totals in 13 cities of the United States having a population of 500,000 or over is made in table 7. 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 7.—Comparison of Employment and Pay Rolls in Identical Establishments in October and November 1936, by Principal Cities**

| City                             | Number of establishments | Number on pay roll November 1936 | Percentage change from October 1936 | Amount of pay roll (1 week) November 1936 | Percentage change from October 1936 |
|----------------------------------|--------------------------|----------------------------------|-------------------------------------|---|-------------------------------------|
| New York, N. Y.....              | 16, 986                  | 636, 425                         | +0.9                                | \$15, 959, 528                            | +1.1                                |
| Chicago, Ill.....                | 4, 729                   | 474, 413                         | +1.6                                | 12, 574, 376                              | +2.7                                |
| Philadelphia, Pa.....            | 2, 593                   | 243, 687                         | + .8                                | 6, 251, 476                               | + .1                                |
| Detroit, Mich.....               | 1, 629                   | 383, 303                         | +11.6                               | 12, 213, 422                              | +17.9                               |
| Los Angeles, Calif.....          | 2, 702                   | 149, 359                         | -2.5                                | 4, 105, 840                               | +1.6                                |
| Cleveland, Ohio.....             | 1, 805                   | 145, 262                         | +1.4                                | 3, 905, 604                               | +2.9                                |
| St. Louis, Mo.....               | 1, 598                   | 133, 110                         | -( <sup>1</sup> )                   | 3, 131, 935                               | +1.8                                |
| Baltimore, Md.....               | 1, 243                   | 95, 389                          | - .2                                | 2, 232, 463                               | +2.5                                |
| Boston, Mass. <sup>2</sup> ..... | 1, 579                   | 109, 235                         | + .1                                | 2, 772, 502                               | + .9                                |
| Pittsburgh, Pa.....              | 1, 442                   | 213, 198                         | + .6                                | 5, 715, 022                               | + .4                                |
| San Francisco, Calif.....        | 1, 658                   | 87, 496                          | -7.1                                | 2, 413, 801                               | -7.1                                |
| Buffalo, N. Y.....               | 1, 042                   | 78, 335                          | +2.1                                | 2, 037, 747                               | +1.5                                |
| Milwaukee, Wis.....              | 696                      | 79, 324                          | +1.0                                | 2, 044, 598                               | +2.6                                |

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

<sup>2</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 Acts of 1935 and 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.

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 are for the calendar month. All statistics on National Youth Administration projects are for the calendar month.

### Executive Service of the Federal Government

STATISTICS of employment in the executive service of the Federal Government in November 1935, and October and November 1936, are given in table 8.

**Table 8.—Employees in the Executive Service of the United States Government, November 1935, October and November 1936 <sup>1</sup>**

[Subject to revision]

| Item                                     | District of Columbia <sup>2</sup> |                |         | Outside District of Columbia |                             |         | Entire service <sup>2</sup> |                             |         |
|--|-----------------------------------|----------------|---------|------------------------------|-----------------------------|---------|-----------------------------|-----------------------------|---------|
|  | Perma-<br>nent                    | Tempo-<br>rary | Total   | Perma-<br>nent               | Tempo-<br>rary <sup>3</sup> | Total   | Perma-<br>nent              | Tempo-<br>rary <sup>3</sup> | Total   |
| Employment:                              |                                   |                |         |                              |                             |         |                             |                             |         |
| Number of employees:                     |                                   |                |         |                              |                             |         |                             |                             |         |
| November 1936.....                       | 107,777                           | 7,408          | 115,185 | 621,364                      | 102,897                     | 724,261 | 729,141                     | 110,305                     | 839,446 |
| October 1936.....                        | 107,638                           | 7,156          | 114,794 | 620,163                      | 106,344                     | 726,507 | 727,801                     | 113,500                     | 841,301 |
| November 1935.....                       | 103,111                           | 8,088          | 111,199 | 589,394                      | 100,808                     | 690,202 | 692,505                     | 108,896                     | 801,401 |
| Percentage change:                       |                                   |                |         |                              |                             |         |                             |                             |         |
| October 1936 to Novem-<br>ber 1936.....  | +0.13                             | +3.52          | +0.34   | +0.19                        | -3.24                       | -0.31   | +0.18                       | -2.81                       | -0.22   |
| November 1935 to Novem-<br>ber 1936..... | +4.53                             | -8.41          | +3.58   | +5.42                        | +2.07                       | +4.93   | +5.29                       | +1.29                       | +4.75   |
| Labor turn-over, November<br>1936:       |                                   |                |         |                              |                             |         |                             |                             |         |
| Number of:                               |                                   |                |         |                              |                             |         |                             |                             |         |
| Separations <sup>4</sup> .....           | 870                               | 728            | 1,598   | 7,724                        | 15,337                      | 23,061  | 8,594                       | 16,065                      | 24,659  |
| Accessions <sup>5</sup> .....            | 1,065                             | 1,089          | 2,154   | 8,362                        | 12,651                      | 21,013  | 9,427                       | 13,740                      | 23,167  |
| Turn-over rate per 100:                  |                                   |                |         |                              |                             |         |                             |                             |         |
| Separation rate.....                     | .81                               | 10.00          | 1.39    | 1.24                         | 14.66                       | 3.18    | 1.18                        | 14.36                       | 2.93    |
| Accession rate.....                      | .99                               | 14.95          | 1.87    | 1.35                         | 12.09                       | 2.90    | 1.29                        | 12.28                       | 2.76    |

<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 21,876 employees hired under letters of authorization by the Department of Agriculture with a pay roll of \$1,213,210.

<sup>4</sup> Includes 363 employees by transfer previously reported as separations, not actual additions for November.

<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 November 1935 to November 1936, inclusive, is shown in table 9.

**Table 9.—Employment in the Executive Service of the United States Government, by Months, November 1935 to November 1936 <sup>1</sup>**

[Subject to revision]

| Month         | District<br>of<br>Columbia | Outside<br>District<br>of<br>Columbia | Total   | Month          | District<br>of<br>Columbia | Outside<br>District<br>of<br>Columbia | Total   |
|---------------|----------------------------|---------------------------------------|---------|----------------|----------------------------|---------------------------------------|---------|
| 1935          |                            |                                       |         | 1936—Continued |                            |                                       |         |
| November..... | 111,199                    | 690,202                               | 801,401 | May.....       | 117,229                    | 700,999                               | 818,228 |
| December..... | 112,091                    | 704,155                               | 816,226 | June.....      | 117,470                    | 707,156                               | 824,626 |
| 1936          |                            |                                       |         | July.....      | 116,261                    | 714,600                               | 830,861 |
| January.....  | 111,800                    | 689,499                               | 801,299 | August.....    | 115,807                    | 718,697                               | 834,504 |
| February..... | 112,708                    | 687,626                               | 800,334 | September..... | 115,061                    | 721,093                               | 836,154 |
| March.....    | 112,739                    | 693,665                               | 806,404 | October.....   | 114,794                    | 726,507                               | 841,301 |
| April.....    | 115,422                    | 695,315                               | 810,767 | November.....  | 115,185                    | 724,261                               | 839,446 |

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

### Construction Projects Financed by Public Works Administration

DETAILS concerning employment, pay rolls, and man-hours worked during November on construction projects financed by Public Works Administration funds are given in table 10, by type of project.



**Table 10.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, November 1936 <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 <sup>1</sup> .....  | 4 72, 219                            | 65, 925          | \$6, 607, 488                  | 8, 373, 318                             | \$0. 789                  | \$6, 045, 617                                |
| Building construction <sup>3</sup> .....                                   | 23, 040                              | 19, 647          | 2, 211, 584                    | 2, 423, 138                             | .913                      | 2, 969, 568                                  |
| Naval vessels.....   | 15, 579                              | 14, 744          | 1, 764, 549                    | 2, 170, 721                             | .813                      | 589, 134                                     |
| Public roads <sup>4</sup> .....  | ( <sup>6</sup> )                     | 14, 615          | 704, 349                       | 1, 323, 500                             | .532                      | 970, 000                                     |
| Reclamation.....   | 1, 952                               | 1, 749           | 209, 757                       | 279, 740                                | .750                      | 194, 311                                     |
| River, harbor, and flood control.....                                      | 14, 548                              | 12, 937          | 1, 570, 618                    | 1, 894, 318                             | .829                      | 1, 204, 104                                  |
| Streets and roads.....   | 1, 485                               | 1, 344           | 71, 212                        | 157, 605                                | .452                      | 79, 364                                      |
| Water and sewerage.....  | 392                                  | 327              | 20, 854                        | 40, 526                                 | .515                      | 13, 608                                      |
| Miscellaneous.....   | 608                                  | 562              | 54, 565                        | 83, 770                                 | .651                      | 25, 528                                      |
| Non-Federal projects financed from N. I. R. A. funds                       |                                      |                  |                                |   |                           |  |
| All projects.....  | 42, 797                              | 35, 903          | \$3, 395, 535                  | 3, 833, 531                             | \$0. 886                  | \$6, 907, 482                                |
| Building construction.....   | 20, 528                              | 17, 121          | 1, 595, 572                    | 1, 675, 667                             | .952                      | 3, 297, 633                                  |
| Streets and roads.....   | 4, 005                               | 3, 382           | 271, 552                       | 320, 815                                | .846                      | 511, 499                                     |
| Water and sewerage.....  | 14, 807                              | 12, 674          | 1, 325, 999                    | 1, 498, 659                             | .885                      | 2, 425, 694                                  |
| Miscellaneous.....   | 3, 457                               | 2, 726           | 202, 412                       | 338, 390                                | .598                      | 672, 656                                     |
| Non-Federal "transportation loan" projects financed from N. I. R. A. funds |                                      |                  |                                |   |                           |  |
| All projects.....  | 2, 110                               | ( <sup>7</sup> ) | \$134, 582                     | 207, 237                                | \$0. 649                  | ( <sup>7</sup> )                             |
| Railroad construction.....   | 292                                  | 233              | 13, 176                        | 25, 214                                 | .523                      | 98   |
| Railroad car and locomotive shops.....                                     | 1, 818                               | ( <sup>7</sup> ) | 121, 406                       | 182, 023                                | .667                      | ( <sup>7</sup> )                             |
| Operated by railroads.....   | 1, 656                               | 1, 484           | 109, 103                       | 160, 305                                | .681                      | 14, 731                                      |
| Operated by commercial firms.....  | 162                                  | ( <sup>7</sup> ) | 12, 303                        | 21, 718                                 | .566                      | ( <sup>7</sup> )                             |
| Non-Federal projects financed from E. R. A. A. 1935 funds <sup>8</sup>     |                                      |                  |                                |   |                           |  |
| All projects.....  | 152, 041                             | 126, 940         | \$10, 716, 875                 | 13, 640, 080                            | \$0. 786                  | \$20, 994, 687                               |
| Building construction.....   | 91, 757                              | 75, 888          | 6, 684, 740                    | 7, 734, 309                             | .864                      | 11, 419, 260                                 |
| Electrification.....   | 582                                  | 492              | 34, 833                        | 49, 290                                 | .707                      | 534, 919                                     |
| Heavy engineering.....   | 2, 368                               | 2, 055           | 206, 444                       | 249, 453                                | .828                      | 1, 429, 364                                  |
| Reclamation.....   | 2, 700                               | 2, 461           | 239, 651                       | 336, 412                                | .712                      | 264, 300                                     |
| River, harbor, and flood control.....                                      | 1, 366                               | 1, 119           | 96, 932                        | 147, 521                                | .657                      | 245, 259                                     |
| Streets and roads.....   | 18, 761                              | 15, 153          | 876, 282                       | 1, 672, 255                             | .524                      | 2, 351, 675                                  |
| Water and sewerage.....  | 33, 512                              | 28, 967          | 2, 500, 841                    | 3, 364, 073                             | .743                      | 4, 632, 224                                  |
| Miscellaneous.....   | 995                                  | 805              | 77, 152                        | 86, 767                                 | .889                      | 117, 686                                     |

<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 a maximum of 14,137 and an average of 12,365 employees working on low-cost housing projects financed from E. R. A. A. funds, who were paid \$1,418,943 for 1,588,051 man-hours of labor. Material orders in the amount of \$1,848,265 were placed for these projects. These data are also included in separate tables covering projects financed from The Works Program.

<sup>4</sup> Includes weekly average for public roads.

<sup>5</sup> Estimated by the Bureau of Public Roads.

<sup>6</sup> Not available; average included in total.

<sup>7</sup> Data not available.

<sup>8</sup> These data are also included in separate tables covering projects financed by 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 or the Emergency Relief Appropriation Act of 1935. Most of the allotments have been made to the States and their political subdivisions, but occasionally allotments have been made to commercial firms. In financing projects for the States or their political subdivisions from funds appropriated under the National Industrial Recovery Act, the Public Works Administration makes a direct grant of not more than 30 percent of the total labor and material cost. When funds provided under the Emergency Relief Appropriation Act of 1935 are used to finance a non-Federal project, as much as 45 percent of the total cost may be furnished in the form of a grant. The remaining 55 percent or more of the cost is financed by the recipient. When circumstances justify such action, the Public Works Administration may provide the grantee with the additional funds by means of a loan. Allotments to commercial enterprises are made only as loans. All loans made by the Public Works Administration carry interest charges and have a definite date of maturity. Collateral posted with the Public Works Administration to secure loans may be offered for sale to the public. In this way a revolving fund is provided which enlarges the scope of the activities of the Public Works Administration.

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

#### *Monthly Trend*

A summary of employment, pay rolls, and man-hours worked on projects financed from Public Works Administration funds from July 1933 to November 1936 is given in table 11.

**Table 11.—Employment and Pay Rolls, July 1933 to November 1936, 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 November 1936, inclusive <sup>3 4</sup> | -----                                       | \$835, 767, 164                | 1, 270, 615, 380                        | \$0. 658                  | \$1, 494, 991, 242                           |
| July to December 1933, inclusive <sup>4</sup>        | -----                                       | 33, 066, 928                   | 61, 921, 959                            | . 534                     | 75, 482, 079                                 |
| 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 4</sup>   | -----                                       | 270, 195, 762                  | 391, 579, 803                           | . 690                     | <sup>5</sup> 439, 152, 426                   |
| 1936   |   |                                |   |                           |  |
| January <sup>3</sup>                                 | 197, 820                                    | 14, 399, 381                   | 19, 195, 535                            | . 750                     | 22, 796, 818                                 |
| February <sup>3</sup>                                | 176, 764                                    | 12, 220, 479                   | 16, 404, 771                            | . 745                     | 23, 460, 743                                 |
| March <sup>3</sup>                                   | 202, 236                                    | 13, 981, 176                   | 18, 519, 649                            | . 755                     | 29, 068, 402                                 |
| April <sup>3</sup>                                   | 264, 427                                    | 18, 915, 663                   | 25, 203, 010                            | . 751                     | 32, 459, 393                                 |
| May <sup>3</sup>                                     | 315, 393                                    | 22, 590, 878                   | 30, 377, 869                            | . 744                     | <sup>6</sup> 39, 778, 571                    |
| June <sup>3</sup>                                    | 349, 572                                    | 25, 840, 926                   | 34, 418, 037                            | . 751                     | 37, 803, 419                                 |
| July <sup>3 4</sup>                                  | 336, 047                                    | 24, 841, 359                   | 32, 749, 131                            | . 759                     | 40, 589, 226                                 |
| August <sup>3 4</sup>                                | 330, 784                                    | 24, 676, 121                   | 32, 235, 040                            | . 766                     | 38, 088, 931                                 |
| September <sup>3 4</sup>                             | 311, 361                                    | 23, 582, 444                   | 30, 254, 704                            | . 779                     | 38, 152, 624                                 |
| October <sup>3 4</sup>                               | 284, 903                                    | 22, 290, 424                   | 28, 140, 040                            | . 792                     | 34, 144, 905                                 |
| November <sup>3</sup>                                | 269, 167                                    | 20, 854, 480                   | 26, 054, 166                            | . 800                     | 33, 962, 615                                 |

<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 non-Federal projects and low-cost housing projects financed from E. R. A. A. 1935 funds. These data are also included in separate tables covering projects financed by The Works Program.<sup>4</sup> Revised.<sup>5</sup> Includes orders placed by railroads for new equipment.<sup>6</sup> Revised—Data for Tennessee Valley Authority projects transferred to tables showing data for projects financed from regular governmental appropriations.**The Works Program**

A DETAILED record of employment, pay rolls, and man-hours worked on projects financed by The Works Program in November is shown in table 12, by type of project.

**Table 12.—Employment and Pay Rolls on Projects Financed by The Works Program, November 1936 <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-----                             | 404, 671                             | 360, 691       | \$20, 074, 062                 | 42, 946, 903                            | \$0. 467                  | \$10, 511, 624                               |
| Building construction-----                    | 45, 608                              | 42, 770        | 2, 785, 104                    | 4, 524, 391                             | . 616                     | 1, 391, 785                                  |
| Electrification-----                          | 2, 079                               | 1, 743         | 103, 508                       | 207, 160                                | . 500                     | 101, 906                                     |
| Forestry-----                                 | 29, 023                              | 26, 375        | 1, 299, 505                    | 2, 920, 246                             | . 445                     | 484, 859                                     |
| Grade-crossing elimination-----               | 39, 148                              | 31, 798        | 2, 409, 147                    | 3, 926, 650                             | . 614                     | 3, 081, 341                                  |
| Heavy engineering-----                        | 174                                  | 168            | 11, 283                        | 13, 673                                 | . 825                     | 7, 324                                       |
| Hydroelectric power plants <sup>3</sup> ----- | 4, 296                               | 3, 084         | 37, 018                        | 151, 374                                | . 245                     | 4, 149                                       |
| Plant, crop, and livestock conservation-----  | 40, 170                              | 36, 963        | 1, 295, 327                    | 4, 990, 322                             | . 260                     | 38, 646                                      |
| Professional, technical, and clerical-----    | 18, 023                              | 17, 964        | 1, 426, 656                    | 2, 257, 005                             | . 632                     | 163, 600                                     |
| Public roads-----                             | 80, 672                              | 64, 770        | 3, 748, 589                    | 7, 954, 651                             | . 471                     | 2, 610, 070                                  |
| Reclamation-----                              | 77, 325                              | 74, 196        | 3, 925, 239                    | 8, 699, 977                             | . 451                     | 1, 203, 901                                  |
| River, harbor, and flood control-----         | 21, 404                              | 17, 716        | 1, 756, 213                    | 2, 539, 678                             | . 692                     | 962, 628                                     |
| Streets and roads-----                        | 4, 022                               | 3, 710         | 169, 404                       | 425, 981                                | . 398                     | 87, 529                                      |
| Water and sewerage-----                       | 811                                  | 673            | 43, 088                        | 75, 577                                 | . 570                     | 21, 320                                      |
| Miscellaneous-----                            | 41, 916                              | 38, 761        | 1, 063, 981                    | 4, 260, 218                             | . 250                     | 352, 566                                     |

See footnotes at end of table.

**Table 12.—Employment and Pay Rolls on Projects Financed by The Works Program, November 1936—Continued**

[Subject to revision]

| Type of project   | Wage earners            |                | Monthly pay-roll disbursements | Number of man-hours worked during month | Average earnings per hour | Value of material orders placed during month |
|---|-------------------------|----------------|--------------------------------|---|---------------------------|--|
|   | Maximum number employed | Weekly average |                                |   |                           |  |
| P. W. A. projects financed from E. R. A. A.—1935 funds <sup>1</sup> |                         |                |                                |   |                           |  |
| All projects.....   | 166, 178                | 139, 305       | \$12, 135, 818                 | 15, 228, 131                            | \$0. 797                  | \$22, 842, 952                               |
| Building construction.....  | 105, 894                | 88, 253        | 8, 103, 683                    | 9, 322, 360                             | .869                      | 13, 267, 525                                 |
| Electrification.....  | 2, 582                  | 492            | 34, 833                        | 49, 290                                 | .707                      | 534, 919                                     |
| Heavy engineering.....  | 2, 368                  | 2, 055         | 206, 444                       | 249, 453                                | .828                      | 1, 429, 364                                  |
| Reclamation.....  | 2, 700                  | 2, 461         | 239, 651                       | 336, 412                                | .712                      | 264, 300                                     |
| River, harbor, and flood control.....                               | 1, 366                  | 1, 119         | 96, 932                        | 147, 521                                | .657                      | 245, 259                                     |
| Streets and roads.....  | 18, 761                 | 15, 153        | 876, 282                       | 1, 672, 255                             | .524                      | 2, 351, 675                                  |
| Water and sewerage.....   | 33, 512                 | 28, 967        | 2, 500, 841                    | 3, 364, 073                             | .743                      | 4, 632, 224                                  |
| Miscellaneous.....  | 995                     | 805            | 77, 152                        | 86, 767                                 | .889                      | 117, 686                                     |
| Projects operated by W. P. A.                                       |                         |                |                                |   |                           |  |
| All projects <sup>2</sup> .....                                     | 2, 726, 361             | -----          | \$138, 543, 440                | 278, 586, 423                           | \$0. 497                  | <sup>6</sup> \$40,630,391                    |
| Conservation.....   | 135, 395                | -----          | 6, 266, 935                    | 13, 479, 658                            | .465                      | 809, 022                                     |
| Highway, road, and street.....                                      | 1, 045, 970             | -----          | 48, 375, 095                   | 108, 491, 058                           | .446                      | 9, 013, 664                                  |
| Housing.....  | 5, 412                  | -----          | 368, 157                       | 587, 400                                | .627                      | 17, 813                                      |
| National Youth Administration <sup>3</sup> .....                    | 162, 246                | -----          | 2, 766, 120                    | 7, 462, 494                             | .371                      | 98, 844                                      |
| Professional, technical, and clerical.....                          | 248, 524                | -----          | 18, 871, 916                   | 28, 025, 829                            | .673                      | 703, 669                                     |
| Public building.....  | 217, 736                | -----          | 13, 322, 744                   | 21, 264, 940                            | .627                      | 4, 908, 050                                  |
| Publicly owned or operated utilities.....                           | 194, 658                | -----          | 10, 444, 539                   | 19, 967, 807                            | .523                      | 3, 162, 830                                  |
| Recreational facilities <sup>4</sup> .....                          | 221, 155                | -----          | 13, 339, 948                   | 22, 957, 334                            | .581                      | 2, 767, 295                                  |
| Sanitation and health.....  | 65, 224                 | -----          | 3, 109, 350                    | 7, 167, 266                             | .434                      | 650, 254                                     |
| Sewing, canning, gardening, etc.....                                | 295, 617                | -----          | 14, 025, 646                   | 34, 297, 357                            | .409                      | 446, 552                                     |
| Transportation.....   | 58, 435                 | -----          | 3, 249, 031                    | 6, 159, 004                             | .528                      | 1, 115, 280                                  |
| Not elsewhere classified.....                                       | 74, 599                 | -----          | 4, 329, 030                    | 8, 511, 986                             | .509                      | 545, 082                                     |

<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 152,041 employees working on non-Federal projects and 14,137 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> Includes data for 1,390 workers in Hawaii who were paid \$74,929 for 214,290 man-hours of work for which a distribution by type of project is not available.<sup>6</sup> The value of material orders placed, excluding those for National Youth Administration projects, and the cost of rentals and services, is for the month ending Nov. 30, 1936. Includes \$16,392,036 cost of rentals and services, for month ending Oct. 31, 1936, for which a distribution by type of project is not available.<sup>7</sup> These data are for the month ending Oct. 31, 1936, and exclude student-aid projects.<sup>8</sup> Exclusive of buildings.

### Monthly Trend

EMPLOYMENT, pay rolls, and man-hours worked on projects financed by The Works Program from the beginning of the program in July 1935 to November 1936 are given in table 13.

**Table 13.—Employment and Pay Rolls, July 1935 to November 1936, 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 |
|--|--------------------------------------|--------------------------------|---|---------------------------|--|
| <b>Federal projects</b>  |                                      |                                |   |                           |  |
| July 1935 to November 1936, inclusive.....                                 |                                      | \$243, 413, 553                | 538, 915, 508                           | \$0. 452                  | \$166, 737, 143                              |
| July to December 1935.....   |                                      | <sup>3</sup> 36, 951, 974      | <sup>3</sup> 80, 745, 958               | <sup>3</sup> .458         | <sup>3</sup> 34, 763, 337                    |
| 1936   |                                      |                                |   |                           |  |
| 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, 003, 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                                 |
| <b>P. W. A. projects financed from E. R. A. A. 1936 funds <sup>4</sup></b> |                                      |                                |   |                           |  |
| September 1935 to November 1936, inclusive.....                            |                                      | \$96, 180, 439                 | 129, 527, 237                           | \$0. 743                  | \$195, 007, 423                              |
| September to December 1935.....  |                                      | <sup>3</sup> 883, 741          | <sup>3</sup> 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                                 |
| <b>Projects operated by W. P. A.</b>                                       |                                      |                                |   |                           |  |
| August 1935 to November 1936, inclusive.....                               |                                      | \$1, 631, 330, 070             | 3, 573, 230, 903                        | \$0. 457                  | <sup>5</sup> 483, 749, 122                   |
| August to December 1935.....   |                                      | 170, 911, 331                  | 367, 589, 041                           | .465                      | 46, 042, 303                                 |
| 1936   |                                      |                                |   |                           |  |
| January.....   | 2, 812, 391                          | 128, 383, 000                  | 314, 664, 210                           | .408                      | 19, 860, 772                                 |
| February.....  | 2, 950, 481                          | 137, 182, 000                  | 332, 966, 010                           | .412                      | 17, 896, 597                                 |
| March.....   | 3, 095, 261                          | 144, 471, 000                  | 341, 539, 000                           | .423                      | 17, 592, 687                                 |
| April.....   | 2, 875, 299                          | 144, 988, 000                  | 333, 305, 740                           | .435                      | 19, 586, 594                                 |
| May.....   | 2, 579, 937                          | 132, 820, 000                  | 297, 136, 460                           | .447                      | 22, 060, 924                                 |
| June.....  | 2, 395, 423                          | 126, 253, 000                  | 275, 661, 570                           | .458                      | 22, 674, 265                                 |
| July.....  | 2, 412, 462                          | 122, 774, 427                  | 265, 669, 182                           | .462                      | 21, 177, 078                                 |
| August.....  | 2, 462, 590                          | 124, 731, 158                  | 247, 539, 090                           | .504                      | 24, 454, 315                                 |
| September.....   | 2, 560, 701                          | 127, 380, 456                  | 253, 720, 345                           | .502                      | 23, 553, 327                                 |
| October.....   | 2, 637, 742                          | 132, 892, 258                  | 264, 853, 832                           | .502                      | 47, 572, 532                                 |
| November.....  | 2, 726, 361                          | 138, 543, 440                  | 278, 586, 423                           | .497                      | 40, 630, 391                                 |

<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> Revised.

<sup>4</sup> These data are included in tables covering projects under the jurisdiction of the Public Works Administration. The data for November include 152,041 employees working on non-Federal projects and 14,137 employees working on low-cost housing projects.

<sup>5</sup> Includes expenditures of \$160,647,337 for rentals and services from the beginning of program through Sept. 30, 1936, for which monthly data are not available.

## Emergency Conservation Work

STATISTICS concerning employment and pay rolls in emergency conservation work in October and November 1936 are presented in table 14.

**Table 14.—Employment and Pay Rolls in Emergency Conservation Work  
October and November 1936 <sup>1</sup>**

[Subject to revision]

| Group  | Number of employees  |                      | Amount of pay rolls      |                          |
|--|----------------------|----------------------|--------------------------|--------------------------|
|  | November             | October              | November                 | October                  |
| All groups.....                              | 391, 296             | 404, 826             | \$18, 604, 821           | \$17, 662, 545           |
| Enrolled personnel <sup>2</sup> .....        | 341, 097             | 354, 083             | 10, 620, 628             | 10, 031, 019             |
| Reserve officers.....                        | 8, 159               | 8, 297               | 2, 063, 459              | 2, 038, 922              |
| Educational advisers <sup>3</sup> .....      | 2, 174               | 2, 157               | 372, 430                 | 369, 733                 |
| Supervisory and technical <sup>4</sup> ..... | <sup>5</sup> 39, 866 | <sup>6</sup> 40, 289 | <sup>5</sup> 5, 548, 304 | <sup>6</sup> 5, 222, 871 |

<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> November data include 2,819 enrollees and pay roll of \$56,206 outside continental United States; October, 2,725 enrollees and pay roll of \$58,105.

<sup>3</sup> Included in executive service, tables 8 and 9.

<sup>4</sup> Includes carpenters, electricians, and laborers.

<sup>5</sup> 38,174 employees and pay roll of \$5,379,003 also included in executive service, tables 8 and 9.

<sup>6</sup> 38,587 employees and pay roll of \$5,032,547 also included in executive service, tables 8 and 9.

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 November 1935 to November 1936, inclusive, are given in table 15.

**Table 15.—Monthly Totals of Employees and Pay Rolls in Emergency Conservation Work, November 1935 to November 1936 <sup>1</sup>**

[Subject to revision]

| Month         | Number of employees | Monthly pay-roll disbursements | Month          | Number of employees | Monthly pay-roll disbursements |
|---------------|---------------------|--------------------------------|----------------|---------------------|--------------------------------|
| 1935          |                     |                                | 1936—Continued |                     |                                |
| November..... | 546, 683            | \$24, 021, 262                 | May.....       | 407, 621            | \$18, 598, 026                 |
| December..... | 509, 126            | 21, 958, 301                   | June.....      | 383, 279            | 17, 973, 962                   |
|               |                     |                                | July.....      | 404, 422            | 18, 417, 372                   |
| 1936          |                     |                                |                |                     |                                |
| 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, 604, 821                   |

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

### Construction Projects Financed by Reconstruction Finance Corporation

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

**Table 16.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, November 1936**<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.....                        | 9,611                  | \$1,108,258                    | 1,502,460                               | \$0.738                   | \$3,008,077                                  |
| Bridges.....                             | 482                    | 47,783                         | 48,159                                  | .992                      | 20,206                                       |
| Building construction <sup>2</sup> ..... | 773                    | 58,119                         | 125,688                                 | .462                      | 172,565                                      |
| Reclamation.....                         | 49                     | 3,704                          | 6,464                                   | .573                      | 35,127                                       |
| Water and sewerage.....                  | 7,859                  | 950,472                        | 1,257,088                               | .756                      | 2,774,879                                    |
| Miscellaneous.....                       | 448                    | 48,180                         | 65,061                                  | .741                      | 5,300  |

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

<sup>2</sup> Includes 81 employees; pay-roll disbursements of \$4,145; 4,482 man-hours worked; and material orders placed during the month amounting to \$40,438 on projects financed by RFC Mortgage Co.

A monthly summary of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation from November 1935 to November 1936, inclusive, is given in table 17.

**Table 17.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, November 1935 to November 1936**<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 |
|----------------|------------------------|--------------------------------|---|---------------------------|--|
| 1935           |                        |                                |   |                           |  |
| November.....  | 9,802                  | \$1,002,151                    | 1,344,959                               | \$0.745                   | \$1,411,729                                  |
| December.....  | 7,792                  | 870,129                        | 1,161,473                               | .749                      | 1,383,330                                    |
| 1936           |                        |                                |   |                           |  |
| January.....   | 7,560                  | 850,271                        | 1,093,350                               | .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                                    |

<sup>1</sup> Includes projects financed by RFC Mortgage Co. Data are for month ending 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 Government agency doing the work. These reports are returned to the Bureau and show the number of men on pay rolls, the amounts disbursed for pay, the number of man-hours worked on the project, and the value of the different types of materials for which orders were placed during the month.

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 November are given in table 18, by type of project.

**Table 18.—Employment on Construction Projects Financed From Regular Governmental Appropriations, by Type of Project, November 1936 <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> 155, 839                | 147, 818       | \$14, 307, 158                 | 21, 061, 396                            | \$0. 679                  | \$16, 844, 360                               |
| Building construction.....           | 28, 249                              | 25, 154        | 2, 442, 002                    | 3, 268, 944                             | . 747                     | 2, 951, 744                                  |
| Electrification.....                 | 121                                  | 112            | 6, 714                         | 10, 496                                 | . 640                     | 11, 119                                      |
| Forestry.....                        | 170                                  | 161            | 11, 080                        | 23, 529                                 | . 471                     | 4, 320                                       |
| Naval vessels.....                   | 34, 011                              | 33, 514        | 4, 449, 523                    | 5, 136, 733                             | . 866                     | 4, 723, 830                                  |
| Public roads <sup>4</sup> .....      | ( <sup>5</sup> )                     | 54, 637        | 3, 968, 975                    | 7, 047, 611                             | . 563                     | 5, 465, 906                                  |
| Reclamation.....                     | 875                                  | 845            | 141, 003                       | 178, 036                                | . 801                     | 1, 148                                       |
| River, harbor, and flood control.... | 32, 195                              | 28, 433        | 2, 950, 577                    | 4, 801, 816                             | . 614                     | 3, 008, 899                                  |
| Streets and roads.....               | 2, 524                               | 2, 329         | 139, 809                       | 287, 960                                | . 486                     | 179, 145                                     |
| Water and sewerage.....              | 281                                  | 205            | 19, 561                        | 31, 576                                 | . 619                     | 15, 602                                      |
| Miscellaneous.....                   | 2, 776                               | 2, 428         | 177, 914                       | 276, 695                                | . 643                     | 482, 647                                     |

<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 November 1935 to November 1936, are shown, by months, in table 19.



**Table 19.—Employment on Construction Projects Financed from Regular Governmental Appropriations, November 1935 to November 1936 <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 |
|------------------------------|------------------------|--------------------------------|---|---------------------------|--|
| 1935                         |                        |                                |   |                           |  |
| November.....                | 63,912                 | \$4,077,395                    | 6,559,665                               | \$0.622                   | \$6,690,405                                  |
| December.....                | 56,780                 | 3,707,963                      | 5,980,118                               | .620                      | 6,155,840                                    |
| 1936                         |                        |                                |   |                           |  |
| January.....                 | 46,895                 | 3,990,725                      | 6,246,418                               | .639                      | 5,584,611                                    |
| February.....                | 43,915                 | 3,619,025                      | 5,545,115                               | .653                      | 6,069,016                                    |
| 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 <sup>2</sup> .....      | 137,475                | 13,552,299                     | 20,552,261                              | .659                      | 25,670,217                                   |
| August <sup>2</sup> .....    | 158,939                | 14,663,201                     | 22,023,669                              | .666                      | 18,767,905                                   |
| September <sup>2</sup> ..... | 167,745                | 15,272,860                     | 23,044,847                              | .663                      | 21,301,074                                   |
| October <sup>2</sup> .....   | 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                                   |

<sup>1</sup> Data are for the month ending on the 15th.<sup>2</sup> Revised—Data for Tennessee Valley Authority project transferred from table showing data for projects financed from Public Works Administration funds.**State-Roads Projects**

A RECORD of employment and pay-roll disbursements in the construction and maintenance of State roads from November 1935 to November 1936, is presented in table 20.

**Table 20.—Employment on Construction and Maintenance of State Roads, November 1935 to November 1936 <sup>1</sup>**

[Subject to revision]

| Month          | Number of employees working on— |             |         | Total pay roll |
|----------------|---------------------------------|-------------|---------|----------------|
|                | New roads                       | Maintenance | Total   |                |
| 1935           |                                 |             |         |                |
| November.....  | 32,487                          | 139,138     | 171,625 | \$7,156,025    |
| December.....  | 27,046                          | 121,690     | 148,736 | 6,139,581      |
| 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                          | 158,882     | 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     |

<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.