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## Employment and Pay Rolls

December 1936

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## EMPLOYMENT AND PAY ROLLS

## Summary of Reports for December 1936

THE upswing in employment, which had been evidenced each month since February in the combined manufacturing and nonmanufacturing industries surveyed by the Bureau of Labor Statistics, continued through December, when more than 492,000 additional workers were given jobs. Aggregate weekly pay rolls in these industries rose between November and December by approximately $\$ 15,000,000$.

The gain in employment between December 1935 and December 1936 amounted to more than $1,362,000$ workers and the increase in weekly pay rolls was nearly $\$ 53,600,000$.
In contrast with the continued increase in the number of workers employed by these industries, class I steam railroads had fewer employees on their pay rolls in December than in November. The decrease was 11,061 , exclusive of executives and officials, according to a preliminary report by the Interstate Commerce Commission.

Public employment in December showed decreases on construction projects financed by the Reconstruction Finance Corporation, by regular governmental appropriations, and by the Public Works Administration funds. Decreases in employment were also reported on projects financed by The Works Program and in emergency conservation work.

## Industrial and Business Employment

More than 103,000 factory wage earners were returned to jobs in December. This represented a gain of 1.2 percent from November and was particularly noteworthy, not only because it was the eleventh consecutive monthly gain but also because it was contraseasonal, decreases having been shown in this month in 13 of the preceding 17 years for which data are available. Weekly factory pay rolls advanced 4.9 percent over the month interval, a gain of over $\$ 9,000,000$. Although factory pay rolls have risen in December in 9 of the preceding 17 years, the current gain has been exceeded in only 2 of these years-1919 and 1934. Wage-rate increases affecting more than 797,000 of the $4,700,000$ workers covered in the survey accounted in part for the pay-roll rise.

The estimated number of factory wage earners in December $(8,220,000)$ exceeded that of any month since December 1929, and the estimated weekly pay roll ( $\$ 193,400,000$ ) was the maximum recorded since May 1930. Comparing the 12 -month average for 1936
with the corresponding average for 1935, we find that factory employment rose 6.9 percent and factory pay rolls 15.6 percent.

Of the 89 manufacturing industries included in the monthly survey, 52 showed more employees in December than in the preceding month and 60 reported larger pay rolls. Gift or bonus payments were not included in the pay rolls reported. Among the industries showing substantial seasonal gains in employment were fertilizers, 15.2 percent; automobiles, 8.1 percent; and agricultural implements, 10.5 percent. Other industries showing large gains were woolen and worsted goods, 9.3 percent; locomotives, 8.2 percent; aircraft, 6.9 percent; boots and shoes, 7.1 percent; and iron and steel forgings, 6.0 percent.

Gains in employment ranging from 3.8 percent to 4.5 percent were reported for carpets and rugs, dyeing and finishing textiles, hardware, stamped and enameled ware, and lighting equipment. Industries of major importance in which smaller increases were reported were slaughtering and meat packing ( 2.5 percent), blast furnaces, steel works, and rolling mills ( 1.5 percent), foundries and machine shops ( 2.4 percent), electrical machinery ( 2.7 percent), book and job printing ( 1.9 percent), silk and rayon goods ( 1.8 percent), cotton goods ( 1.9 percent), and millwork (1.2 percent). A further gain in employment of 2.3 percent was shown in the machine-tool industry, continuing the succession of increases which have been reported in this industry each month with but one exception for more than 2 years. Employment in this industry in December was above the level of any month since June 1930 and was nearly three times greater than the low point of April 1933.

Among the 37 industries in which declines in employment were shown, seasonal slackening of activities resulted in decreases of 36.9 percent in beet sugar, 14.4 percent in canning and preserving, 7.8 percent in jewelry, 6.0 percent in millinery, 5.3 percent in marble-slate-granite, 5.4 percent in cottonseed oil-cake-meal, 4.3 percent in cigars and cigarettes, 6.0 percent in stoves, 3.7 percent in radios and phonographs, 3.5 percent in cement, and 1.3 percent in confectionery. Other substantial declines were shown in shipbuilding ( 7.7 percent), structural metalwork (4.2 percent), and soap (3.5 percent).

Eight of the 16 nonmanufacturing industries surveyed also reported gains in employment between November and December. The largest gain (approximately 388,000 or 11.0 percent) was a seasonal expansion in retail trade, due primarily to the employment of extra workers to handle the holiday trade. In the general merchandising group under retail trade, which is composed of department, variety, and general merchandising stores and mail-order houses, employment increased 33.2 percent or by 295,000 workers. The level of employment in this group in December 1936 exceeded the December 1929 level by 10.5 percent. In "other retail trade" establishments employment
increased 3.6 percent over the month interval or by more than 93,000 workers. Reports received from wholesale trade firms indicated a net gain in employment of 1.5 percent or approximately 21,000 workers. The increase was shared by most of the branches of wholesale distribution. Seasonal demands resulted in the hiring of more than 12,000 additional workers in the anthracite and bituminous-coal mining industries. The gain in employment in anthracite mining was accompanied by a rise of 37.7 percent in weekly pay rolls. Laundries, metal mines, insurance, and brokerage offices also reported larger numbers of workers in December than in the preceding month, the gain in metal mines being partly due to the resumption of operations in several mines which had been affected by labor disputes.

Seasonal recessions in employment were shown in private building construction ( 7.9 percent), quarrying and nonmetallic mining ( 6.1 percent), dyeing and cleaning ( 4.5 percent), and year-round hotels ( 0.7 percent). The remaining four nonmanufacturing industries (telephone and telegraph, electric light and power and manufactured gas, electric-railroad and motorbus operation and maintenance, and crude-petroleum producing) showed decreases ranging from 0.1 to 1.1 percent. Total employment in the 16 nonmanufacturing industries combined showed a net gain of approximately 389,000 workers between November and December, and an increase of over $\$ 5,900,000$ in weekly pay rolls.

Employment by class I railroads declined, the loss amounting to 1 percent, or 11,061 workers exclusive of executives and officials. The total number of such workers in December, according to a preliminary report of the Interstate Commerce Commission, was $1,068,869$. Corresponding pay-roll information for this month was not available at the time this report was prepared. In November, however, the total compensation of all employees except executives and officials was $\$ 149,749,940$, a decline of 6.2 percent compared with the October figure. The Commission's preliminary indexes of employment, based on the 3 -year average $1923-25$ as 100 and covering all employees, were 60.5 for December and 61.1 for November. The final October index was 62.1.

Hours and earnings.-Average hours worked per week in December in manufacturing industries were 41.1 and average hourly earnings were 59.4 cents according to reports from cooperating firms. These averages were 1.3 percent and 2.6 percent, respectively, higher than the November figures and 6.0 percent and 4.0 percent higher than the December 1935 averages. Average weekly earnings of factory wageearners were $\$ 24.83$ in December, or 3.5 percent higher than in November and 10.2 percent higher than in December of the preceding year.

Of the 14 nonmanufacturing industries for which man-hour data are compiled, 9 reported longer hours worked per week in December
than in November and the same number showed higher rates of pay. Eleven of the 16 nonmanufacturing industries covered reported gains in average weekly earnings.

Table 1 presents a summary of employment and pay-roll indexes and average weekly earnings in December 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 of 1929 as 100 . The information for the manufacturing industries, mining, laundries, dyeing and cleaning, and building construction covers wage earners only. For crude-petroleum producing it covers wage earners and clerical field force. The figures for public utilities, trade, hotels, brokerage, and insurance cover all employees including executives.

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, December 1936

| Industry | Employment |  |  | Pay roll |  |  | A verage weekly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Index, December 1936 | Percentage change from- |  | Index, December 1936 | Percentage change from- |  | Average in ber 1936 | Percentage change from- |  |
|  |  | Novem- <br> ber 1936 | December 1935 |  | Novem- <br> ber 1936 | Decem- <br> ber 1935 |  | November 1936 | December 1935 |
| All manufacturing industries combined | $\begin{gathered} (1929-25 \\ =100) \\ 98.1 \end{gathered}$ | +1.2 | +11.1 | $\begin{gathered} (1929-25 \\ =100) \\ 95.1 \\ \hline \end{gathered}$ | +4.9 | $\underline{+22.6}$ | \$24.83 | +3.5 | +10.2 |
| Class I steam railroads ${ }^{2}$ - | 60.5 | -1.0 | +10.0 | (3) | ${ }^{(3)}$ | ${ }^{(3)}$ | ${ }^{(3)}$ | ${ }^{(3)}$ | ${ }^{(3)}$ |
| Coal mining: | (1929 ${ }_{100}$ ) |  |  | $\begin{gathered} (1999 \\ 100) \end{gathered}$ |  |  |  |  |  |
| Anthracite-- | 54.8 | +6.5 | $-4.4$ | 55.4 | +37.7 | +(1) | 29.41 | +29.3 | +4.6 |
| Bituminous.-.- | 83.9 | +1.8 | +6.1 | 85.0 | $+5.4$ | $+22.4$ | 25.74 | $+3.5$ | +15.4 |
| Metalliferous mining | 64.4 | +2.4 | +20.3 | 57.7 | $+5.7$ | $+33.6$ | 28.52 | +3.2 | +11.0 |
| Quarrying and nonmetalic mining | 49.4 | $-6.1$ | +14. 6 | 39.4 | -9.4 | +32.6 | 20.14 | -3.5 | +15.7 |
| Crude-petroleum producingPublic utilities: | 72.4 | -1.1 | +. 7 | 61.3 | $+1.9$ | +2.3 | 31.31 | +3.1 | +1.6 |
| Telephone and telegraph | 73.6 | -. 1 | +5.9 | 82.4 | +. 9 | +8.9 | 29.86 | $+1.0$ | +3.0 |
| Electric light and power and manufactured gas- | 93.2 | .3 | $+7.4$ | 93.8 | +2.2 | +9.1 | 32.45 | +2.5 | $+1.5$ |
| Electric-railroad and motorbus operation and maintenance..... | 72.5 | -. 7 | +2.8 | 69.3 | - 5 | +4.9 | 30.87 | +. 2 | +1.9 |
| Trade: ${ }_{\text {Wholesal }}$ | 91.0 | +1.5 |  | 72.8 |  |  |  |  |  |
| Retail... | 100.0 | +1.5 +11.0 | +4.9 +7.6 | 76.0 | + +8.4 | +6.0 +9.7 | 28.35 20.45 | -1.8 -2.4 | +1.1 +1.7 |
| Retaineneral merchan- |  |  |  |  |  |  |  |  |  |
| dising --.... | 145.5 | +33.2 | $+10.6$ | 116.8 | +27.7 | +11.8 | 17.50 | -4.1 | +1.1 |
| Other than general merchandising.. | 88.1 | +3.6 | +6.5 | 67.5 | +2.7 | +8.8 | 23.56 |  | $+2.2$ |
| Hotels (year-round) ${ }^{\text {c }}$. | 84. 0 | -. 7 | +3.9 | 69.8 | +.3 | +8.8 | 13.92 | $+1.0$ | +4.7 |
| Laundries. | 87.6 | +. 7 | +8.0 | 76.1 | +2.2 | +12.9 | 16. 28 | +1.5 | +4.4 |
| Dyeing and cleaning | 77.7 | -4.5 | +5.8 | 57.3 | -4.8 | +8.3 | 18.17 | $-.3$ | +2.4 |
| Brokerage | ${ }^{3}$ | $+8$ | +11.1 | ${ }^{3}$ | +1.6 | +16.5 | 37.80 | +.8 | +4.9 |
| Insurance | (3) | $+.1$ | +1.1 | (3) | $+.2$ | +3.9 +52.9 | 38.25 | +.2 | +2.7 |
| Building construction | (3) | -7.9 | $+30.7$ | (3) | -9.1 | +52.6 | 28.60 | -1.2 | +16.9 |

[^0]
## Public Employment

In December 243,000 workers were employed on construction projects financed from funds provided by the Public Works Administration. This was a decrease of 9.8 percent compared with the number employed in November. Losses in employment occurred on Federal and non-Federal projects financed from funds provided by the National Industrial Recovery Act and on non-Federal projects financed from funds released under the Emergency Relief Appropriation Act of 1935. Total pay-roll disbursements during the month amounted to $\$ 18,576,000$, a decrease of 10.9 percent compared with November.
Over 144,000 workers were employed on construction projects financed from regular governmental appropriations. This was a decrease of 7.4 percent compared with November. Increases in employment occurring on building construction, electrification, naval vessel, reclamation, and street and road projects were offset by decreases on forestry, public roads, river, harbor, and flood control, water and sewerage, and miscellaneous projects. December pay-roll disbursements amounted to $\$ 13,491,000$, a decrease of $\$ 816,000$ compared with the previous month.

The number of wage earners employed on construction projects financed by the Reconstruction Finance Corporation in December totaled 9,200 , a decrease of 400 compared with the preceding month. Decreases in employment occurred on all types of projects with the exception of building construction. Total pay-roll disbursements amounted to $\$ 1,107,000$ in December.

Employment on projects financed by The Works Program totaled $2,964,000$ in December. This was a decrease of 167,000 compared with November. Over 370,000 workers were employed on Federal projects, a decrease of 8.3 percent. On projects operated by the Works Progress Administration employment totaled 2,594,000, a decrease of 4.9 percent. Total pay-roll disbursements amounted to $\$ 154,731,000$.

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. Although employment in the executive service dropped 1 percent in December, it was 2 percent higher than a year ago. Of the 831,000 employees in the executive service in December, 116,000 were working in the District of Columbia and 715,000 outside the District. The most marked increases in employment in the executive departments of the Federal Government occurred in the Social Security Board, the Post Office Department, and Panama Canal. Pronounced decreases in the number of workers, on the other hand, were reported for the War Department, the Works Progress Administration, and the Tennessee Valley Authority.

In December 377,000 workers were employed on emergency conservation work. Compared with November this was a decrease of 14,000 . Decreases were shown in all groups of workers with the exception of educational advisers. Employment in this group remained virtually the same. December pay-roll disbursements totaled $\$ 18,112,000$, a drop of $\$ 493,000$ compared with the previous month.

Over 159,000 employees were working on the construction and maintenance of State roads in December. This was a decrease of 22,000 compared with November. Of the total number engaged on the program 86.6 percent were working on maintenance and 13.4 percent on new construction. Pay-roll disbursements for the month totaled $\$ 10,000,000$.

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

Table 2.-Summary of Federal Employment and Pay Rolls, December $1936{ }^{1}$
[Preliminary figures]

| Class | Employment |  | Per-centage change | Pay roll |  | Per-centage change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | November |  | December | November |  |
| Federal service: |  |  |  |  |  |  |
| Executive ${ }^{2}$ | 3 831,486 | 839,446 | -0.9 | \$138, 694, 501 | 4 \$130,218, 059 | +6.5 |
| Judicial.- | 1,970 | 1,985 | -. 8 | 511,213 | 501,392 | +2.0 |
| Legisiative | 5, 274 | 5,381 | -2.0 | 1, 234, 689 | 1 1, 231, 814 | $+2$ |
| Military | 308, 972 | 305, 757 | +1.1 | 23, 574, 147 | ${ }^{4} 23,558,487$ | +. 1 |
| Construction projects: <br> Financed by P. W. A | ${ }^{5} 242,818$ | - 269, 167 | -9.8 | 3 18, 575, 619 | ${ }^{8} 20,854,480$ | -10.9 |
| Financed by R. F. C.i | 9,189 | 9,611 | $-4.4$ | 1, 106, 816 | 1,108, 258 | $-.1$ |
| Financed by regular governmental appropriations. | 144, 274 | 155, 839 | -7.4 | 13, 491, 223 | 14, 307, 158 | $-5.7$ |
| The Works Program: ${ }^{\text {a }}$ |  |  |  |  |  |  |
| Federal projects. | 370,911 | 404,671 | -8.3 | 18,595, 253 | 20, 074, 062 | -7.4 |
| Projects operated by W. P. A.---- | 2,593, 569 | 2,726, 361 | -4.9 | 136, 135, 774 | 138, 543, 440 | $-1.7$ |
| Relief work: Emergency conservation work ${ }^{4}$ | 376, 953 | 391, 296 | -3.7 | 18, 112, 149 | 18, 604, 821 | -2.6 |

1 Includes data on projects financed wholly or partially from Federal funds.
${ }^{2}$ Includes employees of Columbia Institution for the Deaf and Howard University.
${ }^{2}$ Includes 387 employees by transfer, previously reported as separations by transfer, not actual additions for December.
4 Revised.
${ }^{6}$ Includes 154,845 wage earners and $\$ 11,144,602$ pay roll covering P. W. A. projects financed from E. R. A. A. 1935 funds, and 149 wage earners and $\$ 7,714$ pay roll financed from First Deficiency Appropriation Act of 1936.

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

7 Includes 61 employees and pay-roll disbursements of $\$ 3,533$ for December and 81 employees and pay. roll disbursements of $\$ 4,145$ for November on projects financed by RFC Mortgage Co.
${ }^{8}$ 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.

- Includes 40,121 employees and pay roll of $\$ 5,691,819$ for December and 40,348 employees and pay roll of $\$ 5,751,433$ for November also included in executive service.


## Detailed Reports for December 1936

## Industrial and Business Employment

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

Employment, Pay Rolls, Hours, and Earnings in December 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 December 1936 are shown in table 3. Percentage changes from November 1936 and December 1935 are also given. The indexes for the manufacturing industries have been revised and adjusted to the Census of Manufactures for 1933 as explained in the preceding issue of this publication.

Table 3.-Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1936
Manufacturing (indexes are based on 3-year average 1923-25=100)

| Industry | Employment |  |  | Pay rolls |  |  | Average weekly earnings ${ }^{1}$ |  |  | A verage hours worked per week ${ }^{1}$ |  |  | Average hourly earnings ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | IndexDe-cember1936(re-visedseries) | Percentage change from- |  | $\begin{gathered} \text { Index } \\ \text { De- } \\ \text { cember } \\ 1936 \\ \text { (re- } \\ \text { vised } \\ \text { series)² } \end{gathered}$ | Percentage change from- |  | $\begin{array}{\|c\|} \text { De- } \\ \text { cember } \\ 1936 \end{array}$ | Percentage change from- |  | $\begin{gathered} \text { De- } \\ \text { cember } \\ 1936 \end{gathered}$ | Percentage change from- |  | $\begin{gathered} \text { De- } \\ \text { cember } \\ 1936 \end{gathered}$ | Percentage change from- |  |
|  |  | $\left\|\begin{array}{c} \text { No- } \\ \text { vember } \\ 1936 \end{array}\right\|$ | $\begin{array}{\|c\|} \text { De- } \\ \text { cember } \\ 1935 \end{array}$ |  | $\begin{array}{\|c\|} \text { No- } \\ \text { vember } \\ 1936 \end{array}$ | $\begin{array}{\|c\|} \text { De- } \\ \text { cember } \\ 1935 \end{array}$ |  | No- vember 1936 | $\underset{1935}{\text { De- }}$ |  | $\left\lvert\, \begin{gathered} \text { No- } \\ \text { vember } \\ 1936 \end{gathered}\right.$ |  |  | $\begin{gathered} \text { No- } \\ \text { vember } \\ 1936 \end{gathered}$ | $\substack{\text { De- } \\ \text { cember } \\ 1935}$ |
| All manufacturing industries. | 98.1 | +1.2 | +11.1 | 85. 1 | +4.9 | $+22.6$ | \$24.83 | +3.5 | +10.2 | 41.1 | +1.3 | +6.0 | Cents 59.4 | +2.6 | +4.0 |
| Durabie goods... <br> Nondurable good | 92.7 104.0 | +1.9 +.7 | +15.9 +7.0 | 93.1 97.6 | +4.7 +5.1 | +30.2 +14.4 | 27.94 21.43 | +2.8 +4.3 | +12.3 +6.8 | 42.8 39.4 | $-{ }^{(3)}$ +2.6 | +6.7 +4.9 | 64.4 54.3 | +2.8 | +4.8 +2.1 |
| Durable goods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Iron and steel and their products, not including machinery | 100.4 | +1.1 | +17.8 | 102.0 | +6. 5 | +37.3 | 29.01 | +5.3 | +16.5 | 43.2 | -. 5 | +8.2 | 66.7 | +5.6 | $+7.0$ |
| Blast furnaces, steel works, and rolling milis.-. | 109.3 | +1.5 | +18.4 | 115.4 | +9.9 | +42.4 | 31.59 | +8.3 | +20.1 | 43.5 | 0 | +8.2 +10.0 | 73.0 | +8.6 +8.3 | +8.0 +9.6 |
| Boits, nuts, washers, and rivets....-.......... | 83.8 | +4.0 | +17.9 | 98.4 | $+11.1$ | +36.3 | 27.24 | +6.9 | +15. 6 | 45.4 | +2.5 | +11.0 | 60.2 | +4.4 | +4.1 |
|  | 66.9 | $+2.0$ | +18.8 | 52.5 | $+10.0$ | +40.8 | 21.39 | +7.8 | +18.4 | 41.1 | +5.2 | +13.0 | 51.6 | +2.7 | +4.5 |
| Cutlery (not including silver and plated cutlery) and edge tools | 87.1 | +1.6 | +8. 5 | 85.4 | $+3.6$ | +17.7 | 24.18 | $+1.9$ | +8.4 | 45.8 | +. 4 | $+9.3$ | 53.6 | +1.2 | $-1.3$ |
|  | 68.2 | +6.0 | $+19.7$ | 67.5 | +15.8 | +38.1 | 30.79 | +9.3 | +15.5 | 47.3 | +6.0 | $+7.7$ | 65.2 | +3.0 | +7.1 |
| Hardware | 95.7 | +4.5 | $+17.5$ | 93.5 | $-12.0$ | +11.2 | 22.08 | $-15.7$ | -5. 5 | 39.2 | $-12.6$ | $-6.5$ | 56.7 | $-4.3$ | +1.2 |
| Plumbers' supplies. | 87.4 | +1.8 | +3.9 | 69.6 | $+10.0$ | +17.6 | 24.74 | +8.1 | +13.4 | 42.9 | $+8.3$ | $+9.9$ | 57.6 | -. 1 | $+3.0$ |
| Steam and hot-water heating apparatus and steam fittings. $\qquad$ | 73.2 | $-.7$ | +23.2 | 67.4 | +2.3 | +44.6 | 26.85 | +3.1 | +17.2 | 44.1 | +1.2 | +13.3 | 61.0 | +1.9 | $+3.7$ |
|  | 107.7 | $-6.0$ | +14.7 | 96.0 | -6.8 | +27.6 | 25.73 | $-.8$ | +11.1 | 43.7 | $-1.3$ | +10.1 | 59.3 | $+.7$ | +.8 |
| Structural and ornamental metalwork | 70.1 | $-4.2$ | $+31.3$ | 65.7 | $+.2$ | +57.6 | 26. 37 | +4.7 | +19.9 | 43.4 | $+.8$ | +15.2 | 60.8 | +4.0 | +4.1 |
| Tin cans and other tinware....-.-..... | 94.4 | -1.4 | +3.5 | 93.5 | $+1.4$ | +6.3 | 21.88 | +2.8 | +2.8 | 39.9 | +1.7 | +1.5 | 55, 4 | +1.4 | +1.4 |
| Tools (not including edge tools, machine tools, files, and sews) | 96.2 | $+2.9$ | $+21.5$ | 104.5 | +7.1 | $+29.8$ | 25.40 | +4.1 | +6.9 | 46.1 | +1.7 | +4.6 | 55.1 | +1.7 | +1.9 |
| Wirework ....- including transporation | 187.6 | $+7.4$ | $+26.7$ | 182.5 | $+5.5$ | +33.0 | 24.62 | $-1.8$ | $+6.5$ | 42.3 | $-6.4$ | $+1.3$ | 58.2 | $+4.9$ | $+5.1$ |
| equipment | 114.1 | +2.4 | $+19.0$ | 113.6 | +7.6 | $+33.5$ | 27.43 | $+5.1$ | +12.3 | 43.5 | +2.7 | +8.5 | 63.0 | +2.1 | +4.0 |
|  | 102.9 | $+10.5$ | $-14.0$ | 121.5 | +19.1 | $-6.4$ | 26.46 | +7.8 | +8.9 | 40.9 | +1.9 | +2.1 | 64.8 | +6.1 | +6.5 |
| Cash registers, adding machines, and calculating machines. | 120.7 | +1.0 | $+10.0$ | 122.9 | +10.2 | +21.5 | 31.43 | +9.0 | +10.4 | 42.9 | +7.2 | +3.1 | 74.0 | +1.7 | +6.9 |
| Electrical machinery, apparatus, and supplies. | 105.8 | +2.7 +4 | +26.0 +13.4 | 103.1 | +6.4 +10.9 | +31.7 | 26. 86 | +3.6 | +10.1 | 42.1 | +1.9 +1.9 | +7.6 | 63.4 | +1.8 +1.8 | +2.8 +6.1 |
| Engines, turbines, tractors, and water wheels . | 123.5 | +4.5 | +13.4 | 117.6 | $+10.9$ | +25.0 | 29.73 | $+6.2$ | $+10.9$ | 41.0 | +1.9 | $+4.6$ | 72.6 | $+4.2$ | +6.1 |


| Foundry and machine-shop products. | 99.4 | +2.4 | $+21.6$ | 100.2 | +7.4 | +38.9 | 27.96 | +4.8 | +14. 2 | 45.1 | +3.1 | +9.7 | 61.8 | $+1.6$ | +4.5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Machine tools. | 130.7 | $+2.3$ | $+21.7$ | 135.5 | +9.0 | +34.3 | 31.16 | $+6.5$ | +10.3 | 47.5 | +4.3 | +6.1 | 65.6 | $+2.2$ | +4.0 |
| Radios and phonograph | 202.7 | $-3.7$ | +6.6 | 167.5 | -1.2 | +21.9 | 21.67 | +2.7 | +14.3 | 38.9 | $+.9$ | +10.1 | 55.7 | +1.8 | +3.9 |
| Textile machinery and pa | 76.9 | +3.9 | +13.9 | 78.8 | +17.0 | +26.9 | 27.55 | +12.7 | +11.5 | 44.6 | +9.5 | +8.9 | 62.0 | $+2.7$ | +2.6 |
| Typewriters and parts | 143.6 | +3.2 | +24.6 | 137.6 | +2.4 | +39.7 | 25.59 | -. 9 | +12.1 | 44.5 | $-1.2$ | +14.0 | 57.4 | $+.3$ | +1.3 |
| Transportation equipm | 122.1 | +6.2 | +17.4 | 120.9 | +6.6 | +31.3 | 31.46 | +. 4 | +11.7 | 40.2 | +2.0 | +5.7 | 78.4 | +2.5 | +5.9 |
| Aircraft | 690.9 | +6.9 | +61.8 | 619.9 | +12.1 | +71.1 | 28.25 | +4.9 | -2.1 | 45.4 | +5.5 | +4.1 | 62.8 | -. 6 | $-2.5$ |
| Automobiles. | 138.7 | +8.1 | +15.9 | 135.7 | +7.9 | +30.7 | 32. 22 | $-.2$ | +12.9 | 40.4 | $-2.8$ | +5.6 | 79.9 | +2.6 | +7.1 |
| Cars, electric- a | 56.8 | -1.1 | $+32.8$ | 59.9 | +4.0 | $+50.1$ | 25.83 | +5.2 | +13.8 | 40.0 | +2.1 | +8.2 | 64.7 | +2.0 | +4.3 |
| Locomotives. | 43.8 | +8.2 | +81.9 | 31.4 | +11.4 | +118.3 | 28. 10 | +2.9 | +20.5 | 43.6 | +1.6 | +14.5 | 64.4 | +1.3 | $+5.2$ |
| Shipbuilding. | 89.9 | $-7.7$ | +6.1 | 90.6 | -6.9 | +9.9 | 28. 02 | +.9 | +3.6 | 35.0 | $-2.1$ | +1.4 | 79.4 | +2.7 | +2.0 |
| Bailroad repair sho | 61.2 | +1.0 | +13.8 | 65.5 | $+.5$ | +18.7 | 30.74 | $-6$ | +4.3 | 44.7 | $-2$ | +3.8 | 69.2 | -. 1 | +.7 |
| Electric railroad. | 63.4 | +. 1 | +3.4 | 67.4 | +3.0 | +9.1 | 29.95 | $+2.9$ | +5.6 | 45.1 | $+.7$ | $+.5$ | 65.3 | $+2.7$ | +4.9 |
| Steam railroad | 61.0 | $+.9$ | +14.7 | 65.6 | $+.4$ | +19.7 | 30.87 | -. 6 | +4.3 | 44.6 | -. 2 | +4.2 | 69.5 | $-3$ | $+.3$ |
| Nonferrous metals and their | 111.6 | +1.5 | +13.6 | 105. 5 | +3.4 | +27.1 | 25.36 | +1.9 | +11.8 | 43.8 | -. 1 | +5.9 | 57.7 | +2.1 | $+5.6$ |
| Aluminum manufactures. | 117.7 | $-.9$ | $+17.0$ | 114.7 | -. 2 | +28.2 | 24.59 | +. 7 | +9.4 | 42.8 | $-1.4$ | +2.6 | 57.5 | +1.9 | $+7.2$ |
| Brass. bronze, and copper products | 116.2 | +3.0 | +15.4 | 111.6 | $+7.5$ | +32.8 | 27.31 | +4.4 | +15.0 | 44.0 | +2.2 | $+6.2$ | 62.1 | +2.2 | +8.2 |
| Clocks and watches and time-recording devices. | 121.3 | $+.7$ | +13.6 | 117.9 | -3.3 | +18.3 | 22.78 | $-4.0$ | +4.2 | 44.8 | -3.9 | $+1.0$ | 51.0 | $+1.0$ | $+3.9$ |
| Jewelry. | 92.8 | -7.8 | +14.4 | 74.6 | $-4.3$ | +19.7 | 24.17 | +3.8 | +4. 7 | 41.9 | -. 3 | +3.2 | 57.3 | +4.9 | +1.3 |
| lighting equipment | 101.4 | +4.3 | +27.2 | 104.2 | $+7.5$ | +44.8 | 25.91 | $+3.0$ | +13.5 | 44.2 | -2.4 | +6.0 | 58.7 | $+5.5$ | $+7.0$ |
| Silverware and plated ware | 73.5 | -. 5 | +5.6 | 71.3 | -. 4 | +24.5 | 26.80 | $+1$ | +18.0 | 47.3 | +1.6 | +26.9 | 57.8 | +1.1 | $-3.9$ |
| Smelting and refining-copper, lead, and zinc.- | 81.1 | $+2.1$ | +4.1 | 70.1 | $+2$ | +12.7 | 25. 51 | $-1.8$ | +8.2 | 42.4 | $-2.6$ | +1.3 | 60.2 | $+.9$ | $+6.9$ |
| Stamped and enameled ware | 162.4 | $+4.1$ | $+12.6$ | 164.2 | $+5.9$ | +26.7 | 23.28 | $+1.7$ | +12.6 | 43.8 | +1.1 | +8.2 | 53.3 | +. 5 | +4.8 |
| Lumber and allied product | 67.1 | -1.0 | +10.4 | 60.5 | -. 5 | +23.5 | 20.28 | +. 6 | +11.9 | 43.6 | +.1 | +6.8 | 46.5 | $-1$ | +1.6 |
| Furniture. | 87.8 | . 6 | +18.6 | 78.3 | $+.9$ | +35. 4 | 21.24 | $+1.5$ | +14.2 | 45.1 | +. 1 | +9.6 | 47.2 | +1.0 | +4.6 |
| Lumber: Millwork |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Millwork Sawmills | 54.1 <br> 49.0 | +1.2 -1.9 | +19.9 +36 | 50.7 | +2.2 -2.6 | +35.5 +11.3 | 21.64 | $+1.1$ | +13.0 +7.5 | 45.7 | $\pm .7$ | +11.8 +5.3 | 47.4 45.8 | $\begin{array}{r}\text { + } \\ + \\ \hline .9\end{array}$ | +1.0 +1.2 |
| Sawmills Stone, clay, and glass prod | 49.0 67.1 | +1.9 -.3 | +3.6 +11.6 | 41.6 59.1 | -2.6 | +11.3 +19.9 | 19.01 22.32 | -3.7 | +7.5 +7.4 | 42.1 | --3. 1 | +5.8 +5.2 | 45.8 56.3 | -.9 +1.0 | +1.2 +1.8 |
| Stone, elay, and giass prod | 67.1 48.8 | -. ${ }_{-1.6}$ | +11.6 +22.8 | 49.19 | -3.3 | +11.9 +40.1 | 20.31 | -3.0 +1.1 | +7.4 +14.2 | 43.12 | -3.4 | +5.2 +9.9 | 56.3 47.6 | +1.0 +3.6 | +1.8 +4.9 |
| Cement......... | 62.0 | $-3.5$ | +31.3 | 58.8 | -6. 8 | +53.0 | 23.42 | $-3.5$ | +16.3 | 39.7 | -4.6 | +13.3 | 59.1 | +1.1 | +3.0 |
| Glass. | 100.6 | +3.1 | $+.9$ | 95.1 | -4.2 | +2.6 | 22. 74 | -7.1 | +1.5 | 37.7 | -6.6 | -. 5 | 60.4 | -. 7 | $+1.9$ |
| Marble. granite, slate, and | 41.0 | $-5.3$ | +17.4 | 33.2 | -2.7 | +31.4 | 23.91 | +2.8 | +12.2 | 38.4 | +2.2 | +11.7 | 62.5 | +1.3 | -. 2 |
| Pottery------------ | 76.5 | $-.7$ | +5.7 | 65.2 | $-2.7$ | +12.2 | 22.71 | -2.1 | +6.2 | 41.8 | -. 9 | +5.1 | 55.4 | +. 8 | +1.5 |
| Nondurable goods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Textiles and their pr | 106.4 | +1.5 | +6.4 | 94.6 | +8.5 | +14.0 | 17.98 | +6.9 | $+7.1$ | 37.9 | +3.8 | +6.4 | 47.1 | $+2.9$ | $+3$ |
| Fabrics. | 101.7 | $+2.9$ | $\underline{+5.8}$ | 96.8 | $+11.6$ | +15.4 | 18. 00 | +8.4 | +9.0 | 39.8 | +4.3 | +6.4 | 45.1 | +4.0 | +2. 4 |
| Carpets and ru | 97.9 | +3.8 | +14.9 | 96.5 | +7.7 | +36.1 | 23.34 | +3.7 | +18.5 | 40.7 | + 8 | +15.3 | 57.5 | +2.6 | +2.6 |
| Cotton goods. | 101.4 | +1.9 | +12.1 | 98.2 | +11.7 | +24.3 | 15.35 | +9.6 | +11.1 | 39.8 | +4.1 | +5.8 | 38.5 | +5.3 | +5.1 |
| Cotton small wares | 105.8 | +2.2 | +6.6 | 106.8 | +9.2 | $+11.0$ | 18.83 | $+6.9$ | $+4.3$ | 41.4 | +5.4 | +4.7 | 45.6 | +2.0 | $+8$ |
| Dyeing and finishing textiles | 122.8 | +4.3 | +3.4 | 116.4 | +15.7 | +18.5 | 22.92 | +11.0 | +14.6 | 42.8 | +6.0 | +12.9 | 53.3 | +5.2 | +1.8 |
| Hats, fur felt...--..- | 85.5 | +3.3 | $-1.1$ | 82.5 | +21.2 | $+7.9$ | 26.18 | $+17.3$ | +9.1 | 38.2 | +17.5 | +4.7 | 68.0 | +. 4 | -. 1 |
| Knit goods. | 121.8 | +. 7 | +5.7 | 126.2 | +1.6 | +11.7 | 18.01 | +.8 | $+5.7$ | 38.8 | +1.2 | +7.6 | 47.5 | -(3) | -. 5 |
| Silk and rayon goods | 81.4 | +1.8 | -6.2 | 68.4 | $+7.3$ | $-2.7$ | 16. 42 | +5.5 | +3.7 | 38.7 | +3.3 | $+5.3$ | 42.3 | $+1.9$ | $-2.2$ |
| Woolen and worsted goods | 91.6 | +9.3 | -1.4 | 84.3 | +27.6 | $+10.1$ | 21.18 | +16.8 | +11.5 | 40.0 | +8.8 | +4.1 | 53.0 | $+7.1$ | $+7.0$ |
| Wearing apparel | 114.8 | $-1.0$ | $+8.0$ | 86.3 | $+2.0$ | +11.1 | 17.91 | +3.2 | $+2.9$ | 33.9 | +2.2 | $+7.3$ | 51.4 | +1. 5 | -3.3 |
| Clothing, men's. | 107.8 | $+1.2$ | +5.2 | 84.9 | +7.1 | +11.9 | 18.95 | $+5.9$ | +6.3 | 33.6 | +4.0 | +11.7 | 55.7 | +1.3 | -2.7 |
| Clothing, women's | 154.0 | $-2.6$ | +9.2 | 103.6 | $+.9$ | $+10.5$ | 18.60 | $+3.7$ | +1.2 | 32.8 | $+3.0$ | +4.3 | 54.6 | +3.0 | -2.5 |

Table 3.-Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1936-Continued
Manufacturing (indexes are based on 3-year average 1923-25 =100) -Continued

| Industry | Employment |  |  | Pay rolls |  |  | $\begin{aligned} & \text { A verage weekly } \\ & \text { earnings } \end{aligned}$ |  |  | A verage hours worked per week |  |  | A verage hourly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|c} \text { Index } \\ \text { De- } \\ \text { cember } \\ \text { 1936 } \\ \text { (re- } \\ \text { rised } \\ \text { series) } \end{array}$ | Percentage change from- |  | $\begin{array}{\|c\|} \hline \text { Index } \\ \text { De- } \\ \text { cember } \\ \text { rese } \\ \text { (re- } \\ \text { rised } \\ \text { series) } \end{array}$ | Percentage change from- |  | $\begin{gathered} \text { De- } \\ \text { cember } \\ 1936 \end{gathered}$ | Percentage change from- |  | $\begin{gathered} \text { De- } \\ \text { cember } \\ 1936 \end{gathered}$ | Percentage change from - |  | $\begin{array}{\|c} \substack{\text { De- } \\ \text { cember } \\ 1936} \end{array}$ | Percentage change from- |  |
|  |  | $\begin{gathered} \text { No- } \\ \text { vember } \\ 1936 \end{gathered}$ | $\begin{gathered} \text { De- } \\ \text { cember } \\ 1935 \end{gathered}$ |  | $\begin{array}{\|c} \text { No- } \\ \text { rember } \\ 1936 \end{array}$ | $\begin{array}{\|c} \text { De- } \\ \text { cember } \\ 1935 \end{array}$ |  | $\begin{gathered} \text { No- } \\ \text { vember } \\ 1936 \end{gathered}$ | $\underset{1935}{\text { De- }} \begin{gathered} \text { cember } \\ \text { cer } \end{gathered}$ |  | $\begin{gathered} \text { No- } \\ \text { rember } \\ 1936 \end{gathered}$ | $\begin{array}{\|c} \text { De- } \\ \text { cember } \\ 1935 \end{array}$ |  | $\begin{gathered} \text { No- } \\ \text { vember } \\ 1936 \end{gathered}$ | $\begin{gathered} \text { De- } \\ \text { cember } \\ 1935 \end{gathered}$ |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Textiles and their products-Continued. |  |  |  |  |  |  |  |  |  |  |  |  | Cents |  |  |
| Corsets and allied garments | 89.3 | $-1.2$ | ${ }_{+18.8}^{+3}$ | 88.0 | -0.1 | ${ }_{+}^{+9.6}$ | \$16.24 | ${ }_{-6}^{+1.7}$ | ${ }_{-3.3}^{+5.6}$ | 36.2 38.5 | +3.3 | +10.8 | 44.1 | $-1.9$ | $-5.8$ |
| Men's furnishings. | $\begin{array}{r}140.6 \\ 44 \\ \hline\end{array}$ | $-1.7$ | ${ }_{+1.8}^{+18.8}$ | ${ }_{29.2}^{115.1}$ | -8.2 -6.6 | +15.0 +-.7 | 14.94 <br> 18.15 | -6.7 -.6 | +3.3 $+\quad 5$ | 38.5 | -. 2 | +1.0 | 34.8 | -5.6 |  |
| Shirts and collars | 122.8 | -1.6 | +11.1 | 112.1 | -3.8 | +13.9 | 13.79 | $-2.3$ | +2.3 | 36.8 | -2.8 | +3.4 | 37.4 | 7.6 | $-2.2$ |
| Leather and its manufacture | 94.0 | $+5.6$ | +3.6 | 78.3 | +16.3 | +7.4 | 19.40 | +10.2 | +3.6 | 39.0 | +10.5 | +3.8 | 51.6 | $+.4$ | -. 9 |
| Boots and shoes | 94.1 | +7.1 | +5.0 | 71.4 | +22.7 | +7.8 +6.7 | ${ }_{23}^{18.23}$ | $\begin{array}{r}+14.4 \\ +4 \\ \hline\end{array}$ | +2.5 | 38.4 | +13.2 | $+3.4$ | 50.0 | $+{ }_{+}^{+1}$ | $-1.9$ |
| Lood and kindred products | 98.4 110.6 | ${ }_{-3.1}^{+(3)}$ | -1.3 +7.3 | 105.0 105.7 | ${ }_{+2.4}^{+4.2}$ | +6.7 +13.3 | 23.72 <br> 22.82 | +4.1 $+\quad .8$ | +8.2 <br> +5.6 | 41.3 42.0 | $\begin{array}{r}+3.1 \\ -.5 \\ \hline\end{array}$ | +5.4 +2.9 | 57.6 54.2 | +1.3 +1.8 +1 | +2.6 +3.9 |
| Baking.... | 132.2 | -. 6 | +6.1 | 119.8 | -. 5 | +11.1 | 23.36 | $+.2$ | +4.8 | 42.4 | -. 8 | +5.6 | 55.3 | +1.1 | +2.0 |
| Beverages | 181.0 | -1. 1 | +12.0 | 187.6 | -1.9 | +14.5 | 30.40 | -. 8 | +2.3 | 38.8 | -1.1 | +. 6 | 78.7 | +.2 | +. 9 |
| Butter | 81.6 | - -5 | +4.2 | 62.9 | -3.3 | +4.9 | ${ }^{21.49}$ | $-2.8$ | $+5$ |  |  |  |  |  |  |
| Canning and preserving | 96.8 | -14.4 | +4.9 | 90.8 | -7.5 | +14.3 | 15. 25 | +8.0 | +9.0 | 36.7 | +2.9 | +3.5 | 42.4 | +4.7 | +6. 5 |
| Confectionery- | 90.6 | -1.3 | +3.0 | 86.3 | $\pm 2.1$ | +4.3 | ${ }^{17.30}$ | +3.5 | +1.3 | 42.4 | $+1.9$ | +2.4 | 40.7 | +.7 | $-2.3$ |
| Flour--... | 74.3 61.2 | -1.6 | - +8.8 | 69.7 55.1 | $-1.1$ | +5.5 +6.6 | 23.67 27.45 | -. 6 | +6.3 +1.7 | 43.9 46.7 | -1.2 -1.4 | +8.4 $+\quad 1$ | 53.5 57.8 | + $+\quad .9$ +8 | -1.8 -.2 |
| Slaughtering and meat packing | 99.4 | +2.5 | +15.8 | 101.5 | +1.7 | +25.6 | 25.54 | -. 9 | +8.5 | 44.1 | +(3) | +5.0 | 58.1 | $\pm .5$ | +3.8 |
| Sugar, beet. | 172.5 | -36.9 | +6.0 | 151.8 | -43. 5 | +7.6 | ${ }^{20.15}$ | -10.4 | +1.5 | 44.9 | -15.3 | -1.1 | 45.1 | +4.6 | +. 2 |
| Sugar refining, cane-.- | 69.0 | ${ }_{+3.4}^{+1.4}$ | $-10.2$ | 59.3 | +1.2 | -9.4 | 23. 08 |  | +.9 | 41.1 |  | $+{ }_{+}^{+6}$ | 54.3 | $+2.0$ | -2.3 |
| Tobaceo manufactures ---1--.------- Chewing and smoking tobaceo and snuf | 63.3 <br> 56.4 | -3.9 | +2.8 -1.2 | 55.4 64.8 | +1.1 +4.2 | +7.6 +8.8 | 16.10 17.28 | +5.2 +5.6 | +4.7 +10.3 | 37.5 37.7 | +2.0 +4.9 | +1.4 +4.7 | 42.6 46.0 | +3.4 +.5 | +2.8 +5.4 |
| Cigars and cigarettes. | 64.1 | -4.3 | +3.2 | 54.3 | +. 7 | +7.5 | 15.86 | +5.2 | +4.3 | 37.5 | +1.7 | +.9 | 42.3 | +3.8 | +2.4 |
| Paper and printing. | 106.0 | +1.0 | +5.7 | 102.6 | +4.1 | $+13.2$ | 28.03 | +3.1 | +7.2 | 41.7 | +2.0 | +5.8 | 70.5 | +1.0 | +. 6 |
| Boxes, paper---- | 1106.3 | +8 +8 | +9.2 +3.9 | 108.3 108.6 | -.4 +3.9 | +14.9 +15.9 | 20.63 24.25 | + +3.1 | +5.2 +11.6 | 44.0 44.1 | -1.3 +1.3 | +6.2 +7.8 | 47.4 55.0 | +.9 +1.9 | - -7.7 |
| Printing and publishing: |  | $+8$ | +3.9 |  |  | +15.9 |  | +3. | +11.6 | 44.1 | +1.3 | -7.8 |  | +1.9 | +3.3 |
| Book and job.- | 97.4 | +1.9 | +8.0 | 93.2 | +6.4 | +13.2 | 30.32 | +4.4 | +4.7 | 41.4 | +4.5 | +5.4 | 74.2 | -1 | -6 |
| Newspapers and periodicals. | 108.0 | +. 7 | +3.4 | 105.4 | +3.5 | +10.7 | 37.33 | +2.8 | +7.1 | 38.3 | +2.0 | +3.8 | 94.9 | +1.3 | $+1.3$ |


| Chemicals and allied products, and petroleum refining | 119.3 | -. 3 | +5.4 | 118.3 | +3.1 | +14.5 | 25.76 | +3.5 | +8.7 | 40.0 | $+.6$ | +2.6 | 65.6 | +3.0 | +6.5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Other than petroleum refining. | 119.3 | -. 1 | +6.2 | 118.0 | +4.1 | $+16.7$ | 23.73 | +4.2 | +9.9 | 41.2 | +.8 | +3.3 | 58.7 | +3.6 | $+7.3$ |
| Chemicals...----.-....-. | 129.1 | $-.7$ | +11.7 | 132.5 | +3.9 | +24.7 | 28.48 | +4.6 | +11.8 | 41.3 | -. 6 | +3.3 | 68.8 | +5.1 | $+7.9$ |
| Cottonseed-oil, cake, | 98.0 | $-5.4$ | -1.8 | 82.1 | $-1.2$ | +3.5 | 11. 63 | +4.3 | +5.2 | 54.3 | +2.0 | +7.1 | 21.5 | +2.6 | -1.3 |
| Druggists' preparation | 106.6 | +.7 | +3.7 | 112.5 | -. 2 | +8.7 | 22.93 | $+8$ | +4.9 | 40.1 | -. 7 | +-4.1 | 54.1 | $+{ }^{(3)}$ | $-.4$ |
| Explosives | 93.2 | -2.3 | $+14.9$ | 98.0 | $-.4$ | +34.8 | 28.96 | +2.0 | +17.4 | 39.9 | $-3.3$ | +9.4 | 72.6 | +5.5 | +7.4 |
| Fertilizers | 80.4 | +15.2 | +9.6 | 71.6 | +13.4 | $+16.5$ | 14.53 | $-1.5$ | +6.1 | 39.2 | $-.1$ | +8.4 | 37.0 | $-1.5$ | $-1.2$ |
| Paints and varnishes | 127.5 | +1.8 | +5.6 | 121.6 | +4.1 | +14.5 | 26.24 | +2.3 | +8.4 | 42.3 | $+.5$ | +4.3 | 62.3 | +1.8 | +3.8 |
| Rayon and allied products | 362.4 | -. 4 | +3.0 | 321.3 | $+7.7$ | +13.6 | 21.90 | +8.2 | +10.1 | 38.4 | +4.0 | -. 4 | 57.0 | +4.1 | +10.7 |
| Soap.. | 98.8 | $-3.5$ | +3.4 | 104.3 | +2.6 | +12.3 | 25.86 | +6.4 | +8.9 | 40.1 | +.8 | +2.5 | 64.7 | $+5.7$ | +6.3 |
| Petroleum refining | 119.5 | $-1.3$ | +2.4 | 119.5 | +. 3 | +8.0 | 30.95 | +1.6 | +5.4 | 36.5 | $+.1$ | -. 1 | 85.7 | +2.1 | +5.8 |
| Hubber products. | 101.9 | +1.9 | +17.9 | 104.8 | +3.6 | +28.0 | 27.67 | +1.6 | +8.4 +8.4 | 39.1 | +1.2 | +4.1 | 72.5 | +1.1 | +4.6 |
| Rubber boots and shoe | 82.5 | +3.3 | +14.5 | 76.9 | +11.1 | +27.7 | 23.19 | +7.6 | +11.4 | 41.7 | +2.2 | +3.9 | 55.6 | +5.4 | +6.0 |
| Rubber goods, other than boots, shoes, tires, and inner tubes. | 137.8 | $+1.6$ | +13.2 | 139.2 | $+6.7$ | +28.2 | 23.41 | +5.0 | +13.1 | 42.9 | +3.5 | +10.6 | 55.3 | +1.7 | +3.1 |
| Rubber tires and inner tubes. | 92.5 | +1.7 | +22.3 | 99.7 | +. 8 | +28.0 | 31.56 | -. 9 | +4.5 | 35.8 | -. 9 | -. 1 | 88.7 | +. 1 | +3.8 |

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

| Coal mining: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anthracite. | 54.8 | $+6.5$ | $-4.4$ | 55.4 | +37.7 | +(3) | \$29.41 | $+29.3$ | +4.6 | 34.7 | $+26.0$ | +3.7 | 84.0 | +1.3 | +1.1 |
| Bituminous | 83.9 | +1.8 | +6.1 | 85.0 | +5.4 | +22.4 | 25.74 | +3.5 | +15.4 | 32.7 | +3.0 | +14.5 | 79.5 | +.5 | $-.3$ |
| Metalliferous mining | 64.4 | +2.4 | +20.3 | 57.7 | +5.7 | +33.6 | 28.52 | +3.2 | +11.0 | 44.5 | +.8 | +4.0 | 64.3 | +2.6 | $+8.0$ |
| Quarrying and nonmetallic mining | 49.4 | -6.1 | +14.6 | 39.4 | $-9.4$ | +32.6 | 20.14 | $-3.5$ | $+15.7$ | 41.2 | $-4.7$ | +14.6 | 49.3 | +2.2 | +1.6 |
| Crude-petroleum producing....-. | 72.4 | $-1.1$ | $+.7$ | 61.3 | $+1.9$ | +2.3 | 31.31 | +3.1 | +1.6 | 40.3 | +2.2 | $+3.1$ | 76.8 | $+.5$ | $-2.5$ |
| Public utilities: Telephone and telegraph | 73.6 | -. 1 | +5.9 | 82.4 | $+.9$ | + | 29 | $+$ | + | 6 | -. 1 | $+.5$ | 4 |  | 8 |
| Electric light and power and manufactured |  |  |  |  |  |  |  |  |  |  | -. 1 |  |  |  |  |
|  | 03.2 | -. 3 | +7.4 | 93.8 | +2.2 | +9.1 | 32. 45 | +2.5 | $+1.5$ | 40.7 | +2.7 | $+1.6$ | 80.2 | -( ${ }^{(3)}$ | $+.9$ |
| Electric-railroad and motorbus operation and maintenance | 72.5 | -. 7 | +-2.8 | 69.3 | -. 5 | +4.9 | 30.87 | +. 2 | $+1.9$ | 46.9 | $t{ }^{(3)}$ | -. 8 | 64.8 | +. 8 | +3.3 |
| Trade: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wholesale | 91.0 | +1.5 | +4.9 | 72.8 | -. 4 | +6.0 | 28.37 | -1.8 | $+1.1$ | 43.0 | $-.5$ | +. 2 | 65.2 | -1.6 | $+.7$ |
| Retail. | 100.0 | +11.0 | $+7.6$ | 76.0 | $+8.3$ | +9.7 | 20.45 | -2.4 | +1.7 | 44.5 | +. 7 | +1.7 | 50.5 | -3.2 | +. 7 |
| General merchandising. | 145.5 | +33.2 | $+10.6$ | 116.8 | +27.7 | +11.8 | 17.50 | -4.1 | $+1.1$ | 43.8 | +4.5 | +4.0 | 41.7 | -7.6 | -. 9 |
| Other than general merchandising | 88.1 | +3.6 | +6.5 | 67.5 | +2.7 | +8.8 | 23.56 | $-.8$ | +2.2 | 44.9 | $-.3$ | +.9 | 54.3 | $-.5$ | +1.4 |
| Hotels (year-round) ${ }^{4}$ | 84.0 | $-.7$ | +3.9 | 69.8 | $+.3$ | +8.8 | 13.92 | $+1.0$ | +4.7 | 48.2 | $+.9$ | $+1.5$ | 28.9 | -. 1 | +2.8 |
| Laundries... | 87.6 | $+7$ | +8.0 | 76.1 | $+2.2$ | $+12.9$ | 16. 28 | +1.5 | +4.4 | 43.0 | $+1.7$ | +3.5 | 37.4 | $-5$ | +. 9 |
| Dyeing and cleaning | 77. 7 | -4.5 | +5.8 | 57.3 | -4.8 | +8.3 | 18.17 | -. 3 | +2.4 | 41.9 | -. 7 | +1.3 | 44.0 | $+^{(3)}$ | +1.9 |
| Brokerage... | ${ }^{5} 5$ | $+8$ | +11.1 | (b) | +1.6 | +16.5 | 37.80 | +.8 | $+4.9$ | (5) | (b) | (5) | (b) | (5) | $(5)$ |
| Insurance Buiding construction | (5) | +.1 | +1.1 +30.7 | (b) | +.2 | +3.9 +526 | 38. 25 | +.2 | +2.7 +16.7 | (5) | $\stackrel{(b)}{-2}$ | (5) | ${ }^{\text {( })} 0$ | (5) +10 | (5) +7.7 |
| Building construction | (5) | -7.9 | +30.7 | (5) | -9.1 | +52.6 | 28.60 | -1.2 | +16.9 | 33.1 | -2.2 | +8.6 | 86.0 | +1.0 | $+7.7$ |

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 December 1936. The accompanying chart indicates the trend of factory employment and pay rolls as shown by the adjusted indexes. Indexes for 13 nonmanufacturing industries including 2 subgroups under retail trade, by months, January 1935 to December 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 and cover only wage earners. The base used in computing these indexes is the 3 -year average 1923-25 as 100 . In December 1936 reports were received from 25,086 manufacturing establishments employing $4,716,875$ workers whose weekly earnings were $\$ 117,943,756$. The employment reports received from these establishments cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 89 industries included in the monthly survey of the Bureau of Labor Statistics.

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

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

Table 4.-General Indexes of Factory Employment and Pay Rolls, by Months, January 1919 to December 1936, adjusted to 1933 Census of Manufactures!
$[1923-25=100]$


Employment

| 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. 2 | 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 |
| 193 | 76.5 | 81.1 | 84.4 | 86.0 | 86.2 | 84.9 | 82.5 | 83.6 | 80.1 | 82.2 | 80.4 | 81.5 | 82.5 |
| 1935 | 82.2 | 85.1 | 86.2 | 86.3 | 84.8 | 83.2 | 83.5 | 86.3 | 88.1 | 89.4 | 88.8 | 88.3 | 86.0 |
| 1936 | 86.8 | 86.9 | 87.9 | 89.1 | 89.8 | 90.1 | 91.2 | 93.5 | 95.5 | 96.7 | 96.9 | ${ }^{2} 98.1$ | 91.9 |

Pay rolls

| 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 | 56.4 | 55. 5 | 49.4 |
| 1934. | 54. 6 | 61.3 | 65.6 | 68.1 | 68.1 | 66.0 | 61.4 | 63.2 | 59.1 | 62.2 | 60.7 | 64. 2 | 62.9 |
| 1935. | 65.0 | 70.0 | 71.7 | 71.7 | 69.4 | 67.4 | 66.5 | 71.0 | 73.7 | 76.4 | 75.6 | 77.6 | 71.3 |
| 1936. | 73.8 | 73.7 | 77.6 | 79.3 | 80.8 | 81.1 | 80.2 | 83.5 | 83.6 | 89.0 | 90.7 | ${ }^{2} 95.1$ | 82.4 |

1 Comparable revised indexes for each of 89 manufacturing industries, for the durable- and nondurablegoods groups, for 14 divisions under these groups, and for 2 subgroups under textiles are available in mimeographed form and will be supplied on request.
${ }_{2}$ The December 1936 employment index without the adjustment would be 93.8 and the corresponding. pay-roll index 92.7.


Table 5.-Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1935 to December $1936{ }^{1}$
[12-month average 1929 $=100]$

| Month | Anthracite mining |  |  |  | Bituminous-coalmining |  |  |  | Metalliferous mining |  |  |  | Quarrying and nonmetallic mining |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Employment |  | Pay rolls |  | Employment |  | Pay rolls |  | Employment |  | Pay rolls |  | Employment |  | Pay rolls |  |
|  | 1935 | 1936 | 1935 | 1936 | 1935 | 1936 | 1935 | 1936 | 1835 | 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 | 45.5 | 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 | 53.5 | 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 | 46.6 | 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 | 54.8 | 55.4 | 55.4 | 79.1 | 83.9 | 69.5 | 85.0 | 53.5 | 64.4 | 43.2 | 57.7 | 43.1 | 49.4 | 29.7 | 39.4 |
| Average.- | 53.2 | 51.8 | 47.5 | 45.7 | 76.7 | 79.0 | 58.2 | 70.8 | 47.3 | 60.3 | 33.9 | 48.4 | 46.0 | 49.5 | 30.7 | 38.9 |
| Month | Crude-petroleum producing |  |  |  | Telephone and telegraph |  |  |  | Electric light and power and manufactured gas |  |  |  | Electric-railroad and m otorbus operation and maintenance ${ }^{2}$ |  |  |  |
|  | Employment |  | Pay rolls |  | Employment |  | Pay rolls |  | Employment |  | Pay rolls |  | Employment |  | Pay rolls |  |
|  | 1835 | 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 |
| Februar | 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 | 82.31 | 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 | 72.4 | 59.9 | 61.3 | 69.6 | 73.6 | 75.6 | 82.4 | 86.8 | 93.2 | 86.0 | 93.8 | 70.5 | 72.5 | 66. 1 | 69.3 |
| Average.- | 74.9 | 72.9 | 57.9 | 58.6 | 70.1 | 72.2 | 74.5 | 78.9 | 84.8 | 90.5 | 81.4 | 88.8 | 71.2 | 72.0 | 63.7 | 67.2 |

[^1]Table 5.-Indexes of Employment and Pay-Rolls in Selected Nonmanufacturing Industries, January 1935 to December 1936-Continued

| Month | Wholesale trade |  |  |  | Total retail trade |  |  |  | Retail trade-general merchandising |  |  |  | Retail trade-other than general merchandising |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Employment |  | Pay rolls |  | Employment |  | Pay rolls |  | Employment |  | Pay rolls |  | Employment |  | Pay rolls |  |
|  | 1935 | 1936 | 1035 | 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 | 857 | 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 | 370.5 | 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 | 371.5 | 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 | ${ }^{3} 73.1$ | 84. 6 | ${ }^{3} 90.1$ | 63.4 | 70. 1 | 101. 6 | ${ }^{3} 1093$ | 82.0 | 91. 4 | 80. 1 | 85.1 | 59.6 | 65.7 |
| December. | 86.8 | 91.0 | 68.6 | 72.8 | 92.9 | 100.0 | 69.3 | 76.0 | 131.7 | 145.5 | 104.5 | 116.8 | 82.7 | 88.1 | 62.0 | 67.5 |
| A veras | 84.0 | 86.7 | 65.6 | 69.4 | 82.3 | 85.7 | 62.1 | 66.3 | 94.2 | 99.2 | 78.0 | 83.6 | 79.1 | 82.2 | 58.8 | 62.7 |
|  | Month |  |  |  | Year-round hotels |  |  |  | Laundries |  |  |  | Dyeing and cleaning |  |  |  |
|  |  |  |  |  | Employment |  | Pay rolls |  | $\begin{aligned} & \text { Employ- } \\ & \text { ment } \end{aligned}$ |  | Pay rolls |  | Employment |  | Pay rolls |  |
|  |  |  |  |  | 1935 | 1936 | 1935 | 1936 | 1935 | 1936 | 1935 | 1936 | 1935 | 1936 | 1935 | 1936 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Februar |  |  |  |  | 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 | 84.0 | 64.2 | 69.8 | 81.1 | 87.6 | 67.5 | 76.1 | 73.4 | 77.7 | 52.9 | 57.3 |
| A verage.--.---------. |  |  |  |  | 81.0 | 83.6 | 63.4 | 67.2 | 81.5 | 86.1 | 66.9 | 73.9 | 77.5 | 81.2 | 57.9 | 61.7 |

8 Revised.
In table 6 are presented general indexes of factory employment and pay rolls by yearly averages, 1923 to1936, inclusive, and by months January to December 1936, inclusive. Indexes for the same periods, where available, are also presented for each of the 89 manufacturing industries surveyed, for the durable- and nondurable-goods groups, and for the 14 smaller groups and 2 subgroups into which they are classified.

The indexes over the period 1923-33 have been adjusted to conform with the annual averages and totals shown in published reports of the Census of Manufactures. Indexes for subsequent months are subject to revision as adjustments will be made to bring them into conformity with later census data when they become available.

Table 6.-Employment and Pay-Roll Indexes, Manufacturing Industries
[3-year average, $1923-25=100$ ]

| Month and year | General index |  | Iron and steel and their products, not including machinery |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Durablegoods group |  | Nondurablegoods group |  | Group index |  | Blast furnaces, steel works, and rolling mills |  | Bolts, nuts, washers, and rivets |  |
|  | Em-ployment | Pay rolls | Em-ployment | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | Em-ployment | Pay rolls | Em-ployment | Pay rolls | Em-ployment | Pay rolls | Em-ployment | Pay rolls |
| 1923 | 104.1 | 103.3 | 104.6 | 104.1 | 103.5 | 102.4 | 103.9 | 103.2 | 104.5 | 104.5 | 112.5 | 111.5 |
| 1924 | 96.4 | 96.0 | 96.4 | 95.7 | 96.4 | 96.2 | 97.0 | 96.7 | 97.1 | 96.5 | 89.5 | 89.5 |
| 1925. | 99.5 | 100.7 | 99.0 | 100.2 | 100.1 | 101.4 | 99.1 | 100.1 | 98.4 | 99.0 | 98.0 | 99.0 |
| 1926 | 101.3 | 103.7 | 101.7 | 103.8 | 100.9 | 103.6 | 102.5 | 105.0 | 101. 0 | 103.0 | (1) | (1) |
| 1927 | 98.9 | 101.7 | 95.6 | 97.9 | 102.4 | 106.4 | 97.2 | 98.6 | 95.7 | 96.7 | 96.0 | 95.6 |
| 1928 | 98.7 | 102.4 | 96.1 | 100.4 | 101.6 | 104.9 | 96.6 | 100.4 | 96.2 | 100.6 | (1) | (1) |
| 1929 | 104.7 | 109.1 | 103.7 | 108.8 | 105.8 | 109.4 | 102.6 | 107.8 | 103.2 | 109.6 | 114.0 | 122.0 |
| 1930 | 91.3 | 88.5 | 86.1 | 83.0 | 96.9 | 95.5 | 89.2 | 85.7 | 90.3 | 87.7 | ( ${ }^{\text {d }}$ | ( ${ }^{\text {d }}$ |
| 1931 | 77.3 | 67.4 | 67.3 | 56.3 | 87.9 | 81.5 | 69.7 | 55.0 | 68.4 | 53.6 | 74.2 | 56.2 |
| 1932 | 65.5 | 46.4 | 52.8 | 34.4 | 79.2 | 61.7 | 56.5 | 30.4 | 57.8 | 27.4 | 55.2 | 32.5 |
| 1933 | 72.0 | 49.4 | 56.7 | 37.2 | 88.4 | 64.9 | 64.6 | 39.0 | 71.0 | 40.5 | 59.8 | 39.5 |
| 1934 | 82.5 | 62.9 | 69.7 | 51.7 | 96.1 | 77.1 | 76.2 | 52.3 | 83.6 | 55.4 | 66.4 | 51.4 |
| 1935 | 56.0 | 71.3 | 75.5 | 62.6 | 97.3 | 82.5 | 81.1 | 64.4 | 88.4 | 69.8 | 67.6 | 61.4 |
| 1936 | 91.9 | 82.4 | 84.7 | 78.0 | 99.5 | 87.9 | 92.3 | S4. 1 | 100.9 | 93.6 | 75.6 | 78.5 |
| 1986 |  |  |  |  |  |  |  |  |  |  |  |  |
| January | 86.8 | 73.8 | 78.7 | 66.9 | 95.4 | 82.5 | 84.4 | 69.6 | 92.4 | 76.6 | 72.1 | 71.3 |
| February | 86.9 | 73. 7 | 78.6 | 66.6 | 95.8 | 82.7 | 84.4 | 70.3 | 91.8 | 76.8 | 71. 1 | 68.0 |
| March_ | 87.9 | 77.6 | 80.2 | 71.8 | 96.1 | 84. 9 | 85.6 | 75.4 | 92.8 | 83.1 | 70.5 | 69.1 |
| April | 89.1 | 79.3 | 82.3 | 76.0 | 96.3 | 83.5 | 87.8 | 79.7 | 95.5 | 89.1 | 73.6 | 78.2 |
| May | 89.8 | 80.8 | 84.0 | 78.5 | 96.0 | 83.8 | 90.1 | 83.0 | 98.5 | 92.9 | 74.1 | 77.5 |
| June | 90.1 | 81.1 | 84.7 | 79.0 | 95.9 | 83.9 | 91.4 | 84.6 | 99.7 | 94.5 | 74.5 | 74.7 |
| July | 91.2 | 80.2 | 84.6 | 75.9 | 98.2 | 85.6 | 93.0 | 81.8 | 102.8 | 92.5 | 75.5 | 74.3 |
| August | 93.5 | 83.5 | 84.7 | 77.0 | 102.8 | 91.8 | 95.3 | 86.8 | 105.7 | 98.1 | 76.1 | 77.8 |
| September | 95.5 | 83.6 | 85.7 | 77.2 | 105.9 | 91.6 | 97.2 | 87.1 | 107.2 | 97.7 | 76.7 | 77.4 |
| October. | 96.7 | 89.0 | 89.2 | 85.3 | 104.7 | 93.7 | 98.9 | 93.2 | 107.9 | 101.8 | 78.5 | 86.6 |
| November | 96.9 | 90.7 | 91.0 | 88.9 | 103.3 | 92.9 | 99.3 | 95.8 | 107.7 | 105.0 | 80.6 | 88.6 |
| December | 99.1 | 95.1 | 92.7 | 93.1 | 104.0 | 97.6 | 100.4 | 102.0 | 109.3 | 115.4 | 83.8 | 98.4 |


| Month_and year | Iron and steel and their products, not including machinery-Continued |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cast-iron pipe |  | Cutlery (except silver and plated cutlery) and edge tools |  | $\begin{aligned} & \text { Forgings-- } \\ & \text { iron and steel } \end{aligned}$ |  | Hardware |  | Plumbers' supplies |  | Steam and hot-water heating apparatus and steam fittings |  |
|  |  | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | Em-ployment | Pay rolls | Em-ployment | Pay rolls | Em-ployment | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | Em-ployment | Pay rolls | Em-ployment | Pay rolls |
| 1923 | 96.0 | 94.6 | 99.6 | 97.9 | 116.5 | 113.9 | 101.6 | 100.1 | 89.9 | 89.5 | 102. 2 | 101.7 |
| 1924 | 101.6 | 101. 7 | 102.4 | 101.8 | 97.4 | 97.4 | 96.6 | 96.3 | 100.1 | 100.0 | 97.7 | 98.0 |
| 1925 | 102.4 | 103.7 | 98.0 | 100.3 | 86.1 | 88.7 | 101.8 | 103. 6 | 110.0 | 110.5 | 100. 1 | 100. 3 |
| 1926 | 110.1 | 110.5 | (1) | (1) | (1) | (1) | 100.8 | 106. 3 | (1) | (1) | 102.6 | 105. 5 |
| 1927 | 101.8 | 98.2 | 94.6 | 93.7 | 65.5 | 66.7 | 93.0 | 96.1 | 96.7 | 94.6 | 99.3 | 101.6 |
| 1928 | 92.4 | 85.3 | (1) | (1) | (1) | (1) | 92.8 | 96.0 | (1) | (1) | 92.4 | 94.4 |
| 1929 | 87.8 | 85.2 | 89.5 | 87.5 | 87.8 | 97.8 | 101.7 | 106.9 | 92.5 | 87.2 | 91.6 | 92.4 |
| 1930 | 80.4 | 75.3 | (1) | (i) | (1) | (1) | 88.6 | 81.6 | (1) | (1) | 78.3 | 69.0 |
| 1931 | 71.5 | 55.1 | 74.2 | 60.4 | 41.9 | 32.5 | 70.3 | 58.9 | 65.1 | 48.0 | 67.1 | 46.3 |
| 1932 | 46.3 | 25.1 | 67.4 | 47.2 | 32.1 | 17.9 | 58.9 | 38.4 | 48.3 | 27.3 | 47.4 | 26.8 |
| 1933 | 42.1 | 22.1 | 64.5 | 43.8 | 33.4 | 20. 9 | 63.4 | 42.6 | 52.6 | 30.3 | 51.6 | 30.6 |
| 1934 | 54.5 | 30.5 | 77.0 | 56.5 | 46.4 | 34.7 | 77.8 | 59.6 | 52.2 | 31.6 | 49.6 | 34.3 |
| 1935 | 53.6 | 31.1 | 77.3 | 62.1 | 51.9 | 42.0 | 75.8 | 68.6 | 75.4 | 51.1 | 54.8 | 41.4 |
| 1936 | 63.1 | 44.3 | 79.3 | 69.9 | 59.5 | 50.5 | 80.4 | 79.8 | 85.0 | 61.3 | 66.5 | 55.8 |
| 1986 |  |  |  |  |  |  |  |  |  |  |  |  |
| January | 56.8 | 35.9 | 78.9 | 66.2 | 57.2 | 45.9 | 81.2 | 77.1 | 82.4 | 53.8 | 5.5 | 44.8 |
| February | 57.8 | 37.4 | 79.4 | 66.5 | 56.3 | 46. 4 | 79.6 | 72.8 | 83.9 | 59.0 | 60.0 | 47.3 |
| March | 58.9 | 38.1 | 78.5 | 64.7 | 56.6 | 48.3 | 77.8 | 74.0 | 84.7 | 61.8 | 60.8 | 48.9 |
| April | 60.5 | 40.6 | 77.3 | 66.0 | 56.9 | 48.6 | 78.1 | 76.8 | 84.0 | 58.2 | 62.7 | 50.2 |
| May | 62.0 | 44.5 | 75.9 | 63.7 | 58.3 | 49.4 | 77.5 | 78.7 | 84.8 | 62.7 | 64.5 | 53.2 |
| June. | 64.2 | 45.9 | 76.2 | 67.0 | 58.6 | 48.2 | 77.2 | 77.8 | 85.3 | 63.2 | 65.2 | 55.2 |
| July | 65.6 | 46.2 | 73.4 | 61.2 | 58.5 | 45.7 | 77.1 | 71.7 | 85.4 | 56.1 | 65.8 | 53.5 |
| Augus | 66.4 | 47.8 | 76. 4 | 68.2 | 58.5 | 48.0 | 69.1 | 64.8 | 86.2 | 62.0 | 68.9 | 59.6 |
| September | 65.9 | 44.8 | 79.4 | 69.6 | 59.2 | 47.3 | 74.6 | 71.4 | 83.9 | 59.6 | 72.1 | 58.4 |
| October. | 66.3 | 49.6 | 83.0 | 78.3 | 60.7 | 51.8 | 84.8 | 92.9 | 85.6 | 66.0 | 73.0 | 65.5 |
| November | 65.6 | 47.8 | 85.8 | 82.5 | 64.4 | 58.3 | 916 | 1062 | 85.8 | 63.3 | 73.7 | 65.9 |
| December | 66.9 | 52.5 | 87.1 | 85.4 | 68.2 | 67.5 | 95.7 | 93.5 | 87.4 | 69.6 | 73.2 | 67.4 |

${ }^{1}$ Data not available.

Table 6.-Employment and Pay-Roll Indexes, Manufacturing Industries-Con.


1 Data not available.

Table 6.-Employment and Pay-Roll Indexes, Manufacturing Industries-Con.

| Month and year | Machinery, not including transportation equipment-Continued |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Foundry and machine-shop products |  | Machine tools |  | Radios and phonographs |  | Textile machinery and parts |  | Typewriters and parts |  |
|  | Employ. | $\begin{aligned} & \text { Pr } \\ & \text { rolls } \end{aligned}$ | Employ- | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | $\underset{\text { ment }}{\text { Employ- }}$ | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | $\underset{\text { Employ }}{\text { Emp }}$ | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | $\left\|\begin{array}{c} \text { Employ- } \\ \text { ment } \end{array}\right\|$ | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ |
| 1923 | 108.4 | 106.7 | 108.1 | 105.3 | 89.5 | 88.1 | 116.4 | 117.5 | 100.0 | 98.4 |
| 1924 | 93.9 | 93.6 | 92.0 | 90.8 | 105.9 | 107. 5 | 92.7 | 86.8 | 100.0 | 100.0 |
| 1925 | 97.7 | 99.7 | 99.9 | 103.9 | 104.6 | 104.4 | 90.9 | 95.7 | 100.0 | 101. 6 |
| 1926. | 103.3 | 107.4 | 119.3 | 125. 3 | ${ }^{1}$ (1) | (1) | 90.1 | ${ }^{95.7}$ | ${ }^{(1)}$ | (1) |
| 1927. | 97.7 | 99.9 | 114.3 | 116.3 | (1) | (1) | 85.3 | ${ }^{93.2}$ | 111.5 | 113.0 |
| 1928 | 98.8 | 102.6 | 127.9 | 139.8 |  |  | 78.5 | 84.2 | (1) 1 | (1) |
| 1929 | 111.3 | 117.9 | 167.2 | 187.6 | 204.5 | 202.9 | 88.1 | 96.7 | 121.1 | ${ }^{130.1}$ |
| 1930 | 94.2 | 89.0 | 126. 0 | 121.9 | 141.0 | 139.8 | 71.2 | 66. 0 | (1) |  |
| 1931. | 69.7 | 55.4 | 74.7 | 61.5 | 124.4 | 96.5 | 61.3 | 54.3 | 77.8 | 60.0 |
| 1932 | 51.1 | 31.9 | 42.1 | 29.6 | 80.4 | 60.5 | 48.4 | 35.1 | 61.6 | 35.8 |
| 1933 | 54.6 | 34.9 | 44.9 | 30.9 | 112.1 | 81.4 | 60.5 | 47.9 | 68.5 | 44.1 |
| 1934 | 70.4 | 52.3 | 73.0 | 56.1 | 167.6 | 114.0 | 68.5 | 55. 3 | 101.1 | 83.2 |
| 1935 | 76.9 | 62.7 | 93.2 | 80.1 | 173.6 | 124. 4 | 64.0 | 53.8 | 107.0 | 87.5 |
| 1936 | 90.4 | 83.1 | 117.6 | 111.0 | 189.9 | 143.5 | 71.6 | 65.6 | 116.2 | 104.3 |
| $\begin{array}{r} 1996 \\ \text { Jampary } \end{array}$ | 81.8 | 70.2 | 108.2 | 99.6 | 176.1 | 120.6 | 69.0 | 63.2 | 111.6 | 90.2 |
| February | 82.8 | 71.9 | 109.5 | 101.3 | 162.0 | 109.0 | 70.1 | 6.4 | 110.7 | 92.5 |
| March | 84.4 | 75.4 | 110.5 | 102.4 | 153.8 | 104.9 | 70.5 | 65.6 | 112.2 | 93.5 |
| April | 86.7 | 79.4 | 112.0 | 102.5 | 155.8 | 112.8 | 70.2 | 63.5 | 113.3 | 97.9 |
| May | 89.1 | 82.5 | 113.9 | 106.9 | 178.0 | 135.6 | 69.9 | 64.6 | 114.2 | 99.7 |
| June. | 90.0 | 83.7 | 116.1 | 109.6 | 200.4 | 154.9 | 70.3 | 62.4 | 84,3 | 72.5 |
| July | 91.2 | 81.4 | 118.4 | 108.4 | 193.5 | 143.3 | 70.6 | 62.6 | 99.3 | 90.4 |
| August | 92.5 | 83.9 | 114.2 | 108.1 | 210.7 | 164.7 | 71.4 | 64.8 | 111.5 | 102. 1 |
| September | 94.3 | 85.0 | 124.1 | 111.2 | 216.3 | 160.9 | 72.8 | 63.3 | 121.2 | 112.4 |
| October-- | 95.6 | ${ }_{93}^{90.2}$ | 126.1 | 122.4 | 218.3 | 177.9 | 73.3 | 66.3 | 133.1 | 128.9 |
| November | 97.0 | 93.3 | 127.8 | 124.4 | ${ }^{210.6}$ | 169. 4 | 74.0 | 67.4 | 139.0 | 134.4 |
| December | 99.4 | 100.2 | 130.7 | 135.5 | 202.7 | 167.5 | 76.9 | 78.8 | 143.6 | 137.6 |


| Month and year | Transportation equipment |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Group index |  | Aircraft |  | Automobiles |  | Cars, electric and steam railroad |  | Locomo-tives |  | Shipbuilding |  |
|  | Em-ployment | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | Em-ployment | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | Em-ployment | Pay rolls | Employ. ment | Pay rolls | Em-ployment | Pay rolls | Em-ployment | Pay rolls |
| 1923 | 107.6 | 107.7 | 103.6 | 103.4 | 100.6 | 100.6 | 126.9 | 128.7 | 157.7 | 168.1 | 114.5 | 112.8 |
| 1924. | 93.1 | 90.8 | 100.0 | 100.0 | 93.6 | 90.6 | 93.8 | 94.3 | 76.4 | 72.9 | 93.2 | 94.9 |
| 1925. | 99.3 | 101. 5 | 96.4 | 96.6 | 105. 8 | 108.8 | 79.3 | 77.0 | 65.9 | 59.0 | 92.3 | 92.3 |
| 1926 | 99.1 | 99.5 | (1) | (1) | 104.8 | 104.8 | 75.0 | 70.9 | 86.2 | 80.6 | 97.4 | 100.9 |
| 1927 | 87.9 | 89.8 | 157.9 | 156.8 | 91.9 | 93.3 | 59.9 | 60.4 | 66.7 | 57.2 | 101.3 | 108.3 |
| 1928. | 96. 2 | 101.6 | (1) | (1) | 108.1 | 113.9 | 48. 4 | 48. 2 | 45.4 | 39.6 | 79.5 | 85.0 |
| 1929 | 103.5 | 105.4 | 525.2 | 501.5 | 111.3 | 111.6 | 63.1 | 63.1 | 56.8 | 58.3 | 101.3 | 109.7 |
| 1930 | 80.2 | 70.2 | (1) | (1) | 80.3 | 65.7 | 54.7 | 53.2 | 52.3 | 51.5 | 107.3 | 113.5. |
| 1931 | 68.3 | 52.3 | 353.1 | 354.8 | 71.0 | 53.4 | 29.6 | 25.4 | 28.0 | 18.1 | 83.0 | 76.8 |
| 1932 | 55.3 | 37.8 | 244.2 | 234.3 | 60.5 | 38.8 | 24.9 | 20.5 | 17.7 | 9.0 | 66.7 | 54.1 |
| 1933 | 54.5 | 35.6 | 279.6 | 236.2 | 60.6 | 38.3 | 22.5 | 14.6 | 12.2 | 6.0 | 56.8 | 42.1 |
| 1934 | 83.5 | 61.8 | 338.0 | 265.0 | 94.5 | 68.2 | 39.1 | 31.3 | 25.7 | 14.0 | 71.7 | 58.6 |
| 1935 | 95.7 | 79.2 | 363.5 | 301.0 | 110.4 | 89.5 | 39.3 | 34.1 | 23.9 | 13.2 | 76.5 | 68.5 |
| 1936 | 103.4 | 94.2 | 578.6 | 482.4 | 114.1 | 102.0 | 53.8 | 51.3 | 33.7 | 21.9 | 96.2 | 95.3. |
| January 1936 |  |  | 440.0 | 370.9 | 117.9 | 95.7 |  | 36.8 |  |  | 85.8 | 2. 5 |
| February | 99.8 | 77.1 | 474.7 | 388.3 | 113.6 | 83.9 | 43.9 | 39.7 | 24.0 | 13.7 | 83.9 | 80.5 |
| March. | 100.9 | 87.0 | 513. 6 | 420.1 | 112.6 | 94.4 | 49.7 | 46.0 | 26.6 | 15.7 | 92.7 | 90.9 |
| April | 104. 9 | 99.9 | 544.0 | 441.8 | 115.6 | 109.1 | 55.0 | 52.4 | 29.0 | 18.0 | 102.1 | 102.2 |
| May | 106. 3 | 101. 6 | 582.1 | 491.3 | 117.2 | 111.1 | 55.2 | 51.6 | 32.6 | 20.7 | 100.9 | 102.3 |
| Jane.- | 105.3 | 98.8 | 592.7 | 508.7 | 115.8 | 107. 1 | 57.1 | 54.0 | 35. 2 | 22.4 | 98.0 | 98.1 |
| July | 101.9 | 92.6 | 620.7 | 486. 0 | 111.1 | 99.5 | 54.2 | 50.5 | 37.2 | 24.3 | 98.9 | 99.0 |
| August | 93.0 | 81.0 | 612.7 | 479.5 | 98.3 | 83.4 | 59.0 | 55.3 | 36.1 | 24.6 | 99.4 | 97.8 |
| September | 87.3 | 76.3 | 606.2 | 491.5 | 90.3 | 77.3 | 57.3 | 52.6 | 37.6 | 25.8 | 102.4 | 99.4 |
| October- | 102.1 | 95.8 | 619.0 | 527.7 | 110.0 | 101.5 | 58.7 | 59.7 | 39.5 | 27.0 | 102.7 | 103.2 |
| November. | 115.0 | 113.4 | 646.4 | 552.9 | 128.3 | 125.8 | 57.5 | 57.6 | 40.5 | 28.2 | 97.4 | 97.3 |
| December | 122.1 | 120.9 | 690.9 | 619.9 | 138.7 | 135.7 | 56.8 | 59.9 | 43.8 | 31.4 | 89.9 | 90.6 |

${ }^{1}$ Data not available.

Table 6.-Employment and Pay-Roll Indexes, Manufacturing Industries-Con.

| Month and year | Railroad repair shops |  |  |  |  |  | Nonferrous metais and their products |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Group index |  | Electric railroad |  | Steam railroad |  | Group index |  | $\begin{aligned} & \text { Aluminum } \\ & \text { manu- } \\ & \text { factures } \end{aligned}$ |  | Brass, bronze, and copper products |  |
|  | Em-ployment | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | Em-ployment | Pay rolls | Em-ployment | Pay <br> rolls | Em-ployment | Pay rolls | Em-ployment | Pay | Em-ployment | Pay |
| 1923 | 108.6 | 109.6 | 104.0 | 101.5 | 108.9 | 110.2 | 105.4 | 103. 7 | 106.3 | 100.2 | 103.4 | 101. 3 |
| 1924 | 96.4 | 95.6 | 99.1 | 98.8 | 96.3 | 95.5 | 96. 7 | 95.9 | 100.0 | 100.0 | 96.6 | 95.6 |
| 1925 | 95.0 | 94.8 | 96.9 | 99.7 | 94.8 | 94.3 | 97. 9 | 100.4 | 93.7 | 99.8 | 100.0 | 103.1 |
| 1926 | 95.5 | 96.1 | 96.5 | 100.4 | 95.4 | 95.7 | (1) | (1) | (1) | (1) | 102.7 | 107.4 |
| 1927 | 89.0 | 92.0 | 94.1 | 99.8 | 88.6 | 91.4 | 96.5 | 100.5 | 96.6 | 105.5 | 101.2 | 104.7 |
| 1928 | 83.8 | 87.2 | 89.6 | 97.9 | 83.3 | 86.3 | (1) | (1) | (1) | (1) | 107.3 | 115.6 |
| 1929 | 88.6 | 90.4 | 87.8 | 97.2 | 82.2 | 89.8 | 111.4 | 116.4 | 138.4 | 150.0 | 121.5 | 128.3 |
| 1930 | 73.4 | 76.1 | 85.8 | 93.0 | 72.4 | 74.8 | (I) | (1) | (1) | (1) | 96.6 | 88.7 |
| 1931 | 64.1 | 61.7 | 79.3 | 80.2 | 62.9 | 60.4 | 74.0 | 63.1 | 90.2 | 81.3 | 74.9 | 60.3 |
| 1932 | 52.5 | 42.0 | 70.0 | 64.3 | 51.1 | 40.4 | 60.4 | 40.3 | 73.0 | 46.7 | 62.5 | 39.1 |
| 1933 | 50.2 | 40.3 | 62.9 | 55.1 | 49.2 | 39.3 | 66.7 | 43.8 | 89.1 | 60.1 | 73.4 | 48.0 |
| 1934 | 53.5 | 46.5 | 62.4 | 58.0 | 52.8 | 45.8 | 81.1 | 59.8 | 91.8 | 66.3 | 84.9 | 61.7 |
| 1935 | 51.7 | 48.8 | 61.8 | 59.7 | 51.0 | 48.2 | 80.2 | 70.9 | 95.8 | 79.6 | 93.0 | 73.9 |
| 1936 | 58.3 | 59.4 | 62.5 | 62.9 | 58.0 | 58.3 | 99.6 | 85.2 | 108.7 | 98.6 | 103.8 | 89.7 |
| 1936 |  |  |  |  |  |  |  |  |  |  |  |  |
| January | 54.0 | 50.5 | 61.5 | 60.8 | 53.4 | 49.8 | 95.0 | 76.1 | 99.5 | 86.9 | 99.6 | 81.6 |
| Februar | 56.1 | 55.9 | 61.9 | 62.5 | 55.7 | 55.5 | 94.9 | 76.0 | 100.3 | 89.4 | 99.1 | 80.5 |
| March | 58.0 | 60.9 | 62.2 | 63.6 | 57.7 | 60.8 | 94.6 | 77.6 | 104.3 | 93.2 | 98.8 | 80.0 |
| April | 57.8 | 58.6 | 62.5 | 62.5 | 57.4 | 58.4 | 94.4 | 77.8 | 103.2 | 91.8 | 98.7 | 81.1 |
| May | 58.0 | 59.5 | 62.3 | 62.7 | 57.7 | 59.4 | 94.7 | 79.0 | 103.6 | 91.8 | 99.7 | 83.9 |
| June | 58.5 | 60.1 | 62.0 | 61.9 | 58.2 | 60.1 | 95.5 | 79.9 | 107.2 | 94.3 | 99.9 | 83.8 |
| July | 56.9 | 56.0 | 62.2 | 61.7 | 56.5 | 55.7 | 94.5 | 77.4 | 110.5 | 96.1 | 100. 1 | 82.8 |
| August | 58.4 | 57.7 | 62.4 | 61.3 | 58.1 | 57.5 | 98.4 | 82.9 | 111.0 | 100.4 | 102. 7 | 89.4 |
| Septembe | 59.3 | 59.2 | 62.4 | 61.3 | 59.1 | 59.1 | 102.9 | 88.0 | 111.5 | 98.9 | 107. 1 | 95.2 |
| October | 60.4 | 63.9 | 63.4 | 63.5 | 60.2 | 6.4 .0 | 108.3 | 99.7 | 117.2 | 110.6 | 111.3 | 102.9 |
| November | 60.6 | 65.2 | 63.3 | 65.5 | 60.4 | 65.4 | 110.0 | 102. 0 | 118.8 | 114.9 | 112.9 | 103.8 |
| Iecember. | 61.2 | 65.5 | 63.4 | 67.4 | 61.0 | 65.6 | 111.6 | 105. 5 | 117.7 | 114.7 | 116.2 | 111.6 |
| M onth and year | Nonferrous metals and their products-Continued |  |  |  |  |  |  |  |  |  |  |  |
|  | Clocks, watches, and timerecording devices |  | Jewelry |  | Lighting equipment |  | Silverware and plated ware |  | Smelting and refin-ing-copper, lead, and zinc |  | Stamped and enameled ware |  |
|  | Em-ployment | Pay rolls | Em. ployment | Pay rolls | Em-ployment | Pay rolls | Em: ployment | Pay rolls | Em. ployment | Pay rolls | Em-ployment | Pay rolls |
| 1923 | 97.6 | 95.7 | 105.1 | 105.9 | 101.3 | 96.7 | 100.6 | 98.1 | 102.8 | 103.2 | 110.1 | 111.2 |
| 1924 | 100.0 | 100.0 | 99.8 | 91.8 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 95.7 | 92.8 |
| 1925 | 102.4 | 104.3 | 95.1 | 102.3 | 98.7 | 103.3 | 99.4 | 101.9 | 97.2 | 96.8 | 94.2 | 96.0 |
| 1926 | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | 96.9 | 98.3 |
| 1927 | 102.9 | 108.1 | 96.2 | 106.9 | 92.9 | 97.3 | 98.4 | 102.3 | 89.9 | 90.4 | 93.0 | 95.7 |
| 1928 | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (b) | (i) | (1) | 104.1 | 108.0 |
| 1929. | 98.2 | 102.2 | 111.4 | 113.3 | 104.2 | 110.6 | 92.6 | 96.5 | 91.3 | 99.4 | 120.5 | 125.6 |
| 1930 | (i) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | 106. 3 | 194.9 |
| 1931 | 74.3 | 62.2 | 74.1 | 65.6 | 65.3 | 60.4 | 65.3 | 54.3 | 54.4 | 45.9 | 85.4 | 76.8 |
| 1932 | 58.1 | 38.0 | 59.5 | 42.8 | 47.0 | 35.3 | 53.7 | 36.8 | 41.4 | 26.6 | 79.5 | 56.5 |
| 1933 | 58.9 | 39.7 | 59.3 | 37.7 | 46.5 | 31.6 | 54.1 | 35.1 | 42.9 | 27.4 | 97.2 | 66.7 |
| 1934 | 79.2 | 62.4 | 72.1 | 50.0 | 59.0 | 44.2 | 67.2 | 49.0 | 59.1 | 29.8 | 119.4 | 90.3 |
| 1935 | 94.6 | 80.1 | 78.4 | 54.9 | 68.2 | 55. 9 | 68.7 | 53.0 | 70.2 | 50.8 | 132.2 | 110.3 |
| 1036 | 108.9 | 98.7 | 82.9 | 60.4 | 80.9 | 73.3 | 65.8 | 53.6 | 78.1 | 63.5 | 142.5 | 130.1 |
| 1996 |  |  |  |  |  |  |  |  |  |  |  |  |
| January | 103. 1 | 83.9 | 74.3 | 50.9 | 76.1 | 66.6 | 65.1 | 48. 1 | 78.4 | 59.8 | 136.3 | 114.4 |
| Februar | 104.3 | 90.1 | 76.4 | 50.2 | 75.4 | 62.6 | 64.8 | 47.6 | 78.2 | 60.0 | 134.8 | 114.4 |
| March | 104.9 | 91.1 | 74.6 | 50.6 | 72.6 | 61.7 | 65.0 | 50.9 | 77.6 | 62.0 | 134.6 | 121.5 |
| April | 103.1 | 88.3 | 72.8 | 49.5 | 71.5 | 68.6 | 63.9 | 47. 5 | 76.8 | 59.9 | 139. 1 | 127.4 |
| May | 103.4 | 89.6 | 72.3 | 50.5 | 75. 5 | 68.4 | 63.5 | 47.7 | 76.3 | 61.3 | 136.8 | 122.6 |
| June | 103.8 | 91.7 | 73.4 | 51.8 | 75.8 | 68.8 | 62.4 | 46.1 | 77.5 | 63.1 | 138.6 | 124.6 |
| July | 102.8 | 94.0 | 75.5 | 50.6 | 72.8 | 63.2 | 53.5 | 38.7 | 77.6 | 62.0 | 135.0 | 115.9 |
| August | 108.6 | 95.4 | 85.0 | 61.8 | 77.0 | 65.6 | 64. 6 | 49.8 | 76.9 | 62.2 | 138.4 | 123.5 |
| September | 112.9 | 104.5 | 95.3 | 72.2 | 84.9 | 74.8 | 67.1 | 55.0 | 78.0 | 64.0 | 143.4 | 123.0 |
| October. | 117.7 | 116.1 | 101. 9 | 84.1 | 90.9 | 82.8 | 71.8 | 68.4 | 79.1 | 67.8 | 154.3 | 154.4 |
| November | 120.5 | 121.9 | 100.7 | 78.0 | 97.2 | 97.0 | 73.8 | 71.6 | 79.4 | 70.0 | 156.0 | 155.0 |
| December. | 121.3 | 117.9 | 92.8 | 74. 6 | 101.4 | 104.2 | 73.5 | 71.3 | 81.1 | 70.1 | 162.4 | 164.2 |

Table 6.-Employment and Pay-Roll Indexes, Manufacturing Industries-Con.

| Month and year | Lumber and allied products |  |  |  |  |  |  |  | Stone, clay, and <br> glass products <br> Group index |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Group index |  | Furniture |  | Lumber, millwork |  | Lumber, sawmills |  |  |  |
|  | Employment | Pay rolls | Employment | Pay rolls | Employment | Pay rolls | Employment | Pay rolls | $\left\lvert\, \begin{gathered} \text { Employ- } \\ \text { ment } \end{gathered}\right.$ | Pay rolls |
| 1092 | 101.5 | 100.0 | 98.1 | 96.9 | 96.7 | 95.6 | 103.6 | 102.5 | 100.4 | 98.3 |
| 1924 | 98.3 | 98.5 | 96.2 | 96.4 | 98.8 | 99.3 | 98.8 | 09.2 | 98.9 | 100.5 |
| 1925 | 100.2 | 101.5 | 105.7 | 106. 7 | 104.5 | 105.1 | 97.6 | 98.3 | 100.7 | 101,2 |
| 1926 | 100.3 | 102.4 | 110.3 | 113.4 | 102.7 | 103.3 | 95.5 | 96.6 | 103.8 | 104.2 |
| 1927. | 93.9 | 96.6 | 108.8 | 111.8 | 90.7 | 90.5 | 86.6 | 89.0 | 99.9 | 100.5 |
| 1928 | 92.1 | 94.1 | 106.7 | 107.5 | 86.7 | 86.1 | 84.4 | 87.2 | 95.7 | 96.2 |
| 1929 | 95.2 | 97.3 | 111.9 | 114.0 | 84.6 | 83.5 | 87.7 | 90.7 | 93.8 | 98.7 |
| 1930 | 75.8 | 72.5 | 89.0 | 80.7 | 64.4 | 61.1 | 67.6 | 67.6 | 80.2 | 76.9 |
| 1931 | 56.0 | 46.2 | 73.7 | 59.2 | 51.1 | 42.0 | 41.1 | 33.6 | 63.7 | 53.9 |
| 1932 | 43.6 | 26.6 | 57.4 | 34.6 | 35.0 | 21.4 | 31.7 | 18.4 | 46.7 | 30.6 |
| 1933 | 49.9 | 30.3 | 61.0 | 35.9 | 33.2 | 18.7 | 39.6 | 24.4 | 49.4 | 30.8 |
| 1934 | 54.5 | 36.9 | 62.4 | 41.5 | 35.4 | 22.3 | 45.0 | 30.9 | 57.6 | 39.5 |
| 1935 | 58.7 | 44.6 | 70.2 | 52.0 | 41.8 | 31.6 | 46.4 | 34.9 | 58.6 | 44.2 |
| 1936. | 64.7 | 55.3 | 78.2 | 63.6 | 49.3 | 43.2 | 50.2 | 42.6 | 64.2 | 54.2 |
| 1986 |  |  |  |  |  |  |  |  |  |  |
| January | 59.2 | 45.9 | 70.9 | 51.3 | 43.7 | 34.6 | 46. 5 | 36.4 | 55.2 | 41.9 |
| February | 59.2 | 45.8 | 71.8 | 53.8 | 43.9 | 34.4 | 46.2 | 35.2 | 55.3 | 42.4 |
| March. | 61.3 | 50.3 | 71.6 | 55.1 | 45. 2 | 37.6 | 48.8 | 40.4 | 68.9 | 48.2 |
| April. | 62.8 | 52.3 | 71.3 | 55.6 | 46.6 | 39.5 | 50.6 | 42.9 | 63.0 | 52.4 |
| May. | 64.1 | 54.4 | 72.2 | 56.1 | 47.8 | 42.0 | 51.9 | 45.1 | 65.3 | 55. 6 |
| June. | 64.8 | 55.8 | 73.6 | 58.7 | 49.7 | 44.0 | 52.0 | 45.4 | 66.4 | 55.8 |
| July | 65.6 | 54.5 | 76.9 | 59.9 | 49.5 | 42.3 | 51.9 | 43.3 | 67.0 | 55.3 |
| August | 66.6 | 58.9 | 81.7 | 68.4 | 52.2 | 46.9 | 50.9 | 44.8 | 68.0 | 58.3 |
| September | 68.2 | 60.3 | 85.0 | 71.1 | 52.6 | 46.5 | 51.9 | 45.8 | 68.2 | 58.2 |
| October-- | 69.2 | 63.5 | 86.9 | 76.9 | 53.4 | 49.8 | 52.4 | 47.1 | 69.1 | 62.5 |
| November | 67.8 | 60.8 | 88.3 | 77. 6 | 53.4 | 49.6 | 49.9 | 42.7 | 67.3 | 61.1 |
| December. | 67.1 | 60.5 | 87.8 | 78.3 | 54.1 | 50.7 | 49.0 | 41.6 | 67.1 | 59.1 |
| Month and year | Stone, clay, and glass products-Continued |  |  |  |  |  |  |  |  |  |
|  | Brick, tile, and terra cotta |  | Cement |  | Glass |  | Marble, granite, slate, and other products |  | Pottery |  |
|  | $\underset{\text { ment }}{\text { Employ- }}$ | Pay rolls | $\underset{\text { ment }}{\text { Employ- }}$ | Pay rolls | Employment | Pay rolls | $\underset{\text { ment }}{\text { Employ- }}$ | Pay rolls | Employment | Pay rolls |
| 1923. | 100.6 | 98.1 | 95.0 | 94.6 | 105. 1 | 103.4 | 104.5 | 101.7 | 98.5 | 97.8 |
| 1924 | 98.7 | 101. 1 | 101. 0 | 102.9 | 95.5 | 96.9 | 100.0 | 100.0 | 103.8 | 104.3 |
| 1925 | 100.7 | 100.8 | 104.0 | 102.5 | 99.4 | 99.7 | 95.5 | 98.3 | 97.7 | 97.9 |
| 1926 | 102.9 | 101.8 | 102.1 | 100.9 | 103.8 | 103.9 | (1) | (1) | 99.7 | 99.3 |
| 1927 | 99.0 | 96.7 | 98.3 | 101.1 | 94.3 | 93.6 | 105. 6 | 113.0 | 98.0 | 94.5 |
| 1928 | 92.3 | 87.5 | 92.6 | 96.9 | 92.6 | 94.5 | (1) | (1) | 98.8 | 93.9 |
| 1929 | 91.5 | 84.7 | 90.3 | 92.9 | 96.7 | 100.9 | 98.7 | 104.0 | 94.7 | 91.4 |
| 1930 | 72.2 | 62.2 | 84.6 | 83.4 | 83.8 | 82.9 | (1) | (1) | 82.9 | 74.1 |
| 1931 | 50.2 | 35.2 | 65.8 | 56.9 | 71.5 | 66.5 | 72.2 | 68.8 | 72.3 | 56.4 |
| 1932 | 31.8 | 15.5 | 45.8 | 29.8 | 59.6 | 45.5 | 47.9 | 35.3 | 58.6 | 35.9 |
| 1933 | 31.3 | 15.0 | 42.8 | 26.4 | 71.3 | 52.0 | 43.1 | 27.7 | 63.2 | 37.4 |
| 1934 | 34.8 | 20.0 | 51.7 | 37.7 | 91.6 | 70.7 | 39.6 | 26.5 | 72.2 | 46.4 |
| 1935 | 36.3 | 24. 2 | 52.0 | 39.7 | 96.3 | 81.6 | 34.2 | 24.5 | 72.6 | 51.1 |
| 1936. | 45.6 | 35.7 | 57.4 | 51.6 | 98.6 | 91.1 | 39.7 | 32.6 | 73.6 | 58.0 |
| 1986 |  |  |  |  |  |  |  |  |  |  |
| January | 36.3 | 25.0 | 39.9 | 29.0 | 93.8 | 81.0 | 28.7 | 19.7 | 69.4 | 50.7 |
| February | 35.1 | 24.2 | 39.9 | 29.4 | 95.6 | 82.5 | 28.0 | 18.6 | 70.9 | 55.1 |
| March.- | 38.0 | 28.0 | 46. 6 | 39.3 | 96.8 | 87.7 | 34.0 | 25.9 | 74.5 | 59.8 |
| April. | 43.0 | 32.3 | 54.9 | 47.3 | 99.0 | 90.7 | 38.0 | 31.8 | 74.9 | 59.1 |
| May. | 46.7 | 36.9 | 61.3 | 54.5 | 99.2 | 91.6 | 39.9 | 37.4 | 73.5 | 54.9 |
| June. | 49.4 | 39.3 | 61.8 | 56.3 | 99.2 | 90.5 | 42. 6 | 36.5 | 71.4 | 51.9 |
| July .- | 50.3 | 39.1 | 63.0 | 58.0 | 98.9 | 87.7 | 44.6 | 37.4 | 70.1 | 50.0 |
| August | 50.7 | 40. 3 | 64.1 | 60.2 | 99.8 | 92.8 | 46.5 | 40.3 | 71.5 | 54.6 |
| Septernber. | 50.2 | 39.4 | 65.1 | 61.0 | 99.3 | 91.2 | 45.4 | 37.8 | 75.8 | 61.5 |
| October | 49.6 | 41.3 | 65.5 | 62.0 | 103.6 | 103.0 | 44.3 | 38.1 | 77.1 | 66.1 |
| November | 49.6 | 41.1 | 64.2 | 63.1 | 97.6 | 99.4 | 43.3 | 34. 2 | 77.0 | 67.1 |
| December | 48.8 | 40.9 | 62.0 | 58.8 | 100.6 | 95.1 | 41.0 | 33.2 | 76.5 | 65.2 |

${ }^{1}$ Data not available.

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Table 6.-Employment and Pay-Roll Indexes, Manufacturing Industries-Con.

| Month and year | Textiles and their products |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Group index |  | Fabric (subgroup) |  | Carpets and rugs |  | Cotton goods |  | Cotton small wares |  |
|  | $\underset{\text { ment }}{\text { Employ- }}$ | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | $\underset{\text { ment }}{\text { Employ }}$ | Pay rolls | Employment | Pay rolls | Employment | Pay rolls | Employ ment | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ |
| 1923 | 105.2 | 105.8 | 105.4 | 106. 0 | 103.8 | 109.2 | 106.7 | 110.1 | 104.4 | 105.5 |
| 1924 | 94, 9 | 93.8 | 94.2 | 93.4 | 96.2 | 93.3 | 92.5 | 91.6 | 92.6 | 91.8 |
| 1925 | 99.9 | 100.4 | 100.4 | 100.6 | 100.0 | 97.5 | 100.8 | 93.8 | 103.0 | 102.7 |
| 1926 | 99.9 | 100.2 | 99.2 | 99.4 | 97.8 | 93.8 | 101.9 | 98.5 | (1) | (1) |
| 1927 | 104.0 | 108.8 | 101.3 | 103.8 | 96.9 | 94.5 | 105.8 | 105. 7 | 95.3 | 101. 3 |
| 1928 | 101.3 | 101.7 | 96.2 | 95.8 | 92.8 | 85.7 | 95.5 | 88.4 | (1) | (1) |
| 1929 | 104.8 | 105.2 | 99.2 | 99.4 | 96.2 | 90.1 | 96.1 | 90.1 | 97.4 | 102. 1 |
| 1930 | 92.9 | 85.6 | 86.0 | 79.4 | 74.2 | 59.7 | 80.7 | 69.4 | (1) | (1) |
| 1931 | 87.2 | 75.2 | 80.3 | 70.2 | 67.5 | 54.3 | 74.5 | 61.0 | 81.7 | 76.8 |
| 1932 | 77.9 | 53.6 | 71.9 | 50.4 | 52.9 | 31.4 | 67.1 | 43.9 | 72.2 | 56.2 |
| 1933 | 90.5 | 61.8 | 86.4 | 61.4 | 62.8 | 41.0 | 85.9 | 60.2 | 84.3 | 66.5 |
| 1934 | 94.4 | 72.4 | 89.7 | 70.2 | 69.1 | 48.3 | 91.2 | 71.0 | 90.1 | 76.5 |
| 1935 | 98.4 | 81.0 | 93.2 | 78.2 | 82.2 | 69.7 | 87.8 | 72.0 | 94.4 | 85.0 |
| 1936 | 100.7 | 83.6 | 94.3 | 81.1 | 86.3 | 75.0 | 93.1 | 80.8 | 96.1 | 89.6 |
| $\begin{array}{r} 1956 \\ \text { January } \end{array}$ | 98.2 | 80.2 | 93.8 | 78.7 | 79.9 | 63.8 | 90.1 | 76.3 | 96.8 | 88.6 |
| February | 99.2 | 82.3 | 93.1 | 78.5 | 79.5 | 67.3 | 89.8 | 76.5 | 92.3 | 83.3 |
| March | 100.5 | 85.7 | 93.0 | 78.7 | 83.7 | 67.9 | 89.9 | 75.7 | 93.0 | 85.4 |
| April | 99.5 | 81.3 | 91.7 | 77.2 | 82.3 | 66.8 | 88.8 | 75.0 | 95.4 | 89.2 |
| May | 97.4 | 78.2 | 90.4 | 75.2 | 82.7 | 66.4 | 88.8 | 75.2 | 92.7 | 84.0 |
| June. | 96.2 | 76.8 | 90.3 | 75.2 | 83.2 | 65.8 | 89.1 | 75.8 | 90.8 | 81.9 |
| July. | 96.3 | 77.3 | 91.7 | 77.1 | 82.6 | 67.9 | 91.7 | 78.5 | 90.6 | 82.0 |
| August | 101.8 | 87.4 | 94.7 | 83.0 | 85.4 | 75.3 | 94.5 | 82.4 | 94.2 | 88.6 |
| September | 103.4 | 83.9 | 95.8 | 80.5 | 90.3 | 82.9 | 96.0 | 81.5 | 96.5 | 88.3 |
| October..- | 104.3 | 88.5 | 97.1 | 85.1 | 93.4 | 89.8 | 97.6 | 86.5 | 101.6 | 99.8 |
| November | 104. 8 | 87.2 | 98.8 | 86.7 | 94.3 | 89.6 | 99.5 | 87.9 | 103.6 | 97.8 |
| December | 106.4 | 94.6 | 101.7 | 96.5 | 97.9 | 96.5 | 101.4 | 98.2 | 105.8 | 106.8 |
| Month and year | Textiles and their products-Continued |  |  |  |  |  |  |  |  |  |
|  | Dyeing and finishing textiles |  | Hats, fur-felt |  | Knit goods |  | Silk and rayon goods |  | Woolen and worsted goods |  |
|  | $\underset{\text { ment }}{\text { Employ- }}$ | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | $\underset{\text { ment }}{\text { Employ- }}$ | Pay rolls | $\underset{\text { ment }}{\text { Employ- }}$ | Pay rolls | $\underset{\text { Employ }}{\text { Empl }}$ | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | $\underset{\text { ment }}{\text { Employ }}$ | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ |
| 1923 | 97.4 | 96.1 | 106.4 | 107.4 | 104.8 | 103.7 | 99.7 | 97.4 | 109.3 | 109.1 |
| 1924 | 93.9 | 92.7 | 97.1 | 90.5 | 94.5 | 92.3 | 94.8 | 93.0 | 97.9 | 97.6 |
| 1025 | 108.7 | 111.2 | 96.5 | 102.1 | 100.7 | 104.0 | 105. 5 | 109.6 | 92.8 | 93.3 |
| 1926 | 110.8 | 114. 2 | (1) | (1) | 101.3 | 109.1 | 102.9 | 107.8 | 84.1 | 84.0 |
| 1927 | 113.5 | 121.5 | 101.2 | 114.1 | 102.6 | 116.0 | 101.5 | 107.6 | 86.7 | 84.7 |
| 1928. | 114.9 | 121.8 | (1) | (1) | 102.6 | 115.4 | 101.0 | 107.5 | 83.1 | 79.2 |
| 1929 | 121.8 | 124.8 | 105.3 | 112.3 | 112.5 | 129.8 | 103.8 | 105.6 | 82.6 | 80.1 |
| 1930 | 112.0 | 108. 7 | (1) | (1) | 102.9 | 108.6 | 95.1 | 87.2 | 67.2 | 60.5 |
| 1931 | 103.3 | 101.2 | 89.6 | 82.5 | 96.0 | 92.2 | 86.9 | 74.8 | 67.1 | 57.3 |
| 1932 | 92.8 | 73.8 | 72.6 | 54.5 | 94.1 | 75.5 | 74.0 | 48.4 | 56.0 | 38.9 |
| 1933 | 101.8 | 77.5 | 79.8 | 59.5 | 102.3 | 81.4 | 87.8 | 56.9 | 71.4 | 49.7 |
| 1934 | 113.6 | 88.5 | 82.8 | 66.8 | 107.7 | 98.6 | 88.4 | 66.0 | 65.7 | 47.7 |
| 1935 | 118.1 | 94.4 | 85.8 | 70.5 | 112.5 | 108. 2 | 86.5 | 68.8 | 86.5 | 68.5 |
| 1936 | 115.6 | 97.2 | 86.5 | 74.5 | 116.0 | 112.9 | 77.8 | 61.5 | 82.6 | 65.3 |
| $1956$ |  |  |  |  |  |  |  |  |  |  |
| January | 117.9 | 97.1 | 87.6 | 74.7 | 111.1 | 102.0 | 82.5 | 63.2 | 88.7 | 71.2 |
| February | 117.8 | 96.3 | 86.7 | 78.1 | 113.2 | 107.1 | 76.5 | 56.5 | 88.3 | 70.1 |
| March. | 119.7 | 100.5 | 86.9 | 76.5 | 115.0 | 112.5 | 75.9 | 58.9 | 84.4 | 65.0 |
| April. | 119.3 | 100.9 | 86.3 | 64.2 | 114.9 | 110.5 | 76.0 | 58.9 | 79.6 | 61.1 |
| May | 114.5 | 92.1 | 86.8 | 70.1 | 113.4 | 105. 4 | 71.0 | 54.4 | 78.6 | 61.0 |
| June | 111. 4 | 87.8 | 86.8 | 75.0 | 112.4 | 104. 1 | 72.1 | 56.1 | 78.9 | 61.5 |
| July | 109.3 | 89.3 | 88.2 | 78.8 | 111.8 | 104.0 | 75.0 | 59.7 | 79.8 | 62.6 |
| August | 111.1 | 94.8 | 90.2 | 89.3 | 116.1 | 117.5 | 79.6 | 66.0 | 81.6 | 64.6 |
| September | 111.3 | 93.1 | 87.5 | 76.2 | 120.1 | 117.1 | 81.5 | 64.5 | 77.9 | 55.4 |
| October-..- | 114.8 | 97.7 | 83.3 | 60.9 | 121.3 | 124. 2 | 81.5 | 67.0 | 78.5 | 60.4 |
| November | 117.8 | 100.6 | 82.7 | 68.0 | 121.0 | 124. 2 | 80.0 | 63.8 | 83.8 | 66.1 |
| December. | 122.8 | 116.4 | 85.5 | 82.5 | 121.8 | 126. 2 | 81.4 | 68.4 | 91.6 | 84.3 |

[^2]Table 6.-Employment and Pay-Roll Indexes, Manufacturing Industries-Con.

| Month and year | Textiles and their products-Continued |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Wearing apparel (subgronp) |  | Clothing, men's |  | Clothing, women's |  | Corsets and allied garments |  | Men's furnishings |  |
|  | Employment | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | Employment | Pay <br> rolls | Employ- ment | Pay <br> rolls | Employment | Pay <br> rolls | Employ- ment | Pay rolls |
| 1923 | 105.4 | 105.6 | 107.0 | 109.3 | 104.3 | 103.2 | 105.2 | 103.4 | 94.6 | 93.6 |
| 1924 | 96.1 | 94.0 | 97.3 | 96.1 | 96.6 | 94.3 | 100.0 | 100.0 | 100.1 | 96. 1 |
| 1925 | 98.5 | 99.5 | 95.7 | 94.6 | 99.1 | 102. 5 | 94.8 | 96.6 | 105.3 | 110.3 |
| 1926 | 99.8 | 99.6 | 97.4 | 94.8 | 104.2 | 104.7 | (1) | (1) | (1) | (1) |
| 1927 | 105.8 | 107.6 | 102.5 | 99.5 | 121.0 | 123.6 | 90.0 | 96.7 | 125.7 | 139.5 |
| 1928 | 108.3 | 107.5 | 101.3 | 95.5 | 133.7 | 132.5 | (1) | (1) | (1) | (1) |
| 1929 | 113.3 | 111.0 | 103.2 | 95.8 | 146.8 | 142.6 | 89.2 | 97.0 | 132.7 | 145.5 |
| 1930 | 105.0 | 93.6 | 91.4 | 74.7 | 142.2 | 127.9 | (1) | (1) | (1) | (1) |
| 1931 | 99.7 | 80.6 | 84.9 | 62.8 | 135.8 | 110.5 | 91.3 | 89.6 | 120.1 | 109.5 |
| 1932 | 89.1 | 57.2 | 79.4 | 44.8 | 116.9 | 76.4 | 89.3 | 74.8 | 103.8 | 75.2 |
| 1933 | 97.7 | 60.0 | 90.5 | 52.8 | 125.1 | 74.5 | 91.6 | 73.2 | 110.7 | 79.1 |
| 1934 | 102.9 | 74.0 | 95.8 | 65.4 | 136.0 | 94.8 | 93.1 | 84.3 | 113.1 | 92.5 |
| 1935 | 107.8 | 83.0 | 103.7 | 79.9 | 142.8 | 102.7 | 91.3 | 85.0 | 115.4 | 94.5 |
| 1936 | 112.8 | 85.2 | 106.8 | 81.7 | 152.0 | 105.5 | 87.8 | 85.5 | 127.4 | 100.1 |
| 1986 |  |  |  |  |  |  |  |  |  |  |
| January. | 105.8 | 79.9 | 104. 1 | 79.6 | 141.7 | 99.3 | 86.1 | 79.3 | 108.8 | 81.7 |
| February | 110.8 | 86.5 | 108.4 | 86.9 | 147.5 | 105.5 | 87.4 | 88.6 | 116.7 | 92.2 |
| March. | 115.3 | 96.0 | 109.6 | 91.3 | 156.6 | 121.4 | 88.8 | 91.8 | 121.5 | 98.2 |
| April | 115.0 | 86.2 | 106.2 | 76.7 | 159.5 | 112.9 | 90.0 | 90.1 | 124. 4 | 93.0 |
| May | 110.9 | 80.9 | 100.8 | 71.6 | 155.2 | 106.3 | 87.4 | 85.1 | 127.0 | 95.7 |
| June. | 107.6 | 76.6 | 104.4 | 79.4 | 140.0 | 86.0 | 86.3 | 81.9 | 126.2 | 96.6 |
| 〕uly | 104.6 | 74.3 | 106. 9 | 80.6 | 128.5 | 81.0 | 84.8 | 77.3 | 123.8 | 91.2 |
| August | 115.8 | 92.4 | 109.5 | 87.1 | 157.0 | 118.7 | 85.6 | 80.4 | 127.0 | 97.5 |
| September | 118.4 | 87.0 | 109.2 | 80.5 | 162.9 | 109.5 | 88.1 | 84.5 | 131.5 | 97.4 |
| October. | 118.3 | 91.5 | 108.0 | 82.1 | 163.3 | 119.1 | 89.6 | 90.5 | 138.3 | 117.6 |
| November | 116.0 | 84.6 | 106.5 | 79.3 | 158.$]$ | 102.7 | 90.4 | 88.1 | 143.0 | 125.5 |
| December | 114.8 | 86.3 | 107.8 | 84.9 | 154.0 | 103.6 | 89.3 | 88.0 | 140.6 | 115.1 |
| Month and year | Textiles and their productsContinued |  |  |  | Leather and its manufactures |  |  |  |  |  |
|  | Millinery |  | Shirts and collars |  | Group index |  | Boots and shoes |  | Leather |  |
|  | $\underset{\text { ment }}{\text { Employ }}$ | Pay <br> rolls | Employment | Pay <br> rolls | $\underset{\text { ment }}{\text { Employ- }}$ | Pay <br> rolls | Employment | Pay <br> rolls | Employment | Pay rolls |
| 1923 | 103.2 | 100.8 | 107.9 | 109.7 | 106. 6 | 106.9 | 106.0 | 107.6 | 109.1 | 107.9 |
| 1924 | 94.8 | 94.5 | 93.0 | 91.9 | 96. 3 | 95.3 | 96.7 | 95. 3 | 95.4 | 95.8 |
| 1925 | 102.0 | 104.7 | 99.1 | 98.4 | 97.1 | 97.8 | 97.3 | 97.1 | 95.5 | 96.3 |
| 1926. | 98.0 | 103.6 | 101.7 | 101.9 | 96. 6 | 98, 9 | 95.6 | 96.1 | 96.7 | 99.5 |
| 1927 | 104.8 | 113.9 | 105.1 | 109.9 | 97.7 | 100.3 | 95.6 | 96.8 | 96.6 | 99.3 |
| 1928 | 105.7 | 112.3 | 106.3 | 107.1 | 95.6 | 95.8 | 92.7 | 91.3 | 94.3 | 95.5 |
| 1929 | 101.3 | 104.0 | 109.1 | 109.2 | 98.5 | 99.0 | 96.7 | 95.6 | 91.1 | 92.8 |
| 1930 | 91.3 | 88.6 | 102.7 | 90.3 | 91.2 | 82.3 | 90.2 | 78.3 | 84.6 | 83.0 |
| 1931 | 83.7 | 79.2 | 104.0 | 82.7 | 84.3 | 72.1 | 85.3 | 70.2 | 76.9 | 72.5 |
| 1932 | 73.9 | 60.9 | 91.0 | 58.0 | 81.2 | 57.6 | 84.5 | 58.3 | 68.8 | 54.0 |
| 1933. | 71.0 | 49.4 | 103.1 | 68.3 | 87.2 | 61.2 | 89.8 | 61.1 | 80.7 | 63.0 |
| 1934 | 64.9 | 49.0 | 104.4 | 85.2 | 92.4 | 71.7 | 94.1 | 71.2 | 90.5 | 76.1 |
| 1935 | 54.7 | 42.4 | 108.5 | 95.9 | 92.5 | 74.1 | 93.1 | 70.3 | 94.9 | 89.6 |
| 1936 | 54.9 | 41.7 | 114.0 | 100.7 | 91.9 | 72.8 | 92.1 | 67.3 | 95.8 | 94.2 |
| 1936 |  |  |  |  |  |  |  |  |  |  |
| January----------- | 52.4 | 39.5 | 98.3 | 81.4 | 92.9 | 76.7 | 93.1 | 72.2 | 97.0 | 94.7 |
| February ----------- | 54.1 | 41.9 | 107.8 | 91.9 | 94.4 | 77.4 | 95.3 | 74.1 | 95.6 | 91.7 |
| March. | 65.2 | 61.7 | 110.4 | 99.4 | 93.6 | 73.1 | 94.5 | 69.2 | 95.0 | 89.0 |
| April | 62.0 | 51.0 | 113.4 | 100.5 | 90.8 | 67.7 | 91.2 | 62.0 | 94.3 | 89.7 |
| May. | 57.9 | 43.9 | 109.9 | 96.7 | 88.2 | 63.8 | 88.1 | 56.5 | 93.6 | 91.0 |
| June. | 50.7 | 35.1 | 110.8 | 94.6 | 86.8 | 64.6 | 86.3 | 57.8 | 92.9 | 89.8 |
| July | 44.3 | 29.8 | 109.7 | 89.3 | 91.4 | 74.2 | 92.1 | 70.3 | 93.8 | 89.9 |
| August .---------- | 59.1 | 48.2 | 116.5 | 104.9 | 94.4 | 80.3 | 95.4 | 77.2 | 95.6 | 94.0 |
| September.----.-- | 63.4 | 50.8 | 120.6 | 104.7 | 94.1 | 75.7 | 94.5 | 70.7 | 97.4 | 95.5 |
| October- | 56.6 | 38.3 | 123.5 | 115.9 | 92.8 | 74.0 | 92.9 | 67.4 | 97.2 | 99.0 |
| November.-.-....-- | 47.8 | 31.2 | 124.7 | 116.4 | 89.0 | 67.3 | 87.8 | 58.2 | 98.4 | 100.8 |
| December---------- | 44.9 | 29.2 | 122.8 | 112.1 | 94.0 | 78.3 | 94.1 | 71.4 | 98.4 | 105. 0 |

1 Data not available.

Table 6.-Employment and Pay-Roll Indexes, Manufacturing Industries-Con.

| Month and year | Food and kindred products |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Group index |  | Baking |  |  | Beverages |  | Butter |  |  | Canning and preserving |  |
|  | Em-ployment | Pay rolls |  |  | Pay rolls | Em-ployment | Pay rolls | Em-ployment | Pay rolls |  | Em-ployment | Pay rolls |
| 1923 | 101.4 | 99.8 |  |  | 98.0 | 104, 4 | 104. 4 | 108.7 | 105.7 |  | 97.7 | 97.8 |
| 1924 | 88.3 | 99.3 |  |  | 101.7 | 97.0 | 95.8 | 100.0 | 100.0 |  | 86.9 | 86.9 |
| 1925 | 100.3 | 100.9 |  | . 810 | 100.3 | 98.1 | 99.8 | 93.3 | 94.3 |  | 115. 4 | 115.3 |
| 1926 | 99.7 | 102.0 |  | . 410 | 104.1 | (1) | (1) | (1) | (1) |  | (1) | (1) |
| 1927 | 100.2 | 103.0 |  | . 91 | 107.8 | 96.6 | 100.0 | 105.6 | 108.2 |  | 112.0 | 108.7 |
| 1928 | 103.8 | 106.3 |  | 2 | 113.3 | (1) | (1) | (1) | (1) |  | (1) | (1) |
| 1929 | 111.1 | 112.9 |  | . 612 | 125. 3 | 101.3 | 106.1 | 100.3 | 102.5 |  | 134.6 | 129.4 |
| 1930 | 107.8 | 108.0 |  | . 512 | 123.7 | (1) | (1) | (1) | (1) |  | 138.8 | 126.7 |
| 1931 | 95.6 | 92.0 |  | . 610 | 109.0 | 85.5 | 83.1 | 82.0 | 79.1 |  | 106. 1 | 91.5 |
| 1932 | 88.6 | 75.0 |  | . 8 | 92.3 | 79.1 | 71.2 | 80.6 | 68.3 |  | 86.1 | 65.0 |
| 1933 | 100.3 | 78.7 |  | . 2 | 89.9 | 138.2 | 131.9 | 86.7 | 63.8 |  | 112.7 | 76.8 |
| 1934 | 114.5 | 95.1 |  | 510 | 103. 6 | 175.8 | 173.7 | 91.4 | 65.8 |  | 140.8 | 101.9 |
| 1935 | 109.4 | 94.4 |  | 31 | 105. 1 | 172.7 | 177.6 | 82.3 | 61.5 |  | 148.7 | 123.1 |
| 1936 | 111.1 | 101.3 |  | . 51 | 114.3 | 188.2 | 202.8 | 83.8 | 64.9 |  | 141.3 | 123.3 |
| 1896 |  |  |  |  |  |  |  |  |  |  |  |  |
| J anuary | 98.4 | 89.8 |  | 21 | 107.5 | 161.3 | 163.4 | 77.1 | 57.5 |  | 85.0 | 72.1 |
| February | 96.7 | 87.4 |  | 81 | 108. 4 | 159.5 | 159.3 | 76.7 | 58.0 |  | 78.3 | 67.7 |
| March | 97.7 | 90.2 |  | 1 | 109.5 | 170.8 | 180.5 | 77.8 | 60.8 |  | 78. 3 | 72.6 |
| April. | 100.8 | 90.3 |  | . 8 | 108.9 | 176.5 | 186.7 | 81.2 | 61.7 |  | 94.2 | 80.7 |
| May | 102.7 | 95.7 |  | 31 | 112.9 | 192.7 | 214.3 | 85.7 | 66.6 |  | 94. 2 | 87.2 |
| June. | 107.9 | 98.9 |  | 41 | 115. 1 | 199.1 | 220.7 | 91.1 | 71.0 |  | 126. 3 | 102. 7 |
| July | 116.9 | 107.0 |  | 21 | 116. 1 | 220.0 | 266.4 | 92.4 | 71. |  | 174. 0 | 138. 3 |
| August | 127.9 | 114.0 |  | 11 | 116. 2 | 214.5 | 237.1 | 90.5 | 70. |  | 252.5 | 231.1 |
| Septemb | 185.9 | 116.5 |  | 31 | 117.9 | 209.6 | 227.1 | 86.4 | 67.5 |  | 305.4 | 258.9 |
| October. | 124.2 | 111.5 |  | . 61 | 119.0 | 190.7 | 198.9 | 82.7 | 65. |  | 197.3 | 179.2 |
| November | 114.1 | 108.3 |  | ${ }^{0} 1$ | 120.4 | 183.0 | 191.3 | 82.0 | 65. |  | 113.1 | 98.2 |
| December | 110.6 | 105. 7 |  | 2 1 | 119.8 | 181.0 | 187.6 | 81.6 | 62. |  | 96.8 | 90.8 |
| Month and year | Food and kindred products--Continued |  |  |  |  |  |  |  |  |  |  |  |
|  | Confectionery |  | Flour |  | Ice cream |  | Slaughtering and meat packing |  | Sugar, beet |  | Sugar refining, cane |  |
|  | Em-ployment | Pay rolls | Em-ployment | Pay rolls | Em- <br> ployment | Pay <br> rolls | Emi ployment | $\xrightarrow{\text { Pay }}$ rolls | Em-ployment | Pay rolls |  | Pay rolls |
| 1923 | 101.7 | 100.9 | 104.9 | 101.9 | $9 \quad 99.2$ | -98.7 | 104. 7 | 102.6 | 92.1 | 91.1 | 1 103.4 | 102.6 |
| 1924 | 96.5 | 97.7 | 99.7 | 101.0 | 0 102.0 | - 99.7 | 100.3 | 99.9 | 100.0 | 100.0 | 198.2 | 100.4 |
| 1925 | 101.8 | 101.4 | 95.4 | 97.1 | 1988 | -101. 6 | 95.0 | 97.5 | 107.9 | 108.9 | 988.4 | 97.0 |
| 1926 | 105.8 | 106.8 | 91.8 | 94.4 | $4-96.3$ | 103. 2 | 93.2 | 97.8 | (1) | (1) | 94.8 | 91.5 |
| 1927 | 101.1 | 104.7 | 89.4 | 91.8 | 8 94.0 | - 100.6 | 94.0 | 98.9 | 90.0 | 87.5 | $5 \quad 94.9$ | 90.6 |
| 1928. | 98.9 | 101.0 | 85.5 | 89.7 | $7 \quad 95.5$ | 5103.2 | 94.8 | 100.1 | (1) | (1) | 89.4 | 87.5 |
| 1929. | 101. 7 | 103. 7 | 80.6 | 85.7 | $7 \quad 96.0$ | -102. 7 | 96.7 | 101. 5 | 91. 2 | 90.3 |  94.3 | 91.4 |
| 1930 | 92.1 | 93.3 | 73.9 | 78.7 | 7 89.0 | - 93.0 | 92.1 | 96.3 | (1) | (1) | 92.3 | 89.7 |
| 1931 | 82.0 | 77.5 | 68.1 | 66.7 | $7 \quad 76.0$ | - 76.9 | 84.1 | 82.2 | 75.8 | 68.1 | 180.3 | 79.6 |
| 1932 | 74.8 | 60.6 | 65.7 | 56. 4 | 464.6 | 6 | 80.6 | 65.7 | 90.4 | 68.5 | $5 \quad 73.9$ | 66.5 |
| 1933 | 81.0 | 60.7 | 69.2 | 55.2 | 2.61 .6 | 649.1 | 89.3 | 68.7 | 130.0 | 98.2 | 277.9 | 62.7 |
| 1934 | 81.3 | 69.7 | 78.2 | 64.9 | $9 \quad 69.7$ | $7 \quad 57.0$ | 105.7 | 91.7 | 94.9 | 70.6 | 685.5 | 65.0 |
| 1935. | 80.8 | 71.4 | 76.9 | 67.4 | 4 69.3 | 358.5 | 84.3 | 77. 1 | 100.8 | 89.3 | 3 80.8 | 65.8 |
| 1936. | 78.1 | 70.3 | 75.1 | 70.1 | 1 70.4 | $4 \quad 62.0$ | 88.8 | 84.7 | 99.5 | 92.5 | 5 77.2 | 64.9 |
| 1986 |  |  |  |  |  |  |  |  |  |  |  |  |
| January. | 74.7 | 67.0 | 75.2 |  | 68.7 | $7 \quad 57.1$ | 149.6 | 86.4 | 82.6 | 42.1 | 42.8 | $8 \quad 75.6$ | 63.4 |
| February | 74.4 | 65.5 | 75.5 | 69.8 | $8 \quad 56.7$ | 749.2 | 83.2 | 74.8 | 31. 8 | 36.6 | 6 <br> 7.9 | 62.2 |
| March | 75.1 | 67.9 | 75.3 | 69.3 | 3 60.4 | $4 \quad 53.8$ | 81.9 | 75. 0 | 35. 3 | 41.5 | 5 78.8 | 70.2 |
| April | 71.7 | 61.6 | 73.9 | 65.3 | 3 67.2 | $2 \quad 58.3$ | 82.2 | 74.6 | 40.3 | 42.2 | 280.9 | 68.5 |
| May | 70.2 | 61.1 | 72.0 | 66.7 | 7 80.1 | 170.2 | 84.3 | 78.6 | 43.9 | 45.6 | 680.9 | 68.5 |
| June | 68.6 | 59.7 | 72.3 | 67.0 | $0 \quad 84.4$ | $4 \quad 72.5$ | 85.8 | 81. 2 | 48.6 | 50.1 | 180.0 | 66.6 |
| July | 66.8 | 56.1 | 77.7 | 75.5 | $5 \quad 88.3$ | 380.2 | 90.8 | 86.7 | 53.1 | 53.2 | 279.8 | 69.3 |
| August | 73.5 | 66.1 | 77.1 | 74.6 | 6 <br> 8.9 | $9 \quad 73.6$ | 91.5 | 87.5 | 86.8 | 80.4 | 480.7 | 66.6 |
| September | 88.1 | 81.4 | 76.9 | 70.9 | $9 \quad 77.4$ | $4 \quad 67.9$ | 90.9 | 85.1 | 94.2 | 94.9 | 978.3 | 64.1 |
| October- | 91.0 | 86.3 | 76.8 | 72.9 |  | 8 57.8 | 91.8 | 88.7 | 271.7 | 201.9 | 975.9 | 61.4 |
| November | 91.9 | 84.6 | 74.7 | 70.4 | 4 63. 2 | 256 | 96.9 | 99.8 | 273.6 | 268.8 | $8 \quad 68.0$ | 58.6 |
| December | 90.6 | 86.3 | 74.3 | 69.7 | 1 61.2 | 55.1 | 99.4 | 101.5 | 172.5 | 151.8 |  | 59.3 |

${ }^{1}$ Data not available.

Table 6.-Employment and Pay-Roll Indexes, Manufacturing Industries-Con.

| Month and year | Tobacco manufactures |  |  |  |  |  | Paper and printing |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Group index |  | Chewing and smoking tobacco and snuff |  | Cigars and cigarettes |  | Group index |  |
|  | Employment | Pay rolls | Employ- ment | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | $\underset{\text { ment }}{\text { Employ- }}$ | Pay rolls | $\underset{\text { Employ- }}{\text { ment }}$ | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ |
| 1923. | 105. 7 | 104.1 | 102.7 | 101.4 | 106.2 | 104.5 | 99.2 | 96.2 |
| 1924 | 98.8 | 99.4 | 102. 7 | 101.6 | 98.2 | 99.2 | 99.7 | 99.5 |
| 1925 | 95.5 | 96.5 | 94.6 | 97.0 | 95.6 | 96.3 | 101.1 | 104.3 |
| 1926 | 90.9 | 92.1 | 93.1 | 94.0 | 90.4 | 91.8 | 104.1 | 110.8 |
| 1927 | 93.4 | 91.0 | 82.6 | 84.8 | 94.9 | 91.8 | 104.1 | 111.0 |
| 1928. | 90.7 | 86.1 | 75.6 | 77.4 | 92.8 | 87.2 | 105.0 | 112.3 |
| 1929. | 83.9 | 81.8 | 68.0 | 71.3 | 86.0 | 83.1 | 111.3 | 119.5 |
| 1930 | 78.3 | 72.7 | 69.8 | 71.3 | 79.4 | 72.9 | 108.0 | 114.6 |
| 1931 | 72.1 | 60.1 | 71.9 | 69.0 | 72.1 | 58.9 | 96.3 | 97.3 |
| 1932 | 65.6 | 48.2 | 71.0 | 62.4 | 64.9 | 46.4 | 85.5 | 74.8 |
| 1933 | 63.1 | 44.1 | 64.2 | 56.0 | 62.9 | 42.6 | 86.7 | 68.3 |
| 1934. | 66.2 | 48.8 | 64.6 | 59.7 | 66.3 | 47.5 | 95.4 | 78.5 |
| 1935 | 61.3 | 47.7 | 57.9 | 58.7 | 61.6 | 46.4 | 97.6 | 84.2 |
| 1936. | 61.0 | 50.0 | 56.0 | 59.5 | 61.6 | 48.8 | 100.8 | 91.6 |
| $\begin{array}{r} 1986 \\ \text { January } \end{array}$ | 54.9 | 43.0 | 57.5 | 59.9 | 54.5 | 40.9 | 98.0 | 86.9 |
| February | 58. 7 | 4.0 4.9 | 57.4 57 | 57.6 | 54.8 | 40.9 43.4 | 98.0 98.8 | 87.7 |
| March | 59.2 | 46.5 | 56.4 | 58.6 | 59.4 | 45.0 | 98.7 | 89.3 |
| April. | 58.6 | 44.0 | 55.8 | 57.1 | 58.8 | 42.4 | 99.1 | 89.8 |
| May | 60.0 | 48.5 | 55.2 | 59.7 | 60.5 | 47.1 | 99.5 | 90.7 |
| June | 60.2 | 50.1 | 55.0 | 56.0 | 60.8 | 49.4 | 98.8 | 89.2 |
| July -- | 60.6 | 51.0 | 54.7 | 58.0 | 61.2 | 50.2 | 98.5 | 86.6 |
| August | 63.0 | 53.5 | 55.2 | 57.6 | 63.9 | 53.0 | 100.1 | 89.4 |
| September | 63.6 | 53.3 | 55.2 | 62.1 | 64.6 | 52.2 | 102.6 | 92.0 |
| October- | 64.5 | 54.7 | 56. 6 | 60.9 | 65.4 | 53.9 | 104.0 | 96.5 |
| November | 65.9 | 54.8 | 57.1 | 62.1 | 66.9 | 53.9 | 105.0 | 98. 6 |
| December. | 63.3 | 55.4 | 56.4 | 64.8 | 64.1 | 54.3 | 106.0 | 102. 6 |
| Month and year | Paper and printing-Continued |  |  |  |  |  |  |  |
|  | Boxes, paper |  | Paper and pulp |  | Printing and publishing, book and job |  | Printing and publishing, newspapers and periodicals |  |
|  | Employment | Pay rolls | $\underset{\text { ment }}{\text { Employ- }}$ | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | Employment | Pay <br> rolls | Employment | Pay rolls |
| 1923. | 100.0 | 97. 3 | 100.0 | 98.4 | 98.3 | 95.5 | 98.9 | 94.7 |
| 1924 | 99.5 | 99.7 | 97.3 | 97.5 | 100.7 | 100.0 | 101.0 | 100.6 |
| 1925. | 100.5 | 103.0 | 102.7 | 104. 1 | 101.0 | 104.5 | 100.1 | 104.7 |
| 1926. | 102.1 | 106.9 | 105.8 | 109. 1 | 104.9 | 112.5 | 101.7 | 110.3 |
| 1927 | 99.2 | 104. 0 | 102.2 | 105. 3 | 106.9 | 114.1 | 102.2 | 111.1 |
| 1928 | 96.3 | 102.0 | 100.8 | 105.3 | 107.4 | 113.6 | 104.5 | 113.6 |
| 1929 | 97.9 | 102.9 | 106.1 | 112.5 | 113.1 | 118.7 | 111.0 | 121.8 |
| 1930. | 90.7 | 91.6 | 102.5 | 104.6 | 110.9 | 115.6 | 109.9 | 119.4 |
| 1931. | 81.8 | 79.0 | 89.5 | 82.1 | 100.7 | 92.1 | 101.8 | 108.0 |
| 1932 | 73.5 | 62.4 | 81.9 | 61.4 | 85.3 | 72.4 | 92.9 | 88.6 |
| 1933 | 83.0 | 67.7 | 89.0 | 64.4 | 78.5 | 60.6 | 93.4 | 78.6 |
| 1934 | 91.5 | 81.1 | 103.8 | 78.6 | 84.7 | 70.0 | 98.6 | 85.9 |
| 1935 | 93.4 | 86.6 | 107.6 | 88.0 | 86.8 | 75.8 | 99.3 | 88.6 |
| 1936. | 96.2 | 92.5 | 109.4 | 97.0 | 91.0 | 81.7 | 102.9 | 96.8 |
| 1986 |  |  |  |  |  |  |  |  |
| January. | 91.4 | 82.2 | 107.2 | 91.0 | 87.9 | 79.1 | 101. 1 | 92.5 |
| February | 90.9 | 83.4 | 107.7 | 92.8 | 89.5 | 79.3 | 101.8 | 93.1 |
| March | 91.2 | 85.8 | 108. 1 | 94.2 | 88.0 | 79.6 | 102.6 | 95.8 |
| April. | 90.8 | 84.9 | 108.8 | 95.5 | 88.0 | 79.5 | 103.6 | 96.9 |
| May | 91.5 | 86.4 | 109.4 | 96.3 | 88.8 | 80.7 | 103. 0 | 97.2 |
| June | 91.3 | 85.9 | 108.8 | 95.1 | 87.8 | 78.1 | 102.6 | 96.5 |
| July.. | 92.3 | 85.5 | 108.3 | 92.5 | 88.9 | 76.7 | 100.0 | 91.9 |
| August | 95.7 | 92.5 | 109. 1 | 96.9 | 92.1 | 79.8 | 100.0 | 92.3 |
| September | 101.6 | 98.8 | 110.4 | 95.2 | 93.2 | 81.7 | 103.5 | 97.6 |
| October-.. | 105.5 | 108.0 | 110.7 | 101.9 | 94.3 | 84.8 | 104.8 | 100.6 |
| November | 106. 2 | 108.8 | 111.9 | 104. 5 | 95.6 | 87.6 | 105. 3 | 101.8 |
| December | 106.3 | 108.3 | 112.8 | 108.6 | 97.4 | 93.2 | 106.0 | 105.4 |

Table 6.-Employment and Pay-Roll Indexes, Manufacturing Industries-Con.

| Month and year | Chemicals and allied products |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Group index |  | Other than petroleum $\underset{\text { group) }}{\text { refining (sub- }}$ group) |  | Chemicals |  | Cottonseedoil, cake, and |  | Druggists' preparations |  |
|  | $\begin{aligned} & \text { Employ } \\ & \text { ment } \end{aligned}$ | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ | $\underset{\text { ment }}{\text { Employ- }}$ | $\begin{aligned} & \text { Pay } \\ & \text { rolis } \end{aligned}$ | $\underset{\text { ment }}{\text { Employ- }}$ | Pay | Employment | Pay <br> rolls | Employment | $\begin{aligned} & \text { Pay } \\ & \text { rolls } \end{aligned}$ |
| 1923 | 102.9 | 102.2 | 102.8 | 102.1 | 105.7 | 101.8 | 87.8 | 83.9 | 97.7 | 91.8 |
| 1924 | 96.5 | 96.4 | 96.9 | 97.0 | 98.0 | 98.1 | 100.5 | 94.9 | 96.8 | 97.5 |
| 1925 | 100.3 | 101.4 | 100.2 | 100.9 | 96.3 | 100.1 | 111.7 | 121.2 | 105.5 | 110.7 |
| 1926 | 106.5 | 108.7 | 105.4 | 107.4 | (1) | (1) | (1) | (1) | 108.3 | 113.4 |
| 1927. | 104.2 | 107.8 | 102.8 | 106.8 | (1) | (1) | 127.0 | 151.3 | 110.4 | 119.2 |
| 1928 | 103.0 | 108.0 | 102.5 | 108.0 | (1) | (1) | (1) | (1) | 106.6 | 113.1 |
| 1929 | 115.7 | 120.9 | 113.6 | 118.4 | 109.2 | 120.0 | 109.0 | 118.9 | 116.4 | 124.4 |
| 1930 | 109.4 | 112.2 | 105.6 | 106. 6 | 99.5 | 103.5 | (1) | (1) | 108.2 | 116.3 |
| 1931 | 95.4 | 92.0 | 92.7 | 87.7 | 851 | 84.2 | 84.5 | 88.5 | 103.2 | 105.3 |
| 1932 | 85.5 | 71.7 | 82.2 | 66.9 | 76.0 | 64.6 | 95.2 | 70.5 | 92.3 | 85.3 |
| 1933 | 97.5 | 76.2 | 95.4 | 72.5 | 93.3 | 75.2 | 98.1 | 57.1 | 94.7 | 86.7 |
| 1934 | 110.7 | 91.6 | 108.8 | 89.0 | 114.9 | 96.1 | 92.0 | 61.6 | 105.2 | 98.1 |
| 1935 | 111.9 | 98.9 | 110.7 | 96.9 | 113.7 | 101.7 | 78.0 | 57.8 | 102.9 | 102.0 |
| 1936 | 114.6 | 107. 8 | 113.8 | 106.4 | 121.3 | 115.5 | 71.1 | 55.7 | 102.5 | 105.4 |
| $\mathrm{Jamary}^{19: 96}$ | 111.8 | 100.4 | 110.8 | 98.8 | 114.1 | 103.7 | 81.0 | 61.1 | 101.5 | 101.5 |
| February | 110.8 | 99.9 | 109.8 | 98.5 | 113.8 | 103.9 | 74.2 | 55.4 | 101.6 | 100.3 |
| March_ | 113.8 | 104.5 | 113.6 | 103.1 | 114.9 | 107.1 | 75.0 | 56.0 | 103.0 | 106.5 |
| April. | 112.3 | 103.8 | 111.3 | 102.5 | 115.8 | 109.1 | 51.8 | 36.8 | 102.3 | 104.3 |
| May | 111.8 | 105. 4 | 110.7 | 104.0 | 117.2 | 111.3 | 44.1 | 32.3 | 100.7 | 102.1 |
| June. | 110.3 | 105. 4 | 108.5 | 103.3 | 118.6 | 113.3 | 37.9 | 28.5 | 100.4 | 99.4 |
| July- | 111.7 | 106. 4 | 110.5 | 103.8 | 122.5 | 114.9 | 41.2 | 32.9 | 100.1 | 100.8 |
| August | 113.4 | 108. 1 | 112.2 | 106.8 | 123.0 | 117.7 | 45.7 | 37.5 | 100.3 | 105. 2 |
| September | 119.5 | 112.0 | 118.8 | 110.6 | 127.1 | 120.1 | 96.9 | 78.4 | 103.1 | 107.2 |
| October. | 120.3 | 114.4 | 120.2 | 113.9 | 129.9 | $1{ }^{14.7}$ | 103.5 | 84.5 | 104.4 | 112.6 |
| November | 119.7 | 114.7 | 119.4 | 113.3 | 130.0 | 127.5 | 103.6 | 83.1 | 105.9 | 112.7 |
| December | 119.3 | 118.3 | 119.3 | 118.0 | 129.1 | 132.5 | 98.0 | 82.1 | 106.6 | 112.5 |


| Month and year | Chemicals and allied products-Continued |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Explosives |  | Fertilizers |  | Paints and varnishes |  | Rayon and allied products |  | Soap |  | Petroleum refining |  |
|  | Em-ployment | Pay rolls | Em-ployment | Pay rolls | Em. ployment | $\underset{\text { rolls }}{\text { Pay }}$ | Em-ployment | Pay rolls | Em. ployment | Pay rolls | Em ploy. ment | Pay rolls |
| 1923. | 108.5 | 109.5 | 100.5 | 99.1 | 95.6 | 91.6 | 87.3 | 91.3 | 104.9 | 105.7 | 103.0 | 102.3 |
| 1924 | 94.8 | 97.6 | 93.1 | 93.6 | 97.6 | 99.8 | 93.1 | 95.5 | 100.0 | 100.0 | 96.1 | 94. 6 |
| 1925 | 96.7 | 92.9 | 106. 4 | 107.3 | 106.8 | 108.6 | 119.6 | 113.2 | 95.1 | 94.3 | 100.9 | 103.1 |
| 1926. | 98.7 | 92.2 | 112.8 | 118.4 | (1) | (1) | (1) | (1) | (1) | (1) | 110.8 | 112.7 |
| 1927 | 98.5 | 97.6 | 100.8 | 106.9 | 117.5 | 123.3 | 164.8 | 141.2 | 82.9 | 100.3 | 109.9 | 111.9 |
| 1928 | 95.4 | 92.2 | 107.6 | 109.1 | (1) | (1) | (1) | (1) | (1) | (1) | 104.7 | 108.3 |
| 1929 | 95.3 | 102.0 | 113.4 | 108.3 | 122.3 | 129.6 | 244.4 | 220.2 | 88.6 | 96.7 | 124.4 | 129.2 |
| 1930 | 79.7 | 74.7 | 111.0 | 104.2 | (1) | (1) | 242.2 | 214.1 | (1) | (1) | 124.9 | 130.4 |
| 1931 | 80.4 | 66.9 | 78.8 | 73.4 | 94.4 | 90.3 | 241.9 | 188.4 | 87.4 | 90.2 | 106.2 | 105.8 |
| 1932 | 63.6 | 43.9 | 56.5 | 43.7 | 87.3 | 71.1 | 214.3 | 146.2 | 82.7 | 74.4 | 98.7 | 87.5 |
| 1933 | 70.8 | 49.6 | 70.7 | 44.0 | 95.9 | 73.0 | 276.7 | 190.3 | 88.3 | 71.9 | 106. 5 | 88.4 |
| 1934 | 87.6 | 68.2 | 92.4 | 64.8 | 112.2 | 89.5 | 302.3 | 227.3 | 98.6 | 85.5 | 118.3 | 100.3 |
| 1935 | 81.8 | 70.6 | 88.3 | 69.1 | 120.0 | 101.9 | 337.0 | 265.9 | 99.2 | 93.9 | 116.7 | 105.6 |
| 1936 | 86.3 | 85.0 | 82.1 | 72.2 | 125.1 | 114.5 | 348.7 | 289.4 | 98.5 | 97.0 | 118.3 | 112.4 |
| January 1996 | 81.3 | 72.2 | 80.6 | 65.0 | 119.8 | 104. 1 | 347.6 | 279.0 | 95.5 | 93.1 | 115.8 | 105.9 |
| February | 82.9 | 77.1 | 81.8 | 62.8 | 119.9 | 106.0 | 341.3 | 275. 1 | 94.7 | 92.7 | 115.0 | 104.8 |
| March | 83.7 | 82.0 | 122.8 | 101.0 | 120.8 | 108.7 | 346.0 | 282.0 | 94.7 | 93.2 | 114.5 | 109.6 |
| April. | 79.8 | 74.0 | 119.8 | 101.3 | 125.2 | 114.2 | 325.4 | 269.0 | 95.1 | 91.8 | 116.5 | 108.2 |
| May. | 77.7 | 76.7 | 96.2 | 93.1 | 128.0 | 120.2 | 335.6 | 273.3 | 95.8 | 93.9 | 116.5 | 110.0 |
| June | 82.7 | 83.5 | 59.1 | 54.9 | 128.9 | 120.9 | 336. 2 | 276.8 | 96.3 | 94.9 | 117.8 | 112.3 |
| July | 86. 2 | 84.2 | 58.6 | 52.4 | 126.2 | 113.8 | 347.3 | 287.8 | 93.0 | 91.7 | 121.5 | 114.7 |
| August | 88.3 | 88.3 | 60.8 | 55.4 | 124.4 | 113.5 | 356.7 | 300.1 | 101.7 | 100.6 | 118.3 | 112.2 |
| September | 91.4 | 89.3 | 77.9 | 76.1 | 126.7 | 114.0 | 360.1 | 302.4 | 106.8 | 100.9 | 122.3 | 116. 3 |
| October-.- | 93.2 | 96.2 | 76.9 | 69.7 | 128.6 | 119.6 | 361.5 | 307.6 | 107.1 | 105.3 | 120.6 | 115.9 |
| November | 95.4 | 98.3 | 69.8 | 63.1 | 125.3 | 116.8 | 364.0 | 298.2 | 102. 5 | 101.6 | 121. 1 | 119.1 |
| December. | 93.2 | 98.0 | 80.4 | 71.6 | 127.5 | 121.6 | 362.4 | 321.3 | 98.8 | 104.3 | 119.5 | 119.5 |

${ }^{1}$ Data not available.

Table 6.-Employment and Pay-Roll Indexes, Manufacturing Industries-Con.

| Month and year | Rubber products |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Group index |  | Rubber boots and shoes |  | Rubber goods, other than boots, shoes. tires, and inner tubes |  | Rubber tires and inner tubes |  |
|  | Employment | Pay rolls | Employment | Pay rolls | Employ- ment | Pay rolls | Employ ment | Pay rolls |
| 1923. | 102.6 | 101.0 | 117.0 | 118.7 | 103.1 | 100.1 | 97.7 | 96.8 |
| 1924. | 91.8 | 92.9 | 83.6 | 82.3 | 91.6 | 92.7 | 94.5 | 95.7 |
| 1925 | 105. 6 | 106. 1 | 99.4 | 99.0 | 105. 3 | 107.2 | 107.8 | 107.5 |
| 1926 | 105.1 | 107.0 | 103.0 | 101.7 | (1) | (1) | 105.4 | 107.2 |
| 1927. | 105. 7 | 110.0 | 106.8 | 113.2 | 110.3 | 115.5 | 103.3 | 107.0 |
| 1928. | 111.1 | 117.5 | 105.0 | 107.1 | (1) | (1) | 109.9 | 116.8 |
| 1929. | 111.0 | 115.1 | 102.1 | 105.6 | 120.3 | 126.4 | 110.0 | 113.2 |
| 1930 | 85.9 | 84.7 | 82.0 | 77.4 | (1) | (1) | 79.0 | 79.3 |
| 1931. | 73.9 | 62.5 | 63.2 | 48.6 | 102.3 | 89.9 | 64.9 | 56.2 |
| 1932 | 67.6 | 47.4 | 59.6 | 42.4 | 91.3 | 68.1 | 59.8 | 41.2 |
| 1933. | 79.1 | 55.0 | 72.0 | 51.0 | 105.3 | 75.3 | 69.9 | 48.8 |
| 1934 | 88.4 | 68.8 | 76.8 | 55.4 | 114.3 | 87.7 | 80.9 | 65.5 |
| 1935 | 85.6 | 74.2 | 67.5 | 51.2 | 116.6 | 98.3 | 77.9 | 71.4 |
| 1936 | 90.8 | 87.6 | 74.0 | 59.9 | 124.7 | 114.4 | 81.5 | 85.1 |
| 1996 |  |  |  |  |  |  |  |  |
| January | 85.6 | 78.0 | 71.0 | 56. 6 | 118.4 | 102.8 | 75.9 | 74.6 |
| February | 85.1 | 74.9 | 69.3 | 52.9 | 119.3 | 102.6 | 75.3 | 70.6 |
| March. | 85.4 | 66.7 | 70.7 | 55.7 | 120.1 | 105.7 | 57.2 | 55.6 |
| April | 87.9 | 82.8 | 71.8 | 55.4 | 123.3 | 111.0 | 77.7 | 79.8 |
| May | 88.9 | 86.4 | 70.7 | 54. 2 | 123.2 | 110.4 | 79.8 | 86.1 |
| June. | 89.8 | 89.0 | 68.9 | 56.6 | 121.5 | 110.5 | 82.8 | 89.5 |
| July. | 90.8 | 87.1 | 72.0 | 54.8 | 120.6 | 106.2 | 83.9 | 88.5 |
| August | 92.2 | 90.8 | 75.2 | 60.5 | 119.2 | 110.3 | 86.0 | 91.6 |
| September | 94.3 | 92.2 | 77.3 | 61.5 | 124.6 | 114.9 | 8 8. 6 | 91.9 |
| October- | 97.9 | 36.8 | 78.4 | 64.8 | 132.9 | 128.1 | 89.0 | 93.8 |
| November. | 100.0 | 101.2 | 79.9 | 69.2 | 135.6 | 130.5 | 90.9 | 98.9 |
| December | 101.9 | 104.8 | 82.5 | 76.9 | 137.8 | 139.2 | 92.5 | 99.7 |

${ }^{1}$ Data not available.

## Trend of Industrial and Business Employment, by States

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

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

Table 7.-Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1936, by Geographic Divisions and by States
[Figures in italies 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 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Num- ber of estab- lish- ments | Number on pay roll December 1936 | Percent age change from No-vember 1936 | Amount of pay roll (1 week) December 1936 |  | Number of estab-lishments | Number <br> on pay roll December 1936 | Per-centage change from No-vember 1936 | Amount of pay roll (1 week) December 1936 | Per-centage ehange from No-vember 1936 |
| New Engla | 14,089 | 944,762 | +3.4 | $\left\|\begin{array}{c} \text { Dollars } \\ 21,739,976 \end{array}\right\|$ | +8.1 | 3, 525 | 650, 183 | +3.0 | $\begin{gathered} \text { Dollars } \\ 14,745,636 \end{gathered}$ | +11.0 |
| Maine | 823 | 59, 621 | $+6.3$ | 1,237,631 | +20.4 | 287 | 48, 485 | $+8.0$ | 984, 852 | $+27.1$ |
| New Hamp. shire | 626 | 38,442 | 1 | 802, 386 | +15.1 | 209 | 31,084 | $+4.3$ | 630,903 | +19.6 |
| Vermont | 481 | 18,469 | +1.6 | 410, 443 | +8.4 | 149 | 11,835 | $+2.5$ | 263, 082 | +13.1 |
| Massachusetts | 18,626 | 513,394 | +8.1 | 11, 850, 916 | +5.9 | 1,694 | 303,475 | +2.5 | 6, 839, 256 | +8. 5 |
| Rhode Island | 1,264 | 101, 434 | $+5.3$ | 2, 249, 530 | $+18.8$ | - 434 | 79, 703 | +4.6 | 1, 727,331 | +24.1 |
| Connecticut | 2,269 | 213, 402 | $+2.5$ | 5, 189.070 | +5.6 | 762 | 175, 601 | $+1.7$ | 4, 300, 262 | - +6.1 |
| Middle Atlantic | 34, 210 | 2, 266, 009 | +3.4 | 59, 437, 046 | $+6.4$ | 5,075 | 1, 218, 363 | +1.1 | 31, 334, 597 | +-5. 4 |
| New York | 21,930 | 1, 029,517 | +4.3 | 27, 740, 242 | +5.6 | 22, 2002 | 449,269 | +. 9 | 12, 056, 55 | $+5.4$ |
| New Jersey | 4, 026 | 335,567 | +2.4 | 8, 525, 303 | +5.2 | 3777 | 250, 364 | +1.6 | 6,308.392 | $+5.6$ |
| Pennsylvania. | 8,254 | 900, 925 | +2.8 | 23, 171, 501 | +7.8 | 2,296 | 518,790 | $1+.8$ | 12.960,719. | $+4.8$ |
| tral | 20, 109 | 2, 346, 392 | +3.9 | 63, 367, 362 | $+5.0$ | 7,532 | 1, 790, 009 | +2.5 | 50, 109, 638 | +5.0 |
| Ohio | 8,080 | 666, 030 | +3.7 | 17, 812, 860 | +5.0. | 2, 592 | 486, 636 | +1.6 | 13, 590, 000 | +4.2 |
| Indiana | 2,263 | 255,069 | +2. 5 | 6, 718, 465 | +6.1 | -865 | 214,675 | +1.9 | 5, 779, $28{ }^{7}$ | +6.2 |
| Illinois | -4,981 | 619, 422 | +2.2 | 15, 729, 387 | $+3.7$ | 2, 394 | 413.957 | $+1.4$ | 10,548,009 | --3.7 |
| Michigan | 3, 801 | 617, 586 | $+7.1$ | 18, 434,966 | +6.5 | 950 | 524,878 | $+5.0$ | 16, 380.797 | +6.8 |
|  | 8984 | 188,285 | $+1.9$ | 4,671,684 | +1.8 | 7791 | 149,863 | $4+1$ | 3,811,565 | $\cdots+1.0$ |
| West North Central | 11,412 | 444, 129 | +2.2 | 10, 209, 189 | +2.6 | 2,473 | 219, 934 | $+1.1$ | 5, 087, 314 | $+3.8$ |
| Minnesot | 2, 167 | 92, 840 | +(8) | 2, 226, 224 | $-.4$ | -440 | 43, 841 | $-3.1$ | 1,063, 658 | $-2.5$ |
| Iowa. | 1, 755 | 66,744 | +2.4 | 1, 533, 058 | +4.5 | 420 | 37, 718 | +2.5 | 901, 208 | +-7.9 |
| Missouri | 3, 133 | 179, 497 | +4.4 | 4, 069. 248 | +4.9 | 902 | 97,472 | +4.2 | 2, 147, 434 | $+7.4$ |
| North Dakota | 491 | 5,295 | +.8 | 120,580 | $-2.6$ | 42 | 683 | $+.9$ | 18, 653 | +4.2 |
| South Dakota | 438 | 7,755 | $-3.3$ | 191, 437 | $-1.6$ | 39 | 2,248 | $-10.9$ | 53, 436 | $-2.4$ |
| Nebraska | 1,541, | 35, 533 | $-.4$ | 797,653 | $-3.6$ | 166 | 13,149 | $-7.2$ | 310, 149 | -10.0 |
| Kansas | 11, 887 | 56,465 | +1.4 | 1.270, 989 | +3.8 | 464 | 24, 8293 | $+.5$ | 602,776 | $+6.5$ |
| South Atlantic | 11, 194 | 850,621 | +2.7 | 16, 948,806 | +5.3 | 2,731 | 549,306 | +.9 | 10, 160, 248 | +-5.4 |
| Delaware | , 209 | 15,876 | +.3 | -385, 269 | +2.31 | 88 | 11, 763 | , | 286,157 | $\stackrel{+2.4}{4}$ |
| Maryland --...- | 1,443 | 124,979 | +3.2 | 2, 894,153 | $+5.8$ | 516 | 80, 554 | 4-. 4 | 1,874,353 | $1+2.9$ |
| District of Columbia | 1,087 | 47, 727 | +8.5 | 1, 160, 311 | +4.8 | 42 | 3,951 | +.6 | 132,147 | +1.3 |
| Virginia | 2,277 | 110,136 | +1.8 | 2, 171, 166 | +4.9 | 474 | 72,497 | +. 2 | 1, 409, 487 | --5.0 |
| West Virginia_ | 1,248 | 152, 461 | +.9 | 3, 907, 836 | +3.1 | 251 | 59,312 | -1.3 | 1, 519, 947 | $+1.9$ |
| North Carolina | 1, 479 | 160, 887 | +1.9 | 2, 527, 477 . | +6.0 | 580 | 148, 078 | $+1.5$ | 2, 274, 591 | +10.4 |
| South Carolina- | 1,791 | 73, 240 | +1.5 | 1, 119,740 | +9.5 | 226 | 65, 322 | $+1.3$ | 974, 769 | $+10.8$ |
| Georgia_ | 1,536 | 115, 137 | +1.4 | 1, 899, 852 | +4.2 | 356 | 87, 602 | $+.4$ | 1, 328, 774 | $+5.0$ |
| Florida | 1, 124 | 50, 178 | +13.2 | 882, 002 | +11.8 | 198 | 22, 227 | +10.5 | 360, 023 | + 9.2 |
| East South Central | 4,550 | 302,142 | $+1.5$ | 5, 710,240 | +4.2 | 1,020 | 185, 015 | -. 2 | 3, 340, 171 | +3.8 |
| Kentucky | 1,387 | 93, 446 | +2.4 | 2, 004, 926 | +4.3 | , 317 | 39, 696 | -. 3 | 839, 249 | +4.2 |
| Tennessee | 1,350 | 103, 591 | +1.1 | 1, 866, 305 | +2.6 | 383 | 76, 129 | -. 2 | 1, 346, 907 | +2.4 |
| Alabama.-.---- | 1,267 | 90,490 | $+1.3$ | 1, 589, 924. | +6.6 | 237 | 61,373 | $+.2$ | 1, 032,7701 | +5.9 |
| Mississippi West South Cen-- | - 546 | 14,615 | -. 4 | 249,085 | +1.1 | 83 | 7,817 | $-2.4$ | 121, 245 | +. 5 |
| tral | 4,409 | 199,394 | $+1.8$ | 4,264,299 | +1.9 | 1,117 | 98,973 | +. 2 | 1, 908, 544 | $+1.3$ |
| Arkansas ${ }^{10}$ | 462 | 21,851 | +.8 | 372, 880 | +2.9 | 171 | 14,688 | $-1.2$ | 233,026 | +2.2 |
| Louisiana. | 928 | 48,338 | +4.0 | 897, 116 | +1.3 | 238 | 24, 311 | +1.5 | 394, 997 | $-.4$ |
| Oklahoma | 1,380 | 41, 211 | +. 4 | 953, 253 | +.7 | 140 | 11, 642 | -1.1 | 264, 253 | $+.8$ |
| Texas ${ }^{11}$ | 1,639 | 87,994 | +1.9 | 2,041,050 | +2. 51 | 568 | 48,332 | +. 3 | 1,106, 288 | +1.8 |

${ }^{1}$ Includes banks and trust companies, construction, municipal, agricultural, and office employment, amusement and recreation, professional services, and trucking and handling.

2 Includes laundering and cleaning, water, light, and power.
${ }^{3}$ Includes laundries.
4 Weighted percentage change.
B Includes automobile and miscellaneous services, restaurants, and building and contracting.
6 Includes construction but not hotels and restaurants, or public works.
7 Does not include logging.
${ }^{8}$ Less than $1 / 10$ of 1 percent.
${ }^{9}$ Includes financial institutions, miscellaneous services, and restaurants.
${ }^{10}$ Includes automobile dealers and garages, and sand, gravel, and building stone.
${ }^{11}$ Includes business and personal service and real estate.

Table 7.--Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1936, by Geographic Divisions and by States-Con.
[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 estab-lishments | Number <br> on pay roll <br> Decem. ber 1936 | Per-centagechangefromNo-vem-ber1936 | Amount of pay roll (1 week) December 1936 | Per-cent-agechangefromNo-vem-ber1936 | Number of estab-lishments | $\begin{aligned} & \text { Number } \\ & \text { on pay } \\ & \text { roll } \\ & \text { Decem- } \\ & \text { ber } 1936 \end{aligned}$ | Per-cent-agechangefromNo-vem-ber1936 | Amount of pay roll (1 week) December 1936 | Per-centage 1 change from No-vember1936 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Dollars |  |  |  |  | Dollars |  |
| Mountain. | 4,409 | 138,764 | $+0.5$ | 3, 520, 686 | +0.2 | 605 | 43,481 | -7.1 | 1, 073,569 | -5.9 |
| Montana | 669 | 20, 039 | -. 4 | 573, 875 | - ${ }^{8}$ ) | 86 | 5,582 | -4.8 | 147, 918 | $-5.3$ |
| Idaho_ | 477 | 10,954 | $-9.2$ | 263.891 | -8.9. | 54 | 3,524 | -28.2 | 78,823 | $-29.0$ |
| W yoming | 327 | 9,637 | $-2.0$ | 280, 328 | $-3.4$ | 38 | 2, 056 | $-9.4$ | 58, 349 | -8.5 |
| Colorado. | 1,254 | 49, 154 | +1.6 | 1, 213, 380 | +1.6 | 204 | 19,787 | $-2.1$ | 501, 684 | $+1.0$ |
| New Mexico | - 324 | 6,706 | +1.7 | 153, 946 | +4.8 | 32 | - 700 | +1.0 | 13, 377 | +2.1 |
| Arizona. | 511 | 17, 146 | $+6.9$ | 442,455 | +7.2 | 44 | 3,145 | +1.2 | 74, $103{ }^{\text {' }}$ | +2.0 |
| Utah. | 631 | 21, 850 | +. 6 | 500, 182 | $-2.7$ | 117 | 7,491 | -12.6 | 164, 979 | $-14.4$ |
| Nevada | - 216 | 3, 278 | -. 2 | 11, 92, 629 | -1.1 | - 30 | 1, 196 | +2.1 | 34,336 | $-.8$ |
| Pacific. | 8,932 | 424, 092 | $+.8$ | 11, 353, 511 | +1.1 | 2, 315 | 233, 543 | -2.8 | 6, 362, 324 | $+.3$ |
| Washington | 3, 058 | 95, 582 | -2.1 | 2,390, 117 | $-1.4$ | 565 | 50, 520 | $-6.9$ | 1,235,065 | -4.1 |
| Oregon. | 1,283. | 49, 690 | -1.0 | 1,206, 023 | $-1.2$ | 295 | 27, 156 | -4.9 | 627,368 | -3.1 |
| California ${ }^{12} \ldots$ | 4,591 | 278,820 | +2.1 | 7,757,371 | +2.3 | 1,455 | 155,867 | $-1.1$ | 4,499.891] | +2.0 |

${ }^{8}$ Less than 1/10 of 1 percent.
12 Includes banks, insurance, and office employment.

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

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

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

Table 8.-Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1936, by Principal Cities

| City | Number of establishments | Number on pay roll December 1936 | Percentage change from <br> November 1936 | Amount of pay roll (1 week) December 1936 | Percentage change from November 1936 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| New York, N. Y | 16, 213 | 724, 749 | +4.1 | \$19,364, 230 | +5.1 |
| Chicago, Ill | 4,487 | 479, 140 | +2.5 | 12,912,078 | +4.5 |
| Philadelphia, Pa | 2,577 | 240, 783 | +2.4 | 6, 205, 710 | $+3.5$ |
| Detroit, Mich | 1,616 | 407, 088 | +8. 4 | 12,546, 421 | +5.2 |
| Los Angeles, Calif | 2, 554 | 149,946 | +8.2 | 3, 916, 159 | +4.5 |
| Cleveland, Ohio | 1,721 | 150,505 | $+5.2$ | 4, 067, 784 | $+5.6$ |
| St. Louis, Mo. | 1,621 | 138, 005 | $+5.2$ | 3, 282, 490 | +6.6 |
| Baltimore, Md | 1,225 | 100, 624 | +4.5 | 2, 386, 899 | +5.2 |
| Boston, Mass. ${ }^{1}$ | 1,580 | 112, 615 | +3.0 | 2, 892, 758 | +4.2 |
| Pittsburgh, Pa | 1,396 | 218,284 | +3.2 | 6, 113, 086 | $+8.1$ |
| San Francisco, Calif | 1,682 | 87, 226 | -. 4 | 2, 425, 639 | +. 5 |
| Buffalo, N. Y | 954 | 78, 614 | $+2.5$ | 2, 122, 823 | +6.2 |
| Milwaukee. Wis | 700 | 84.745 | +3.2 | 2. 233,621 | $+5.7$ |

[^3]$$
124402-37-5
$$

## Public Employment

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

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

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

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

With the following exceptions, statistics on public employment refer to the month ending on the 15 th.

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 and December 1936 and December 1935 are given in table 9 .

Table 9.-Employees in the Executive Service of the U. S. Government, November and December 1936 and December $1935{ }^{1}$
[Subject to revision]

| Item | District of Columbia ${ }^{2}$ |  |  | Outside District of Columbia |  |  | Entire service ? |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Permanent | Temporary | Total | Permanent. | Temporary ${ }^{3}$ | Total | Perma- nent | Temporary ${ }^{3}$ | Total |
|  |  |  |  |  |  |  |  |  |  |
| December 1936 November 1936 | 107. 898 | 8, 457 | 116,355 | 618. 663 | 96, 468 | 715, 131 | 726, 561 | 104, 925 | 4831,486 |
| November 1936 December 1935 | 107,777 104,285 | 7,408 | 115,185 112,091 | 621, 364 | 102,897 97,075 | 724, 261 | 729, 141 | 110, 305 | 839, 446 |
| Percentage change: <br> November to December |  |  |  |  |  |  |  |  |  |
| November to December 1936 | $+0.11$ | +14.16 | $+1.02$ | $-0.43$ | -6. 25 | -1. 26 | $-0.35$ | $-4.88$ | -0.95 |
| December 1935 to De cember 1936 | $+3.46$ | +8.34 | +3.80 | +1.91 | $-0.63$ | $+1.56$ | +2. 14 | $+0.04$ | $+1.87$ |
| Labor turn-over December |  |  |  |  |  |  |  |  |  |
| Number of separations ${ }^{\text {3 }}$ | 1,010 | 668 | 1,678 | 11.809 | 16, 200 | 28, 009 | 12,819 | 16,868 | 29,687 |
| Number of accessions ${ }^{3}$. - | 1,052 | 1,837 | 2, 889 | 7,959 | 10, 492 | 18,451 | 9,011 | 12,329 | 21, 340 |
| Turn-over rate per 100: | 94 | 8.42 | 1.45 | 1.90 | 16. 25 | 3.89 | I. 76 | 15.67 | 3.55 |
| Accession rate. | .98 | 23. 16 | 2. 50 | 1. 28 | 10. 53 | 2. 56 | 1. 24 | 11. 46 | 2. 35 |

1 Data on number of employees refer to employment on last day of month.
${ }^{2}$ Includes employees of Columbia Institution for the Deaf and Howard University.
3 Not including field employees of Post Office Department or 22,346 employees hired under letters of authorization by the Department of Agriculture, with a pay roll of $\$ 1,027,198$.
${ }^{4}$ Includes 387 employees by transfer previously reported as separations, not actual additions for December.
${ }^{3}$ 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 December 1935 to December 1936, inclusive, is shown in table 10.

Table 10.-Employment in the Executive Service of the U. S. Government, by Months, December 1935 to December $1936^{\text {: }}$
[Subject to revision]

| Month | District of Co lumbia | Outside District of Columbia | Total | Month | Distriet of Co lumbia | Outside District of Co lumbia | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1935 |  |  |  | 1936-Continued |  |  |  |
| December | 112,091 | 704, 135 | 816, 226 | June | 117, 470 | 707, 156 | 824, 626 |
| 1996 |  |  |  | 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 | 685, 345 | 810,767 | November | 115, 185 | 724, 261 | 839,446 |
| May | 117, 229 | 700, 999 | 818, 228 | December | 116, 355 | 715, 131 | 831, 436 |

${ }^{1}$. Data on number of employees refer to employment on last day of month.

## Construction Projects Financed by the Public Works Administration

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

Table 11.-Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, December $1936^{1}$
[Subject to revision]

| Type of project | Wage earners |  | Monthly pay-roll ments | Number of man-hours worked during month | Average earnings per hour | Value of material orders placed during month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Maximum number employed ${ }^{2}$ | Weekly average |  |  |  |  |

Federal projects financed from N. I. R. A. funds

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 62, 671 | 57,073 | \$5,869, 353 | 7, 415, 869 | \$0.791 | \$6,571, 205 |
| Building construction ${ }^{3}$ - | 23,462 | 20,018 | 2, 173, 785 | 2,395,712 | . 907 | 2, 880,963 |
| Naval vessels. | 13,503 | 13, 104 | 1, 741,555 | 2, 184, 364 | . 797 | 800,441 |
| Public roads ${ }^{3}$ |  | 11,037 | 488, 508 | 1, 003, 800 | . 487 | 860,000 |
| Reclamation. | 1,508 | 1,389 | 171, 898 | 229, 898 | . 748 | 707, 439 |
| River, harbor, and flood cont | 10,825 |  | 1, 154, 221 | 1,350, 275 | . 855 | 1, 211,383 |
| Streets and roads-- | 1,383 | 1,121 | 58,472 | 130, 845 | . 447 | 67, 019 |
| Water and sewerage | 384 | 316 | 20, 575 | 40, 058 | . 514 | 12,571 |
| Miscellaneous. | 569 | 533 | 60, 339 | 80,917 | . 746 | 31,389 |

Non-Federal projects financed from N. I. R. A. funds

| All projects. |
| :---: |
| Building construction Streets and roads Water and sewerage Miscellaneous. |
|  |  |
|  |  |
|  |  |


| 39,853 | 33,321 | \$2, 994, 125 | 3,388, 535 | \$0.884 | \$6, 284, 140 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 20, 159 | 16, 676 | 1, 486, 102 | 1, 592, 576 | . 933 | 3, 513, 475 |
| 3,245 | 2, 529 | 205, 632 | 230, 207 | . 893 | 326, 741 |
| 13, 648 | 11,708 | 1, 153, 334 | 1, 275, 684 | . 904 | 1, 855, 992 |
| 2,801 | 2, 408 | 149,057 | 290,068 | . 514 | 587, 932 |

Non-Federal "transportation loan" projects financed from N. I. R. A. funds


| 1,226 | (7) | \$66, 441 | 108, 721 | \$0.611 | (7) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 120 | 101 | 5,535 | 10, 505 | . 527 |  | 0 |
| 1. 106 | (7) | 60,906 | 98, 216 | . 620 | (7) |  |
| 1, 067 | ${ }^{971}$ | 57, 218 | 91, 681 | . 624 |  | 0 |
| 39 | (7) | 3,688 | 6,535 | . 564 | (7) |  |

Non-Federal projects financed from E. R. A. A. 1935 funds :

| All projects |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 139,068 | 115, 574 | \$9,645, 700 | 12, 201, 105 | \$0.791 | \$17, 887,642 |
| Building eonstruction. | 82, 277 | 67, 965 | 5,821,416 | 6,741, 737 | . 883 | 9,772, 67 |
| Electrification. | 698 | 571 | 44, 063 |  | . 738 |  |
| Heavy engineering | 2,114 | 1,827 | 200, 613 | 236, 726 | . 847 | 767,827 |
| Reclamation....- | 2,895 | 2,701 | 266, 293 | 368, 459 | . 723 | 292,083 |
| River, harbor, and flood control | 1,140 | 921 | 73, 549 | 111, 173 | . 662 | 74, 485 |
| Streets and roads. | 17, 166 | 13, 779 | 759,369 | 1, 436, 668 | . 529 | 1, 649,909 |
| Water and sewerage | 31, 905 | 27, 105 | 2, 419, 651 | 3, 179,079 | 761 | 4, 735, 961 |
| Miscellaneous | 873 | 705 | 60,746 | 67,530 | . 900 | 110, 927 |

[^4]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 lowcost 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.

> Montbly Trend

A summary of employment, pay rolls, and man-hours worked on projects financed from Public Works Administration funds from July 1933 to December 1936 is given in table 12.

Table 12.-Employment and Pay Rolls, July 1933 to December 1936, Inclusive, on Projects Financed from Public Works Administration Funds ${ }^{1}$
[Subject to revision]

| Year and month | Maximum number of wage earners ${ }^{2}$ | Monthly pay-roll disbursements | Number of man-hours worked during month | A verage earnings per hour | Value of material orders placed during month |
| :---: | :---: | :---: | :---: | :---: | :---: |
| July 1933 to December 1936, inclusive ${ }^{4}$ 4-- |  | \$854, 519, 921 | 1, 294, 017, 130 | \$0.680 | \$1, 526, 070, 852 |
| July to December 1933, inclusive ${ }^{\text {d }}$ |  | 33, 244, 066 | 62, 209, 479 | . 534 | 75, 524, 702 |
| January to December 1934, inclusive- |  | 308, 311, 143 | 523,561, 666 | . 589 | 5 610, 051, 090 |
| January to December 1935, inclusive ${ }^{\text {3 }}$ |  | 270, 195, 762 | 391, 579, 803 | . 690 | - $439,152,426$ |
| $1986{ }^{3}$ |  |  |  |  |  |
| January | 197, 820 | 14, 399, 381 | 19, 195, 535 | . 750 | 22,796, 818 |
| Februar | 176, 764 | 12,220, 479 | 16, 404,771 | . 745 | 23, 460, 743 |
| March | 202, 236 | 13,981, 176 | 18, 519, 649 | . 755 | 29, 068, 402 |
| April | 264,427 | 18,915, 663 | 25, 203,010 | . 751 | 32, 459,393 |
| May | 315, 393 | 22,590, 878 | 30, 377, 869 | . 744 | ${ }^{5} 39,778,571$ |
| June | 349, 572 | 25, 840, 926 | 34, 418, 037 | . 751 | 37, 803, 419 |
| July | 336,047 | 24, 841, 359 | 32, 749, 131 | . 759 | 40,589, 226 |
| August | 330, 784 | 24, 676, 121 | 32, 235, 040 | . 766 | 38, 088, 931 |
| September | 311,361 | 23, 582, 444 | 30, 254, 704 | . 779 | 38, 152, 624 |
| October. | 284,903 | 22, 290, 424 | 28, 140, 040 | . 792 | 34, 144, 805 |
| November | 269, 167 | 20, 854, 480 | 26, 054, 166 | . 800 | - 34, 246, 615 |
| December | 242, 818 | 18,575, 619 | 23, 114, 230 | . 804 | 30, 752, 987 |

1 Data are for the month ending on the 15th.
2 Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work. Includes weekly average for public-road projects.
${ }^{3}$ 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.

- Revised.

3 Includes orders placed by railroads for new equipment.

## The Works Program

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

Table 13.-Employment and Pay Rolls on Projects Financed by The Works Program, December $1936{ }^{1}$
[Subject to revision]

| 'Type of project | Wage earners |  | Monthly pay-roll disbursements | Number of man-hours worked during month | $\begin{aligned} & \text { Aver- } \\ & \text { age } \\ & \text { earn- } \\ & \text { ings per } \\ & \text { hour } \end{aligned}$ | Value of material orders placed during month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Maximum number employed ${ }^{2}$ | Weekly average |  |  |  |  |
|  | Federal projects |  |  |  |  |  |
| All projects | 370,911 | 331,838 | \$18, 595, 253 | 37, 894, 672 | \$0. 491 | \$9, 966, 206 |
| Building construction | 49, 142 | 44,574 | 2, 943, 644 | 5, 120, 066 | . 575 | 1, 461,343 |
| Electrification | 4,046 | 3,781 | 131, 714 | 301, 433 | . 437 | 758, 243 |
| Forestry --.- | 30, 380 | 27, 669 | 1, 435, 698 | 3, 210, 154 | . 447 | 327, 877 |
| Grade-crossing elimination | 33, 219 | 26, 338 | 1,853, 582 | 3,030, 032 | . 612 | 2, 427,614 |
| Heavy engineering-- | 144 | 137 | 10, 114 | 11, 480 | . 881 | 4, 526 |
| Hydroelectric power plants ${ }^{3}$-.------- | 1,627 | 1,627 | 21, 957 | 87,922 | . 250 | 12,716 |
| Plant, crop, and livestock conservation | 34,875 | 31,237 | 1,399, 148 | 4, 174, 722 | . 335 | 29,890 |
| Professional, technical, and clerical.- | 18,179 | 18, 124 | 1, 322, 395 | 2, 234, 214 | . 592 | 66,784 |
|  | 69,772 | 56, 111 | 2,840, 448 | 6, 317, 373 | . 450 | 2,047,041 |
| Reclamation | 80,852 | 78, 138 | 4, 028, 468 | 8, 878, 786 | . 454 | 1,215, 035 |
| River, harbor, and flood control.-.... | 18,335 | 15,992 | 1,510, 657 | 2, 116, 916 | . 714 | 1,263, 173 |
| Streets and roads. | 12,475 | 12, 143 | 299, 776 | 923, 787 | . 325 | 37, 555 |
| Water and sewerage | 1,855 | 1,676 | 73,693 | 157, 473 | . 468 | 28,973 |
| Miscellaneous. | 16,010 | 14,291 | 723,959 | 1,330, 314 | . 544 | 285,436 |

P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds 4


[^5]Table 14.-Employment and Pay Rolls July 1935 to December 1936, Inclusive, on Projects Financed by The Works Program ${ }^{1}$
[Subject to revision]

| Month and year | Maximum number employed ${ }^{2}$ | Monthly payroll disbursements | Number of man-hours worked during month | Average earnings per hour | Value of material orders placed during month |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Federal projects |  |  |  |  |
| July 1935 to December 1936, inclusive.- |  | \$262, 008, 806 | 576, 810, 180 | \$0. 454 | \$176, 703, 349 |
| July to December 1935 |  | 36, 951, 974 | 80,745, 958 | . 458 | 34,763,337 |
| 1996 |  |  |  |  |  |
|  | 248,929 | 11, 179,541 | 25, 955, 820 | . 431 | 8, 988, 622 |
| February | 298, 589 | 12, 529, 207 | 29, 173,914 | . 429 | 9, 684, 578 |
| March | 325, 505 | 14, 431, 789 | 35, 243, 886 | . 409 | 8,028, 299 |
| April. | 375, 865 | 16, 563, 885 | 38, 563,300 | . 430 | 12,903, 903 |
| May. | 401, 298 | 19, 160, 510 | 43, 267, 437 | . 443 | 12,668,052 |
| June_ | 453, 012 | 22,657, 507 | 50, 680, 511 | . 447 | 14, 431, 802 |
| July | 451, 570 | 22, 699, 760 | 48, 849, 680 | . 465 | 16, 198,583 |
| August | 451, 960 | 22, 794, 588 | 48, 559, 862 | . 469 | 13, 191, 899 |
| September | 439, 897 | 22, 585, 121 | 47, 786, 683 | . 473 | 13, 095, 741 |
| October | 437,839 | 21, 785, 609 | 47, 141,554 | . 462 | 12,270, 703 |
| November | 404, 671 | 20, 074, 062 | 42, 946, 903 | . 467 | 10,511, 624 |
| December | 370, 011 | 18, 595, 253 | 37, 894, 672 | . 491 | 9, 966, 206 |

P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds ${ }^{8}$


| August 1935 to December 1936, inclusive. | Projects operated by Works Progress Administration |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | \$1,767,465,844 | 3, 846, 253, 479 | \$0. 460 | 4 \$521,309, 408 |
| August to December 1935 |  | 170,911, 331 | 367, 589, 641 | . 465 |  |
| 1986 |  |  |  |  |  |
| January. | 2,812,391 | 128, 383,000 | 314, 664, 210 | . 408 |  |
| February | 2, 950, 481 | 137, 182,000 | 332, 966, 010 | . 412 |  |
| March | 3, 095,261 | 144, 471, 000 | ${ }_{331} 34359,000$ | . 423 |  |
| May | 2,579,937 | 132, 820,000 | 297, 136, 460 | . 447 |  |
| June. | 2, 395, 423 | 126, 253, 000 | 275, 661, 570 | . 458 |  |
| July - | 2,412,462 | 122, 774, 427 | 265, 669, 182 | . 462 |  |
| August | 2, 462, 590 | 124, 731, 158 | 247, 539, 090 | . 504 |  |
| September | 2, 560, 701 | 127,380, 456 | 253, 720, 345 | . 502 |  |
| October | 2, 637,742 | 132, 892, 258 | 264, 853, 832 | . 502 |  |
| November | 2, 726,361 | 138, 543, 440 | 278, 586, 423 | . 497 |  |
| December | 2, 593, 569 | 136, 135, 774 | 273, 022, 576 | . 499 |  |

[^6]
## Emergency Conservation Work

Statistics concerning employment and pay rolls in emergency conservation work in November and December 1936 are presented in table 15.

Table 15.-Employment and Pay Rolls in Emergency Conservation Work, November and December $1936{ }^{1}$
[Subject to revision]

| Group | Number of employees |  | Amount of pay rolls |  |
| :---: | :---: | :---: | :---: | :---: |
|  | December | November | December | November |
| All groups. | 376,953 | 391, 296 | \$18, 112, 149 | \$18, 604, 821 |
| Enrolled personnel ? | 327, 056 | 341, 097 | 10, 183, 844 | 10,620,628 |
| Reserve officers. | 8,079 | 8, 159 | 2, 055, 177 | 2, 063,459 |
| Educational advisers ${ }^{3}$ - | - 2,179 | 2,174 | 373, 184 | 572,430 |
| Supervisory and technical | 839,639 | ${ }^{6} 39,866$ | ${ }^{5} 5,499,944$ | ${ }^{6} 5,548,304$ |

[^7]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 December 1935 to December 1936, inclusive, are given in table 16.

Table 16.-Employment and Pay Rolls in Emergency Conservation Work, by Months, December 1935 to December $193{ }^{1}$
[Subject to revision]

| Month | Number of employees | Monthly pay-roll disbursements | Month | Number of employees | Montbly pay-roll disbursements |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1935 |  |  | 1936-Continued |  |  |
| December | 509, 126 | \$21, 958, 301 | June. | 383, 279 | \$17,973, 962 |
| 1936 |  |  | July | 404, 422 | 18, 417, 372 |
|  |  |  | August | 383, 5.54 | 17, 840,653 |
| January | 478, 751 | 21, 429,044 | September | 320,821 | 16, 367, 897 |
| February | 454, 231 | 20, 484, 493 | October... | 404,826 | 17, 662, 545 |
| March | 356, 273 | 17, 249, 609 | November | 391, 296 | 18, 604, 821 |
| April | 391, 002 | 18, 063, 534 | December. | 376,953 | 18, 112, 149 |
| May. | 407, 621 | 18, 598, 026 |  |  |  |

[^8]
## 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 December are presented in table 17, by type of project.

Table 17.-Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, December $1936{ }^{1}$
[Subject to revision]

| Type of project | Number of wage earners | Monthly pay-roll disbursements | Number of man-hours worked during month | Average earnings per hour | Value of material orders placed during month |
| :---: | :---: | :---: | :---: | :---: | :---: |
| All projects. | 9, 189 | \$1, 106, 816 | 1,514,355 | \$0.731 | \$1, 433, 075 |
| Bridges | 149 | 16, 104 | 15,972 | 1.008 | 8,436 |
| Building construction ${ }^{2}$ | 1, 026 | 77,541 | 157, 537 | . 492 | 157, 148 |
| Reclamation. | -42 | 3,820 | 6, 606 | . 578 | 5,792 |
| Water and sewerage | 7,615 | 968,788 | 1, 278, 102 | . 758 | 1,250, 060 |
| Miscellaneous. | 357 | 40,563 | 56, 138 | . 723 | 11,639 |

${ }^{1}$ Data are for the month ending on the 15th.
${ }^{2}$ Includes 61 employees; pay-roll disbursements of $\$ 3,533 ; 3,659$ man-hours worked; and material orders placed during the month amounting to $\$ 13,082$ 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 December 1935 to December 1936, inclusive, is given in table 18.

Table 18.-Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, December 1935 to December $1936{ }^{1}$
[Subject to revision]

| Month | Number of wage earners | Monthly pay-roll dis bursements | Number of man-hours worked during month | Average earnings per hour | Value of material orders placed during month |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1985 | 7,792 | \$870, 129 | 1, 161,473 | \$0,749 | \$1,383,330 |
| December |  |  |  |  |  |
| January 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, 480 | 738 | 3,008, 077 |
| December. | 9,189 | 1,106,816 | 1, 514,355 | . 731 | 1,433, 075 |

${ }^{1}$ Includes projects financed by RFC Mortgage Co. Data are for month ending on the 15th.

Construction Projects Financed from Regular Governmental Appropriations
Whenever a construction contract is awarded or force-account work is started by a department or agency of the Federal Government, the Bureau of Labor Statistics is immediately notified, on forms supplied by the Bureau, of the name and address of the contractor, the amount of the contract, and the type of work to be performed. Blanks are then mailed by the Bureau to the contractor or 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 December are given in table 19, by type of project.

Table 19.-Employment on Construction Projects Financed From Regular Governmental Appropriations, by Type of Project, December $1936^{1}$
[Subject to revision]

| Type of project | Number of wage earners |  | Monthly pay-roll disbursements | Number of man-hours worked during month | Average earnings per hour | Value of material orders placed during month |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Maximum number employed ${ }^{2}$ | Weekly average |  |  |  |  |
| All projects. | ${ }^{3} 144,274$ | 135, 884 | \$13, 491, 223 | 19, 164, 694 | \$0. 704 | \$16,009, 255 |
| Building construction. | 28, 269 | 25, 283 | 2, 455, 924 | 3,288, 411 | . 747 | 3,586, 501 |
| Electrification.-.- | 146 | 87 | 4,881 | 9,062 | . 539 | 28,068 |
| Forestry- | 46 | 43 | 3,572 | 7,459 | . 479 | 1,239 |
| Naval vessels. | 37, 002 | 36,088 | 4,734, 422 | 5, 391, 645 | . 878 | 4,080, 005 |
| Public roads | (3) | 41, 103 | 2,970,373 | $5,143,068$ | . 578 | 5, 229, 230 |
| Reclamation. | 894 | 864 | 141, 317 | 176,798 | . 799 |  |
| Pliver, harbor, and flood | 31,403 | 27, 739 | 2, 874, 746 | 4,587,579 | . 627 | 2,698,022 |
| Streets and roads. | 2,689 | 2,448 | 133, 181 | 285, 251 | . 467 | 135,347 |
| Water and sewerage | 279 | 164 | 12,462 | 19, 675 | . 633 | 49,455 |
| Miscellaneous | 2,443 | 2,165 | 160,345 | 255, 746 | . 627 | 201, 388 |

[^9]Employment, pay rolls, and man-hours worked on construction projects financed from regular governmental appropriations from December 1935 to December 1936 are shown, by months, in table 20.

Table 20.-Employment on Construction Projects Financed from Regular Governmental Appropriations, December 1935 to December $1936^{1}$
[Subject to revision]

${ }^{1}$ Data are for the month ending on the 15th.

## State-Roads Projects

A record of employment and pay-roll disbursements in the construction and maintenance of State roads from December 1935 to December 1936 is presented in table 21.

Table 21.-Employment on Construction and Maintenance of State Roads, December 1935 to December $1936^{1}$
[Subject to revision]

| Month |  | Number of employees working on- |  |  | Total pay |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | New roads | Maintenance | Total |  |
|  | 1935 |  |  |  |  |
|  | 1986 |  |  |  |  |
| 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 |
| December |  | 21, 394 | 138,540 | 159, 934 | 10,000,371 |

${ }^{1}$ 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.

## Material Orders Placed

The value of material orders placed on construction projects financed by Federal funds in the fourth quarter of $1936,{ }^{1}$ is presented in table 22.

[^10]In the fourth quarter of 1936 on the Public Works Administration program, orders have been placed for materials valued at approximately $\$ 99,145,000$. Of this amount, $\$ 30,317,000$ has been expended for iron and steel products, $\$ 7,683,000$ for cement, $\$ 7,760,000$ for forest products, and $\$ 11,243,000$ for machinery.

On The Works Program, material orders placed in the fourth quarter of 1936 amounted to $\$ 123,297,000$. Previous sections of this report have shown the number of workers employed at the site of construction projects financed from Federal funds. The direct employment, however, is only a partial picture, as the manufacture of the materials used on the projects also creates a large amount of employment.

It is estimated that in fabricating the materials listed in table 22 approximately 961,000 man-months of labor have been, or will be created. This includes only the labor required in the fabrication of material in the form in which it is to be used. No estimate is made of the labor required in producing the raw material or in transporting it to the point of manufacture. In manufacturing structural steel, for example, the only labor included is that occurring in the fabricating mills. No estimate is made for the labor created in mining, smelting, and transporting the ore; nor for the labor in the blast furnaces, the open hearth furnaces, and the blooming mills.

Table 22.-Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1936
[Subject to revision]

| Type of material | Total | Projects |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Public Works Ad-ministration ${ }^{1}$ | Reconstruction Finance Corporation ${ }^{2}$ | Regular Governmental ${ }^{8}$ | The Works Program ${ }^{\text {4 }}$ |  |
|  |  |  |  |  | Federal construction | $\begin{aligned} & \text { Operated } \\ & \text { W. } \mathbf{P} \text {. A. } \end{aligned}$ |
| All materials <br> Textiles and their products. | \$280, 686, 062 | \$99, 144, 507 | \$5, 739, 795 | \$52, 852, 599 | \$32, 400, 924 | \$90, 548, 237 |
|  | ${ }^{\text {® }} 17,635,431$ | 134, 064 | 333 | 46,426 | 43,192 | 17,411, 416 |
| Awnings, tents, canvas, etc.-- | 36,448 11,183 | 19,388 | 333 | 5,101 | 11,626 |  |
| Cordage and twine...--------------- | 29,854 | 4,429 |  | 16,139 | 9,286 |  |
| Cotton goods. | 4,182 | 3,196 |  | 287 | 699 |  |
| Felt goods. | 12, 812 | 7,374 |  | 4,300 | 1,138 |  |
| Jute goods. | 3,330 | 3,280 |  |  | 50 |  |
| Linoleum. | 115,249 | 83,922 |  | 14, 009 | 17,318 |  |
|  | 6,206 | 912 |  | 3,186 | 2, 108 |  |
| Upholstering materials, n.e.c- | 175 |  |  |  | 175 |  |
|  | 4,576 | 380 |  | 3, 404 | 792 |  |
|  | - 21, 704, 494 | 7,760,161 | 214, 709 | 2,720,816 | 3, 128, 553 | ${ }^{6} 7,880,255$ |
| Cork products.-------------- | 61,050 | 50,355 |  | 7,001 | 3,694 |  |
| Lumber and timber products, <br> n. e. c.. | 10, 546, 727 | 5,387, 087 | 213,382 | 2, 285, 354 | 2, 660, 904 | 回 |
| Planing-mill products.------- | 3, 164, 043 | 2,274,934 | 1,327 | 424,716 | 463, 066 |  |
| Window and door screens and weatherstrip | 52,419 | 47,785 |  | 3,745 | 889 |  |

See footnotes at end of table.

Table 22.-Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1936-Continued
[Subject to revision]


See footnotes at end of table.

Table 22.-Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1936-Continued
[Subject to revision]

| Type of material | Total | Projects |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Public } \\ & \text { Works Ad- } \\ & \text { ministra- } \\ & \text { tion } \end{aligned}$ | Reeon-structionFinanceCorpora-tion | Regular Government | The Works Program |  |
|  |  |  |  |  | $\begin{gathered} \text { Federal } \\ \text { construc- } \\ \text { tion } \end{gathered}$ | $\begin{aligned} & \text { Operated } \\ & \text { w. Py. A. } \end{aligned}$ |
| Machinery, not including transportation equipment......... | - \$35, 978, 657 | \$11, 242, 643 | \$1,736, 911 | \$16, 359, 187 | \$3, 359, 102 | O\$83, 280, 814 |
| Electrical machinery, apparatus, and supplies $\qquad$ | 9, 466, 041 <br> 1, 068, 042 <br> 5, 423, 328 <br> 16, 804, 805 397, 875 <br> 112, 474 <br> 2, 375, 288 <br> 193,837 | 2, 373, 501 889, 245 <br> 1, 108, 627 <br> 5, 398,936 161, 842 111, 456 1,071,062 127, 974 | $\begin{array}{r} 174,975 \\ 5,358 \\ 189,913 \\ 1,335,92 \\ 10,076 \end{array}$ | $\begin{array}{r} 4,365,976 \\ 167,961 \\ 3,571,573 \\ 6,837,425 \\ 194,657 \end{array}$ | $\begin{array}{r} 1,012,279 \\ 5,478 \\ 553,215 \end{array}$ | 1, 539,310 |
| ment...- |  |  |  |  |  |  |
| Engines, turbines, tractors, and waterwheels |  |  |  |  |  |  |
| Foundry and machine shop products, n. e. c................ |  |  |  |  | 1,628,005 | 1,604,537 |
| Machine tools <br> Meters (gas, water, etc.) and gas generators. |  |  |  |  | 31,300 1,018 |  |
| $P$ Pumps and pumping equip- |  |  | 20, 687 | $\begin{array}{r} 1,157,419 \\ 64,178 \end{array}$ | $\begin{array}{r} 126,120 \\ 1,687 \\ \hline \end{array}$ |  |
| Refrigeratorsand refrigerating and ice-making apparatus. |  |  |  |  |  |  |
| Transportation equipment-air, land, and water............. | 1,544, 896 | 178, 165 | 64,383 | 62, 158 | 209,700 | 1,030,490 |
| Boats, steel and wooden |  | $\begin{array}{r} 410 \\ 12,721 \end{array}$ |  | 17,91863 | 528 | -----....---- |
| Carriages and wagons. |  |  |  |  | 480 |  |
| Looomotives, steam ${ }^{\text {Letor }}$ |  | $\begin{array}{r} 11,975 \\ 152,05 \\ 1,002 \end{array}$ | $\begin{gathered} -13,409 \\ 50,974 \\ 50 \end{gathered}$ | $\begin{aligned} & 594,583 \\ & \hline 9 . \end{aligned}$ | $\begin{gathered} 1,468 \\ 199,264 \end{gathered}$ |  |
| Motor vehicles, trucks. |  |  |  |  |  |  |
| Railway cars, freigh |  |  |  |  |  |  |
| Miscellaneou | $\frac{1,002}{51,500,818}=$ | 17,114, 835 | 863, 170 | 8, 257, 629 | 7, 208, 411 | 18, 056,773 |
| Relting, miscellaneous | $\begin{array}{r} 11,273 \\ 596,76 \\ 5,531,783 \end{array}$ | $\begin{aligned} & 124 \\ & 35,250 \\ & 38 \end{aligned}$ | ${ }_{213}^{225}$ | $\begin{array}{r} 9,964 \\ 142,081 \\ \hline 142 \end{array}$ | $\begin{array}{r} 93,50 \\ 8,524 \\ 7,583 \end{array}$ | 335,853 |
| Creosote. |  |  |  |  |  |  |
| Electric wiring and fixtures |  | 3,810,313 | $10 \overline{4}, \overline{0} \overline{8}$2,026 | 982, ${ }^{162}$ | 634, 228 | -------- |
| Furniture, including store and office fixtures | 2,716, 365 | 1,715,009 |  | 54, 255 | 54, 166 | 890, 008 |
| Instruments, professional and seientific | $\begin{array}{r}123,506 \\ 19,552 \\ \hline 1\end{array}$ |  |  |  |  |  |
| Mattresses and bed springs |  | 18, 394 |  | 28,259$\left.\begin{array}{r}562 \\ 246 \\ 1\end{array} \right\rvert\,$ | 5r, 396 | ------------- |
| Paper products...- | - $\begin{array}{r}3,880 \\ 19,906\end{array}$ | 17,778 |  |  |  |  |
| Paving materials and mix- |  |  |  | $\begin{array}{r} 1,194 \\ 1,060,967 \\ 2,901,520 \end{array}$ | $\begin{aligned} & 1,224,263 \\ & 2,234,531 \end{aligned}$ | $\begin{aligned} & 7,352,960 \\ & 1,822,661 \end{aligned}$ |
| Petroseum products. | $\begin{array}{r} 11,135,929 \\ 9,134,640 \end{array}$ | $\begin{gathered} 1,482,775 \\ 1,883,698 \end{gathered}$ | 14,964 292,880 |  |  |  |
| Photographic apparatus and materials |  |  |  | $\frac{1,201,520}{1,2,500}$ | $\left.\begin{array}{r} 2,234,531 \\ \mathbf{1}, 344 \end{array}\right]$ |  |
| Plumbing supplies, n. e.c | $\begin{aligned} & 4,797,473 \\ & 7,868 \end{aligned}$ | 3,369, 486 | 20,334 |  | 325, 885 |  |
| Radio apparatus and supplie |  |  |  | 127,43121,389 |  | 717, 269 |
| Rubber goods.. | $1,344,851$ 436,659 | 983,303 59,766 | - ${ }_{75,1439}$ |  | 106,677 | 173, 688 |
| Steam and other packing, pipe and boiler covering, and |  |  |  | 28, 271 |  |  |
| Theatrical scenery and stage | $\begin{array}{r} 272,709 \\ 40,042 \\ 15,239,677 \end{array}$ | 240, 887 |  |  | 3,464 | --------------- |
| equipment - Window shades and fixtures--- |  | $\begin{array}{r} 48,39 \\ 3,359,052 \end{array}$ |  | $\begin{array}{r} 135 \\ 2,529,631 \end{array}$ |  |  |
| Other materials.....-.-.------ |  |  | 348,840 |  | $\begin{array}{r} 5,203 \\ 2,237,651 \\ \hline \end{array}$ | $\overline{6}, 764,03 \overline{3}$ |

[^11]The information concerning man-months of labor created in fabricating materials is obtained by sending a questionnaire to each firm receiving an award for materials to be financed from Federal or State funds. The manufacturer is requested to make an estimate of the number of man-hours created in his plant in manufacturing the materials specified in the contract. For materials purchased directly by contractors the Bureau estimates the man-months of labor created. This estimate is based upon the findings of the Census of Manufactures for 1933.

The value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, by type of material, for the year 1935 and for the first, second, third, and fourth quarters of 1936 is shown in table 23.

Table 23.-Value of Material Orders Placed on Federal Professional, Technical, and Clerical Projects Financed by The Works Program


A cumulative total for rentals and services supplied to work projects operated by the Works Progress Administration from July 1935 to December 1936, inclusive, is shown below, by type of service.

Table 24.-Rentals and Services Supplied to Work Projects Operated by the Works Progress Administration July 1935 to December 1936, Inclusive ${ }^{1}$
[Subject to revision]

| Type of service | Total | Type of service | Total |
| :---: | :---: | :---: | :---: |
| All services. | \$212, 105, 768 | Paving, road building, and other | \$54, 855, 178 |
| Busses and autos. | 2, 660, 632 | Other equipment (including office- |  |
| Teams and wagons | 15, 660, 403 |  | 5,844,836 |
| Trucks and vans. | 115, 957, 483 | Space rentals and services | 5, 812, 968 |
| Other transportation and travel | 4,651, 823 | Other services (including utilities) -- | 6,662, 445 |

1 Data are cumulative to Dec. 31,1936 .
The value of material orders placed on the various programs financed by Federal funds for the year 1935 and for the first, second, third, and fourth quarters of 1936 is given in table 25.

Table 25.-Value of Material Orders Placed on Projects Financed by Federal Funds
[Subject to revision]

| Program | Year 1935 | Year 1936 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | First quarter | Second quarter | Third quarter | Fourth quarter |
| Total. | \$595,760,067 | \$1,015,469,234 | \$180,993,443 | \$254,395,694 | \$299,046,426 | \$281,033,671 |
| P. W. A., including E. R. <br> A. A | 439, 152, 426 | 401, 342, 634 | 75, 325, 963 | 110, 041, 383 | 116, 830, 781 | 99, 144, 507 |
| R. F. C. ${ }^{\text {d }}$ | 26, 371, 035 | 19, 963, 153 | 4, 177, 279 | 5, 260, 573 | 4,785, 506 | 5, 739, 795 |
| R. G. A. ${ }^{\text {a }}$ | 49, 430,966 | 172, 818, 639 | 19, 438, 646 | 34, 768, 198 | 65, 759, 196 | 52, 852, 599 |
| The W orks Program: <br> Federal construction | 34, 434, 125 | 140, 563, 762 | 26, 499, 288 | 39,584, 256 | 42, 079, 294 | 32, 400, 924 |
| Professional, technical, and clerical | 329, 212 | 1,376, 250 | 202, 211 | 419, 501 | 406, 929 | 347, 609 |
| Operated by W. P. A.t- | 46, 042, 303 | 279, 404, 796 | 55, 350, 056 | 64, 321, 783 | 69, 184, 720 | 90, 548, 237 |

${ }^{1}$ Includes RFC Mortgage Co. Does not include orders placed on projects for which contracts were awarded before Mar. 15, 1934.
${ }^{2}$ Does not include orders placed on projects for which contracts were awarded before July 1, 1934.
A summary of the man-months of employment created in the final fabrication of the materials used on the various programs, for the year 1935 and for the first, second, third, and fourth quarters of 1936 is presented in table 26.

Table 26.-Number of Man-Months of Labor Created in Final Fabrication of Materials Purchased from Federal Funds
[Subject to revision]

| Program | Year 1935 | Year 1936 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | First quarter | Second quarter | Third quarter. | Fourth quarter |
| Total | 1,840,033 | 3, 486, 249 | 634, 069 | 889,095 | 1,001,654 | 961, 431 |
| P. W. A., including E. R. A. A | 1, 329, 546 | 1,398, 039 | 259, 602 | 393, 169 | 402, 310 | 342,958 |
| R. F. C.1 | 79,913 | 65, 392 | 12, 034 | 15, 872 | 20,452 | 17,034 |
| R. G. A. ${ }^{2}$ | 154, 472 | 538, 193 | 59, 528 | 108,972 | 202, 025 | 167, 668 |
| The Works Program: Federal construction | 109, 252 | 449, 972 | 88, 068 | 126, 208 | 133,417 | 102, 279 |
| Professional, technical, and clerical | 1,289 | 5,225 | 795 | 1,727 | 1,427 | 1,276 |
|  | 165, 561 | 1,029, 428 | 214, 042 | 243,147 | 242, 023 | 330, 216 |

[^12]
[^0]:    1 Revised and adjusted to Census of Manufactures totals for 1933.
    ${ }^{2}$ Preliminary-Source: Interstate Commerce Commission.
    ${ }^{9}$ Not available. ${ }^{4}$ Less than 110 of 1 percent.
    8 Cash payments only; the additional value of board, room, and tips cannot be computed.

[^1]:    ${ }^{1}$ Comparable indexes for earlier years for all of these industries, except year-round hotels, will be found in the November 1934 and subsequent issues of this pamphlet, or the February 1935 and subsequent issues of the Monthly Labor Review. Comparable indexes for year-round hotels will be found in the June 1935 issue of this pamphiet, or the September 1935 issue of the Monthly Labor Review.
    2 Not including electric-railroad car building and repairing; see transportation equipment and railroad repair-shop groups, manufacturing industries, table 3.

[^2]:    1 Data not available.

[^3]:    1 Data relate to "industrial area."

[^4]:    ${ }^{1}$ Data are for the month ending on the 15th.
    2 Maximum? number employed during any 1 week of the month by each contractor and Government agency doing force-account work.
    ${ }_{3}$ Includes a maximum of 15,777 and an average of 13,738 employees working on low-cost housing projects financed from E. R. A. A. 1935 funds, who were paid $\$ 1,498,902$ for $1,680,430$ man-hours of labor. Material orders in the amount of $\$ 2,010,136$ were placed for these projects. These data are also included in separate tables covering projects financed from The Works Program.
    4 Includes weekly average for public roads.
    5 Estimated by the Bureau of Public Roads.
    ${ }_{7}^{8}$ Not available; average included in total.
    7 Data not a vailable.
    ${ }^{8}$ These data, excluding figures for projects financed from F. D. A. 1936 funds, are also included in separate tables covering projects financed by The Works Program. These data include a 1 .aximum of 149 and an average of 117 employees working on non-Federal projects financed from F. D. A. 1936 funds, who were paid $\$ 7,714$ for 8,453 man-hours of labor. Material orders in the amount of $\$ 32,504$ were placed for these projects.

[^5]:    1 Unless otherwise noted data are for the month endins on the 15th.
    ${ }^{2}$ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.
    ${ }^{3}$ These data are for projects under construction in Puerto Rico.
    ${ }^{4}$ Includes data for 138,919 employees working on non-Federal projects and 15,777 employees working on low-cost housing projects. These data are included in tables covering projects under the jurisdiction of P. W.A.
    ${ }^{5}$ Data on a monthly basis are not available.

    - These data are for the month ending Nov. 30,1936 , and exclude student-aid projects.
    ${ }^{7}$ 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 December 1936 are given in table 14.

[^6]:    1 Data are for the month ending on the 15th with exceptions noted in the preceding table.
    ${ }^{1}$ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.
    ${ }^{3}$ These data are included in tables covering projects under the jurisdiction of the Public Works Administration. The data for December include 138,919 employees working on non-Federal projects and 15,777 employees working on low-cost housing projects.
    4 Data on a monthly basis are not available.

[^7]:    ${ }^{1}$ Data on number of employees refer to employment on last day of month. Amounts of pay rolls are for entire month.
    2 December data include 2,976 enrollees and pay roll of $\$ 62,828$ outside continental United States; November, 2,819 enrollees and pay roll of $\$ 56,206$.
    3 Included in executive service, tables 9 and 10.
    4 Includes carpenters, electricians, and laborers.
    ${ }^{8} 37,942$ employees and pay roll of $\$ 5,318,635$ also included in executive service, tables 9 and 10.
    6 38,174 employees and pay roll of $\$ 5,379,003$ also included in executive service, tables 9 and 10 .

[^8]:    1 Data on number of employees refer to employment on last day of month. Amounts of pay rolls are for entire month.

[^9]:    1 Data are for the month ending on the 15th.
    ${ }^{2}$ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.
    ${ }^{3}$ Includes weekly average for public roads.
    ${ }^{4}$ Estimated by the Bureau of Public Roads.

    - Not a vailable; average number included in total.

[^10]:    ${ }^{1}$ Unless otherwise specified, data presented in this section are of the $15 t h$ of the month.

[^11]:    ${ }^{1}$ Includes material orders placed on P. W. A. projects financed by the Emergency Relief Appropriation Act of 1935.
    ${ }_{2}$ Does not include material orders placed on projects for which contracts were awarded before Mar. 15, 1934. Includes projects financed by RFC Mortgage Co.
    ${ }^{3}$ Does not include material orders placed on projects for which contracts were awarded before July 1, 1934.
    ${ }^{4}$ Material orders placed on P. W. A. projects, financed by E. R. A. A. 1935, included under P. W. A.
    ${ }^{8}$ For quarterly period ending Dec. 31, 1936. Includes National Youth Administration projects for quarterly period ending Nov. 30, 1936.
    ${ }^{a}$ Includes material orders placed for projects operated by W. P. A. which are not classified in detail.

[^12]:    ${ }^{1}$ Includes RFC Mortgage Co. Does not include projects for which contracts were awarded before Mar. 15, 1934.

    2 Does not include projects for which contracts were awarded before July 1, 1934.

