

# **EMPLOYMENT and PAY ROLLS**

**DETAILED REPORT  
JANUARY 1949**

**United States Department of Labor  
Bureau of Labor Statistics**

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## ESTIMATES OF MANUFACTURING PRODUCTION WORKERS - REVISED SERIES

### Industries in the Apparel and Other Finished Textile Products Group

In this Detailed Report the Bureau presents a revised series of production-worker estimates for the individual industries comprising the apparel and other finished textile products group. The new estimates have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series. Only data beginning with January 1946 are affected by this latest adjustment.

Only the industries indicated below were affected; comparison of the remaining industries with 1946 bench-mark levels indicated that no adjustment was necessary.

Men's clothing, not elsewhere classified  
Shirts, collars, and nightwear  
Work shirts  
Millinery  
Curtains, draperies, and bedspreads  
Housefurnishings, other than curtains, etc.  
Textile bags

This report shows the revised production-worker employment estimates and indexes of employment and weekly pay rolls for the months currently presented. A set of summary sheets presenting comparable data from January 1939, to date, for the industries in this group will be provided upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

## EMPLOYMENT AND PAY ROLLS

## Detailed Report

January 1949

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Data for the 2 most recent months  
shown are subject to revision

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Explanatory notes outlining briefly the  
concepts, methodology, and sources used  
in preparing data for this report appear  
in the appendix. See pages i - ix.

2.  
 TABLE 1: Estimated Number of Wage and Salary Workers in Nonagricultural Establishments, by Industry Division  
 (In thousands)

| Industry division                   | 1949    |          | 1948     |         | 1947     |  |
|-------------------------------------|---------|----------|----------|---------|----------|--|
|                                     | January | December | November | January | December |  |
| TOTAL                               | 44,329  | 46,090   | 45,739   | 44,603  | 45,618   |  |
| Manufacturing                       | 15,880  | 16,284   | 16,461   | 16,267  | 16,354   |  |
| Mining                              | 924     | 939      | 938      | 922     | 925      |  |
| Contract construction               | 1,906   | 2,079    | 2,162    | 1,871   | 1,978    |  |
| Transportation and public utilities | 3,978   | 4,066    | 4,066    | 4,020   | 4,071    |  |
| Trade                               | 9,625   | 10,381   | 10,034   | 9,622   | 10,288   |  |
| Finance                             | 1,709   | 1,722    | 1,720    | 1,680   | 1,676    |  |
| Service                             | 4,546   | 4,625    | 4,644    | 4,723   | 4,688    |  |
| Government                          | 5,761   | 5,994    | 5,714    | 5,498   | 5,638    |  |

See explanatory notes, sections A - H, and the glossary for definitions.

TABLE 2: Estimated Number of Wage and Salary Workers in Manufacturing Industries,  
by Major Industry Group

(In thousands)

| Major industry group                               | 1949    | 1948     |          | 1947    |          |
|--|---------|----------|----------|---------|----------|
|  | January | December | November | January | December |
| ALL MANUFACTURING                                  | 15,880  | 16,284   | 16,461   | 16,267  | 16,354   |
| DURABLE GOODS                                      | 8,006   | 8,226    | 8,303    | 8,256   | 8,274    |
| Iron and steel and their products                  | 1,894   | 1,935    | 1,952    | 1,925   | 1,922    |
| Electrical machinery                               | 714     | 730      | 735      | 767     | 773      |
| Machinery, except electrical                       | 1,537   | 1,560    | 1,563    | 1,583   | 1,589    |
| Transportation equipment, except automobiles       | 579     | 588      | 588      | 598     | 591      |
| Automobiles  | 972     | 980      | 977      | 989     | 983      |
| Nonferrous metals and their products               | 454     | 468      | 474      | 478     | 482      |
| Lumber and timber basic products                   | 803     | 874      | 908      | 816     | 829      |
| Furniture and finished lumber products             | 528     | 552      | 562      | 580     | 578      |
| Stone, clay, and glass products                    | 525     | 539      | 544      | 520     | 527      |
| NONDURABLE GOODS                                   | 7,874   | 8,058    | 8,158    | 8,011   | 8,080    |
| Textile-mill products and other fiber manufactures | 1,322   | 1,358    | 1,368    | 1,413   | 1,409    |
| Apparel and other finished textile products        | 1,309   | 1,327    | 1,340    | 1,311   | 1,305    |
| Leather and leather products                       | 410     | 409      | 408      | 445     | 446      |
| Food   | 1,719   | 1,792    | 1,840    | 1,688   | 1,735    |
| Tobacco manufactures                               | 96      | 100      | 103      | 101     | 102      |
| Paper and allied products                          | 481     | 491      | 493      | 482     | 484      |
| Printing, publishing, and allied industries        | 728     | 738      | 734      | 726     | 732      |
| Chemicals and allied products                      | 783     | 788      | 790      | 774     | 778      |
| Products of petroleum and coal                     | 236     | 240      | 242      | 238     | 238      |
| Rubber products                                    | 241     | 246      | 249      | 259     | 261      |
| Miscellaneous industries                           | 549     | 569      | 591      | 574     | 590      |

See explanatory notes, sections A H, and the glossary for definitions.

4.  
TABLE 3: Estimated Number of Wage and Salary Workers in Selected Nonmanufacturing Industries, by Major Industry Group

(In thousands)

| Major industry group                                     | 1949    | 1948     |          | 1947    |          |
|--|---------|----------|----------|---------|----------|
|  | January | December | November | January | December |
| MINING   | 924     | 939      | 938      | 922     | 925      |
| Anthracite   | 82      | 82       | 82       | 81      | 81       |
| Bituminous coal  | 419     | 423      | 421      | 422     | 421      |
| Metal  | 100     | 101      | 99       | 100     | 100      |
| Quarrying and nonmetallic                                | 86      | 93       | 95       | 89      | 94       |
| Crude petroleum and natural gas production <sup>1/</sup> | 237     | 240      | 241      | 230     | 229      |
| TRANSPORTATION AND PUBLIC UTILITIES                      | 3,978   | 4,066    | 4,066    | 4,020   | 4,071    |
| Transportation   | 2,729   | 2,809    | 2,809    | 2,809   | 2,858    |
| Communication  | 734     | 740      | 740      | 719     | 719      |
| Other public utilities                                   | 515     | 517      | 517      | 492     | 494      |
| GOVERNMENT   | 5,761   | 5,994    | 5,714    | 5,498   | 5,638    |
| Federal  | 1,876   | 2,156    | 1,856    | 1,743   | 1,985    |
| State and local  | 3,885   | 3,838    | 3,858    | 3,755   | 3,653    |

See explanatory notes, sections A - H, and the glossary for definitions.

<sup>1/</sup> Includes well drilling and rig building.

TABLE 4: Federal Civilian Employment and Pay Rolls in All Areas and in Continental United States, and Total Civilian Government Employment and Pay Rolls in Washington, D. C. 1/

(In thousands)

| Area and branch                  | Employment<br>(as of first of month) |          |          |         | Pay rolls 2/<br>(total for month) |           |           |           |
|----------------------------------|--------------------------------------|----------|----------|---------|-----------------------------------|-----------|-----------|-----------|
|                                  | 1949                                 |          | 1948     |         | 1949                              |           | 1948      |           |
|                                  | January                              | December | November | January | January                           | December  | November  | January   |
| <u>All Areas</u>                 |                                      |          |          |         |                                   |           |           |           |
| TOTAL FEDERAL                    | 2,089.4                              | 2,374.9  | 2,078.6  | 1,983.2 | \$532,091                         | \$624,693 | \$550,308 | \$483,071 |
| Executive                        | 2,050.2                              | 2,335.8  | 2,039.2  | 1,943.5 | 522,281                           | 614,566   | 540,393   | 473,466   |
| Defense agencies                 | 933.7                                | 937.2    | 939.5    | 890.7   | 224,999                           | 245,159   | 235,507   | 211,495   |
| Post Office Department           | 475.8                                | 754.1    | 459.7    | 430.3   | 124,266                           | 178,899   | 125,130   | 100,395   |
| Other agencies                   | 640.7                                | 644.5    | 645.0    | 622.5   | 173,016                           | 190,508   | 179,756   | 161,576   |
| Legislative                      | 7.4                                  | 7.3      | 7.4      | 7.0     | 2,657                             | 2,722     | 2,682     | 2,442     |
| Judicial                         | 3.5                                  | 3.5      | 3.5      | 3.5     | 1,352                             | 1,468     | 1,419     | 1,346     |
| Government corporations          | 28.3                                 | 28.3     | 28.5     | 29.2    | 5,801                             | 5,937     | 5,814     | 5,817     |
| <u>Continental United States</u> |                                      |          |          |         |                                   |           |           |           |
| TOTAL FEDERAL                    | 1,896.1                              | 2,176.3  | 1,876.5  | 1,760.7 | 493,368                           | 581,479   | 509,069   | 443,259   |
| Executive                        | 1,863.6                              | 2,144.0  | 1,843.9  | 1,728.3 | 484,180                           | 572,012   | 499,801   | 434,366   |
| Defense agencies                 | 777.7                                | 777.5    | 770.3    | 704.3   | 195,082                           | 211,614   | 203,323   | 179,395   |
| Post Office Department           | 474.1                                | 751.2    | 458.0    | 428.8   | 123,815                           | 178,151   | 124,667   | 100,052   |
| Other agencies                   | 611.8                                | 615.3    | 615.6    | 595.2   | 165,283                           | 182,247   | 171,811   | 154,919   |
| Legislative                      | 7.4                                  | 7.3      | 7.4      | 7.0     | 2,657                             | 2,722     | 2,682     | 2,442     |
| Judicial                         | 3.5                                  | 3.4      | 3.5      | 3.4     | 1,314                             | 1,428     | 1,379     | 1,309     |
| Government corporations          | 21.6                                 | 21.6     | 21.7     | 22.0    | 5,217                             | 5,318     | 5,207     | 5,142     |
| <u>WASHINGTON, D. C.</u>         |                                      |          |          |         |                                   |           |           |           |
| TOTAL GOVERNMENT                 | 237.5                                | 241.4    | 236.5    | 221.8   | 71,989                            | 78,846    | 73,221    | 63,295    |
| D. C. government                 | 18.9                                 | 18.8     | 19.1     | 18.5    | 4,636                             | 4,741     | 4,526     | 4,499     |
| Federal                          | 218.6                                | 222.6    | 217.4    | 203.3   | 67,353                            | 74,105    | 68,695    | 58,796    |
| Executive                        | 210.6                                | 214.7    | 209.4    | 195.7   | 64,470                            | 71,139    | 65,782    | 56,141    |
| Defense agencies                 | 71.2                                 | 72.2     | 71.1     | 65.1    | 20,614                            | 22,526    | 21,656    | 18,656    |
| Post Office Department           | 7.6                                  | 10.8     | 7.7      | 7.2     | 2,741                             | 3,704     | 2,750     | 2,776     |
| Other agencies                   | 131.8                                | 131.7    | 130.6    | 123.4   | 41,115                            | 44,909    | 41,376    | 36,709    |
| Legislative                      | 7.4                                  | 7.3      | 7.4      | 7.0     | 2,657                             | 2,722     | 2,682     | 2,442     |
| Judicial                         | .6                                   | .6       | .6       | .6      | 226                               | 244       | 231       | 213       |

See the glossary for definitions.

1/ Data for Central Intelligence Agency are excluded.

2/ September 1948 pay rolls revised as follows:

| Area              | Total Government | Total Federal | Executive | Defense agencies |
|-------------------|------------------|---------------|-----------|------------------|
| All Areas         | ---              | \$547,818     | \$537,969 | \$232,975        |
| Continental U. S. | ---              | 506,281       | 497,084   | 200,912          |
| Washington, D. C. | \$73,551         | 68,944        | 66,020    | 22,141           |



6.  
TABLE 5: Personnel and Pay of the Military Branch of the Federal Government 1/  
(In thousands)

| Designation                      | 1949      | 1948      |           |           | 1947      |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
|                                  | January   | December  | November  | January   | December  |
| PERSONNEL (as of first of month) |           |           |           |           |           |
| Total                            | 1,644     | 1,628     | 1,610     | 1,422     | 1,463     |
| By branch:                       |           |           |           |           |           |
| Army                             | 677       | 662       | 647       | 2/ 898    | 2/ 911    |
| Air Force                        | 412       | 410       | 410       | 2/        | 2/        |
| Navy                             | 447       | 449       | 446       | 421       | 445       |
| Marine Corps                     | 86        | 85        | 85        | 83        | 87        |
| Coast Guard                      | 22        | 22        | 21        | 20        | 20        |
| By sex:                          |           |           |           |           |           |
| Men                              | 1,629     | 1,613     | 1,596     | 1,405     | 1,446     |
| Women                            | 15        | 15        | 14        | 17        | 17        |
| PAY (for entire month)           |           |           |           |           |           |
| Total                            | \$299,582 | \$294,061 | \$298,971 | \$300,241 | \$300,257 |
| By branch:                       |           |           |           |           |           |
| Army and Air Force               | 195,048   | 189,237   | 191,206   | 179,389   | 183,983   |
| Navy                             | 85,638    | 85,598    | 88,418    | 100,639   | 97,645    |
| Marine Corps                     | 14,112    | 14,336    | 14,555    | 15,506    | 14,427    |
| Coast Guard                      | 4,785     | 4,891     | 4,792     | 4,707     | 4,202     |
| By type of pay:                  |           |           |           |           |           |
| Pay rolls                        | 265,618   | 260,046   | 264,137   | 250,953   | 246,532   |
| Mustering-out pay                | 5,012     | 5,221     | 5,733     | 13,465    | 13,293    |
| Family allowance                 | 28,709    | 28,605    | 28,534    | 23,454    | 23,827    |
| Leave payments                   | 243       | 190       | 567       | 12,369    | 16,605    |
| Cash                             | 123       | 133       | 166       | 2,205     | 2,866     |
| Bonds                            | 120       | 56        | 401       | 10,164    | 13,739    |

See the glossary for definitions.

1/ Because of rounding, the individual figures may not add to group totals.

2/ Separate figures for Army and Air Force not available, combined data shown under Army.

TABLE 6: Estimated Number of Wage and Salary Workers In Nonagricultural Establishments for Selected States

(In thousands)

| State                 | 1948     |          |         | 1947     |          |
|-----------------------|----------|----------|---------|----------|----------|
|                       | December | November | October | December | November |
| Arizona               | 159      | 156      | 156     | * 156    | * 151    |
| Arkansas              | 306      | 300      | 302     | 295      | 290      |
| California            | 3,113    | 3,085    | 3,122   | 3,122    | 3,071    |
| Connecticut           | 780      | 775      | 776     | 792      | 782      |
| Georgia               | 754      | 751      | 753     | * 752    | * 747    |
| Idaho                 | 131      | 132      | 134     | 125      | 125      |
| Illinois              | 3,256    | 3,230    | 3,228   | 3,225    | 3,180    |
| Indiana               | 1,226    | 1,215    | 1,220   | 1,221    | 1,205    |
| Maine                 | 262      | 263      | 269     | 270      | 268      |
| Maryland              | 724      | 723      | 719     | 698      | 689      |
| Massachusetts         | 1,755    | 1,727    | 1,732   | 1,773    | 1,739    |
| Minnesota             | 809      | 813      | 813     | 795      | 791      |
| Missouri              | 1,158    | 1,144    | 1,153   | * 1,156  | * 1,140  |
| Montana               | 142      | 142      | 143     | 138      | 137      |
| Nevada <sup>1/</sup>  | 47       | 48       | 48      | * 49     | 48       |
| New Jersey            | 1,585    | 1,584    | 1,594   | 1,604    | 1,580    |
| New Mexico            | 129      | 129      | 129     | 121      | 119      |
| New York              | 5,551    | 5,502    | 5,513   | 5,575    | 5,508    |
| Oklahoma              | 480      | 470      | 470     | 452      | 444      |
| Pennsylvania          | 3,704    | 3,671    | 3,668   | 3,662    | 3,619    |
| Rhode Island          | 287      | 288      | 288     | 298      | 294      |
| Tennessee             | 750      | 748      | 752     | 722      | 709      |
| Texas                 | 1,798    | 1,777    | 1,768   | 1,715    | 1,686    |
| Utah                  | 183      | 186      | 191     | 181      | 179      |
| Vermont <sup>1/</sup> | 95       | 94       | 94      | 97       | 95       |
| Washington            | 672      | 676      | 685     | 668      | 667      |
| Wisconsin             | 1,006    | 1,000    | 1,003   | 996      | 982      |

See explanatory notes, sections H and I.

<sup>1/</sup> Does not include contract construction.

\* Other months have been revised as follows:

Arizona -- January 1948 through July 1948 to 155, 155, 155, 156, 156, 156, and 155.Georgia -- January 1948 through September 1948 to 737, 731, 740, 738, 739, 742, 736, 747, and 749.Missouri -- January 1948 through September 1948 to 1,125, 1,114, 1,120, 1,120, 1,126, 1,139, 1,140, 1,141, and 1,144.Nevada January 1948 through March 1948 to 48, 47, and 47.

TABLE 7: Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State

(In thousands)

| Region and State           | 1948     |          |         | 1947     |          |
|----------------------------|----------|----------|---------|----------|----------|
|                            | December | November | October | December | November |
| <b>NEW ENGLAND:</b>        |          |          |         |          |          |
| Maine 1/                   | 109.3    | 111.2    | 113.7   | 118.5    | 117.4    |
| New Hampshire              | 79.2     | 80.4     | 82.1    | 85.3     | 83.9     |
| Vermont 1/                 | 36.2     | 36.6     | 36.7    | 40.0     | 39.5     |
| Massachusetts              | 715.7    | 722.8    | 727.9   | 757.2    | *753.0   |
| Rhode Island               | 139.5    | 142.1    | 142.8   | 154.6    | 154.3    |
| Connecticut 1/             | 392.4    | 396.5    | 397.0   | 417.8    | 415.7    |
| <b>MIDDLE ATLANTIC:</b>    |          |          |         |          |          |
| New York                   | 1,839.1  | 1,870.8  | 1,884.1 | 1,924.6  | 1,918.6  |
| New Jersey                 | 724.1    | 740.3    | 747.8   | 764.0    | 757.4    |
| Pennsylvania               | 1,498.9  | 1,504.0  | 1,508.1 | 1,527.3  | 1,523.1  |
| <b>EAST NORTH CENTRAL:</b> |          |          |         |          |          |
| Ohio                       | 1,210.6  | 1,224.6  | 1,226.5 | 1,250.9  | 1,247.3  |
| Indiana                    | 542.9    | 545.8    | 551.6   | 559.0    | 558.7    |
| Illinois                   | 1,234.5  | 1,242.7  | 1,243.3 | 1,273.6  | 1,266.3  |
| Michigan                   | 988.5    | 993.4    | 1,002.0 | 1,024.2  | 1,019.0  |
| Wisconsin 1/               | 426.5    | 430.7    | 431.8   | 436.1    | 433.1    |
| <b>WEST NORTH CENTRAL:</b> |          |          |         |          |          |
| Minnesota 1/               | 197.5    | 200.8    | 201.9   | 202.0    | 201.3    |
| Iowa 1/                    | 155.7    | 153.8    | 153.8   | *156.2   | *153.8   |
| Missouri 1/                | 345.5    | 347.2    | 349.8   | 351.7    | 352.7    |
| North Dakota               | 6.6      | 6.9      | 7.0     | 6.7      | 6.8      |
| South Dakota               | 12.0     | 12.2     | 11.9    | 11.3     | 11.5     |
| Nebraska                   | 42.9     | 44.1     | 43.6    | 46.3     | 45.9     |
| Kansas 1/                  | 87.8     | 87.8     | 88.3    | 83.1     | 82.7     |
| <b>SOUTH ATLANTIC:</b>     |          |          |         |          |          |
| Delaware                   | 44.9     | 45.3     | 46.3    | 46.1     | 45.8     |
| Maryland                   | 227.7    | 233.0    | 235.3   | 229.6    | 231.1    |
| District of Columbia       | 17.1     | 17.0     | 16.9    | 17.5     | 17.4     |
| Virginia                   | 211.3    | 215.5    | 218.4   | 215.1    | 217.3    |
| West Virginia              | 132.3    | 132.7    | 134.1   | 132.5    | 133.0    |
| North Carolina             | 367.3    | 369.3    | 370.8   | 380.8    | 378.7    |
| South Carolina             | 193.0    | 193.6    | 193.8   | 198.9    | 197.6    |
| Georgia 1/                 | 271.8    | 277.7    | 280.0   | *280.0   | *283.1   |
| Florida 1/                 | 99.7     | 97.3     | 90.7    | 97.8     | 95.0     |

**TABLE 7: Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State - Continued**

(In thousands)

| Region and State           | 1948     |          |         | 1947     |          |
|----------------------------|----------|----------|---------|----------|----------|
|                            | December | November | October | December | November |
| <b>EAST SOUTH CENTRAL:</b> |          |          |         |          |          |
| Kentucky                   | 126.8    | 128.6    | 129.2   | 130.4    | 130.7    |
| Tennessee 1/               | 245.1    | 250.5    | 256.3   | 254.7    | 254.3    |
| Alabama 1/                 | 224.8    | 228.7    | 229.1   | 230.9    | 230.8    |
| Mississippi                | 86.6     | 87.0     | 87.2    | 95.7     | 95.5     |
| <b>WEST SOUTH CENTRAL:</b> |          |          |         |          |          |
| Arkansas 1/                | 77.1     | 79.0     | 80.2    | 76.1     | 76.8     |
| Louisiana 1/               | 150.9    | 152.6    | 153.6   | *150.9   | 152.8    |
| Oklahoma 1/                | 66.7     | 67.4     | 67.9    | 64.7     | 64.9     |
| Texas                      | 350.8    | 358.0    | 352.8   | 346.6    | 347.7    |
| <b>MOUNTAIN:</b>           |          |          |         |          |          |
| Montana                    | 18.1     | 18.6     | 18.8    | 18.5     | 18.7     |
| Idaho 1/                   | 20.9     | 23.4     | 26.0    | 19.5     | 21.2     |
| Wyoming                    | 6.4      | 7.2      | 7.4     | 7.0      | 7.2      |
| Colorado                   | 55.9     | 59.2     | 60.2    | 61.0     | 60.3     |
| New Mexico 1/              | 9.9      | 10.1     | 10.1    | 8.6      | 8.6      |
| Arizona 1/                 | 15.2     | 15.1     | 14.8    | *14.7    | 14.6     |
| Utah 1/                    | 28.2     | 30.9     | 31.6    | 26.9     | 27.2     |
| Nevada 1/                  | 3.3      | 3.4      | 3.4     | 3.3      | 3.5      |
| <b>PACIFIC:</b>            |          |          |         |          |          |
| Washington                 | 176.9    | 186.0    | 191.6   | 174.6    | 178.2    |
| Oregon                     | 109.9    | 113.3    | 118.8   | 111.4    | 112.2    |
| California                 | 725.1    | 737.1    | 768.0   | 715.1    | 717.7    |

See explanatory notes, sections H and I.

1/ Series based on Standard Industrial Classification.

\* Revised. Data for other months have been revised as follows:

Arizona - January through September 1948 to 14.7, 14.6, 14.7, 14.9, 15.2, 15.4, 15.8, 15.1, and 13.8.

Georgia - January through September 1948 to 281.3, 280.1, 281.1, 276.6, 275.1, 276.3, 273.7, 280.3, and 279.8.

Louisiana - January through September 1948 to 150.4, 142.6, 145.9, 148.3, 147.9, 148.7, 150.0, 155.6, and 155.7.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries

(In thousands)

| Industry group and industry  | 1949    | 1948     |          |         | 1947     |
|--|---------|----------|----------|---------|----------|
|  | January | December | November | January | December |
| ALL MANUFACTURING  | 12,673  | 13,061   | 13,238   | 13,150  | 13,263   |
| DURABLE GOODS  | 6,525   | 6,739    | 6,810    | 6,795   | 6,816    |
| NONDURABLE GOODS   | 6,148   | 6,322    | 6,428    | 6,355   | 6,447    |
| <u>Durable goods</u>   |         |          |          |         |          |
| IRON AND STEEL AND THEIR PRODUCTS <u>1/</u>                          | 1,597   | 1,638    | 1,654    | 1,634   | 1,633    |
| Blast furnaces, steel works, and rolling mills                       | 543.0   | 543.0    | 538.1    | 508.8   | 506.5    |
| Gray-iron and semisteel castings                                     | 109.0   | 113.1    | 115.5    | 120.4   | 119.8    |
| Malleable-iron castings  | 36.5    | 39.0     | 38.6     | 37.9    | 37.6     |
| Steel castings   | 73.8    | 74.9     | 75.1     | 71.3    | 70.5     |
| Cast-iron pipe and fittings  | 29.8    | 30.0     | 29.9     | 28.7    | 28.7     |
| Tin cans and other tinware   | 44.8    | 46.4     | 47.0     | 47.4    | 47.8     |
| Wire drawn from purchased rods                                       | 28.5    | 28.7     | 28.7     | 31.4    | 31.6     |
| Wirework   | 41.6    | 42.2     | 42.1     | 43.5    | 42.4     |
| Cutlery and edge tools   | 23.2    | 24.3     | 25.0     | 24.7    | 25.0     |
| Tools (except edge tools, machine tools, files, and saws)            | 24.0    | 24.4     | 24.5     | 25.9    | 25.9     |
| Hardware   | 52.0    | 54.2     | 54.1     | 56.0    | 55.3     |
| Plumbers' supplies   | 41.4    | 42.4     | 42.6     | 40.0    | 40.0     |
| Stoves, oil burners, and heating equipment, not elsewhere classified | 64.0    | 76.4     | 87.6     | 93.1    | 95.6     |
| Steam and hot-water heating apparatus and steam fittings             | 63.3    | 65.3     | 66.1     | 65.9    | 65.8     |
| Stamped and enameled ware and galvanizing                            | 106.4   | 113.5    | 117.6    | 121.6   | 123.2    |
| Fabricated structural and ornamental metalwork                       | 65.0    | 65.6     | 65.8     | 63.7    | 63.9     |
| Metal doors, sash, frames, molding, and trim                         | 10.3    | 11.0     | 11.3     | 10.8    | 10.9     |
| Bolts, nuts, washers, and rivets                                     | 28.5    | 28.7     | 28.4     | 28.7    | 28.6     |
| Forgings, iron and steel   | 38.1    | 38.4     | 38.2     | 37.8    | 37.4     |
| Wrought pipe, welded and heavy-riveted                               | 19.6    | 19.5     | 19.7     | 19.8    | 19.6     |
| Screw-machine products and wood screws                               | 35.1    | 35.7     | 35.9     | 36.1    | 35.8     |
| Steel barrels, kegs, and drums                                       | 7.7     | 7.8      | 7.8      | 8.4     | 8.2      |
| Firearms   | 22.6    | 22.4     | 22.4     | 20.0    | 19.7     |
| ELECTRICAL MACHINERY <u>1/</u>                                       | 536     | 552      | 557      | 588     | 596      |
| Electrical equipment   | 354.5   | 363.4    | 367.9    | 389.7   | 393.4    |
| Radios and phonographs   | 93.5    | 97.2     | 95.9     | 100.3   | 104.8    |
| Communication equipment  | 88.1    | 91.5     | 93.5     | 98.2    | 98.2     |

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries-Cont'd

(In thousands)

| Industry group and industry   | 1949    | 1948     |          | 1947    |          |
|---|---------|----------|----------|---------|----------|
|   | January | December | November | January | December |
| MACHINERY, EXCEPT ELECTRICAL 1/   | 1,179   | 1,202    | 1,204    | 1,231   | 1,235    |
| Machinery and machine-shop products                                     | 499.1   | 506.0    | 505.6    | 518.5   | 517.0    |
| Engines and turbines  | 52.3    | 52.6     | 52.5     | 54.6    | 54.5     |
| Tractors  | 61.8    | 61.6     | 60.9     | 61.4    | 60.3     |
| Agricultural machinery, excluding tractors                              | 76.5    | 77.1     | 76.2     | 72.3    | 71.0     |
| Machine tools   | 44.1    | 47.3     | 47.5     | 50.4    | 51.3     |
| Machine-tool accessories  | 53.5    | 54.4     | 54.5     | 56.4    | 56.3     |
| Textile machinery   | 41.2    | 41.6     | 41.6     | 40.7    | 40.6     |
| Pumps and pumping equipment   | 68.6    | 69.4     | 69.1     | 75.5    | 75.1     |
| Typewriters   | 16.8    | 18.4     | 18.9     | 25.8    | 25.9     |
| Cash registers; adding, and calculating machines                        | 42.4    | 43.8     | 44.1     | 45.3    | 45.2     |
| Washing machines, wringers, and driers, domestic                        | 10.2    | 12.5     | 15.5     | 16.2    | 16.3     |
| Sewing machines, domestic and industrial                                | 15.1    | 15.0     | 14.9     | 13.4    | 13.3     |
| Refrigerators and refrigeration equipment                               | 76.3    | 79.3     | 79.5     | 82.6    | 81.5     |
| TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES                            | 444     | 453      | 453      | 472     | 463      |
| Locomotives   | 25.3    | 26.5     | 26.5     | 26.3    | 26.3     |
| Cars, electric- and steam-railroad                                      | 56.2    | 56.1     | 55.9     | 55.9    | 56.9     |
| Aircraft and parts, excluding aircraft engines                          | 151.4   | 151.6    | 149.8    | 134.7   | 133.2    |
| Aircraft engines  | 28.7    | 28.5     | 28.0     | 25.3    | 25.9     |
| Shipbuilding and boatbuilding   | 88.9    | 92.7     | 94.5     | 132.9   | 125.7    |
| Motorcycles, bicycles, and parts  | 9.5     | 12.0     | 13.6     | 14.5    | 14.7     |
| AUTOMOBILES   | 776     | 784      | 780      | 789     | 785      |
| NONFERROUS METALS AND THEIR PRODUCTS 1/                                 | 385     | 398      | 404      | 409     | 413      |
| Smelting and refining, primary, of nonferrous metals                    | 40.6    | 41.2     | 41.4     | 39.9    | 40.0     |
| Alloying; and rolling and drawing of nonferrous metals, except aluminum | 54.4    | 54.7     | 54.5     | 53.6    | 53.4     |
| Clocks and watches  | 24.2    | 27.0     | 28.2     | 28.6    | 28.6     |
| Jewelry (precious metals) and jewelers' findings                        | 26.1    | 26.8     | 27.5     | 27.3    | 27.7     |
| Silverware and plated ware  | 27.0    | 28.0     | 28.3     | 26.8    | 27.1     |
| Lighting equipment  | 29.9    | 30.9     | 31.8     | 33.6    | 34.1     |
| Aluminum manufactures   | 39.7    | 40.6     | 40.9     | 45.3    | 44.8     |
| Sheet-metal work, not elsewhere classified                              | 34.3    | 36.4     | 37.1     | 38.8    | 40.9     |

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

| Industry group and industry                                  | 1949    | 1948     |          | 1947    |          |
|--|---------|----------|----------|---------|----------|
|  | January | December | November | January | December |
| LUMBER AND TIMBER BASIC PRODUCTS <u>1/</u>                   | 720     | 788      | 821      | 738     | 750      |
| Sawmills and logging camps                                   | 574.3   | 635.2    | 667.2    | 597.7   | 610.7    |
| Planing and plywood mills                                    | 145.7   | 152.9    | 154.1    | 140.8   | 139.4    |
| FURNITURE AND FINISHED LUMBER PRODUCTS <u>1/</u>             | 440     | 462      | 470      | 489     | 487      |
| Mattresses and bedsprings                                    | 31.4    | 33.4     | 35.7     | 38.7    | 38.4     |
| Furniture  | 242.1   | 254.1    | 256.5    | 265.1   | 262.9    |
| Wooden boxes, other than cigar                               | 32.2    | 34.9     | 35.6     | 37.8    | 37.0     |
| Caskets and other morticians' goods                          | 18.7    | 18.8     | 19.5     | 21.0    | 21.1     |
| Wood preserving  | 16.3    | 16.8     | 17.0     | 17.6    | 18.0     |
| Wood, turned and shaped                                      | 32.4    | 33.4     | 33.9     | 34.3    | 34.9     |
| STONE, CLAY, AND GLASS PRODUCTS <u>1/</u>                    | 448     | 462      | 467      | 445     | 454      |
| Glass and glassware  | 113.6   | 118.8    | 121.8    | 121.0   | 123.5    |
| Glass products made from purchased glass                     | 114.4   | 114.7    | 114.7    | 114.4   | 114.6    |
| Cement   | 36.5    | 37.0     | 37.2     | 35.2    | 35.5     |
| Brick, tile, and terra cotta                                 | 80.2    | 83.1     | 83.5     | 78.0    | 77.9     |
| Pottery and related products                                 | 60.2    | 61.6     | 61.5     | 57.4    | 58.9     |
| Gypsum   | 7.4     | 7.5      | 7.8      | 7.5     | 7.6      |
| Wallboard, plaster (except gypsum), and mineral wool         | 14.3    | 14.8     | 14.9     | 14.5    | 14.6     |
| Lime   | 10.4    | 10.7     | 10.7     | 10.7    | 10.8     |
| Marble, granite, slate, and other products                   | 18.4    | 19.2     | 19.0     | 18.0    | 18.3     |
| Abrasives  | 20.6    | 20.6     | 20.5     | 15.8    | 19.3     |
| Asbestos products  | 24.1    | 25.3     | 25.8     | 25.1    | 24.9     |
| <u>Nondurable goods</u>                                      |         |          |          |         |          |
| TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES <u>1/</u> | 1,200   | 1,236    | 1,245    | 1,292   | 1,290    |
| Cotton manufactures, except smallwares                       | 494.9   | 507.5    | 508.9    | 523.6   | 523.2    |
| Cotton smallwares  | 12.8    | 13.1     | 13.3     | 14.6    | 14.3     |
| Silk and rayon goods   | 118.0   | 120.8    | 122.0    | 115.5   | 116.2    |
| Woolen and worsted manufactures, except dyeing and finishing | 149.1   | 157.4    | 158.2    | 177.4   | 177.3    |
| Hosiery  | 137.7   | 140.5    | 142.3    | 149.5   | 148.7    |
| Knitted cloth  | 10.9    | 11.2     | 11.5     | 11.6    | 11.5     |
| Knitted outerwear and knitted gloves                         | 31.4    | 33.2     | 33.9     | 32.9    | 33.7     |
| Knitted underwear  | 40.4    | 43.6     | 46.1     | 52.8    | 52.5     |
| Dyeing and finishing textiles, including woolen and worsted  | 90.2    | 92.5     | 91.9     | 94.4    | 94.0     |
| Carpets and rugs, wool                                       | 40.0    | 40.7     | 40.7     | 38.4    | 38.0     |
| Hats, fur-felt   | 11.7    | 11.7     | 12.0     | 13.7    | 13.8     |
| Jute goods, except felts                                     | 4.3     | 4.3      | 4.3      | 4.0     | 3.1      |
| Cordage and twine  | 14.7    | 14.9     | 15.1     | 16.8    | 16.5     |

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

| Industry group and industry-                          | 1949    | 1948     |          |         | 1947     |
|---|---------|----------|----------|---------|----------|
|   | January | December | November | January | December |
| APPAREL AND OTHER FINISHED TEXTILE PRODUCTS <u>1/</u> | 1,129   | 1,147    | 1,161    | 1,147   | 1,143    |
| Men's clothing, not elsewhere classified              | 279.8   | 281.3    | 285.5    | 285.3   | 287.3    |
| Shirts, collars, and nightwear                        | 62.9    | 66.8     | 70.4     | 73.8    | 74.4     |
| Underwear and neckwear, men's                         | 17.4    | 19.0     | 19.4     | 18.1    | 18.4     |
| Work shirts   | 13.8    | 16.0     | 16.5     | 13.9    | 13.7     |
| Women's clothing, not elsewhere classified            | 483.3   | 486.5    | 489.4    | 476.2   | 470.5    |
| Corsets and allied garments                           | 18.8    | 19.3     | 19.3     | 19.7    | 19.6     |
| Millinery   | 21.6    | 20.8     | 19.4     | 23.1    | 20.5     |
| Handkerchiefs   | 5.4     | 5.5      | 5.5      | 4.9     | 5.1      |
| Curtains, draperies, and bedspreads                   | 17.6    | 19.5     | 20.6     | 24.1    | 24.5     |
| Housefurnishings, other than curtains, etc.           | 24.0    | 25.6     | 26.3     | 23.7    | 24.2     |
| Textile bags  | 24.3    | 24.1     | 23.6     | 22.3    | 22.6     |
| LEATHER AND LEATHER PRODUCTS <u>1/</u>                | 365     | 364      | 363      | 399     | 400      |
| Leather   | 46.5    | 47.3     | 46.4     | 50.2    | 50.3     |
| Boot and shoe cut stock and findings                  | 17.1    | 17.0     | 17.0     | 19.7    | 19.8     |
| Boots and shoes                                       | 237.2   | 232.1    | 229.1    | 256.2   | 255.4    |
| Leather gloves and mittens                            | 9.4     | 10.6     | 12.4     | 12.2    | 13.0     |
| Trunks and suitcases                                  | 11.0    | 13.1     | 14.6     | 13.3    | 14.2     |
| FOOD <u>1/</u>  | 1,182   | 1,253    | 1,306    | 1,191   | 1,255    |
| Slaughtering and meat packing                         | 213.9   | 218.2    | 205.3    | 209.7   | 217.1    |
| Butter  | 33.4    | 34.9     | 34.6     | 32.6    | 32.9     |
| Condensed and evaporated milk                         | 19.0    | 18.7     | 19.5     | 18.4    | 18.6     |
| Ice cream   | 23.6    | 23.9     | 24.3     | 23.6    | 24.9     |
| Flour   | 41.3    | 41.5     | 41.7     | 41.8    | 41.9     |
| Feeds, prepared                                       | 28.7    | 28.9     | 28.9     | 29.3    | 29.1     |
| Cereal preparations                                   | 12.8    | 12.5     | 13.1     | 12.1    | 12.1     |
| Baking  | 244.1   | 251.7    | 255.7    | 236.4   | 242.2    |
| Sugar refining, cane                                  | 24.6    | 24.2     | 22.4     | 22.2    | 24.0     |
| Sugar, beet   | 5.3     | 10.8     | 25.2     | 11.1    | 21.7     |
| Confectionery   | 74.1    | 82.4     | 89.8     | 82.0    | 86.2     |
| Beverages, nonalcoholic                               | 38.7    | 39.5     | 40.4     | 37.4    | 37.3     |
| Malt liquors  | 74.5    | 77.9     | 80.7     | 75.2    | 77.0     |
| Canning and preserving                                | 131.8   | 163.1    | 195.2    | 142.2   | 165.7    |
| TOBACCO MANUFACTURES <u>1/</u>                        | 83      | 87       | 90       | 87      | 88       |
| Cigarettes  | 33.5    | 34.1     | 35.1     | 33.6    | 34.2     |
| Cigars  | 42.1    | 45.2     | 47.2     | 45.8    | 45.6     |
| Tobacco (chewing and smoking) and snuff               | 7.8     | 7.8      | 7.8      | 7.9     | 8.3      |

See explanatory notes, sections C, D, and G, and the glossary for definitions.



TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

| Industry group and industry                           | 1949    |          | 1948     |         | 1947     |  |
|---|---------|----------|----------|---------|----------|--|
|   | January | December | November | January | December |  |
| PAPER AND ALLIED PRODUCTS <u>1/</u>                   | 391     | 401      | 403      | 395     | 398      |  |
| Paper and pulp  | 204.4   | 207.0    | 206.6    | 203.0   | 202.8    |  |
| Paper goods, other                                    | 62.2    | 63.5     | 63.6     | 62.6    | 63.8     |  |
| Envelopes   | 12.8    | 13.1     | 13.1     | 12.4    | 12.4     |  |
| Paper bags  | 16.5    | 16.7     | 17.0     | 18.1    | 18.2     |  |
| Paper boxes   | 94.5    | 99.9     | 101.5    | 97.7    | 99.6     |  |
| PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u> | 436     | 443      | 442      | 439     | 445      |  |
| Newspapers and periodicals                            | 149.6   | 152.3    | 151.0    | 143.6   | 145.6    |  |
| Printing; book and job                                | 186.5   | 188.7    | 187.8    | 189.7   | 191.4    |  |
| Lithographing   | 30.1    | 31.3     | 31.4     | 32.0    | 32.9     |  |
| Bookbinding   | 33.9    | 34.5     | 35.1     | 37.6    | 38.3     |  |
| CHEMICALS AND ALLIED PRODUCTS <u>1/</u>               | 594     | 597      | 599      | 588     | 592      |  |
| Paints, varnishes, and colors                         | 47.1    | 47.6     | 48.1     | 48.6    | 48.4     |  |
| Drugs, medicines, and insecticides                    | 65.6    | 64.4     | 64.8     | 65.7    | 65.9     |  |
| Perfumes and cosmetics                                | 11.3    | 12.3     | 12.9     | 12.0    | 12.9     |  |
| Soap  | 26.4    | 26.5     | 26.5     | 25.5    | 25.5     |  |
| Rayon and allied products                             | 65.1    | 64.8     | 63.9     | 63.2    | 63.5     |  |
| Chemicals, not elsewhere classified                   | 209.4   | 211.2    | 210.7    | 206.7   | 207.0    |  |
| Explosives and safety fuses                           | 27.1    | 27.4     | 27.4     | 25.3    | 25.3     |  |
| Compressed and liquefied gases                        | 9.3     | 9.5      | 9.5      | 9.9     | 9.9      |  |
| Ammunition, small-arms                                | 7.1     | 7.2      | 7.4      | 7.7     | 7.4      |  |
| Fireworks   | 2.6     | 2.4      | 2.6      | 2.5     | 2.8      |  |
| Cottonseed oil  | 24.0    | 25.7     | 27.2     | 21.7    | 24.4     |  |
| Fertilizers   | 30.4    | 28.7     | 28.7     | 33.3    | 30.7     |  |
| PRODUCTS OF PETROLEUM AND COAL <u>1/</u>              | 162     | 165      | 167      | 164     | 165      |  |
| Petroleum refining                                    | 112.9   | 113.3    | 113.7    | 112.4   | 112.5    |  |
| Coke and byproducts                                   | 32.3    | 32.1     | 32.2     | 30.5    | 30.0     |  |
| Paving materials                                      | 2.3     | 2.7      | 2.8      | 2.0     | 2.7      |  |
| Roofing materials                                     | 13.4    | 15.1     | 17.2     | 18.0    | 18.3     |  |

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

| Industry group and industry   | 1949    |          | 1948     |         | 1947     |  |
|---|---------|----------|----------|---------|----------|--|
|   | January | December | November | January | December |  |
| RUBBER PRODUCTS <u>1/</u>   | 191     | 196      | 199      | 210     | 212      |  |
| Rubber tires and inner tubes  | 88.4    | 89.6     | 91.2     | 100.6   | 101.9    |  |
| Rubber boots and shoes  | 22.4    | 23.5     | 23.2     | 22.5    | 22.5     |  |
| Rubber goods, other   | 80.1    | 82.6     | 84.5     | 86.8    | 87.7     |  |
| MISCELLANEOUS INDUSTRIES <u>1/</u>                                    | 415     | 433      | 453      | 443     | 459      |  |
| Instruments (professional and scientific), and fire-control equipment | 30.6    | 30.2     | 30.3     | 27.7    | 28.1     |  |
| Photographic apparatus  | 38.4    | 39.6     | 39.6     | 38.9    | 39.2     |  |
| Optical instruments and ophthalmic goods                              | 26.1    | 26.3     | 26.0     | 27.0    | 28.0     |  |
| Pianos, organs, and parts   | 12.6    | 13.3     | 13.5     | 16.8    | 17.6     |  |
| Games, toys, and dolls  | 32.5    | 37.8     | 46.6     | 33.5    | 38.5     |  |
| Buttons   | 12.5    | 13.0     | 13.1     | 13.3    | 13.4     |  |
| Fire extinguishers  | 2.6     | 2.8      | 2.9      | 2.6     | 2.7      |  |

See explanatory notes, sections C, D, and G, and the glossary for definitions.

1/ Estimates for the individual industries comprising the major industry groups have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series. Comparable data from January 1939 are available upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

More recently adjusted data for the individual industries comprising the major industry group listed below supersede data shown in publications dated prior to:

| Major industry group                        | Mimeographed release | Monthly Labor Review |
|---|----------------------|----------------------|
| Apparel and other finished textile products | March 1949           | April 1949           |

TABLE 9: Estimated Number of Employees in Selected Nonmanufacturing Industries 1/  
(In thousands)

| Industry group and industry                          | 1949    | 1948     |          | 1947    |          |
|--|---------|----------|----------|---------|----------|
|  | January | December | November | January | December |
| <b>MINING: <u>2/</u></b>                             |         |          |          |         |          |
| Coal   |         |          |          |         |          |
| Anthracite   | 77.2    | 77.0     | 77.0     | 76.2    | 76.5     |
| Bituminous coal                                      | 401     | 405      | 403      | 404     | 402      |
| Metal  | 89.5    | 90.1     | 88.5     | 89.7    | 89.8     |
| Iron   | 31.8    | 32.3     | 32.1     | 30.9    | 31.3     |
| Copper   | 24.2    | 24.4     | 23.9     | 26.9    | 26.6     |
| Lead and zinc  | 16.9    | 16.9     | 16.6     | 15.7    | 15.6     |
| Gold and silver                                      | 8.8     | 8.6      | 8.2      | 8.6     | 8.5      |
| Miscellaneous  | 7.9     | 7.9      | 7.7      | 7.7     | 7.9      |
| Quarrying and nonmetallic                            | 77.5    | 83.4     | 85.3     | 80.0    | 83.9     |
| Crude petroleum and natural gas production <u>3/</u> | 129.5   | 129.6    | 130.4    | 126.4   | 126.3    |
| <b>TRANSPORTATION AND PUBLIC UTILITIES:</b>          |         |          |          |         |          |
| Class I steam railroads <u>4/</u>                    | 1,256   | 1,306    | 1,329    | 1,318   | 1,331    |
| Street railways and busses <u>5/</u>                 | 243     | 244      | 245      | 250     | 249      |
| Telephone  | 638     | 642      | 642      | 620     | 620      |
| Telegraph <u>6/</u>                                  | 33.3    | 33.9     | 34.2     | 36.6    | 36.7     |
| Electric light and power                             | 281     | 282      | 282      | 263     | 269      |
| <b>SERVICE:</b>                                      |         |          |          |         |          |
| Hotels (year-round)                                  | 366     | 370      | 372      | 378     | 381      |
| Power laundries <u>2/</u>                            | 221     | 224      | 224      | 235     | 237      |
| Cleaning and dyeing <u>2/</u>                        | 84.5    | 86.3     | 87.5     | 88.9    | 91.0     |

See explanatory notes, sections C, D, and G, and the glossary for definitions.

1/ Unless otherwise noted, data include all employees.

2/ Includes production and related workers only.

3/ Does not include well drilling or rig building.

4/ Includes all employees at middle of month. Excludes employees of switching and terminal companies. Class I steam railroads include those with over \$1,000,000 annual revenue. Source: Interstate Commerce Commission.

5/ Includes private and municipal street-railway companies and affiliated, subsidiary, or successor trolley-bus and motor-bus companies.

6/ Includes all land-line employees except those compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries  
(1939 Average = 100)

| Industry group and industry  | Employment indexes |       |       |       | Pay-roll indexes |        |        |       |
|--|--------------------|-------|-------|-------|------------------|--------|--------|-------|
|  | 1949               |       | 1948  |       | 1949             |        | 1948   |       |
|  | Jan.               | Dec.  | Nov.  | Jan.  | Jan.             | Dec.   | Nov.   | Jan.  |
| ALL MANUFACTURING  | 154.7              | 159.4 | 161.6 | 160.5 | 363.2            | 377.7  | 379.3  | 358.7 |
| DURABLE GOODS  | 180.7              | 186.6 | 188.6 | 188.2 | 412.8            | 430.3  | 430.3  | 403.1 |
| NONDURABLE GOODS   | 134.2              | 138.0 | 140.3 | 138.7 | 314.7            | 326.2  | 329.5  | 315.3 |
| Durable goods  |                    |       |       |       |                  |        |        |       |
| IRON AND STEEL AND THEIR PRODUCTS 1/                                 | 161.8              | 165.2 | 166.8 | 164.9 | 356.7            | 371.4  | 373.6  | 341.9 |
| Blast furnaces, steel works, and rolling mills                       | 139.8              | 139.8 | 138.5 | 131.0 | 304.6            | 305.1  | 303.4  | 261.2 |
| Gray-iron and semisteel castings                                     | 175.1              | 181.7 | 185.6 | 193.6 | 395.8            | 424.1  | 429.4  | 438.2 |
| Malleable-iron castings  | 190.1              | 203.1 | 200.8 | 197.2 | 471.3            | 520.8  | 505.7  | 480.1 |
| Steel castings   | 230.3              | 233.6 | 234.2 | 222.3 | 506.0            | 525.2  | 528.0  | 465.3 |
| Cast-iron pipe and fittings  | 169.3              | 170.3 | 169.9 | 162.9 | 475.5            | 471.2  | 470.9  | 394.4 |
| Tin cans and other tinware   | 140.9              | 145.9 | 148.0 | 149.1 | 317.7            | 340.3  | 334.7  | 320.0 |
| Wire drawn from purchased rods                                       | 129.6              | 130.8 | 130.6 | 142.7 | 268.3            | 271.4  | 271.3  | 271.6 |
| Wirework   | 136.9              | 138.8 | 138.4 | 143.0 | 332.0            | 334.7  | 331.6  | 320.5 |
| Cutlery and edge tools   | 150.3              | 157.8 | 162.1 | 160.3 | 371.2            | 394.3  | 405.8  | 381.9 |
| Tools (except edge tools, machine tools, files, and saws)            | 157.1              | 159.3 | 160.3 | 169.2 | 361.3            | 372.5  | 373.8  | 381.0 |
| Hardware   | 146.0              | 152.0 | 151.8 | 157.2 | 350.0            | 370.8  | 367.4  | 371.0 |
| Plumbers' supplies   | 157.9              | 161.5 | 162.4 | 152.5 | 343.3            | 378.3  | 376.9  | 321.8 |
| Stoves, oil burners, and heating equipment, not elsewhere classified | 130.3              | 155.3 | 178.3 | 189.4 | 277.2            | 350.4  | 400.0  | 416.5 |
| Steam and hot-water heating apparatus and steam fittings             | 196.1              | 202.3 | 204.7 | 204.2 | 418.1            | 454.6  | 466.5  | 424.9 |
| Stamped and enameled ware and galvanizing                            | 179.8              | 191.9 | 198.8 | 205.5 | 440.0            | 481.0  | 491.9  | 479.9 |
| Fabricated structural and ornamental metalwork                       | 182.9              | 184.7 | 185.3 | 179.2 | 398.5            | 406.8  | 406.2  | 357.5 |
| Metal doors, sash, frames, molding, and trim                         | 133.0              | 141.7 | 145.7 | 139.3 | 311.7            | 341.8  | 344.0  | 296.7 |
| Bolts, nuts, washers, and rivets                                     | 186.9              | 188.4 | 186.3 | 188.4 | 420.5            | 445.1  | 433.6  | 393.1 |
| Forgings, iron and steel   | 232.6              | 234.2 | 233.2 | 231.0 | 540.5            | 548.5  | 544.8  | 502.4 |
| Wrought pipe, welded and heavy-riveted                               | 219.3              | 219.2 | 220.7 | 222.5 | 499.1            | 497.2  | 515.8  | 457.2 |
| Screw-machine products and wood screws                               | 194.5              | 197.8 | 199.3 | 200.1 | 441.3            | 453.5  | 450.5  | 446.1 |
| Steel barrels, kegs, and drums                                       | 118.5              | 120.6 | 120.3 | 130.3 | 321.8            | 349.4  | 328.8  | 333.7 |
| Firearms   | 424.9              | 421.3 | 421.3 | 375.4 | 1007.6           | 1005.6 | 1018.0 | 846.7 |
| ELECTRICAL MACHINERY 1/  | 206.9              | 213.1 | 215.1 | 227.0 | 454.3            | 474.6  | 479.2  | 471.0 |
| Electrical equipment   | 194.1              | 199.0 | 201.4 | 213.3 | 427.0            | 444.1  | 447.8  | 443.4 |
| Radios and phonographs   | 212.5              | 221.0 | 218.1 | 228.0 | 511.2            | 551.4  | 539.7  | 507.3 |
| Communication equipment  | 271.3              | 281.9 | 288.0 | 302.4 | 544.0            | 561.3  | 587.6  | 586.4 |

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

| Industry group and industry   | Employment indexes |       |       |       | Pay-roll indexes |        |       |       |
|---|--------------------|-------|-------|-------|------------------|--------|-------|-------|
|   | 1949               |       | 1948  |       | 1949             |        | 1948  |       |
|   | Jan.               | Dec.  | Nov.  | Jan.  | Jan.             | Dec.   | Nov.  | Jan.  |
| MACHINERY, EXCEPT ELECTRICAL <u>1/</u>                                  | 223.1              | 227.5 | 227.9 | 233.0 | 473.7            | 491.6  | 486.9 | 473.8 |
| Machinery and machine-shop products                                     | 240.4              | 243.7 | 243.5 | 249.7 | 517.7            | 532.6  | 527.3 | 513.0 |
| Engines and turbines  | 280.4              | 281.9 | 281.2 | 292.9 | 609.9            | 639.3  | 620.1 | 625.5 |
| Tractors  | 197.8              | 197.0 | 194.6 | 196.4 | 374.6            | 369.6  | 358.4 | 354.3 |
| Agricultural machinery, excluding tractors                              | 268.3              | 270.1 | 267.1 | 253.5 | 599.0            | 613.7  | 592.4 | 534.9 |
| Machine tools   | 120.5              | 129.3 | 129.7 | 137.6 | 224.2            | 249.3  | 248.1 | 250.1 |
| Machine-tool accessories  | 207.3              | 210.6 | 211.1 | 218.6 | 384.0            | 395.7  | 387.1 | 398.6 |
| Textile machinery   | 188.2              | 190.0 | 189.7 | 185.8 | 437.8            | 461.4  | 452.0 | 417.9 |
| Pumps and pumping equipment   | 275.9              | 278.9 | 277.6 | 303.4 | 609.7            | 632.9  | 625.5 | 642.2 |
| Typewriters   | 103.4              | 113.2 | 116.6 | 158.8 | 229.5            | 265.7  | 271.1 | 366.1 |
| Cash registers; adding, and calculating machines                        | 215.5              | 222.5 | 224.1 | 230.2 | 474.2            | 494.2  | 487.9 | 491.9 |
| Washing machines; wringers, and driers, domestic                        | 136.4              | 167.3 | 207.3 | 216.8 | 274.5            | 316.6  | 470.0 | 464.3 |
| Sewing machines, domestic and industrial                                | 192.1              | 191.4 | 189.8 | 171.0 | 490.1            | 504.1  | 501.9 | 397.9 |
| Refrigerators and refrigeration equipment                               | 216.9              | 225.6 | 226.0 | 234.9 | 460.8            | 490.0  | 486.2 | 479.2 |
| TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES                            | 280.0              | 285.3 | 285.7 | 297.3 | 608.5            | 635.5  | 611.8 | 611.2 |
| Locomotives   | 390.4              | 410.1 | 409.6 | 406.7 | 917.9            | 1024.4 | 942.5 | 883.0 |
| Cars, electric- and steam-railroad                                      | 229.3              | 228.6 | 227.8 | 228.0 | 557.1            | 565.9  | 535.4 | 500.6 |
| Aircraft and parts, excluding aircraft engines                          | 381.6              | 382.1 | 377.4 | 339.5 | 808.0            | 838.5  | 830.7 | 657.4 |
| Aircraft engines  | 323.2              | 320.9 | 315.0 | 284.0 | 617.2            | 618.9  | 601.3 | 482.9 |
| Shipbuilding and boatbuilding   | 128.3              | 133.9 | 136.5 | 191.9 | 274.4            | 288.6  | 262.4 | 416.7 |
| Motorcycles, bicycles, and parts  | 136.4              | 171.6 | 194.6 | 207.6 | 274.4            | 353.7  | 468.2 | 414.5 |
| AUTOMOBILES   | 193.0              | 194.8 | 193.9 | 196.0 | 455.3            | 451.2  | 438.9 | 408.7 |
| NONFERROUS METALS AND THEIR PRODUCTS <u>1/</u>                          | 168.0              | 173.6 | 176.1 | 178.4 | 372.2            | 391.2  | 391.9 | 372.7 |
| Smelting and refining, primary, of nonferrous metals                    | 146.8              | 149.1 | 150.0 | 144.5 | 344.1            | 342.1  | 340.0 | 303.1 |
| Alloying; and rolling and drawing of nonferrous metals, except aluminum | 140.1              | 141.0 | 140.4 | 138.2 | 296.9            | 309.8  | 298.2 | 273.4 |
| Clocks and watches  | 119.3              | 133.3 | 139.0 | 140.8 | 295.9            | 335.9  | 348.1 | 326.2 |
| Jewelry (precious metals) and jewelers' findings                        | 180.8              | 185.3 | 190.3 | 189.3 | 371.5            | 402.3  | 407.3 | 383.4 |
| Silverware and plated ware  | 223.0              | 230.8 | 233.5 | 221.0 | 512.7            | 554.3  | 572.0 | 520.5 |
| Lighting equipment  | 146.1              | 151.0 | 155.2 | 164.1 | 319.8            | 335.4  | 343.1 | 337.8 |
| Aluminum manufactures   | 168.6              | 172.5 | 173.6 | 192.2 | 349.8            | 357.5  | 360.2 | 371.3 |
| Sheet-metal work, not elsewhere classified                              | 182.7              | 194.4 | 197.9 | 207.0 | 422.8            | 453.3  | 452.3 | 454.4 |

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

| Industry group and industry                                  | Employment indexes |       |       |       | Pay-roll indexes |       |       |       |
|--|--------------------|-------|-------|-------|------------------|-------|-------|-------|
|  | 1949               | 1948  |       |       | 1949             | 1948  |       |       |
|  | Jan.               | Dec.  | Nov.  | Jan.  | Jan.             | Dec.  | Nov.  | Jan.  |
| <b>LUMBER AND TIMBER BASIC PRODUCTS 1/</b>                   | 171.3              | 187.5 | 195.4 | 175.6 | 421.0            | 468.8 | 499.7 | 413.5 |
| Sawmills and logging camps                                   | 183.1              | 202.5 | 212.7 | 190.6 | 452.0            | 505.7 | 549.7 | 450.3 |
| Planing and plywood mills                                    | 184.2              | 193.3 | 194.8 | 178.0 | 446.3            | 488.7 | 484.9 | 417.1 |
| <b>FURNITURE AND FINISHED LUMBER PRODUCTS 1/</b>             | 134.1              | 140.7 | 143.1 | 149.1 | 317.9            | 345.4 | 349.2 | 352.2 |
| Mattresses and bedsprings                                    | 152.9              | 162.9 | 173.9 | 188.8 | 326.8            | 351.3 | 371.2 | 414.0 |
| Furniture  | 136.1              | 142.8 | 144.2 | 149.0 | 323.0            | 354.4 | 356.7 | 355.4 |
| Wooden boxes, other than cigar                               | 113.6              | 123.2 | 125.7 | 133.6 | 281.7            | 314.7 | 320.7 | 324.4 |
| Caskets and other morticians' goods                          | 134.4              | 135.0 | 140.1 | 150.7 | 282.6            | 282.4 | 287.8 | 314.4 |
| Wood preserving  | 129.6              | 134.0 | 135.5 | 139.8 | 350.6            | 368.4 | 378.3 | 352.8 |
| Wood, turned and shaped                                      | 132.0              | 136.1 | 138.0 | 139.8 | 314.8            | 331.1 | 328.3 | 318.0 |
| <b>STONE, CLAY, AND GLASS PRODUCTS 1/</b>                    | 152.5              | 157.4 | 158.9 | 151.6 | 349.5            | 366.9 | 366.9 | 322.9 |
| Glass and glassware  | 159.2              | 166.5 | 170.6 | 169.5 | 371.9            | 385.3 | 384.0 | 354.3 |
| Glass products made from purchased glass                     | 144.1              | 147.0 | 147.3 | 143.7 | 323.6            | 350.7 | 344.6 | 312.1 |
| Cement   | 149.8              | 152.1 | 153.0 | 144.4 | 308.1            | 312.2 | 315.2 | 275.7 |
| Brick, tile, and terra cotta                                 | 138.2              | 143.1 | 143.9 | 134.4 | 331.9            | 355.5 | 356.5 | 303.6 |
| Pottery and related products                                 | 177.9              | 182.0 | 181.7 | 169.7 | 386.8            | 404.1 | 407.5 | 345.4 |
| Gypsum   | 150.4              | 151.5 | 157.6 | 152.5 | 343.9            | 378.5 | 387.7 | 325.2 |
| Wallboard, plaster (except gypsum), and mineral wool         | 176.3              | 181.9 | 183.6 | 178.9 | 454.9            | 493.0 | 495.7 | 429.9 |
| Lime   | 110.3              | 112.7 | 112.6 | 112.8 | 304.3            | 313.0 | 322.3 | 286.0 |
| Marble, granite, slate, and other products                   | 99.6               | 103.9 | 102.6 | 97.5  | 190.6            | 204.2 | 190.9 | 173.5 |
| Abrasives  | 265.7              | 266.9 | 264.6 | 204.6 | 574.9            | 580.7 | 583.3 | 417.4 |
| Asbestos products  | 151.8              | 159.4 | 162.5 | 158.0 | 362.2            | 398.9 | 406.7 | 370.4 |
| <u>Nondurable goods</u>                                      |                    |       |       |       |                  |       |       |       |
| <b>TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/</b> | 104.9              | 108.0 | 108.9 | 113.0 | 276.7            | 291.9 | 291.9 | 303.0 |
| Cotton manufactures, except smallwares                       | 118.3              | 121.3 | 121.6 | 125.2 | 331.9            | 352.7 | 348.9 | 378.7 |
| Cotton smallwares  | 90.7               | 93.2  | 94.2  | 103.8 | 213.8            | 224.2 | 222.1 | 243.8 |
| Silk and rayon goods   | 93.2               | 95.4  | 96.4  | 91.2  | 276.2            | 293.4 | 299.1 | 271.5 |
| Woolen and worsted manufactures, except dyeing and finishing | 94.6               | 99.8  | 100.4 | 112.5 | 258.5            | 275.0 | 268.8 | 292.0 |
| Hosiery  | 82.0               | 83.6  | 84.7  | 89.0  | 192.2            | 201.8 | 210.3 | 202.9 |
| Knitted cloth  | 94.8               | 97.2  | 99.3  | 100.4 | 226.3            | 227.0 | 232.9 | 236.5 |
| Knitted outerwear and knitted gloves                         | 105.7              | 111.8 | 114.2 | 110.6 | 258.1            | 264.6 | 272.7 | 251.9 |
| Knitted underwear  | 99.3               | 107.1 | 113.3 | 129.7 | 231.0            | 256.1 | 273.6 | 329.6 |
| Dyeing and finishing textiles, including woolen and worsted  | 127.7              | 130.9 | 130.1 | 133.7 | 309.0            | 327.7 | 316.8 | 326.8 |
| Carpets and rugs, wool                                       | 148.0              | 150.7 | 150.7 | 142.1 | 382.1            | 389.8 | 393.5 | 340.5 |
| Hats, fur-felt   | 76.0               | 75.8  | 78.4  | 89.1  | 177.8            | 176.8 | 164.5 | 195.8 |
| Jute goods, except felts                                     | 112.2              | 113.5 | 114.3 | 105.1 | 271.1            | 283.6 | 285.9 | 250.1 |
| Cordage and twine  | 115.1              | 116.7 | 117.8 | 131.6 | 278.9            | 288.6 | 291.5 | 330.6 |

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries Continued

| Industry group and industry                    | Employment indexes |       |       |       | Pay-roll indexes |       |       |       |
|--|--------------------|-------|-------|-------|------------------|-------|-------|-------|
|  | 1949               |       | 1948  |       | 1949             |       | 1948  |       |
|  | Jan.               | Dec.  | Nov.  | Jan.  | Jan.             | Dec.  | Nov.  | Jan.  |
| APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 1/ | 143.0              | 145.3 | 147.0 | 145.3 | 327.2            | 329.2 | 336.8 | 337.0 |
| Men's clothing, not elsewhere classified       | 121.8              | 122.5 | 124.4 | 124.2 | 269.6            | 271.9 | 276.0 | 290.1 |
| Shirts, collars, and nightwear                 | 85.0               | 90.3  | 95.2  | 99.8  | 192.9            | 211.5 | 234.5 | 246.8 |
| Underwear and neckwear, men's                  | 102.7              | 111.9 | 114.3 | 106.6 | 282.4            | 320.3 | 333.6 | 292.0 |
| Work shirts                                    | 97.7               | 112.9 | 117.1 | 98.6  | 238.4            | 271.0 | 288.7 | 217.8 |
| Women's clothing, not elsewhere classified     | 168.9              | 170.0 | 171.0 | 166.4 | 376.9            | 370.7 | 380.6 | 374.8 |
| Corsets and allied garments                    | 100.2              | 102.9 | 102.8 | 104.9 | 223.0            | 232.4 | 236.3 | 234.5 |
| Millinery                                      | 84.5               | 81.6  | 76.0  | 90.4  | 161.2            | 146.8 | 121.6 | 178.7 |
| Handkerchiefs                                  | 106.5              | 108.1 | 108.4 | 95.7  | 279.8            | 295.9 | 303.9 | 222.5 |
| Curtains, draperies, and bedspreads            | 99.2               | 109.9 | 116.2 | 135.7 | 240.4            | 265.2 | 283.8 | 318.9 |
| Housefurnishings, other than curtains, etc.    | 214.5              | 228.8 | 235.6 | 212.2 | 483.9            | 560.4 | 576.2 | 472.4 |
| Textile bags                                   | 192.7              | 190.9 | 187.2 | 177.0 | 451.0            | 455.7 | 438.7 | 380.7 |
| LEATHER AND LEATHER PRODUCTS 1/                | 105.0              | 104.8 | 104.5 | 114.9 | 235.0            | 234.3 | 224.4 | 258.7 |
| Leather  | 92.9               | 94.6  | 92.8  | 100.3 | 204.6            | 210.9 | 202.0 | 214.8 |
| Boot and shoe cut stock and findings           | 85.9               | 85.1  | 85.1  | 98.8  | 177.4            | 178.1 | 166.5 | 201.4 |
| Boots and shoes                                | 102.7              | 100.5 | 99.2  | 111.0 | 234.4            | 227.5 | 212.3 | 258.3 |
| Leather gloves and mittens                     | 93.6               | 106.0 | 124.1 | 121.9 | 194.2            | 209.9 | 259.4 | 245.3 |
| Trunks and suitcases                           | 132.3              | 157.3 | 175.6 | 159.3 | 256.3            | 343.2 | 417.5 | 321.6 |
| FOOD 1/  | 138.3              | 146.6 | 152.9 | 139.3 | 312.8            | 333.5 | 340.7 | 296.6 |
| Slaughtering and meat packing                  | 158.4              | 161.5 | 152.0 | 155.3 | 346.4            | 365.6 | 336.2 | 323.0 |
| Butter   | 166.2              | 173.4 | 172.1 | 162.0 | 371.2            | 380.9 | 379.0 | 330.3 |
| Condensed and evaporated milk                  | 174.8              | 172.1 | 179.6 | 169.3 | 414.1            | 407.4 | 424.4 | 369.8 |
| Ice cream                                      | 134.0              | 135.7 | 137.8 | 133.7 | 268.6            | 270.4 | 273.9 | 248.0 |
| Flour  | 148.8              | 149.4 | 150.2 | 150.5 | 362.5            | 346.6 | 351.9 | 326.0 |
| Feeds, prepared                                | 166.1              | 167.5 | 167.3 | 169.4 | 391.9            | 396.0 | 405.9 | 379.0 |
| Cereal preparations                            | 152.8              | 149.8 | 156.8 | 145.0 | 338.1            | 326.8 | 342.3 | 307.8 |
| Baking   | 128.2              | 132.2 | 134.3 | 124.2 | 264.6            | 279.5 | 280.8 | 243.2 |
| Sugar refining, cane                           | 154.7              | 152.8 | 141.4 | 139.9 | 343.0            | 316.9 | 285.3 | 261.2 |
| Sugar, beet                                    | 45.2               | 93.0  | 217.0 | 95.3  | 110.6            | 194.2 | 528.9 | 195.9 |
| Confectionery                                  | 133.0              | 147.9 | 161.2 | 147.1 | 304.6            | 347.0 | 388.7 | 323.8 |
| Beverages, nonalcoholic                        | 162.2              | 165.7 | 169.7 | 157.0 | 276.1            | 284.7 | 287.1 | 265.6 |
| Malt liquors                                   | 184.0              | 192.5 | 199.5 | 185.9 | 331.8            | 359.5 | 377.4 | 319.9 |
| Canning and preserving                         | 87.7               | 108.5 | 129.9 | 94.6  | 226.8            | 280.0 | 313.7 | 239.3 |
| TOBACCO MANUFACTURES 1/                        | 89.3               | 93.3  | 96.5  | 93.6  | 200.5            | 217.9 | 223.5 | 210.5 |
| Cigarettes                                     | 122.0              | 124.2 | 127.9 | 122.7 | 249.9            | 269.2 | 264.4 | 259.7 |
| Cigars   | 75.5               | 80.9  | 84.5  | 82.1  | 174.8            | 192.1 | 207.4 | 188.2 |
| Tobacco (chewing and smoking) and snuff        | 77.1               | 78.0  | 77.2  | 78.9  | 166.3            | 178.5 | 173.1 | 161.2 |

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

| Industry group and industry                           | Employment indexes |       |       |       | Pay-roll indexes |       |       |       |
|---|--------------------|-------|-------|-------|------------------|-------|-------|-------|
|   | 1949               |       | 1948  |       | 1949             |       | 1948  |       |
|   | Jan.               | Dec.  | Nov.  | Jan.  | Jan.             | Dec.  | Nov.  | Jan.  |
| PAPER AND ALLIED PRODUCTS <u>1/</u>                   | 147.5              | 151.1 | 151.7 | 148.7 | 342.6            | 356.5 | 362.2 | 328.0 |
| Paper and pulp  | 148.3              | 150.2 | 150.0 | 147.4 | 349.9            | 357.9 | 364.7 | 330.3 |
| Paper goods, other                                    | 164.9              | 168.2 | 168.6 | 165.9 | 381.2            | 394.7 | 392.8 | 355.1 |
| Envelopes   | 147.2              | 150.4 | 150.5 | 142.0 | 302.8            | 317.5 | 317.3 | 278.0 |
| Paper bags  | 148.5              | 150.5 | 152.6 | 163.2 | 355.4            | 364.5 | 365.3 | 368.1 |
| Paper boxes   | 136.3              | 144.0 | 146.3 | 140.8 | 305.6            | 335.3 | 344.5 | 309.1 |
| PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u> | 132.9              | 135.2 | 134.7 | 134.0 | 268.8            | 280.6 | 275.4 | 255.3 |
| Newspapers and periodicals                            | 126.0              | 128.3 | 127.2 | 121.0 | 241.9            | 258.9 | 253.3 | 218.9 |
| Printing; book and job                                | 146.2              | 147.8 | 147.1 | 148.6 | 309.4            | 316.0 | 307.9 | 295.9 |
| Lithographing   | 114.5              | 119.3 | 119.7 | 121.7 | 218.6            | 233.3 | 234.5 | 224.0 |
| Bookbinding   | 131.5              | 133.8 | 136.0 | 145.9 | 305.4            | 310.6 | 315.1 | 315.3 |
| CHEMICALS AND ALLIED PRODUCTS <u>1/</u>               | 206.1              | 207.0 | 207.8 | 204.1 | 459.1            | 462.3 | 461.9 | 426.7 |
| Paints, varnishes, and colors                         | 166.7              | 168.2 | 170.2 | 171.8 | 317.2            | 325.5 | 329.9 | 318.6 |
| Drugs, medicines, and insecticides                    | 238.2              | 233.9 | 235.3 | 238.5 | 534.6            | 514.4 | 514.0 | 490.7 |
| Perfumes and cosmetics                                | 108.3              | 118.0 | 124.1 | 115.4 | 231.7            | 249.0 | 261.9 | 230.9 |
| Soap  | 173.3              | 173.5 | 173.9 | 167.0 | 385.0            | 404.1 | 405.3 | 379.3 |
| Rayon and allied products                             | 134.6              | 134.0 | 132.3 | 130.8 | 304.5            | 305.3 | 300.1 | 268.6 |
| Chemicals, not elsewhere classified                   | 299.5              | 302.1 | 301.4 | 295.6 | 639.3            | 639.7 | 637.5 | 586.8 |
| Explosives and safety fuses                           | 371.7              | 375.2 | 375.4 | 347.5 | 707.6            | 746.9 | 749.1 | 669.2 |
| Compressed and liquefied gases                        | 232.8              | 239.6 | 239.2 | 249.9 | 487.7            | 483.8 | 491.0 | 465.0 |
| Ammunition, small-arms                                | 165.7              | 167.7 | 171.5 | 178.7 | 380.6            | 395.2 | 403.7 | 380.5 |
| Fireworks   | 227.2              | 208.0 | 220.6 | 213.4 | 587.4            | 541.4 | 544.2 | 591.6 |
| Cottonseed oil  | 157.1              | 168.3 | 178.0 | 142.1 | 475.6            | 539.9 | 555.4 | 397.4 |
| Fertilizers   | 161.5              | 152.1 | 152.4 | 176.9 | 449.8            | 427.5 | 415.3 | 475.2 |
| PRODUCTS OF PETROLEUM AND COAL <u>1/</u>              | 153.0              | 155.4 | 157.7 | 155.0 | 349.6            | 345.5 | 354.9 | 318.1 |
| Petroleum refining                                    | 154.2              | 154.8 | 155.3 | 153.5 | 346.4            | 338.2 | 343.9 | 303.9 |
| Coke and byproducts                                   | 148.9              | 147.8 | 148.2 | 140.6 | 358.4            | 350.7 | 346.7 | 309.8 |
| Paving materials                                      | 94.7               | 108.8 | 113.6 | 83.2  | 201.4            | 259.6 | 253.3 | 168.2 |
| Roofing materials                                     | 165.8              | 186.7 | 211.9 | 222.7 | 368.5            | 413.2 | 507.0 | 508.3 |

See explanatory notes, sections C, F, and G, and the glossary for definitions.



TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries Continued

| Industry group and industry   | Employment indexes |       |       |       | Pay-roll indexes |       |       |       |
|---|--------------------|-------|-------|-------|------------------|-------|-------|-------|
|   | 1949               |       | 1948  |       | 1949             |       | 1948  |       |
|   | Jan.               | Dec.  | Nov.  | Jan.  | Jan.             | Dec.  | Nov.  | Jan.  |
| RUBBER PRODUCTS <u>1/</u>   | 157.3              | 161.8 | 164.5 | 173.5 | 320.6            | 332.7 | 341.9 | 354.9 |
| Rubber tires and inner tubes  | 163.0              | 165.3 | 168.2 | 185.5 | 294.5            | 299.6 | 312.9 | 344.4 |
| Rubber boots and shoes  | 151.1              | 158.0 | 156.2 | 151.5 | 351.1            | 388.2 | 377.2 | 342.8 |
| Rubber goods, other   | 154.4              | 159.2 | 162.9 | 167.4 | 353.9            | 370.0 | 378.7 | 368.3 |
| MISCELLANEOUS INDUSTRIES <u>1/</u>                                    | 169.4              | 177.0 | 184.9 | 180.9 | 384.2            | 405.0 | 420.8 | 388.2 |
| Instruments (professional and scientific), and fire-control equipment | 270.4              | 267.1 | 268.1 | 245.3 | 588.1            | 578.6 | 576.9 | 507.5 |
| Photographic apparatus  | 217.1              | 223.9 | 224.1 | 220.4 | 440.7            | 455.1 | 455.4 | 418.1 |
| Optical instruments and ophthalmic goods                              | 219.6              | 221.5 | 218.7 | 233.6 | 452.9            | 455.7 | 447.8 | 452.3 |
| Pianos, organs, and parts   | 161.8              | 170.8 | 173.7 | 215.2 | 341.3            | 381.2 | 389.5 | 455.5 |
| Games, toys, and dolls  | 170.3              | 198.0 | 243.9 | 175.0 | 405.7            | 470.8 | 633.2 | 399.7 |
| Buttons   | 111.1              | 116.2 | 116.6 | 118.7 | 267.4            | 281.7 | 273.6 | 275.7 |
| Fire extinguishers  | 252.4              | 272.6 | 281.0 | 253.5 | 601.7            | 635.1 | 638.1 | 546.8 |

See explanatory notes, sections C, F, and G, and the glossary for definitions.

1/ See footnote 1, table 8.

**TABLE 11: Indexes of Employment and Weekly Pay Rolls in Selected Nonmanufacturing Industries**

(1939 Average = 100)

| Industry group and industry                 | Employment indexes |       |       |       | Pay-roll indexes |       |       |       |
|---|--------------------|-------|-------|-------|------------------|-------|-------|-------|
|   | 1949               | 1948  |       |       | 1949             | 1948  |       |       |
|   | Jan.               | Dec.  | Nov.  | Jan.  | Jan.             | Dec.  | Nov.  | Jan.  |
| <b>MINING:</b>                              |                    |       |       |       |                  |       |       |       |
| Coal  |                    |       |       |       |                  |       |       |       |
| Anthracite                                  | 92.3               | 92.0  | 92.1  | 91.1  | 238.6            | 224.6 | 216.0 | 242.4 |
| Bituminous coal                             | 107.8              | 109.0 | 108.3 | 108.7 | 353.0            | 353.1 | 343.1 | 350.5 |
| Metal                                       | 96.6               | 97.3  | 95.6  | 96.9  | 222.8            | 224.4 | 215.3 | 198.9 |
| Iron  | 150.5              | 152.7 | 152.1 | 146.5 | 354.4            | 358.0 | 353.2 | 302.7 |
| Copper                                      | 96.7               | 97.7  | 95.6  | 107.5 | 241.2            | 244.4 | 232.2 | 238.0 |
| Lead and zinc                               | 103.5              | 103.6 | 101.9 | 96.2  | 278.0            | 277.8 | 265.4 | 228.1 |
| Gold and silver                             | 33.8               | 33.1  | 31.6  | 33.1  | 60.6             | 61.1  | 56.6  | 56.4  |
| Miscellaneous <sup>1/</sup>                 | 188.0              | 189.4 | 183.2 | 183.0 | 412.3            | 408.2 | 374.1 | 348.4 |
| Quarrying and nonmetallic                   | 113.2              | 121.8 | 124.6 | 116.7 | 288.1            | 321.2 | 329.5 | 272.8 |
| Crude petroleum and natural gas production  | 113.2              | 113.2 | 114.0 | 110.5 | 245.1            | 235.7 | 235.3 | 215.5 |
| <b>TRANSPORTATION AND PUBLIC UTILITIES:</b> |                    |       |       |       |                  |       |       |       |
| Class I steam railroads <sup>2/</sup>       | 127.2              | 132.2 | 134.6 | 133.4 | 231.3            | 233.4 | 231.2 | 230.1 |
| Street railways and busses                  | 125.4              | 125.9 | 126.2 | 129.2 | 337.2            | 339.7 | 349.7 | 315.8 |
| Telephone                                   | 200.8              | 202.2 | 202.1 | 195.0 | 210.9            | 212.6 | 215.3 | 209.5 |
| Telegraph                                   | 88.6               | 90.0  | 90.7  | 97.2  | 206.8            | 206.4 | 205.8 | 187.9 |
| Electric light and power                    | 115.2              | 115.6 | 115.5 | 109.8 |                  |       |       |       |
| <b>TRADE <sup>3/</sup></b>                  |                    |       |       |       |                  |       |       |       |
| Wholesale                                   | 115.9              | 117.8 | 118.3 | 116.3 | 222.7            | 224.0 | 224.2 | 211.7 |
| Retail                                      | 111.7              | 129.0 | 119.4 | 114.4 | 222.6            | 251.4 | 228.4 | 209.4 |
| Food  | 111.6              | 114.6 | 113.8 | 114.4 | 232.4            | 234.8 | 229.7 | 219.4 |
| General merchandise                         | 126.0              | 177.1 | 146.4 | 129.4 | 248.3            | 340.8 | 270.3 | 233.0 |
| Apparel                                     | 110.9              | 135.0 | 122.5 | 111.5 | 211.9            | 254.7 | 226.9 | 198.8 |
| Furniture and housefurnishings              | 91.1               | 97.5  | 93.8  | 93.6  | 186.8            | 201.1 | 182.5 | 174.5 |
| Automotive                                  | 108.9              | 113.7 | 111.7 | 106.5 | 216.5            | 224.7 | 219.0 | 193.9 |
| Lumber and building materials               | 117.6              | 123.9 | 126.6 | 122.5 | 239.8            | 251.0 | 254.7 | 228.0 |
| <b>SERVICE:</b>                             |                    |       |       |       |                  |       |       |       |
| Hotels (year-round) <sup>4/</sup>           | 113.4              | 114.6 | 115.3 | 117.2 | 235.6            | 237.9 | 237.9 | 230.4 |
| Power laundries                             | 113.1              | 114.2 | 114.6 | 120.1 | 228.5            | 227.6 | 226.8 | 232.9 |
| Cleaning and dyeing                         | 145.3              | 148.4 | 150.5 | 152.8 | 284.3            | 291.3 | 289.3 | 285.6 |

See footnotes, table 9, and explanatory notes, sections C, F, and G.

<sup>1/</sup> September and October 1948 pay roll revised to 382.4 and 388.7.<sup>2/</sup> Source: Interstate Commerce Commission. Pay-roll data are not available.<sup>3/</sup> Includes all nonsupervisory workers and working supervisors.<sup>4/</sup> Money payments only; additional value of board, room, uniforms, and tips, not included.

## EXPLANATORY NOTES

Sec. A. Scope of Employment Adjustments - The employment estimates shown in this report for the industry divisions (e.g., manufacturing, mining, etc.) and industry groups (e.g., iron and steel, electrical machinery, etc.) have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series.

Sec. B. Sources of Bench-Mark Data - In preparing estimates for private employment prior to 1939, the various industrial censuses taken by the Bureau of the Census were used as sources of bench-mark data. Data obtained from the Federal Security Agency are the main bases for 1946 bench marks. Bench marks for State and local government are based on data compiled by the Bureau of the Census, while most of the data on Federal Government employment is made available by the U. S. Civil Service Commission. The Interstate Commerce Commission is the source for railroads, and the U. S. Maritime Commission for water transportation.

Sec. C. Adjustments of Production-Worker Estimates - Data for the manufacturing major industry groups have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series. Estimates for the individual manufacturing industries, formerly adjusted to data through 1945, are now being adjusted to 1946 bench-mark levels. As these adjustments are completed, they are published in this report and indicated by appropriate footnotes. In the nonmanufacturing industries, the entire series of mining industries have been adjusted to 1946 bench-mark levels.

Since the data shown in this report cover only the current months, a set of summary sheets for each industry presenting comparable figures from January 1939 to date, by months, will be provided upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

Sec. D. How Employment Estimates Are Made - Estimates of changes in the level of employment are based on reports from a sample group of establishments, inasmuch as full coverage is prohibitively costly and time-consuming. In using a sample, it is essential that an accurate base be established from which estimates may be carried forward. This base or "bench mark" is either a complete count or an estimate with a satisfactory degree of accuracy. When a new bench mark becomes available, estimates

prepared since the last bench mark are reviewed to determine if any adjustment of level is required. This is the basic principle of employment estimating used by the BLS. It yields a satisfactory compromise between a slow but highly accurate complete count on the one hand, and a rapid but less accurate sample count on the other.

Briefly, the Bureau of Labor Statistics computes employment estimates as follows: first, a bench mark or level of employment is determined; second, a sample of establishments is selected; and third, changes in employment indicated by this reporting sample are applied to the bench mark to determine the monthly estimates of employment between bench-mark periods. For example, if the latest complete data on employment for an industry were 40,200 in September, and if the industry has a reporting sample of 13 establishments employing 23,200 workers in September and 23,800 in October, the October estimates would be prepared as follows:

$$40,200 \times \frac{23,800}{23,200} = 41,240$$

In general, then, the month-to-month changes in employment reflect the fluctuations shown by establishments reporting to the Bureau of Labor Statistics.

Why Adjustments Are Necessary - Because reports are not immediately available from new firms, they are frequently introduced into the BLS sample after they have been in operation for some time. This lapse of time produces a rather consistent understatement which becomes larger from year to year. It is important, therefore, that estimates not be allowed to go uncorrected for too long a period. The most recent adjustments correct for the downward bias that had accumulated in the non-manufacturing series beginning January 1945 and in the manufacturing series beginning January 1946. Adjustments in some industry divisions were made in order to incorporate greater refinements in methodology and new source materials that have become available.

Sec. E. Comparability With Other Types of Employment Data - The Bureau of Labor Statistics employment estimates are based upon reports submitted by cooperating establishments and therefore differ from employment information obtained by household interviews, such as the Monthly Report of the Labor Force. The BLS estimates of employment in nonagricultural establishments differ from the Monthly Report of the Labor Force total nonagricultural employment estimates in several important respects.

For example: (1) The BLS estimates cover all full- and part-time wage and salary workers in private nonagricultural establishments who worked or received pay during the pay period ending nearest the 15th of the month; in Federal establishments during the pay period ending just before the first of the month; and in State and local government during the pay period ending on or just before the last of the month. Persons who worked in more than one establishment during the reporting period would be counted more than once; (2) Proprietors, self-employed persons, domestic servants, and unpaid family workers are excluded.

Sec. F. Pay-Roll Indexes - Cooperating establishments are instructed to report pay rolls of production or nonsupervisory workers prior to deduction for old age and unemployment insurance, withholding taxes, bonds, and union dues. Pay for sick leave, holidays, and vacations taken is included. Respondents are instructed to exclude pay for vacations not taken as well as cash estimates of any payments in kind. Bonuses, unless earned and paid regularly each pay period, are also excluded.

The methodology for obtaining pay-roll estimates is similar to that for employment estimates. Sample changes showing monthly movements are used in projecting established bench marks to secure current pay-roll estimates. These pay-roll estimates are converted into indexes, using the 1939 average as a base.

Sec. G. Source of Data - Employment and pay-roll estimates are based on reports from cooperating establishments. The approximate number of establishments, and workers covered, for each industry division is as follows:

Approximate Coverage of BLS Employment and Pay-Roll Sample

| Industry division                       | : Number :  |           | Employees or production workers |
|---|-------------|-----------|---------------------------------|
|   | : of estab- | : Number  | : Percent of total              |
|   | lishments:  |           |                                 |
| Manufacturing                           | 34,300      | 7,542,000 | 56                              |
| Mining                                  | 2,700       | 407,000   | 52                              |
| Contract construction                   | 12,500      | 480,000   | 22                              |
| Public utilities                        | 7,500       | 933,000   | 78                              |
| Trade:                                  |             |           |                                 |
| Wholesale                               | 12,800      | 360,000   | 20                              |
| Retail                                  | 37,900      | 1,097,000 | 25                              |
| Service:                                |             |           |                                 |
| Hotels (year-round)                     | 1,200       | 131,000   | 35                              |
| Power laundries and cleaning and dyeing | 1,600       | 67,000    | 21                              |

Sec. H. Coverage of Employment Estimates - The employment estimates shown in tables 1, 2, 3, 6, and 7 cover all full- and part-time wage and salary workers who worked or received pay during the pay period ending nearest the 15th of the month. Proprietors, self-employed persons, domestic servants, and personnel of the armed forces are excluded. The estimates and indexes shown in tables 8 and 10 refer to production and related workers as defined in the glossary, page ix.

Sec. I. State Estimates - State estimates are prepared in cooperation with various State Agencies as indicated on page v. The estimates for manufacturing have been adjusted to recent data made available under the Federal Social Security program. Since some States have adjusted to more recent bench-mark data than others, and because varying methods of computation are used, the total of the State estimates differs from the national total (see tables 1 and 2). Because of these recent revisions the State estimates for manufacturing are not consistent with the unrevised data shown prior to June 1947 for total employment in non-agricultural establishments, by State. A number of States also make available more detailed industry data and information for earlier periods which may be secured directly upon request to the appropriate State Agency. Estimates of nonagricultural employment, by State, for those States which are now publishing such estimates are shown in table 6 and are consistent with the manufacturing estimates in table 7. As nonagricultural estimates for additional States become available, they will be shown in table 6.

The following publications are available upon request from the BLS Regional Offices or the Bureau's Washington Office:

Nonagricultural Employment, by State, 1943-1947.

Employment in Manufacturing Industries, by State, 1943-1946.

Estimates of Total Employment in Manufacturing Industries by State, 1947.

## COOPERATING STATE AGENCIES

Alabama - Dept. of Industrial Relations, Montgomery 5.  
Arizona - Unemployment Compensation Div., Employment Security Commission, Phoenix.  
Arkansas - Employment Security Div., Dept. of Labor, Little Rock.  
California - Div. of Labor Statistics and Research, Dept. of Industrial Relations, San Francisco 3.  
Connecticut - Employment Security Div., Dept. of Labor and Factory Inspection, Hartford 15.  
Delaware - Federal Reserve Bank of Philadelphia, Philadelphia 1, Pa.  
Florida - Unemployment Compensation Div., Industrial Commission, Tallahassee.  
Georgia - Employment Security Agency, Dept. of Labor, Atlanta 3.  
Idaho - Employment Security Agency, Industrial Accident Board, Boise.  
Illinois - Dept. of Labor, Chicago 1.  
Indiana - Employment Security Div., Indianapolis 4.  
Iowa - Employment Security Commission, Des Moines 8.  
Kansas - State Labor Dept., Topeka.  
Kentucky - Dept. of Economic Security, Frankfort.  
Louisiana - Div. of Employment Security, Dept. of Labor, Baton Rouge 4.  
Maine - Unemployment Compensation Commission, Augusta.  
Maryland - Dept. of Employment Security, Baltimore 2.  
Massachusetts - Div. of Statistics, Dept. of Labor and Industries, Boston 10.  
Michigan - Dept. of Labor and Industry, Lansing 13.  
Minnesota - Div. of Employment and Security, Dept. of Social Security, St. Paul 1.  
Missouri - Div. of Employment Security, Dept. of Labor and Industrial Relations, Jefferson City.  
Montana - Unemployment Compensation Commission, Helena.  
Nebraska - Div. of Placement and Unemployment Insurance, Dept. of Labor, Lincoln 1.  
Nevada - Employment Security Dept., Carson City.  
New Hampshire - Unemployment Compensation Div., Bureau of Labor, Concord.  
New Jersey - Dept. of Labor, Trenton 5.  
New Mexico - Employment Security Commission, Albuquerque.  
New York - Div. of Placement and Unemployment Insurance, Dept. of Labor, New York 17.  
North Carolina - Dept. of Labor, Raleigh.  
Oklahoma - Employment Security Commission, Oklahoma City 2.  
Pennsylvania - Federal Reserve Bank of Philadelphia, Philadelphia 1 (mfg.); Bureau of Research and Information, Dept. of Labor and Industry, Harrisburg (nonmfg.)  
Rhode Island - Div. of Census and Information, Dept. of Labor, Providence 2.  
Tennessee - Dept. of Employment Security, Nashville 3.  
Texas - Bureau of Business Research, University of Texas, Austin 12.  
Utah - Dept. of Employment Security, Industrial Commission, Salt Lake City 13.  
Vermont - Unemployment Compensation Commission, Montpelier.  
Virginia - Div. of Research and Statistics, Dept. of Labor and Industry, Richmond 21.  
Washington - Employment Security Dept., Olympia.  
Wisconsin - Statistical Dept., Industrial Commission, Madison 3.  
Wyoming - Employment Security Commission, Casper.

## BLS REGIONAL OFFICES

New England: Regional Director, U. S. Bureau of Labor Statistics, Old South Bldg., 294 Washington St., Boston 33, Massachusetts (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont).

North Atlantic: Regional Director, U. S. Bureau of Labor Statistics, Room 1000, 341 Ninth Avenue, New York 1, New York (Delaware, District of Columbia, Maryland, New Jersey, New York, Pennsylvania).

Southern: Regional Director, U. S. Bureau of Labor Statistics, 1020 Grant Bldg., Forsyth and Walton Streets, Atlanta 3, Georgia (Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia).

North Central: Regional Director, U. S. Bureau of Labor Statistics, Room 312, 226 W. Jackson Blvd., Chicago 6, Illinois (Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, West Virginia, Wisconsin).

Pacific-Rocky Mountain: Regional Director, U. S. Bureau of Labor Statistics, 550 Federal Office Bldg., Fulton and Leavenworth Streets, San Francisco 2, California (Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming).

## GLOSSARY

Continental United States - Covers only the 48 States and the District of Columbia.

Contract Construction - Covers only firms engaged in the construction business on a contract basis for others. Force-account construction workers, i.e., hired directly by and on the pay rolls of Federal, State, and local government, public utilities, and private establishments, are excluded.

Defense Agencies Covers civilian employees of the National Military Establishment, Maritime Commission, National Advisory Committee for Aeronautics, The Panama Canal, Philippine Alien Property Administration, Philippine War Damage Commission, Selective Service System, War Assets Administration, Office of Defense Transportation, National Security Resources Board, National Security Council.

Family Allowances Represents the Government's contribution; the amount contributed by the personnel is included under pay rolls.

Federal Government-Executive Branch Includes U. S. Navy Yards, Federal arsenals, and force-account construction. Fourth-class postmasters are included under the executive branch in table 4, but are excluded from the government data shown in tables 1 and 3.



Employment shown here for the executive branch differs from data published by the U. S. Civil Service Commission in the following respects: (1) Employment collected and published by the Civil Service Commission as of the last day of the month, is here presented as of the first day of the next month; (2) substitute rural mail carriers are excluded; (3) employment in December of each year includes the additional postal employees necessitated by the Christmas season, excluded from published Civil Service Commission figures starting 1942; (4) seamen and trainees who are hired and paid by private steamship companies having contracts with the Maritime Commission are excluded; (5) the Panama Railroad Company is shown here under Government corporations but is included under the executive branch by the Civil Service Commission.

Finance - Covers establishments operating in the fields of finance, insurance, and real estate; excludes the Federal Reserve District Banks and the mixed-ownership banks of the Farm Credit Administration.

Government - Covers Federal, State, and local governmental establishments performing legislative, executive, and judicial functions, as well as all government-owned and operated establishments and institutions (arsenals, navy yards, hospitals, etc.), government corporations, and government force-account construction. The data shown in tables 1 and 3 exclude fourth-class postmasters because they presumably have other major jobs.

Government corporations - Covers only three corporations: The Panama Railroad Company, the Federal Reserve banks, and the mixed-ownership banks of the Farm Credit Administration. All other corporations are included under the executive branch.

Indexes of production-worker employment - Estimates of production-worker employment expressed as a percentage of the average employment in 1939.

Indexes of production-worker weekly pay rolls - Estimates of production-worker weekly pay rolls expressed as a percentage of the average weekly pay roll for 1939.

Leave payments - Payments were authorized by Public Law 704 of the 79th Congress and were continued by Public Law 254 of the 80th Congress to enlisted personnel who were discharged prior to September 1, 1946 for accrued and unused leave and to officers and enlisted personnel then on active duty for leave accrued in excess of 60 days. Value of bonds represents face value; interest is paid in addition when bonds are cashed. Lump-sum payments for terminal leave, which were authorized by Public Law 350 of the 80th Congress, and were started October 1947, are excluded here and included under pay rolls.

Manufacturing - Covers only privately owned establishments; governmental manufacturing operations such as arsenals and navy yards are excluded.

Military personnel - Represents persons on active duty as of the first of the month. Reserve personnel are excluded if on inactive duty or if on active duty for a brief training or emergency period.

Military pay rolls - Represent estimated pay roll obligations based on an average monthly personnel count, plus lump-sum payments for terminal leave. Pay rolls for the Navy and Coast Guard include cash payments for clothing-allowance balances in January, April, July, and October.

Mining Covers establishments engaged in the extraction from the earth of organic and inorganic minerals which occur in nature as solids, liquids, or gases; includes various contract services required in mining operations, such as removal of overburden, tunnelling and shafting, and the drilling or acidizing of oil wells; also includes ore dressing, beneficiating, and concentration.

Nonagricultural establishments - Governmental or private business establishments; (1) that are physically located within continental United States; and (2) whose principal activity can be classified under one of the following industry divisions manufacturing, mining, contract construction, transportation and public utilities, trade, finance, service, or government.

Pay rolls - Private pay rolls represent weekly pay rolls of both full- and part-time production and related workers (or nonsupervisory employees and working supervisors) who worked or received pay for any part of the pay period ending nearest the 15th of the month, before deductions for old-age and unemployment insurance, group insurance, withholding tax, bonds, and union dues, but after deductions for damaged work. Includes pay for sick leave, holidays, and vacations taken. Excludes cash payments for vacations not taken, retroactive pay not earned during period reported, value of payments in kind, and bonuses, unless earned and paid regularly each pay period. In coal mining portal-to-portal pay is included.

Federal civilian pay rolls are for all employees before deductions for income tax, retirement, and bonds, and cover the working days in the calendar month.

Production and related workers - Includes working foremen and all nonsupervisory workers (including lead men and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial, watchman services, products development, auxiliary production for plant's own use (e.g., power plant), and record-keeping and other services closely associated with the above production operations. Excludes supervisory employees (above the working foreman level) and their clerical staffs, routemen, salesmen, and other groups of nonproduction workers defined below under wage and salary workers.

Service - Covers establishments primarily engaged in rendering services to individuals and business firms. Excludes automobile repair services, government owned and operated hospitals, museums, etc., and domestic service.

Trade - Covers establishments engaged in wholesale trade, i.e., selling merchandise to retailers, and in retail trade, i.e., selling merchandise for personal or household consumption, and rendering services incidental to the sales of goods. Includes auto repair services.

Transportation and public utilities Covers only privately owned and operated enterprises engaged in providing all types of transportation and related services; telephone, telegraph, and other communication services; or providing electricity, gas, steam, water, or sanitary service. Government owned and operated establishments are included under government.

Wage and salary workers - In addition to production and related workers as defined above, includes workers engaged in the following activities: executive, purchasing, finance, accounting, legal, personnel (including cafeterias, medical, etc.), professional and technical activities, sales, sales-delivery, advertising, credit, collection, and in installation and servicing of own products, routine office functions, factory supervision (above the working foreman level); and other workers not included as production workers. Also includes employees on the establishment pay roll engaged in new construction and major additions or alterations to the plant who are utilized as a separate work force (force-account construction workers).

Wage earner See production workers.

Washington, D. C. - Data for the executive branch of the Federal Government also include areas in Maryland and Virginia which are within the metropolitan area, as defined by the Bureau of the Census.