

# **EMPLOYMENT and payrolls**

**DETAILED REPORT  
MAY 1951**

**UNITED STATES DEPARTMENT OF LABOR  
Maurice J. Tobin - Secretary  
BUREAU OF LABOR STATISTICS  
Ewan Clague - Commissioner**

U. S. DEPARTMENT OF LABOR  
Bureau of Labor Statistics  
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EMPLOYMENT AND PAY ROLLS

Detailed Report

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NOTICE

This issue presents two new sections interpreting national employment developments. The section headed, Employment Trends, reviews recent changes in employment. Tables 1 and 2 show preliminary data for June 1951. The section headed, Industry Highlights, presents brief statements on trends in selected industries. In addition, statistical data on employment of women in manufacturing industries in March 1951 are presented on page A:24.

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# EMPLOYMENT TRENDS

## JUNE 1951

The general employment situation at mid-year 1951 was characterized by overall stability as expansion in defense-related sectors of the economy offset some slackening in the demand for labor in certain other sectors. Total employment in commerce, industry, and government was at an all-time high, and remained stable through the second quarter of the year, except for minor seasonal changes. Lay-offs rose significantly and hours of work were reduced somewhat in industries affected by a falling off in consumer demand or by restrictions on metals supply. However, continued moderate tightness of the labor market, on an overall national basis, was evidenced by the lowest level of unemployment for the season since World War II, by the high rate of voluntary job shifting on the part of employed workers, and by extensive overtime work in defense-related industries.

### Employment declines in consumer goods industries

Continued employment declines were reported in a number of consumer goods industries between mid-May and mid-June, whereas employment in defense-related industries showed further gains. In addition, employment increases were reported in construction, food-processing, and other seasonal activities. As a result, the number of employees in nonfarm establishments rose slightly over the month, to 46.4 million, about 2-1/2 million higher than at the start of the Korean War in June 1950. (See Tables 1&2)

Among the industries showing declines in employment over the month were textiles, apparel, television, furniture, and automobiles, where labor turn-over reports for May revealed a significant rise in lay-offs. In these industries, June employment was at or below the level of a year ago, in contrast to an over-all gain of 1.2 million in the number of factory jobs. Some slackening in employment in many consumer goods industries has been reported since early spring, reflecting reduced consumer demand as well as restrictions on the use of metals in certain industries.

The growing volume of defense orders brought further employment gains between May and June in such industries as aircraft, shipbuilding, and metalworking machinery. Since June 1950, employment has risen by approximately 190,000 in the aircraft industry, by 80,000 in metalworking machinery plants and by 50,000 in private shipyards.

Employment in contract construction rose seasonally between May and June, reaching an all-time high of 2.7 million. In recent months, a less-than-seasonal gain in housebuilding activity has been offset by sharp expansion in industrial, military, and other heavy construction.

Employment in Federal defense activities, including arsenals, military bases, and naval shipyards rose by about 20,000 over the month. This was only about half the average monthly gain since the Korean outbreak.

#### Unemployment continues at seasonal low in June

Unemployment totaled 2.0 million in early June, according to Bureau of the Census estimates; the number of jobless had risen by 400,000 from early May. All of the net increase occurred among young people entering the labor force at the end of the school year. However, the number of unemployed adult males did not show the moderate drop usually noted at this time of the year. This may have reflected recent cut-backs in the output of certain civilian goods. Nevertheless, unemployment remained at a postwar low for the season for the fourth consecutive month, indicating continued strength in the general employment situation despite the rise in lay-offs in certain industries. The unemployment total in June 1951 was 200,000 lower than in June 1948 (the previous postwar low for the month and 1.4 million below the pre-Korea level of June 1950).

Claims for State unemployment insurance benefits continued at very low levels through the second quarter of this year. Continued claims averaged about 900,000 during the second quarter, or about 10 percent below the 1948 level for the corresponding period. Initial claims - representing the first filing for benefits by a newly unemployed worker - were slightly over 200,000, approximately equal to the 1948 level. These figures pointed to a volume of lay-offs comparable with the most favorable postwar experience and indicates an even more rapid rate of absorption of laid-off workers into employment.

In the first week of July 1951, however, initial claims for State unemployment insurance benefits rose to approximately 270,000, almost two-fifths higher than in the corresponding week in 1948 and approximately the same as in the comparable period of 1950, before the post-Korea boom got under way. According to reports of State employment security agencies, the sharp rise in initial claims resulted, in large part, from vacation shut-downs. The increase in claims, however, was greater than usually experienced at this time of year and may reflect the fact that plants have taken on especially large numbers of workers during the past year. Many of these workers may not be eligible for vacation pay when their plant shuts down. There have been indications, also, of somewhat earlier and more extensive vacation shut-downs this year.

#### Factory layoff rate increases

Lay-offs of workers in manufacturing industries rose in May for the second straight month, largely because of cut-backs in automobile production and reduced activity in certain other consumer goods manufacturing industries. The factory lay-off rate per 1,000 employees

rose to 13 in May from 10 in April and 8 in March. The May rate however, was still at approximately the same level as in the earlier postwar years of high employment of 1947 and 1948.

One of the sharpest rises in lay-offs over the month was in the automobile industry, where the rate increased from 20 per 1,000 in April, to 52 in May. Sizable increases in lay-offs were also reported in the textile, apparel, leather products, and furniture industries.

Despite the rise in lay-offs, factories continued to hire workers in May at about the same rate as in the three preceding months - 45 per 1,000 employees. Compared with year-ago levels, the hiring rate has continued relatively high in a number of industries closely allied to defense activity, including ordnance, primary metals, machinery, and instruments.

The quit rate of factory workers, at 28 per 1,000 in May was unchanged from the April rate and continued substantially above the rate of 16 per 1,000 in May 1950. Over the year the quit rate has increased in every industry group and most pronouncedly in defense-related industries, where expanded job opportunities have made job shifting between plants easier.

#### Factory hours level off

The workweek of production workers in manufacturing averaged 40.8 hours in June, virtually unchanged from the preceding month, and less than half an hour above the level of a year ago. Largely as a result of reduced activity during the past few months, the average workweek in June 1951 was lower than a year ago in plants producing automobiles, furniture, household appliances, apparel, rubber products, textiles, and leather products. On the other hand, sizable gains in weekly hours over the year were reported by most of the metals and metals products industries. The greatest increases, of 2 hours or more, were in the metalworking machinery, aircraft, shipbuilding, heavy electrical equipment, and basic steel industries. Most of these gains occurred in the last half of 1950, however; the workweek has been relatively stable in recent months. The average workweek in June 1951 exceeded 41 hours in nearly all of the metals and metals producing industries, indicating that many plants in these industries were scheduling extensive overtime work.

Average weekly earnings of the Nation's 13 million production workers in manufacturing totaled \$65.44 in June 1951, an increase of 89 cents since May and \$6.59 since June 1950. Durable goods industries showed the major gain over the month, \$1.21, as compared with 62 cents in nondurable industries. The rise in earnings in durable goods manufacturing was the result both of increases in hours in certain industries and of some cost-of-living adjustments in wage rates.

Average gross hourly earnings - including overtime and other premium pay - were \$1.60 in June 1951, up by 2 cents over the month, and 15 cents over the year.

TABLE 1

5.

Employees in Nonagricultural Establishments, by Industry Division and Selected Groups,  
June, May, April 1951 and June 1950

(In thousands)

| Industry division and group                    | 1951              |        |        | 1950   | Net change                        |                                    |
|--|-------------------|--------|--------|--------|-----------------------------------|------------------------------------|
|  | June<br><u>1/</u> | May    | April  | June   | May<br>1951<br>to<br>June<br>1951 | June<br>1950<br>to<br>June<br>1951 |
| <b>TOTAL</b>                                   | 46,410            | 46,191 | 45,960 | 43,945 | +219                              | +2,465                             |
| <b>MANUFACTURING</b>                           | 15,864            | 15,839 | 15,928 | 14,666 | + 25                              | +1,198                             |
| <b>MINING</b>                                  | 917               | 912    | 910    | 946    | + 5                               | - 29                               |
| Metal mining                                   | 105               | 104    | 104    | 102    | + 1                               | + 3                                |
| Bituminous-coal                                | 379               | 377    | 381    | 410    | + 2                               | - 31                               |
| Nonmetallic mining and<br>quarrying            | 107               | 106    | 104    | 100    | + 1                               | + 7                                |
| <b>CONTRACT CONSTRUCTION</b>                   | 2,674             | 2,592  | 2,472  | 2,414  | + 82                              | + 260                              |
| <b>TRANSPORTATION AND PUBLIC<br/>UTILITIES</b> | 4,164             | 4,139  | 4,132  | 4,023  | + 25                              | + 141                              |
| Transportation                                 | 2,924             | 2,912  | 2,907  | 2,813  | + 12                              | + 111                              |
| Communication                                  | 685               | 681    | 680    | 662    | + 4                               | + 23                               |
| Other public utilities                         | 555               | 546    | 545    | 548    | + 9                               | + 7                                |
| <b>TRADE</b>                                   | 9,695             | 9,670  | 9,618  | 9,411  | + 25                              | + 284                              |
| Wholesale trade                                | 2,577             | 2,567  | 2,579  | 2,502  | + 10                              | + 75                               |
| Retail trade                                   | 7,118             | 7,103  | 7,039  | 6,909  | + 15                              | + 209                              |
| General merchandise stores                     | 1,459             | 1,465  | 1,446  | 1,411  | - 6                               | + 48                               |
| Food and liquor stores                         | 1,270             | 1,267  | 1,262  | 1,205  | + 3                               | + 65                               |
| Automotive and accessories<br>dealers          | 746               | 742    | 738    | 733    | + 4                               | + 13                               |
| Apparel and accessories<br>stores              | 546               | 551    | 543    | 536    | - 5                               | + 10                               |
| Other retail trade                             | 3,097             | 3,078  | 3,050  | 3,024  | + 19                              | + 73                               |
| <b>FINANCE</b>                                 | 1,893             | 1,875  | 1,865  | 1,827  | + 18                              | + 66                               |
| <b>SERVICE</b>                                 | 4,830             | 4,787  | 4,743  | 4,826  | + 43                              | + 4                                |
| <b>GOVERNMENT</b>                              | 6,373             | 6,377  | 6,292  | 5,832  | - 4                               | + 541                              |
| Federal  | 2,271             | 2,244  | 2,201  | 1,851  | + 27                              | + 420                              |
| State and local                                | 4,102             | 4,133  | 4,091  | 3,981  | - 31                              | + 121                              |

1/ Preliminary

TABLE 2

6.

Employees in Manufacturing Industry Groups  
June, May, April 1951 and June 1950

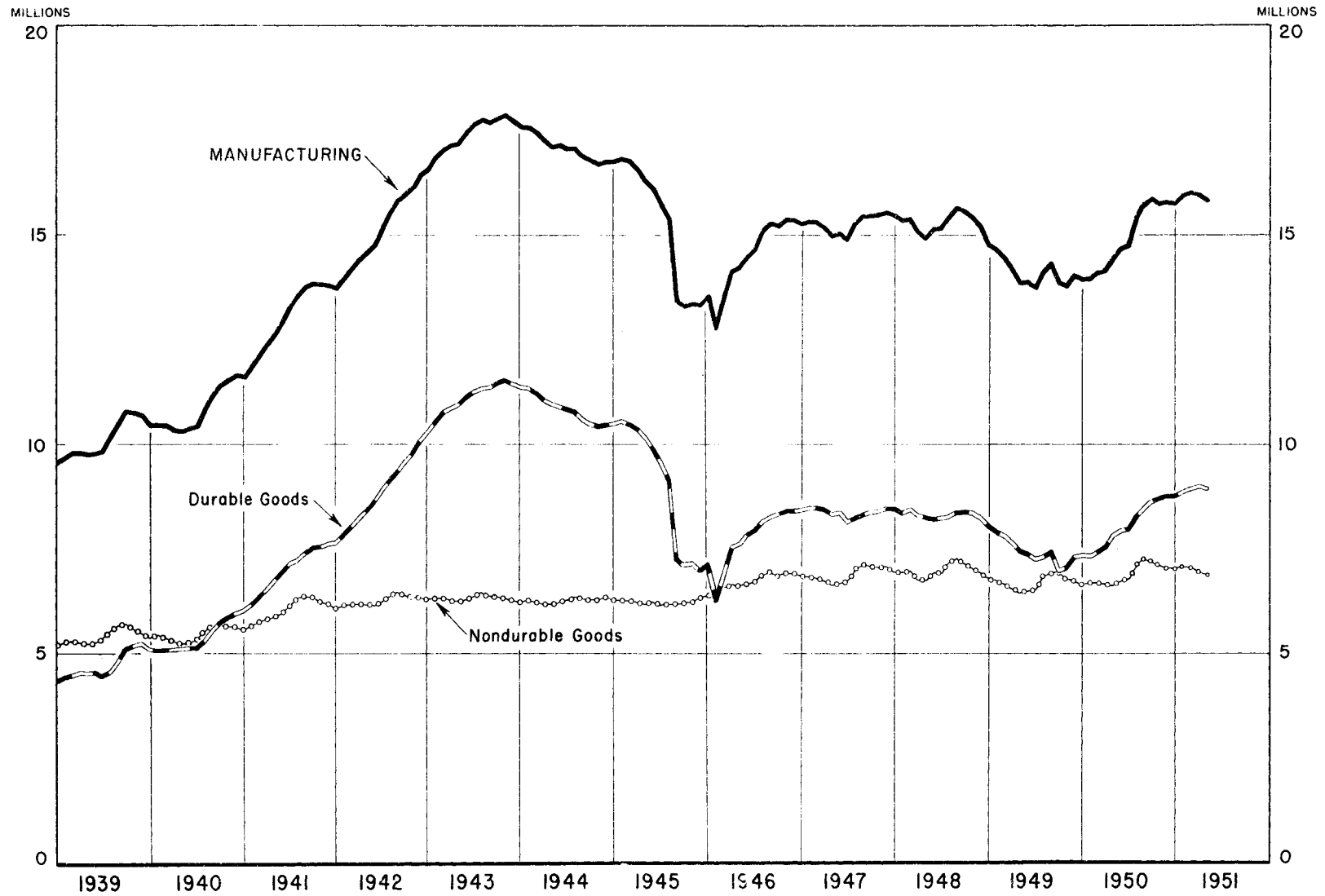
(In thousands)

| Industry Group   | 1951              |        |        | 1950   | Net change                        |                                    |
|--|-------------------|--------|--------|--------|-----------------------------------|------------------------------------|
|  | June<br><u>1/</u> | May    | April  | June   | May<br>1951<br>to<br>June<br>1951 | June<br>1950<br>to<br>June<br>1951 |
| <b>MANUFACTURING</b>   | 15,864            | 15,839 | 15,928 | 14,666 | + 25                              | +1,198                             |
| <b>DURABLE GOODS</b>   | 8,960             | 8,959  | 8,977  | 7,964  | + 1                               | + 996                              |
| Ordnance and accessories   | 41.8              | 39.7   | 37.6   | 23.7   | + 2.1                             | + 18.1                             |
| Lumber and wood products<br>(except furniture)   | 824               | 822    | 803    | 803    | + 2                               | + 21                               |
| Furniture and fixtures   | 340               | 350    | 367    | 340    | - 10                              | - 9                                |
| Stone, clay, and glass<br>products   | 559               | 559    | 559    | 511    | 0                                 | + 48                               |
| Primary metal industries   | 1,347             | 1,343  | 1,343  | 1,216  | + 4                               | + 131                              |
| Fabricated metal products<br>(except ordnance, machinery,<br>and transportation equipment) | 1,019             | 1,025  | 1,034  | 923    | - 6                               | + 96                               |
| Machinery (except electrical)  | 1,611             | 1,598  | 1,588  | 1,341  | + 13                              | + 270                              |
| Electrical machinery   | 912               | 928    | 937    | 810    | - 16                              | + 102                              |
| Transportation equipment   | 1,531             | 1,512  | 1,514  | 1,305  | + 19                              | + 226                              |
| Instruments and related<br>products  | 298               | 296    | 294    | 243    | + 2                               | + 55                               |
| Miscellaneous manufacturing<br>industries  | 477               | 436    | 500    | 439    | - 9                               | + 38                               |
| <b>NONDURABLE GOODS</b>  | 6,904             | 6,880  | 6,951  | 6,702  | + 24                              | + 202                              |
| Food and kindred products  | 1,526             | 1,433  | 1,463  | 1,519  | + 43                              | + 7                                |
| Tobacco manufactures   | 81                | 81     | 83     | 82     | 0                                 | - 1                                |
| Textile-mill products  | 1,271             | 1,301  | 1,309  | 1,264  | - 30                              | + 7                                |
| Apparel and other finished<br>textile products   | 1,103             | 1,118  | 1,166  | 1,093  | - 15                              | + 10                               |
| Paper and allied products  | 501               | 498    | 500    | 467    | + 3                               | + 34                               |
| Printing, publishing, and<br>allied industries   | 760               | 757    | 757    | 739    | + 3                               | + 21                               |
| Chemicals and allied<br>products   | 745               | 742    | 748    | 670    | + 3                               | + 75                               |
| Products of petroleum and coal   | 261               | 259    | 257    | 239    | + 2                               | + 22                               |
| Rubber products  | 276               | 271    | 270    | 247    | + 5                               | + 29                               |
| Leather and leather products   | 380               | 370    | 393    | 382    | + 10                              | - 2                                |

1/ Preliminary

# EMPLOYMENT IN MANUFACTURING INDUSTRIES

## ALL EMPLOYEES



UNITED STATES DEPARTMENT OF LABOR  
BUREAU OF LABOR STATISTICS



# SUMMARY REPORT ON EMPLOYMENT TRENDS FOR 72 METROPOLITAN AREAS NOW AVAILABLE . . .

NEW ANNUAL PUBLICATION The Bureau of Labor Statistics has recently released a new publication entitled "Area Employment, 1950". This publication is one in a series of 5 volumes, each with the general title "Employment, Hours, and Earnings--State and Area Data". All five volumes will be prepared annually. The names of the other volumes are as follows: Hours and Earnings in Manufacturing by State, Nonagricultural Employment by State, Manufacturing Employment by State, and Summary Volume--State and Area Data.

The current volume, "Area Employment, 1950" includes employment trend data in varying detail for 72 metropolitan areas. For all 72 areas there are estimates of employment in manufacturing industries for 1950, by month, and for all but four there are comparable figures for 1949. For 20 areas complete statistics for 1950 are available, i.e., estimates of total non-agricultural employment and employment in each of the major industry divisions. For 15 areas, there is a manufacturing series starting in 1947.

Data on employment trends will eventually be provided for 114 major metropolitan areas, the population of which comprises half the United States total. The area employment series are prepared by State agencies cooperating with the Bureau of Labor Statistics. Each State is scheduled to participate by preparing estimates for at least one area; 14 States will eventually contribute data on three or more areas. Information for several areas is now compiled by State agencies in addition to the basic group and this number may expand as the program advances.

DATA HAVE MANY USES Manufacturing trends in urban areas frequently are a significant barometer of the economic health of the community. Factory workers usually comprise the largest single segment in a metropolitan workforce. Many of the other industries, such as trade and service, derive their prosperity from the level of factory employment and payrolls. It is not surprising, therefore, that changes in manufacturing employment in each city are followed with the keenest interest. In many cities where public officials or citizens' groups are actively engaged in attracting new industry, manufacturing employment is one of the more important indexes in gauging success or failure of their efforts.

Distribution of employment by industry in metropolitan areas affords insight into the character of our major population centers. It highlights the extent to which cities are manufacturing centers, financial centers, government centers, or resort centers. Government administrators are provided the basis for a more complete evaluation of public welfare activity. Management is given an invaluable tool for market analysis.

SUMMARY OF  
FINDINGS

Approximately 6 out of every 7 reporting areas showed an upward trend in manufacturing employment between 1949 and 1950. Areas in which durable goods are relatively important generally had a more favorable employment experience than those where soft goods predominated. From the data available, it was obvious that manufacturing employment in areas of less than 200,000 was subject to more violent fluctuations than those in the larger metropolitan centers which tend to have more diversified industries.

Urban areas differ greatly in their industrial composition. This was illustrated by the wide variation in the proportion of workers engaged in manufacturing in each of the areas. Approximately 1 out of every 2 workers in Providence, Fort Wayne, and Evansville, for example, are engaged in factory work. At the other extreme is Washington, D. C., where the bulk of the workers are in Government, trade, and service.

COPIES  
AVAILABLE  
TO PUBLIC

Copies of the "Area Employment, 1950" volume may be obtained by writing to the Bureau of Labor Statistics, Department of Labor, Washington 25, D. C. Current employment data for the 72 metropolitan areas are available monthly in the Bureau's regular report "Employment and Payrolls--Detailed Report" (They appear on page A:17 of the present issue). Requests for more detailed industry information should be directed to the Bureau of Labor Statistics or to the appropriate State agency. Names and addresses of these agencies appear on page iv.

# INDUSTRY HIGHLIGHTS

## Electrical Power & Industrial Apparatus

Substantial increases in employment have occurred in the manufacture of electrical generating, transmission, distribution and industrial apparatus since the beginning of 1950. Gains in employment were noted in the early part of 1950 and were accelerated after the beginning of hostilities in Korea. The 270,800 production workers employed in May 1951 marked a 22 percent gain since June 1950. This recent upsurge has carried employment above the previous postwar peak of 266,000 in 1947.

Current plans call for an expansion of 40 percent in electric power capacity by 1953. Achievement of this goal will require a substantial output of generating, transmission and distribution equipment. Large quantities of metals are being allocated for this program, and as a result, continued expansion of employment in this industry is expected.

## RUBBER PRODUCTS

High levels of employment in the rubber products industry continued into May 1951, when 220,000 production workers were reported. The demands of the mobilization program, a generally favorable tire market, and the development of new rubber products, such as mattresses, pillows and upholstery, have all contributed to the upswing of employment from a postwar low of 167,000 in September 1949.

The outlook for the industry is affected by the efforts of the Federal Government to guard against a possible repetition of World War II experience, when the cutting off of Far Eastern natural rubber drastically curtailed production. Synthetic rubber plants built during World War II are being reopened and natural rubber is being stock piled by the Government. Military and civilian orders for rubber products will keep employment high for at least the next several months. Passenger-car tire production will probably decrease somewhat owing to a decline in automobile production.

## RETAIL TRADE

Employment in retail trade in May 1951 stood at 7,103,000 compared with 6,847,000 a year ago. In the first 5 months of 1951 employment in this field has averaged 7,046,000 -- about 4 percent higher than the corresponding period in 1950. This increase reflects, mainly, higher consumer incomes which have resulted from expanding employment and increasing wage rates. A heavy advance buying of goods in which the defense program was expected to cause shortages, has also helped to boost sales volume and employment in retail establishments. This factor, however, has decreased in importance in the past few months as continued high volume production of some products has caused inventory accumulations to appear. Employment in retail trade is considerably above the wartime years and is slightly higher than in 1947 and 1948.

Under the conditions of partial mobilization which are expected to continue for the next several years, employment in retail trade is likely to remain at relatively high levels. Production of most civilian goods will continue at rates considerably above that of World War II. However, as expanding defense production causes a general tightening of the labor market, turn over will increase since many workers will leave retail trade for better paying jobs in other industries. The average hourly earnings of \$1.25 in April 1951 were 9 cents higher than in April 1950. There was little change in average weekly hours over the same period, 40.0 in April 1951 compared with 40.1 in April 1950.

## CONSTRUCTION & MINING MACHINERY

The construction and mining machinery industry has had an uninterrupted rise in employment during the past 12 months. May 1951 employment of 119,100 was about 24 percent above May 1950 but slightly below 1947 and 1948 levels. A lengthening workweek has accompanied rising employment. The average weekly hours have increased from 41.8 hours in May 1950 to 44.4 in April 1951. Heavy demands for construction and mining machinery are expected to continue during the next several years, and production levels will depend on the availability of steel.

## STEEL FOUNDRIES

Production worker employment in steel foundries has almost doubled since the beginning of 1950, jumping from 33,300 in January to 62,100 in May 1951. About two-thirds of this gain has been made since the start of the Korean War. A further substantial growth in employment is expected, by 1953, but the number of jobs will remain below the peak levels of World War II.

In peacetime, steel castings are mainly used for industrial machinery, railroad equipment, construction, and construction machinery. Demands from these industries will continue at relatively high levels, and there will be a sharp increase in the requests for steel castings for heavy guns, tanks and ships.

## THE TELEPHONE INDUSTRY

Employment in the telephone industry increased by about 21,000 between May 1950 and May 1951, but the number of jobs remained below the postwar peak which was reached in 1948. A slight rise in employment is expected in the next 6 months. Telephone employment has increased by 70 percent since 1940 while the number of telephones jumped from 22 million to 43 million. This growth in the number of telephones is largely the result of population growth and the higher levels of industrial activity and consumer income. The high employment levels in 1948 reflected the large volume of installations of new central stations, lines and phones.

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# INDUSTRY EMPLOYMENT REPORTS

## SHIPBUILDING AND REPAIRS

. . . employment rises to meet defense needs

Shipyard employment has increased over 60 percent since the outbreak of hostilities in Korea. In May 1950, employment in the yards had declined to a postwar low of 132,400 workers and these were equally divided between Navy yards and private yards. By May 1951, shipyard employment had risen to 216,900 with 55 percent of this total in Navy yards. (See table 1.)

There is no general shortage of shipyard workers at the present time although local shortages in some individual occupations have appeared. The List of Critical Occupations issued by the United States Department of Labor includes the following shipyard occupations: marine loftsmen, ship-riggers, shipfitters, marine boilermakers, and marine lay-out men. Shortages in these key occupations, which are employed mainly on new construction, may become more serious when the shipbuilding programs of the Navy and Maritime Administration reach their peak.

Shipyard employment is expected to increase during the next few years. It is estimated that about 40,000 more workers will be added by the middle of 1952. These new workers will be engaged largely in Navy and Merchant Marine construction.

### Past Trends in Production and Employment

Shipbuilding activity is subject to very wide fluctuations. During both World Wars, the United States engaged in huge shipbuilding programs. After each war the volume of shipping which had been produced proved greater than could be utilized in peacetime commerce and excess ships were placed in reserve anchorages. These large stand-by fleets had a depressing effect upon new construction and shipyards were limited almost entirely to repair activities for several years.

Since shipyards often engage in both construction and repair and since ships take an appreciable time to construct, employment is a better measure of shipyard activity than tonnage completed or other measures of production. Shipyard employment reached an all-time high in December 1943 when 1,723,000 workers were employed. Thereafter, employment declined steadily until May 1950 when only 132,400 workers were employed in American shipyards. As table 1 indicates, employment in private yards declined more precipitously than employment in Navy yards.

TABLE 1

## EMPLOYMENT IN PRIVATE AND NAVY SHIPYARDS, 1939-51

| Year and month  | Total     | Private 1/ | Navy    |
|-----------------|-----------|------------|---------|
| 1939 .....      | 119,900   | 72,500     | 47,400  |
| 1940 .....      | 180,300   | 102,700    | 77,500  |
| 1941 .....      | 377,000   | 236,000    | 141,000 |
| 1942 .....      | 1,004,000 | 761,700    | 242,300 |
| 1943 .....      | 1,655,500 | 1,336,900  | 318,600 |
| 1944 .....      | 1,568,600 | 1,242,500  | 326,100 |
| 1945 .....      | 1,033,900 | 741,900    | 292,000 |
| 1946 .....      | 354,100   | 210,000    | 144,100 |
| 1947 .....      | 224,000   | 137,300    | 86,600  |
| 1948 .....      | 213,900   | 124,200    | 89,700  |
| 1949 .....      | 171,800   | 88,100     | 83,700  |
| 1950: .....     | 144,900   | 71,300     | 73,600  |
| May .....       | 132,400   | 66,200     | 66,200  |
| June .....      | 134,800   | 66,400     | 68,400  |
| July .....      | 137,500   | 67,400     | 70,100  |
| August .....    | 153,000   | 78,400     | 74,600  |
| September ..... | 153,700   | 75,800     | 76,900  |
| October .....   | 156,300   | 75,300     | 81,000  |
| November .....  | 160,200   | 75,500     | 84,700  |
| December .....  | 167,100   | 77,800     | 89,300  |
| 1951:           |           |            |         |
| January .....   | 180,400   | 82,400     | 98,000  |
| February .....  | 198,800   | 94,400     | 104,400 |
| March .....     | 210,700   | 95,000     | 115,700 |
| April .....     | 214,700   | 93,700     | 121,000 |
| May .....       | 216,900   | 94,200     | 122,700 |

1/ Shipbuilding and repairing industry. Excludes boatbuilding.

Since the outbreak of hostilities in Korea there has been an acceleration of construction activities and a withdrawal of naval and merchant ships from reserve fleets. The Maritime Administration and the Military Sea Transportation Service have removed approximately 200 vessels from the reserve fleets. As a result, the increase in employment was most marked in the segment of the industry engaged in repair and reconditioning.

### Nature of the Industry

Although shipbuilders utilized some mass production techniques during World War II, these methods are generally not adaptable to shipbuilding, especially during periods of low activity when there is a limited demand for ships of similar specifications. Ships are usually designed for the requirements of a particular customer and often differ in basic structure. Tankers, for example, are quite different from dry cargo ships or passenger ships.

During peacetime the private shipbuilding market is small and highly competitive. American shipbuilders also face keen competition in world markets. Other industries compete successfully in world markets despite higher wages because their large domestic markets enable them to use mass production techniques and machinery and thereby reduce total labor costs. The nature of the productive processes used in shipbuilding, however, does not permit the substitution of machines for labor to the extent possible in other industries. Labor costs comprise a large proportion of shipbuilding costs and these higher wages place American shipbuilders at a disadvantage in competing with foreign shipbuilders. Besides lower labor costs, foreign shipbuilders often receive government subsidies. The United States Maritime Administration has provided various subsidies to the maritime industries in an attempt to equalize cost differences and offset the effects of foreign subsidies.

As a further aid to the American shipbuilding industry, shipping laws require that coastal, intercoastal, and inland waterways commerce be carried in American made vessels. Thus, a large proportion of peacetime ship construction in private yards consists of tankers, ore vessels, barges, and various types of inland waterways craft used in domestic commerce.

Private shipyards also participate in construction, modification, and repair of naval vessels. However, these yards are usually heavily loaded with orders for merchant vessels during wartime when peak naval construction occurs. In peacetime, since the Navy needs a smaller fleet, surplus warships remaining after the war are placed in reserve. This stand-by fleet tends to limit postwar naval construction in the same way that the existence of surplus merchant vessels limits commercial construction.

Although the primary function of Navy yards is the repair and maintenance of the fleet, Navy yards also construct and modify naval vessels as only a small number of private yards have long enough ways to construct



battle cruisers or large aircraft carriers. Moreover, the Vinson-Trammell Act of 1934 requires that the first and each alternate combat vessel must be built in Navy yards. The President can lift this restriction in the interest of national defense during an emergency. At the present time, naval construction is almost equally divided between private and Navy yards. Naval modification and repair is heavily concentrated in Navy yards.

#### Location of the Industry

Shipyards located along the Atlantic seaboard employ the largest number of shipyard workers. Almost two-thirds of the workers in Navy yards and about 60 percent of the workers in private yards are employed in Atlantic shipyards. (See table 2.) During World War II, Atlantic yards also employed the greatest number of workers and accounted for almost half of the total shipbuilding labor force.

Pacific Coast yards employed 35 percent of all shipyard workers during the height of the wartime shipbuilding program in 1943, but currently employ less than a quarter of the industry's total labor force. This decline in relative importance is attributable to the lack of new construction. Only 17 percent of Pacific Coast shipyard workers were employed in private yards during May 1951, and these workers were engaged almost entirely in ship repair activities.

Employment in shipyards located along the Great Lakes increased during 1950. Increased demand for iron ore has stimulated the construction of additional ore vessels. Employment on new construction doubled during 1950 and partially offset the normal seasonal decline in Great Lakes ship repair during the summer months. Only 8 percent of all shipyard workers are employed in Gulf Coast yards, and these are engaged largely in ship repair activities.

TABLE 2  
SHIPBUILDING EMPLOYMENT BY REGION  
(May 1951)

| Region               | Total   | Private | Navy    |
|----------------------|---------|---------|---------|
| North Atlantic ..... | 99,900  | 44,600  | 55,300  |
| South Atlantic ..... | 37,200  | 14,100  | 23,100  |
| Gulf of Mexico ..... | 16,600  | 16,600  | -----   |
| Pacific ..           | 53,400  | 9,100   | 44,300  |
| Great Lakes .....    | 5,400   | 5,400   | ----    |
| Inland .....         | 4,400   | 4,400   | ----    |
| TOTAL .....          | 216,900 | 94,200  | 122,700 |

Atlantic seaboard yards only employed more workers on new construction than on repair in December 1950. (See table 3.) Only 2 percent of Pacific Coast shipyard workers were employed on new construction. Since Atlantic seaboard yards employ more workers than all other regions combined, employment on new construction is highly concentrated in these yards. Over 80 percent of all workers engaged in new construction were employed in Atlantic yards in December 1950.

TABLE 3  
PERCENT OF PRODUCTION WORKERS EMPLOYED  
IN VARIOUS PRIVATE SHIPYARD ACTIVITIES, BY REGION,  
(December 1950)

| Region                       | Total | New construction | Repair and modification | Other activities (includes some shipbuilding work not allocable between new construction and repair) |
|------------------------------|-------|------------------|-------------------------|--|
| Atlantic .....               | 100   | 47               | 34                      | 19   |
| Gulf of Mexico ..            | 100   | 8                | 82                      | 10   |
| Pacific .....                | 100   | 2                | 79                      | 19   |
| Great Lakes and Inland ..... | 100   | 37               | 37                      | 26   |
| United States ...            | 100   | 35               | 47                      | 18   |

During the past few years of low shipyard activity, many yards engaged in other activities in order to retain their skilled labor force. Approximately 7 percent of the industry's workers were engaged in activities other than ship construction or repair in December 1950. These activities included the fabrication of steel products, boiler and machine shop products, large turbine casings, heavy industrial machinery, bridge caissons, and even wind tunnels for aeronautical research.

#### Outlook for the Industry

Shipyard employment depends upon the volume of ship construction, repair, and reconditioning. The size of the Navy and the Merchant Marine determines the level of repair and reconditioning activity and partially determines the volume of new construction. At the present time, the majority of ship construction, reconditioning, and repair is for the Navy.

Congress authorized a \$2 billion naval construction and re-conditioning program in March 1951. This authorization provides for 500,000 tons of naval vessels as follows:

1. Warships - 100,000 tons, including aircraft carriers
2. Landing craft and amphibious warfare vessels --  
175,000 tons
3. Mine warfare vessels - 25,000 tons
4. Patrol vessels - 15,000 tons
5. Auxiliary vessels - 175,000 tons
6. Service craft - 9,000 tons
7. Experimental types - 1,000 tons

A large part of this anticipated new construction will probably be done in private shipyards, principally on the Atlantic Coast. Present naval construction is almost equally divided between Navy yards and private yards and over 90 percent of the total tonnage is being constructed in Atlantic yards.

Private shipbuilders had under construction or on order 62 large merchant vessels as of May 1, 1951. Of the 62 vessels under contract, 6 are scheduled for delivery in 1951, 48 in 1952, and 6 in 1953. Twenty-five of these merchant vessels are the new high-speed "Mariners" ordered by the Maritime Administration. Most of the remaining ships are tankers and bulk ore carriers.

In addition to the expanded naval construction program, the Navy plans to recondition and modernize a great many older ships. Although a large part of this work will probably be done in Navy yards, some of it will be sub-contracted to private shipbuilders. Moreover, another 100 cargo vessels are expected to be brought out of the reserve fleets in the near future. The reconditioning and repair of these vessels will continue to provide employment to private shipyard workers now engaged in repair work. Almost half of the 1,807 vessels in the USMA reserve fleet on May 31, 1949, were located in Atlantic anchorages, so Atlantic shipyards will probably receive the largest share of this work. The remainder will be almost equally divided between Pacific and Gulf Coast yards.

Commercial and Navy requirements for ship repair are difficult to forecast because the volume varies widely. Repair activity, however, generally increases with the size of the Navy and Merchant Marine. The Navy and some commercial shippers use a cycle system of repair whereby ships are docked for repairs after a specified length of service. Some other shippers repair their vessels only when necessary. A higher volume of ship repair activity is anticipated during the next few years because of the increased size of the Navy and Merchant Marine and the increased combat activity of naval vessels resulting from the Korean War. However, the resultant increase in employment will be small and will be divided between Navy and private yards.

The size of present shipbuilding, repair, and modification programs indicates that present shipyards are likely to receive all of the orders and stand-by shipyards will not be reactivated.

### The Labor Force

Shipbuilding and repair requires a large proportion of skilled workers. During World War II, over half of all shipyard employees were classified as skilled workers or supervisory employees. About 40 percent were classified as semiskilled and less than 10 percent unskilled. Welders, shipfitters, machinists, carpenters, shipwrights, pipefitters, electricians, chippers and caulkers, and painters made up the largest shipyard occupations. At the present time, production workers comprise almost 90 percent of the industry's total work force although, in periods of lower activity, the ratio is usually lower.

Women comprise only a small percentage of shipyard workers. This is because of the physical requirements of the work and the large proportion of skilled trades required. During World War II, female participation in shipbuilding was encouraged and women reached a peak of 11 percent of all workers in the industry. Pacific Coast shipyards utilized a much larger proportion of women than other areas. More women were employed in new construction than in ship repair. At the present time, women comprise about 3 percent of the industry's employment and most of these are engaged in office work.

### Hours and Earnings

In May 1951 average hourly earnings of shipyard workers were \$1.73 as compared with \$1.59 for all manufacturing industries and \$1.66 in durable goods industries. Weekly earnings in shipyards also have averaged higher than in durable goods or all manufacturing, but they fell below the durable goods average during the spring of 1951 as a result of a shorter workweek. In May shipyard weekly earnings were \$68.89 and the durable goods average was \$69.39. However, weekly earnings are expected to increase following the Wage Stabilization Board's recent approval of shipyard wage agreements which raised the pay of 25,000 workers.

TABLE 4  
 HOURS AND EARNINGS OF PRODUCTION WORKERS  
 IN  
 PRIVATE SHIPBUILDING AND REPAIR, 1947-51

| Year and month | Average weekly earnings | Average hourly earnings | Average weekly hours |
|----------------|-------------------------|-------------------------|----------------------|
| 1947 .....     | \$ 57.59                | \$1.458                 | 39.5                 |
| 1948 .....     | 61.22                   | 1.582                   | 38.7                 |
| 1949 .....     | 61.88                   | 1.637                   | 37.8                 |
| 1950 .....     | 63.83                   | 1.671                   | 38.2                 |
| 1951:          |                         |                         |                      |
| January .....  | 64.73                   | 1.677                   | 38.6                 |
| February ..... | 69.41                   | 1.718                   | 40.4                 |
| March .....    | 69.33                   | 1.729                   | 40.1                 |
| April .....    | 69.19                   | 1.734                   | 39.9                 |
| May .....      | 68.89                   | 1.731                   | 39.8                 |

There are marked regional variations in average hourly earnings. Hourly earnings in Pacific yards were substantially higher in December 1950 than earnings in other areas (table 5). Workers engaged in repair activities averaged slightly higher earnings than workers engaged in new construction, although this was not true in all regions.

TABLE 5  
 AVERAGE HOURLY EARNINGS IN PRIVATE SHIPBUILDING AND REPAIRING, BY REGION  
 December 1950

| Region               | Average Hourly Earnings |
|----------------------|-------------------------|
| All regions .....    | 1.69                    |
| North Atlantic ..... | 1.68                    |
| South Atlantic ..... | 1.65                    |
| Gulf .....           | 1.52                    |
| Pacific .....        | 2.06                    |
| Great Lakes .....    | 1.63                    |
| Inland .....         | 1.67                    |

Despite the 60 percent increase in employment since Korea, there has been only a moderate increase in the workweek. In June 1950, the average workweek was 37.8 hours and in May of this year it was 39.8. During World War II, the workweek ranged from 45 to 49 hours. Despite an average workweek below 40 hours an appreciable number of shipyard workers were employed on extra shift operations or engaged in Saturday or Sunday work in April. There are marked regional variations in the average workweek. Pacific Coast and Gulf Coast yards had an average workweek in December 1950, which was almost 2 hours less than the national average

### Turn-over

The turn-over rates in shipyard employment continue to be among the highest in manufacturing. Total accessions and separations in shipbuilding and repair are still several times the average for durable goods or all manufacturing industries. This high turn-over is due to the heavy lay-offs which are characteristic of the industry. Some trades are needed only during certain stages of construction, with the majority of the labor force required at the half-way point. Only special skills are required after the ship is launched. The construction of a series of vessels of identical specifications, as in World War II, can cause a drop in the lay-off rate because workers in specialized trades can move from one ship to the next. Another cause of high turn-over is the large variation in the volume of ship construction and repair.

TABLE 6

LABOR TURN-OVER RATES (PER 100 EMPLOYEES) IN SHIPBUILDING AND REPAIR, AND ALL DURABLE GOODS INDUSTRIES, 1947-51

| Year and month | Shipbuilding        |       |          |            | Durable Goods       |       |          |            |
|----------------|---------------------|-------|----------|------------|---------------------|-------|----------|------------|
|                | Separations         |       |          | Accessions | Separations         |       |          | Accessions |
|                | Total <sup>1/</sup> | Quits | Lay-offs |            | Total <sup>1/</sup> | Quits | Lay-offs |            |
| 1947 .....     | 12.4                | 5.0   | 6.3      | 11.5       | 5.0                 | 3.4   | 1.0      | 5.2        |
| 1948 .....     | 13.7                | 3.1   | 9.8      | 11.1       | 4.8                 | 2.8   | 1.3      | 4.5        |
| 1949 .....     | 16.5                | 1.6   | 14.4     | 13.7       | 5.2                 | 1.4   | 2.7      | 3.5        |
| 1950 .....     | 16.4                | 2.2   | 13.2     | 17.4       | 3.6                 | 2.0   | 1.1      | 4.9        |
| 1951:          |                     |       |          |            |                     |       |          |            |
| January .....  | 14.3                | 3.6   | 8.7      | 39.3       | 4.4                 | 2.2   | 1.1      | 5.7        |
| February ..... | 14.2                | 4.1   | 8.4      | 20.5       | 3.9                 | 2.2   | .7       | 5.0        |
| March .....    | 17.9                | 5.1   | 11.0     | 14.7       | 4.4                 | 2.7   | .7       | 5.1        |
| April .....    | 14.6                | 4.8   | 8.8      | 17.6       | 4.7                 | 3.0   | .8       | 5.2        |

<sup>1/</sup> Includes discharges and miscellaneous separations.

EMPLOYMENT AND PAY ROLLS

Detailed Report  
 Statistical Tables  
 May 1951

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

\* \* \* \* \*

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

TABLE 1: Employees in Nonagricultural Establishments, by Industry Division

(In thousands)

| Year and month         | Total  | Mining | Contract construction | Manufacturing | Transportation and public utilities | Trade  | Finance | Service | Government |
|------------------------|--------|--------|-----------------------|---------------|-------------------------------------|--------|---------|---------|------------|
| <u>Annual average:</u> |        |        |                       |               |                                     |        |         |         |            |
| 1939                   | 30,287 | 845    | 1,150                 | 10,078        | 2,912                               | 6,612  | 1,382   | 3,321   | 3,987      |
| 1940                   | 32,031 | 916    | 1,294                 | 10,780        | 3,013                               | 6,940  | 1,419   | 3,477   | 4,192      |
| 1941                   | 36,164 | 947    | 1,790                 | 12,974        | 3,248                               | 7,416  | 1,462   | 3,705   | 4,622      |
| 1942                   | 39,697 | 983    | 2,170                 | 15,051        | 3,433                               | 7,333  | 1,440   | 3,857   | 5,431      |
| 1943                   | 42,042 | 917    | 1,567                 | 17,381        | 3,619                               | 7,189  | 1,401   | 3,919   | 6,049      |
| 1944                   | 41,480 | 833    | 1,094                 | 17,111        | 3,798                               | 7,260  | 1,374   | 3,934   | 6,026      |
| 1945                   | 40,069 | 826    | 1,132                 | 15,302        | 3,872                               | 7,522  | 1,394   | 4,055   | 5,967      |
| 1946                   | 41,412 | 852    | 1,661                 | 14,461        | 4,023                               | 8,602  | 1,586   | 4,621   | 5,607      |
| 1947                   | 43,371 | 943    | 1,982                 | 15,247        | 4,122                               | 9,196  | 1,641   | 4,786   | 5,454      |
| 1948                   | 44,201 | 931    | 2,165                 | 15,286        | 4,151                               | 9,491  | 1,716   | 4,799   | 5,613      |
| 1949                   | 43,006 | 932    | 2,156                 | 14,146        | 3,977                               | 9,438  | 1,763   | 4,782   | 5,811      |
| 1950                   | 44,124 | 904    | 2,318                 | 14,884        | 4,010                               | 9,524  | 1,812   | 4,761   | 5,910      |
| <u>1950</u>            |        |        |                       |               |                                     |        |         |         |            |
| Mar..                  | 42,295 | 938    | 1,907                 | 14,103        | 3,873                               | 9,206  | 1,791   | 4,708   | 5,769      |
| Apr..                  | 42,926 | 939    | 2,076                 | 14,162        | 3,928                               | 9,346  | 1,805   | 4,757   | 5,915      |
| May..                  | 43,311 | 940    | 2,245                 | 14,413        | 3,835                               | 9,326  | 1,812   | 4,790   | 5,900      |
| June..                 | 43,945 | 946    | 2,414                 | 14,666        | 4,023                               | 9,411  | 1,827   | 4,826   | 5,832      |
| July..                 | 44,096 | 922    | 2,532                 | 14,777        | 4,062                               | 9,390  | 1,831   | 4,841   | 5,741      |
| Aug..                  | 45,080 | 950    | 2,629                 | 15,450        | 4,120                               | 9,474  | 1,837   | 4,827   | 5,793      |
| Sept..                 | 45,684 | 946    | 2,626                 | 15,685        | 4,139                               | 9,641  | 1,827   | 4,816   | 6,004      |
| Oct..                  | 45,898 | 939    | 2,631                 | 15,827        | 4,132                               | 9,752  | 1,821   | 4,757   | 6,039      |
| Nov..                  | 45,873 | 938    | 2,571                 | 15,765        | 4,123                               | 9,896  | 1,820   | 4,723   | 6,037      |
| Dec..                  | 46,595 | 937    | 2,403                 | 15,789        | 4,125                               | 10,443 | 1,828   | 4,694   | 6,376      |
| <u>1951</u>            |        |        |                       |               |                                     |        |         |         |            |
| Jan..                  | 45,246 | 932    | 2,281                 | 15,734        | 4,072                               | 9,592  | 1,831   | 4,666   | 6,088      |
| Feb..                  | 45,390 | 930    | 2,228                 | 15,978        | 4,082                               | 9,554  | 1,839   | 4,657   | 6,122      |
| Mar..                  | 45,850 | 924    | 2,326                 | 16,022        | 4,112                               | 9,713  | 1,854   | 4,682   | 6,217      |
| Apr..                  | 45,960 | 910    | 2,472                 | 15,928        | 4,152                               | 9,618  | 1,865   | 4,743   | 6,292      |
| May..                  | 46,191 | 912    | 2,592                 | 15,839        | 4,139                               | 9,670  | 1,875   | 4,787   | 6,377      |

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



TABLE 2: Employees in Nonagricultural Establishments, by Industry Division and Group

(In thousands)

| Industry division and group                | 1951   |        |        | 1950   |        |
|--|--------|--------|--------|--------|--------|
|  | May    | April  | March  | May    | April  |
| TOTAL                                      | 46,191 | 45,960 | 45,850 | 43,311 | 42,926 |
| MINING                                     | 912    | 910    | 924    | 940    | 939    |
| Metal mining                               | 104.1  | 104.4  | 105.3  | 99.9   | 98.5   |
| Anthracite                                 | 70.4   | 67.6   | 72.2   | 76.1   | 75.3   |
| Bituminous-coal                            | 377.3  | 381.3  | 396.3  | 413.1  | 419.0  |
| Crude petroleum and natural gas production | 254.0  | 253.3  | 250.2  | 253.9  | 251.4  |
| Nonmetallic mining and quarrying           | 165.9  | 103.5  | 99.6   | 97.3   | 94.5   |
| CONTRACT CONSTRUCTION                      | 2,592  | 2,472  | 2,326  | 2,245  | 2,076  |
| NONBUILDING CONSTRUCTION                   | 504    | 456    | 394    | 442    | 389    |
| Highway and street                         | 213.3  | 180.9  | 149.5  | 182.4  | 150.2  |
| Other nonbuilding construction             | 290.7  | 274.9  | 244.0  | 260.0  | 238.4  |
| BUILDING CONSTRUCTION                      | 2,088  | 2,016  | 1,932  | 1,803  | 1,687  |
| GENERAL CONTRACTORS                        | 895    | 852    | 807    | 766    | 702    |
| SPECIAL-TRADE CONTRACTORS                  | 1,193  | 1,164  | 1,125  | 1,037  | 985    |
| Plumbing and heating                       | 292.2  | 290.1  | 284.7  | 257.1  | 249.3  |
| Painting and decorating                    | 166.5  | 154.9  | 146.7  | 126.7  | 117.1  |
| Electrical work                            | 140.1  | 139.4  | 138.3  | 122.0  | 120.2  |
| Other special-trade contractors            | 593.7  | 579.9  | 555.5  | 530.8  | 498.7  |
| MANUFACTURING                              | 15,839 | 15,928 | 16,022 | 14,413 | 14,162 |
| DURABLE GOODS                              | 8,959  | 8,977  | 8,969  | 7,809  | 7,548  |
| NONDURABLE GOODS                           | 6,880  | 6,951  | 7,053  | 6,604  | 6,614  |
| TRANSPORTATION AND PUBLIC UTILITIES        | 4,139  | 4,132  | 4,112  | 3,885  | 3,928  |
| Transportation                             | 2,912  | 2,907  | 2,893  | 2,685  | 2,733  |
| Interstate railroads                       | 1,466  | 1,462  | 1,451  | 1,296  | 1,356  |
| Class I railroads                          | 1,291  | 1,286  | 1,274  | 1,135  | 1,188  |
| Local railways and bus lines               | 144    | 144    | 144    | 149    | 150    |
| Trucking and warehousing                   | 619    | 624    | 626    | 562    | 554    |
| Other transportation and services          | 683    | 677    | 672    | 678    | 673    |
| Air transportation (common carrier)        | 79.1   | 78.1   | 76.9   | 74.6   | 73.7   |
| Communication                              | 681    | 680    | 675    | 659    | 657    |
| Telephone                                  | 631.5  | 630.1  | 625.9  | 610.7  | 609.2  |
| Telegraph                                  | 48.8   | 48.5   | 47.8   | 46.9   | 46.9   |

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

TABLE 2: Employees in Nonagricultural Establishments, by Industry  
Division and Group (Continued)

(In thousands)

| Industry division and group                               | 1951  |       |       | 1950  |       |
|---|-------|-------|-------|-------|-------|
|   | May   | April | March | May   | April |
| <b>TRANSPORTATION AND PUBLIC UTILITIES</b><br>(Continued) |       |       |       |       |       |
| Other public utilities                                    | 546   | 545   | 544   | 541   | 538   |
| Gas and electric utilities                                | 520.7 | 519.3 | 519.1 | 515.8 | 512.5 |
| Electric light and power utilities                        | 232.2 | 231.6 | 231.5 | 232.5 | 231.4 |
| Gas utilities   | 116.0 | 115.6 | 115.6 | 113.1 | 111.7 |
| Electric light and gas utilities<br>combined              | 172.5 | 172.1 | 172.0 | 170.2 | 169.4 |
| Local utilities, not elsewhere classified                 | 24.9  | 25.4  | 24.6  | 25.0  | 25.3  |
| <b>TRADE</b>  | 9,670 | 9,618 | 9,713 | 9,326 | 9,346 |
| Wholesale trade   | 2,567 | 2,579 | 2,590 | 2,479 | 2,477 |
| Retail trade  | 7,103 | 7,039 | 7,123 | 6,847 | 6,869 |
| General merchandise stores                                | 1,465 | 1,446 | 1,512 | 1,412 | 1,466 |
| Food and liquor stores                                    | 1,267 | 1,262 | 1,264 | 1,204 | 1,200 |
| Automotive and accessories dealers                        | 742   | 738   | 736   | 714   | 706   |
| Apparel and accessories stores                            | 551   | 543   | 574   | 533   | 545   |
| Other retail trade  | 3,078 | 3,050 | 3,037 | 2,984 | 2,952 |
| <b>FINANCE</b>  | 1,875 | 1,865 | 1,854 | 1,812 | 1,803 |
| Banks and trust companies                                 | 452   | 451   | 449   | 421   | 420   |
| Security dealers and exchanges                            | 63.8  | 63.9  | 63.9  | 59.2  | 58.2  |
| Insurance carriers and agents                             | 664   | 662   | 662   | 640   | 639   |
| Other finance agencies and real estate                    | 695   | 688   | 679   | 692   | 686   |
| <b>SERVICE</b>  | 4,787 | 4,743 | 4,682 | 4,790 | 4,757 |
| Hotels and lodging places                                 | 451   | 445   | 435   | 451   | 441   |
| Laundries   | 357.8 | 352.6 | 351.3 | 353.7 | 347.4 |
| Cleaning and dyeing plants                                | 158.6 | 153.1 | 150.4 | 150.1 | 146.1 |
| Motion pictures   | 250   | 249   | 243   | 236   | 236   |
| <b>GOVERNMENT</b>   | 6,377 | 6,252 | 6,217 | 5,900 | 5,915 |
| Federal <sup>1/</sup>                                     | 2,244 | 2,201 | 2,146 | 1,890 | 1,939 |
| State and local   | 4,133 | 4,051 | 4,071 | 4,010 | 3,976 |

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

<sup>1/</sup> Fourth class postmasters are excluded here but are included in Table 6.

TABLE 3: All Employees and Production Workers in Mining and Manufacturing Industries

(In thousands)

| Industry group and industry                                     | All employees |        |        | Production workers |        |        |
|---|---------------|--------|--------|--------------------|--------|--------|
|   | 1951          |        |        | 1951               |        |        |
|   | May           | April  | March  | May                | April  | March  |
| MINING  | 912           | 910    | 924    | -                  | --     | --     |
| METAL MINING  | 104.1         | 104.4  | 105.3  | 91.7               | 91.9   | 93.2   |
| Iron mining   | 37.7          | 36.9   | 36.4   | 33.7               | 33.0   | 32.6   |
| Copper mining   | 28.5          | 28.9   | 29.2   | 24.9               | 25.3   | 25.6   |
| Lead and zinc mining  | 20.5          | 20.8   | 21.6   | 17.9               | 18.2   | 19.0   |
| ANTHRACITE  | 70.4          | 67.6   | 72.2   | 66.1               | 63.6   | 67.9   |
| BITUMINOUS-COAL   | 377.3         | 381.3  | 396.3  | 353.2              | 357.8  | 372.2  |
| CRUDE PETROLEUM AND NATURAL GAS PRODUCTION                      | 254.0         | 253.3  | 250.2  | --                 | --     | --     |
| Petroleum and natural gas production (except contract services) | --            | --     | --     | 125.7              | 125.0  | 124.0  |
| NONMETALLIC MINING AND QUARRYING                                | 105.9         | 103.5  | 99.6   | 93.1               | 90.4   | 86.8   |
| MANUFACTURING   | 15,839        | 15,928 | 16,022 | 12,991             | 13,090 | 13,189 |
| DURABLE GOODS   | 8,959         | 8,977  | 8,969  | 7,404              | 7,428  | 7,428  |
| NONDURABLE GOODS  | 6,880         | 6,951  | 7,053  | 5,587              | 5,662  | 5,761  |
| ORDNANCE AND ACCESSORIES  | 39.7          | 37.6   | 35.5   | 32.1               | 30.3   | 28.7   |
| FOOD AND KINDRED PRODUCTS                                       | 1,483         | 1,468  | 1,476  | 1,098              | 1,086  | 1,096  |
| Meat products   | 290.2         | 291.1  | 295.3  | 229.2              | 229.1  | 233.3  |
| Dairy products  | 149.5         | 143.5  | 139.1  | 109.0              | 103.1  | 99.0   |
| Canning and preserving  | 162.7         | 153.6  | 150.0  | 136.5              | 128.1  | 124.6  |
| Grain-mill products   | 122.7         | 125.7  | 126.4  | 90.2               | 93.8   | 95.2   |
| Bakery products   | 288.5         | 288.1  | 287.5  | 189.5              | 189.9  | 190.0  |
| Sugar   | 29.3          | 28.6   | 28.8   | 24.1               | 23.5   | 23.8   |
| Confectionery and related products                              | 90.9          | 92.4   | 97.2   | 74.0               | 75.6   | 80.3   |
| Beverages   | 213.8         | 210.0  | 213.4  | 146.0              | 143.6  | 146.6  |
| Miscellaneous food products                                     | 135.0         | 134.5  | 138.1  | 99.1               | 99.2   | 102.8  |
| TOBACCO MANUFACTURES  | 81            | 83     | 85     | 74                 | 76     | 78     |
| Cigarettes  | 25.4          | 25.6   | 25.7   | 22.9               | 23.1   | 23.3   |
| Cigars  | 39.6          | 41.1   | 42.0   | 37.5               | 38.9   | 39.9   |
| Tobacco and snuff   | 12.1          | 12.1   | 12.2   | 10.5               | 10.5   | 10.7   |
| Tobacco stemming and redrying                                   | 4.3           | 4.6    | 4.9    | 3.5                | 3.8    | 4.2    |

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

TABLE 3: All Employees and Production Workers in Mining and Manufacturing Industries (Continued)

(In thousands)

| Industry group and industry                                   | All employees |              |              | Production workers |              |              |
|---|---------------|--------------|--------------|--------------------|--------------|--------------|
|   | 1951          |              |              | 1951               |              |              |
|   | May           | April        | March        | May                | April        | March        |
| <b>TEXTILE-MILL PRODUCTS</b>                                  | <b>1,301</b>  | <b>1,309</b> | <b>1,319</b> | <b>1,206</b>       | <b>1,214</b> | <b>1,223</b> |
| Yarn and thread mills   | 170.8         | 171.1        | 172.5        | 159.8              | 160.2        | 161.8        |
| Broad-woven fabric mills                                      | 602.2         | 597.0        | 596.6        | 571.5              | 566.0        | 564.4        |
| Knitting mills  | 241.3         | 250.4        | 256.1        | 221.7              | 230.4        | 236.4        |
| Dyeing and finishing textiles                                 | 90.7          | 87.6         | 94.0         | 80.2               | 77.5         | 83.9         |
| Carpets, rugs, other floor coverings                          | 58.6          | 61.1         | 62.2         | 50.5               | 53.0         | 54.3         |
| Other textile-mill products                                   | 137.3         | 141.7        | 137.8        | 121.8              | 126.6        | 122.6        |
| <b>APPAREL AND OTHER FINISHED TEXTILE PRODUCTS</b>            | <b>1,118</b>  | <b>1,166</b> | <b>1,229</b> | <b>1,000</b>       | <b>1,046</b> | <b>1,106</b> |
| Men's and boys' suits and coats                               | 148.5         | 152.1        | 155.3        | 134.6              | 138.1        | 141.0        |
| Men's and boys' furnishings and work clothing                 | 271.8         | 280.3        | 281.9        | 253.0              | 261.2        | 262.7        |
| Women's outerwear   | 283.8         | 299.9        | 339.8        | 249.7              | 265.7        | 305.1        |
| Women's, children's under garments                            | 99.1          | 105.5        | 107.8        | 89.1               | 94.9         | 97.2         |
| Millinery   | 17.6          | 20.5         | 25.4         | 15.1               | 17.9         | 22.8         |
| Children's outerwear  | 61.9          | 65.3         | 68.1         | 56.4               | 59.6         | 62.1         |
| Fur goods and miscellaneous apparel                           | 94.1          | 94.9         | 95.9         | 82.8               | 83.3         | 84.2         |
| Other fabricated textile products                             | 141.3         | 147.8        | 154.3        | 119.2              | 125.7        | 131.3        |
| <b>LUMBER AND WOOD PRODUCTS (EXCEPT FURNITURE)</b>            | <b>822</b>    | <b>803</b>   | <b>785</b>   | <b>757</b>         | <b>740</b>   | <b>722</b>   |
| Logging camps and contractors                                 | 70.9          | 62.0         | 56.1         | 67.0               | 58.2         | 52.1         |
| Sawmills and planing mills                                    | 483.3         | 470.9        | 457.1        | 449.5              | 439.8        | 426.0        |
| Millwork, plywood, and prefabricated structural wood products | 122.5         | 123.2        | 123.0        | 107.4              | 107.7        | 107.4        |
| Wooden containers   | 82.1          | 82.3         | 83.5         | 76.2               | 76.1         | 77.4         |
| Miscellaneous wood products                                   | 63.5          | 64.9         | 65.0         | 57.3               | 58.5         | 58.7         |
| <b>FURNITURE AND FIXTURES</b>                                 | <b>350</b>    | <b>367</b>   | <b>374</b>   | <b>303</b>         | <b>319</b>   | <b>326</b>   |
| Household furniture   | 241.5         | 257.5        | 265.0        | 213.0              | 227.9        | 236.1        |
| Other furniture and fixtures                                  | 108.9         | 109.7        | 109.1        | 89.9               | 90.6         | 90.0         |

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

TABLE 3: All Employees and Production Workers in Mining and Manufacturing Industries (Continued)

(In thousands)

| Industry group and industry                        | All employees |       |       | Production workers |       |       |
|--|---------------|-------|-------|--------------------|-------|-------|
|  | 1951          |       |       | 1951               |       |       |
|  | May           | April | March | May                | April | March |
| <b>PAPER AND ALLIED PRODUCTS</b>                   | 498           | 500   | 498   | 425                | 427   | 424   |
| Pulp, paper, and paperboard mills                  | 246.3         | 245.6 | 242.2 | 213.1              | 212.5 | 209.1 |
| Paperboard containers and boxes                    | 137.4         | 138.9 | 139.3 | 117.2              | 118.9 | 119.0 |
| Other paper and allied products                    | 114.3         | 115.5 | 116.0 | 94.2               | 95.3  | 95.6  |
| <b>PRINTING, PUBLISHING, AND ALLIED INDUSTRIES</b> | 757           | 757   | 760   | 509                | 509   | 512   |
| Newspapers   | 297.3         | 296.3 | 297.1 | 152.2              | 150.8 | 150.0 |
| Periodicals  | 52.4          | 52.7  | 52.8  | 34.5               | 35.4  | 35.6  |
| Books  | 49.0          | 49.1  | 49.3  | 35.7               | 36.0  | 36.3  |
| Commercial printing                                | 204.8         | 205.0 | 206.9 | 167.7              | 167.9 | 169.7 |
| Lithographing                                      | 40.9          | 41.1  | 41.1  | 31.8               | 32.0  | 32.2  |
| Other printing and publishing                      | 112.5         | 112.6 | 112.8 | 87.2               | 87.3  | 87.7  |
| <b>CHEMICALS AND ALLIED PRODUCTS</b>               | 742           | 748   | 748   | 530                | 537   | 539   |
| Industrial inorganic chemicals                     | 81.8          | 81.5  | 80.1  | 59.5               | 59.3  | 58.6  |
| Industrial organic chemicals                       | 225.1         | 224.0 | 221.7 | 169.5              | 168.2 | 166.7 |
| Drugs and medicines                                | 106.2         | 105.5 | 104.8 | 69.9               | 69.5  | 69.3  |
| Paints, pigments, and fillers                      | 76.5          | 75.7  | 76.0  | 49.8               | 49.7  | 49.6  |
| Fertilizers  | 36.3          | 40.0  | 42.4  | 29.5               | 33.4  | 35.6  |
| Vegetable and animal oils and fats                 | 48.9          | 51.6  | 53.4  | 37.3               | 40.1  | 42.1  |
| Other chemicals and allied products                | 166.7         | 169.8 | 169.3 | 114.8              | 116.6 | 116.8 |
| <b>PRODUCTS OF PETROLEUM AND COAL</b>              | 259           | 257   | 257   | 194                | 194   | 192   |
| Petroleum refining                                 | 206.9         | 205.3 | 204.7 | 150.8              | 150.3 | 149.0 |
| Coke and byproducts                                | 21.6          | 21.4  | 21.4  | 18.8               | 18.6  | 18.5  |
| Other petroleum and coal products                  | 30.4          | 30.6  | 30.5  | 24.4               | 24.7  | 24.5  |
| <b>RUBBER PRODUCTS</b>                             | 271           | 270   | 271   | 220                | 219   | 220   |
| Tires and inner tubes                              | 112.7         | 111.8 | 112.5 | 88.6               | 87.8  | 88.3  |
| Rubber footwear                                    | 30.8          | 30.3  | 30.6  | 25.4               | 24.8  | 25.0  |
| Other rubber products                              | 127.9         | 128.2 | 128.3 | 105.7              | 106.2 | 106.3 |
| <b>LEATHER AND LEATHER PRODUCTS</b>                | 370           | 393   | 410   | 331                | 354   | 371   |
| Leather  | 47.5          | 49.0  | 50.6  | 42.7               | 44.3  | 45.9  |
| Footwear (except rubber)                           | 232.9         | 247.6 | 259.6 | 210.5              | 225.1 | 237.0 |
| Other leather products                             | 89.4          | 96.0  | 99.3  | 77.6               | 84.1  | 87.6  |

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

TABLE 3: All Employees and Production Workers in Mining and Manufacturing Industries (Continued)

(In thousands)

| Industry group and industry   | All employees |              |              | Production workers |              |              |
|---|---------------|--------------|--------------|--------------------|--------------|--------------|
|   | 1951          |              |              | 1951               |              |              |
|   | May           | April        | March        | May                | April        | March        |
| <b>STONE, CLAY, AND GLASS PRODUCTS</b>  | <b>559</b>    | <b>559</b>   | <b>554</b>   | <b>484</b>         | <b>483</b>   | <b>479</b>   |
| Glass and glass products  | 147.9         | 148.5        | 146.9        | 130.9              | 131.9        | 130.1        |
| Cement, hydraulic   | 42.6          | 42.3         | 42.3         | 36.5               | 36.3         | 36.2         |
| Structural clay products  | 91.2          | 90.4         | 88.5         | 83.2               | 81.8         | 80.3         |
| Pottery and related products  | 60.4          | 61.0         | 61.1         | 54.6               | 55.2         | 55.3         |
| Concrete, gypsum, and plaster products  | 100.8         | 100.6        | 99.3         | 85.4               | 85.1         | 84.3         |
| Other stone, clay, and glass products   | 116.4         | 116.1        | 116.0        | 93.0               | 92.9         | 92.9         |
| <b>PRIMARY METAL INDUSTRIES</b>   | <b>1,343</b>  | <b>1,343</b> | <b>1,341</b> | <b>1,159</b>       | <b>1,160</b> | <b>1,159</b> |
| Blast furnaces, steel works, and rolling mills  | 646.3         | 643.5        | 643.4        | 564.0              | 561.1        | 561.1        |
| Iron and steel foundries  | 283.1         | 282.1        | 279.9        | 251.9              | 251.1        | 249.4        |
| Primary smelting and refining of nonferrous metals  | 55.3          | 56.3         | 56.6         | 46.4               | 47.2         | 47.4         |
| Rolling, drawing, and alloying of nonferrous metals   | 99.2          | 102.9        | 104.0        | 81.3               | 84.9         | 85.9         |
| Nonferrous foundries  | 110.8         | 110.8        | 110.7        | 92.9               | 93.2         | 93.4         |
| Other primary metal industries  | 147.6         | 147.1        | 146.0        | 122.9              | 122.4        | 122.0        |
| <b>FABRICATED METAL PRODUCTS (EXCEPT ORDNANCE, MACHINERY, AND TRANSPORTATION EQUIPMENT)</b> | <b>1,025</b>  | <b>1,034</b> | <b>1,031</b> | <b>850</b>         | <b>858</b>   | <b>858</b>   |
| Tin cans and other tinware  | 49.1          | 49.4         | 48.9         | 42.9               | 43.1         | 42.7         |
| Cutlery, hand tools, and hardware   | 163.8         | 165.8        | 167.1        | 138.3              | 140.2        | 141.7        |
| Heating apparatus (except electric) and plumbers' supplies                                  | 158.4         | 161.1        | 162.7        | 130.0              | 132.7        | 133.9        |
| Fabricated structural metal products  | 230.0         | 228.5        | 225.9        | 178.9              | 177.8        | 176.4        |
| Metal stamping, coating, and engraving  | 188.6         | 193.2        | 192.3        | 162.0              | 166.6        | 166.1        |
| Other fabricated metal products   | 235.0         | 235.7        | 234.5        | 197.4              | 198.0        | 197.0        |
| <b>MACHINERY (EXCEPT ELECTRICAL)</b>  | <b>1,598</b>  | <b>1,588</b> | <b>1,579</b> | <b>1,243</b>       | <b>1,237</b> | <b>1,231</b> |
| Engines and turbines  | 89.4          | 88.3         | 85.7         | 67.4               | 66.6         | 65.7         |
| Agricultural machinery and tractors   | 193.3         | 193.2        | 192.1        | 151.5              | 151.6        | 151.0        |
| Construction and mining machinery   | 119.1         | 117.6        | 117.0        | 88.8               | 87.7         | 87.3         |
| Metalworking machinery  | 288.8         | 285.8        | 282.6        | 228.7              | 226.7        | 222.9        |
| Special-industry machinery (except metalworking machinery)                                  | 196.7         | 196.2        | 194.8        | 149.7              | 149.9        | 149.0        |
| General industrial machinery  | 226.9         | 226.1        | 224.1        | 165.6              | 164.6        | 162.7        |
| Office and store machines and devices   | 104.7         | 103.4        | 102.3        | 88.1               | 86.7         | 86.0         |
| Service-industry and household machines   | 178.0         | 178.4        | 184.1        | 142.0              | 142.6        | 148.4        |
| Miscellaneous machinery parts   | 201.2         | 199.1        | 195.9        | 161.3              | 160.1        | 157.7        |

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

TABLE 3: All Employees and Production Workers in Mining and Manufacturing Industries (Continued)

(In thousands)

| Industry group and industry   | All employees |       |       | Production workers |       |       |
|---|---------------|-------|-------|--------------------|-------|-------|
|   | 1951          |       |       | 1951               |       |       |
|   | May           | April | March | May                | April | March |
| <b>ELECTRICAL MACHINERY</b>   | 928           | 937   | 944   | 708                | 717   | 724   |
| Electrical generating, transmission, distribution, and industrial apparatus | 367.9         | 362.3 | 359.0 | 270.8              | 266.6 | 262.1 |
| Electrical equipment for vehicles   | 81.8          | 80.7  | 79.4  | 67.1               | 66.0  | 64.6  |
| Communication equipment   | 327.7         | 342.0 | 353.4 | 247.7              | 260.6 | 273.2 |
| Electrical appliances, lamps, and miscellaneous products                    | 150.3         | 151.7 | 152.3 | 121.9              | 123.4 | 123.9 |
| <b>TRANSPORTATION EQUIPMENT</b>   | 1,512         | 1,514 | 1,527 | 1,236              | 1,240 | 1,253 |
| Automobiles   | 894.6         | 909.8 | 935.6 | 759.5              | 772.4 | 793.4 |
| Aircraft and parts  | 426.3         | 414.1 | 400.0 | 316.5              | 308.4 | 298.9 |
| Aircraft  | 286.9         | 279.7 | 271.4 | 214.6              | 210.3 | 204.1 |
| Aircraft engines and parts  | 84.3          | 81.2  | 77.2  | 59.3               | 57.1  | 55.1  |
| Aircraft propellers and parts   | 10.4          | 10.2  | 9.5   | 7.4                | 7.4   | 6.7   |
| Other aircraft parts and equipment  | 44.7          | 43.0  | 41.9  | 35.2               | 33.6  | 33.0  |
| Ship and boat building and repairing  | 108.8         | 108.3 | 109.5 | 94.5               | 93.9  | 95.6  |
| Ship building and repairing   | 94.2          | 93.7  | 95.0  | 81.4               | 80.9  | 82.7  |
| Boat building and repairing   | 14.6          | 14.6  | 14.5  | 13.1               | 13.0  | 12.9  |
| Railroad equipment  | 71.6          | 69.7  | 68.6  | 56.6               | 55.2  | 54.1  |
| Other transportation equipment  | 11.1          | 11.9  | 13.2  | 9.3                | 10.0  | 11.3  |
| <b>INSTRUMENTS AND RELATED PRODUCTS</b>                                     | 296           | 294   | 290   | 222                | 221   | 218   |
| Ophthalmic goods  | 28.1          | 28.0  | 27.8  | 23.0               | 23.1  | 22.9  |
| Photographic apparatus  | 58.4          | 58.2  | 57.8  | 42.8               | 42.7  | 42.5  |
| Watches and clocks  | 33.9          | 34.5  | 34.2  | 28.4               | 29.2  | 28.9  |
| Professional and scientific instruments                                     | 175.3         | 173.3 | 170.0 | 127.3              | 125.5 | 123.4 |
| <b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>                               | 486           | 500   | 506   | 410                | 423   | 429   |
| Jewelry, silverware, and plated ware  | 52.8          | 55.1  | 56.8  | 43.4               | 45.6  | 47.2  |
| Toys and sporting goods   | 76.7          | 78.3  | 78.0  | 67.1               | 68.9  | 68.9  |
| Costume jewelry, buttons, notions   | 55.6          | 60.7  | 64.5  | 47.1               | 52.0  | 55.1  |
| Other miscellaneous manufacturing industries                                | 301.2         | 305.7 | 306.6 | 252.1              | 256.1 | 258.0 |

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

TABLE 4: Indexes of Production Worker Employment and Weekly Payrolls in  
Manufacturing Industries

(1939 Average = 100)

| Period                 | Production-worker<br>employment index | Production-worker<br>pay-roll index |
|------------------------|---------------------------------------|-------------------------------------|
| <u>Annual average:</u> |                                       |                                     |
| 1939                   | 100.0                                 | 100.0                               |
| 1940                   | 107.5                                 | 113.6                               |
| 1941                   | 132.8                                 | 164.9                               |
| 1942                   | 156.9                                 | 241.5                               |
| 1943                   | 183.3                                 | 331.1                               |
| 1944                   | 178.3                                 | 343.7                               |
| 1945                   | 157.0                                 | 293.5                               |
| 1946                   | 147.8                                 | 271.7                               |
| 1947                   | 156.2                                 | 326.9                               |
| 1948                   | 155.2                                 | 351.4                               |
| 1949                   | 141.6                                 | 325.3                               |
| 1950                   | 149.7                                 | 371.7                               |
| <u>1950</u>            |                                       |                                     |
| March                  | 141.0                                 | 333.5                               |
| April                  | 141.6                                 | 337.2                               |
| May                    | 144.5                                 | 348.0                               |
| June                   | 147.3                                 | 362.7                               |
| July                   | 148.3                                 | 367.5                               |
| August                 | 156.3                                 | 394.4                               |
| September              | 158.9                                 | 403.2                               |
| October                | 160.3                                 | 415.8                               |
| November               | 159.2                                 | 414.6                               |
| December               | 159.4                                 | 426.0                               |
| <u>1951</u>            |                                       |                                     |
| January                | 158.9                                 | 424.0                               |
| February               | 161.0                                 | 430.0                               |
| March                  | 161.0                                 | 435.0                               |
| April                  | 159.8                                 | 432.9                               |
| May                    | 158.6                                 | 428.3                               |

See explanatory notes, section D, and the glossary for definitions.



TABLE 5: Employees in the Shipbuilding and Repairing Industry, by Region 1/

(In thousands)

| Region                                    | 1951  |       |       | 1950  |       |
|---|-------|-------|-------|-------|-------|
|   | May   | April | March | May   | April |
| ALL REGIONS                               | 216.9 | 214.7 | 210.7 | 132.4 | 133.9 |
| PRIVATE                                   | 94.2  | 93.7  | 95.0  | 66.2  | 66.7  |
| NAVY                                      | 122.7 | 121.0 | 115.7 | 66.2  | 67.2  |
| NORTH ATLANTIC                            | 99.9  | 97.6  | 94.7  | 65.8  | 65.5  |
| Private                                   | 44.6  | 43.2  | 43.5  | 35.7  | 35.5  |
| Navy (includes Curtis<br>Bay Coast Guard) | 55.3  | 54.4  | 51.2  | 30.1  | 30.0  |
| SOUTH ATLANTIC                            | 37.2  | 37.5  | 36.6  | 22.8  | 22.2  |
| Private                                   | 14.1  | 14.6  | 14.2  | 8.5   | 8.4   |
| Navy                                      | 23.1  | 22.9  | 22.4  | 14.3  | 13.8  |
| GULF:                                     |       |       |       |       |       |
| Private                                   | 16.6  | 17.5  | 16.6  | 8.9   | 9.0   |
| PACIFIC                                   | 53.4  | 52.0  | 51.8  | 28.4  | 29.8  |
| Private                                   | 9.1   | 8.3   | 9.7   | 6.6   | 6.4   |
| Navy                                      | 44.3  | 43.7  | 42.1  | 21.8  | 23.4  |
| GREAT LAKES:                              |       |       |       |       |       |
| Private                                   | 5.4   | 5.7   | 6.8   | 2.4   | 3.4   |
| INLAND:                                   |       |       |       |       |       |
| Private                                   | 4.4   | 4.4   | 4.2   | 4.1   | 4.0   |

1/ The North Atlantic region includes all yards bordering on the Atlantic in the following states: Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

The South Atlantic region includes all yards bordering on the Atlantic in the following states: Georgia, Virginia, North Carolina, and South Carolina.

The Gulf region includes all yards bordering on the Gulf of Mexico in the following states: Alabama, Florida, Louisiana, Mississippi, and Texas.

The Pacific region includes all yards in California, Oregon, and Washington.

The Great Lakes region includes all yards bordering on the Great Lakes in the following states: Illinois, Michigan, Minnesota, New York, Ohio, Pennsylvania, and Wisconsin.

The Inland region includes all other yards.

TABLE 6: 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<br>(total for month) |           |           |
|----------------------------------|--------------------------------------|---------|---------|--------------------------------|-----------|-----------|
|                                  | 1951                                 |         |         | 1951                           |           |           |
|                                  | May                                  | April   | March   | May                            | April     | March     |
| <u>All Areas</u>                 |                                      |         |         |                                |           |           |
| TOTAL FEDERAL                    | 2,432.6                              | 2,385.5 | 2,332.3 | \$749,607                      | \$687,876 | \$706,184 |
| Executive                        | 2,420.5                              | 2,373.5 | 2,320.2 | 744,506                        | 683,273   | 701,569   |
| Defense agencies                 | 1,212.1                              | 1,180.0 | 1,133.4 | 377,690                        | 337,876   | 345,685   |
| Post Office Department 2/        | 492.1                                | 488.4   | 489.0   | 129,611                        | 129,796   | 133,342   |
| Other agencies                   | 716.3                                | 705.1   | 697.8   | 237,205                        | 215,601   | 222,542   |
| Legislative                      | 8.2                                  | 8.1     | 8.2     | 3,338                          | 3,197     | 3,261     |
| Judicial                         | 3.9                                  | 3.9     | 3.9     | 1,763                          | 1,406     | 1,354     |
| <u>Continental United States</u> |                                      |         |         |                                |           |           |
| TOTAL FEDERAL                    | 2,263.9                              | 2,219.9 | 2,169.3 | 705,217                        | 643,017   | 664,389   |
| Executive                        | 2,251.9                              | 2,208.0 | 2,157.3 | 700,161                        | 643,454   | 659,812   |
| Defense agencies                 | 1,089.8                              | 1,059.7 | 1,015.5 | 347,360                        | 310,605   | 317,140   |
| Post Office Department 2/        | 490.3                                | 486.6   | 487.1   | 129,117                        | 129,310   | 132,847   |
| Other agencies                   | 671.8                                | 661.7   | 654.7   | 223,684                        | 203,539   | 209,825   |
| Legislative                      | 8.2                                  | 8.1     | 8.2     | 3,338                          | 3,197     | 3,261     |
| Judicial                         | 3.8                                  | 3.8     | 3.8     | 1,718                          | 1,366     | 1,316     |
| <u>Washington, D. C.</u>         |                                      |         |         |                                |           |           |
| TOTAL GOVERNMENT                 | 271.3                                | 268.5   | 264.6   | 100,621                        | 91,887    | 93,837    |
| D. C. government                 | 20.0                                 | 20.3    | 20.3    | 5,964                          | 5,618     | 5,578     |
| Federal                          | 251.3                                | 248.2   | 244.3   | 94,657                         | 86,269    | 88,259    |
| Executive                        | 242.4                                | 239.4   | 235.4   | 91,003                         | 82,781    | 84,709    |
| Defense agencies                 | 83.6                                 | 82.2    | 80.2    | 31,747                         | 28,739    | 29,403    |
| Post Office Department           | 7.8                                  | 7.8     | 7.7     | 2,899                          | 2,855     | 2,949     |
| Other agencies                   | 151.0                                | 149.4   | 147.5   | 56,357                         | 51,187    | 52,357    |
| Legislative                      | 8.2                                  | 8.1     | 8.2     | 3,338                          | 3,197     | 3,261     |
| Judicial                         | .7                                   | .7      | .7      | 316                            | 291       | 289       |

See the glossary for definitions.

1/ Data for Central Intelligence Agency are excluded.

2/ Includes 4th class postmasters, excluded from Table 2.

TABLE 4: Employees in Nonagricultural Establishments by Industry Division,  
by State  
(In thousands)

| State                | Total   |         |         | Mining |       |       | Contract Construction |       |       |
|----------------------|---------|---------|---------|--------|-------|-------|-----------------------|-------|-------|
|                      | 1951    |         | 1950    | 1951   |       | 1950  | 1951                  |       | 1950  |
|                      | May     | Apr.    | May     | May    | Apr.  | May   | May                   | Apr.  | May   |
| Alabama              | 624.6   | 622.2   | 595.2   | 22.3   | 23.3  | 26.9  | 29.2                  | 28.8  | 26.6  |
| Arizona              | 178.5   | 179.0   | 158.4   | 12.2   | 12.2  | 11.5  | 14.3                  | 15.1  | 11.6  |
| Arkansas             | 307.5   | 306.5   | 291.1   | 6.6    | 5.6   | 5.8   | 25.5                  | 24.0  | 13.1  |
| California           | 3,396.0 | 3,367.3 | 3,123.0 | 34.8   | 34.5  | 33.0  | 230.7                 | 228.0 | 211.5 |
| Colorado             | 372.4   | 367.7   | 329.9   | 9.4    | 9.8   | 8.7   | 32.6                  | 32.1  | 17.7  |
| Connecticut 1/       | 818.2   | 814.8   | 751.4   | 2/     | 2/    | 2/    | 42.1                  | 40.8  | 37.7  |
| Delaware             |         |         |         |        |       |       |                       |       |       |
| District of Columbia | 515.5   | 515.2   | 480.1   | 3/     | 3/    | 3/    | 24.1                  | 25.2  | 24.5  |
| Florida              | 691.0   | 703.1   | 650.8   | 6.4    | 6.5   | 5.0   | 64.7                  | 61.5  | 56.1  |
| Georgia              | 629.8   | 826.4   | 770.7   | 4.5    | 4.5   | 4.0   | 52.6                  | 50.4  | 38.9  |
| Idaho                | 136.3   | 132.9   | 125.1   | 5.4    | 5.6   | 5.4   | 14.6                  | 13.4  | 10.3  |
| Illinois 1/          | 3,221.0 | 3,207.8 | 3,074.2 | 45.0   | 44.8  | 46.0  | 155.6                 | 147.0 | 135.3 |
| Indiana              | 1,291.2 | 1,281.2 | 1,205.9 | 13.9   | 12.2  | 14.1  | 59.5                  | 53.6  | 49.3  |
| Iowa                 | 612.1   | 606.3   | 550.2   | 2.2    | 2.5   | 2.7   | 34.0                  | 28.5  | 29.9  |
| Kansas               | 490.8   | 486.8   | 454.6   | 17.2   | 17.0  | 15.7  | 34.5                  | 34.1  | 30.5  |
| Kentucky 1/          |         |         |         | 57.5   | 58.2  | 61.7  |                       |       |       |
| Louisiana 1/         |         |         |         | 25.8   | 25.6  | 26.0  |                       |       |       |
| Maine                | 260.4   | 254.1   | 246.7   | .7     | .6    | .6    | 8.7                   | 7.7   | 8.5   |
| Maryland             | 732.9   | 725.9   | 679.1   | 2.4    | 2.5   | 2.3   | 58.0                  | 55.8  | 52.0  |
| Massachusetts        | 1,001.3 | 1,794.6 | 1,711.8 | 3/     | 3/    | 3/    | 68.0                  | 62.9  | 75.3  |
| Michigan             |         |         |         |        |       |       |                       |       |       |
| Minnesota            | 615.9   | 601.8   | 774.3   | 18.3   | 16.5  | 15.7  | 42.3                  | 39.3  | 36.5  |
| Mississippi          |         |         |         |        |       |       |                       |       |       |
| Missouri             | 1,200.7 | 1,188.8 | 1,137.3 | 8.9    | 8.7   | 8.3   | 55.8                  | 50.2  | 47.6  |
| Montana              | 151.5   | 148.5   | 147.3   | 10.2   | 10.6  | 10.2  | 12.7                  | 11.4  | 11.1  |
| Nebraska             | 324.8   | 320.8   | 309.2   | 3/     | 3/    | 3/    | 16.7                  | 15.3  | 18.1  |
| Nevada               | 56.3    | 55.9    | 53.2    | 3.4    | 3.3   | 2.8   | 4.1                   | 4.3   | 4.6   |
| New Hampshire        | 165.9   | 168.5   | 163.4   | .3     | .3    | .3    | 7.0                   | 6.5   | 8.0   |
| New Jersey           | 1,680.1 | 1,682.1 | 1,573.2 | 3.9    | 3.8   | 3.7   | 89.4                  | 86.0  | 74.8  |
| New Mexico           | 154.9   | 155.1   | 145.3   | 12.4   | 12.2  | 11.2  | 16.4                  | 17.0  | 15.8  |
| New York             | 5,698.1 | 5,697.6 | 5,481.0 | 11.2   | 11.0  | 10.5  | 239.5                 | 231.1 | 219.9 |
| North Carolina       | 917.9   | 911.3   | 871.5   | 3.6    | 3.5   | 3.4   | 59.4                  | 57.4  | 44.2  |
| North Dakota         | 114.6   | 110.9   | 109.2   | .9     | .9    | .7    | 9.4                   | 6.5   | 7.0   |
| Ohio                 |         |         |         |        |       |       |                       |       |       |
| Oklahoma             | 494.1   | 491.8   | 460.0   | 44.1   | 44.2  | 42.2  | 34.4                  | 34.6  | 30.4  |
| Oregon               | 453.0   | 445.3   | 430.5   | 1.7    | 1.6   | 1.4   | 26.8                  | 26.4  | 25.5  |
| Pennsylvania         | 3,716.4 | 3,710.5 | 3,469.0 | 175.0  | 179.4 | 192.6 | 166.4                 | 157.1 | 150.2 |
| Rhode Island         | 301.1   | 305.3   | 280.3   | 3/     | 3/    | 3/    | 16.3                  | 15.6  | 13.3  |
| South Carolina       | 470.4   | 465.8   | 439.7   | 1.1    | 1.1   | 1.1   | 30.5                  | 28.3  | 23.4  |
| South Dakota         | 11.2    | 113.9   | 117.3   | 2.1    | 2.1   | 2.5   | 6.5                   | 4.7   | 7.6   |
| Tennessee            | 752.1   | 751.1   | 717.4   | 12.5   | 12.7  | 13.3  | 44.8                  | 43.8  | 45.1  |
| Texas                | 1,993.0 | 1,984.2 | 1,856.6 | 111.1  | 110.5 | 102.3 | 158.7                 | 158.5 | 129.3 |
| Utah                 | 202.0   | 199.0   | 181.6   | 12.6   | 12.5  | 12.3  | 13.0                  | 13.0  | 11.4  |
| Vermont              | 99.8    | 99.4    | 94.9    | 1.2    | 1.1   | 1.1   | 3.8                   | 3.1   | 3.8   |
| Virginia             | 829.3   | 619.3   | 758.1   | 22.5   | 22.7  | 24.0  | 60.3                  | 57.2  | 50.9  |
| Washington           | 717.9   | 709.0   | 661.8   | 2.9    | 3.0   | 3.1   | 44.7                  | 43.5  | 44.7  |
| West Virginia        | 535.0   | 527.6   | 513.5   | 125.1  | 122.7 | 128.1 | 19.5                  | 17.7  | 19.6  |
| Wisconsin            | 1,043.7 | 1,038.6 | 986.3   | 3.8    | 3.5   | 3.3   | 44.8                  | 42.1  | 39.4  |
| Wyoming              | 81.3    | 79.1    | 80.0    | 8.9    | 8.5   | 8.9   | 5.9                   | 5.6   | 7.4   |

See footnotes at end of table and explanatory notes, sections G and H.

TABLE 7: Employees in Nonagricultural Establishments by Industry Division,  
by State  
(In thousands)

| State                | Manufacturing |         |         | Trans. & Public Util. |       |       | Trade   |         |         |
|----------------------|---------------|---------|---------|-----------------------|-------|-------|---------|---------|---------|
|                      | 1951          |         | 1950    | 1951                  |       | 1950  | 1951    |         | 1950    |
|                      | May           | Apr.    | May     | May                   | Apr.  | May   | May     | Apr.    | May     |
| Alabama              | 216.1         | 217.4   | 207.2   | 52.3                  | 51.7  | 49.3  | 121.9   | 120.7   | 117.6   |
| Arizona              | 18.0          | 17.7    | 14.6    | 23.0                  | 23.1  | 20.9  | 44.5    | 44.5    | 40.7    |
| Arkansas             | 70.5          | 77.7    | 73.2    | 31.8                  | 32.0  | 30.3  | 70.9    | 70.2    | 70.3    |
| California           | 642.1         | 840.8   | 715.2   | 311.3                 | 311.0 | 298.6 | 790.7   | 784.1   | 773.0   |
| Colorado             | 0.9           | 60.6    | 53.2    | 43.3                  | 3.0   | 40.9  | 94.5    | 93.5    | 89.0    |
| Connecticut          | 418.0         | 418.7   | 364.3   | 41.9                  | 41.6  | 41.0  | 133.7   | 132.5   | 128.6   |
| Delaware             | 50.1          | 49.3    | 44.6    |                       |       |       |         |         |         |
| District of Columbia | 15.7          | 16.8    | 15.3    | 29.4                  | 30.3  | 28.9  | 91.0    | 90.9    | 90.1    |
| Florida              | 100.8         | 102.7   | 92.7    | 66.6                  | 7.2   | 64.9  | 204.4   | 209.8   | 194.2   |
| Georgia              | 296.5         | 290.9   | 275.2   | 70.2                  | 70.7  | 64.9  | 178.7   | 179.3   | 172.1   |
| Idaho                | 23.0          | 21.2    | 20.0    | 17.2                  | 17.1  | 15.7  | 33.8    | 33.9    | 32.3    |
| Illinois             | 1,219.3       | 1,219.0 | 1,134.5 | 299.1                 | 298.9 | 289.8 | 682.7   | 680.0   | 665.9   |
| Indiana              | 597.7         | 600.2   | 557.1   | 112.5                 | 112.9 | 101.8 | 240.1   | 238.8   | 231.0   |
| Iowa                 | 159.4         | 160.0   | 148.8   | 63.1                  | 62.9  | 61.0  | 166.5   | 157.4   | 152.3   |
| Kansas               | 110.0         | 108.6   | 89.1    | 64.1                  | 63.8  | 60.4  | 118.0   | 117.5   | 116.6   |
| Kentucky             | 144.7         | 146.1   | 132.4   | 59.5                  | 60.0  | 57.2  | 114.7   | 114.7   | 110.0   |
| Louisiana            | 138.9         | 137.7   | 133.7   | 70.8                  | 60.1  | 75.2  | 145.0   | 145.7   | 144.0   |
| Maine                | 109.5         | 107.4   | 100.9   | 18.5                  | 18.2  | 18.7  | 49.4    | 49.0    | 48.0    |
| Maryland             | 249.0         | 245.6   | 217.3   | 72.2                  | 71.7  | 61.8  | 143.0   | 143.7   | 142.7   |
| Massachusetts        | 730.5         | 747.8   | 75.4    | 128.6                 | 128.2 | 124.2 | 365.4   | 362.5   | 359.6   |
| Michigan             | 1,149.4       | 1,159.7 | 1,069.2 |                       |       |       |         |         |         |
| Minnesota            | 202.5         | 203.3   | 187.2   | 97.2                  | 89.2  | 87.0  | 208.7   | 208.0   | 205.3   |
| Mississippi          | 89.7          | 89.7    | 80.9    | 25.5                  | 25.0  | 25.2  |         |         |         |
| Missouri             | 314.8         | 367.2   | 339.3   | 128.4                 | 128.1 | 126.3 | 302.4   | 299.7   | 294.4   |
| Montana              | 15.9          | 1.7     | 17.7    | 23.3                  | 22.5  | 21.8  | 37.0    | 35.5    | 35.1    |
| Nebraska             | 53.1          | 52.5    | 47.8    | 43.1                  | 42.5  | 40.2  | 92.3    | 91.8    | 88.9    |
| Nevada               | 3.4           | 3.4     | 3.2     | 8.6                   | 8.6   | 8.2   | 11.4    | 11.4    | 10.8    |
| New Hampshire        | 79.0          | 62.3    | 74.5    | 10.7                  | 10.6  | 10.4  | 28.5    | 28.2    | 28.5    |
| New Jersey           | 765.0         | 774.5   | 697.3   | 139.2                 | 139.8 | 134.3 | 273.3   | 271.6   | 269.3   |
| New Mexico           | 13.3          | 13.1    | 11.5    | 10.5                  | 10.3  | 15.1  | 35.1    | 35.1    | 33.5    |
| New York             | 1,370.0       | 1,905.1 | 1,744.4 | 487.2                 | 486.3 | 432.2 | 1,234.8 | 1,230.7 | 1,220.6 |
| North Carolina       | 412.8         | 410.1   | 397.9   | 60.1                  | 6.5   | 53.5  | 105.7   | 105.1   | 132.7   |
| North Dakota         | 5.9           | 5.8     | 5.6     | 14.0                  | 14.2  | 13.0  | 35.8    | 3.8     | 36.0    |
| Ohio                 | 1,283.7       | 1,287.8 | 1,151.3 |                       |       |       |         |         |         |
| Oklahoma             | 72.2          | 71.7    | 65.2    | 49.1                  | 49.0  | 46.6  | 121.8   | 121.2   | 121.3   |
| Oregon               | 145.7         | 141.2   | 135.4   | 48.1                  | 48.2  | 45.3  | 102.0   | 101.0   | 98.6    |
| Pennsylvania         | 1,500.9       | 1,519.4 | 1,361.6 | 353.0                 | 350.8 | 294.7 | 675.1   | 672.4   | 662.6   |
| Rhode Island         | 149.9         | 154.5   | 130.6   | 15.2                  | 15.1  | 15.5  | 53.1    | 53.3    | 50.7    |
| South Carolina       | 214.5         | 213.0   | 203.2   | 20.9                  | 27.4  | 25.3  | 60.1    | 64.7    | 62.1    |
| South Dakota         | 11.1          | 11.0    | 10.9    | 11.5                  | 11.4  | 11.1  | 34.4    | 34.1    | 36.9    |
| Tennessee            | 259.0         | 259.6   | 236.9   | 60.1                  | 60.3  | 57.3  | 133.5   | 133.3   | 159.5   |
| Texas                | 303.9         | 366.1   | 340.8   | 214.6                 | 214.8 | 212.0 | 515.5   | 511.1   | 496.4   |
| Utah                 | 29.2          | 28.8    | 25.1    | 21.8                  | 21.8  | 20.3  | 44.3    | 43.4    | 43.2    |
| Vermont              | 39.2          | 40.0    | 34.8    | 9.0                   | 8.9   | 8.9   | 17.6    | 17.4    | 17.9    |
| Virginia             | 234.4         | 231.8   | 215.5   | 80.0                  | 80.4  | 78.0  | 173.1   | 172.1   | 164.5   |
| Washington           | 190.4         | 162.2   | 171.4   | 69.8                  | 60.7  | 62.5  | 159.5   | 158.3   | 152.6   |
| West Virginia        | 142.6         | 141.2   | 125.7   | 54.3                  | 53.8  | 50.2  | 85.8    | 85.2    | 84.2    |
| Wisconsin            | 452.7         | 453.9   | 411.0   | 77.1                  | 75.5  | 74.4  | 209.6   | 207.4   | 206.7   |
| Wyoming              | 0.0           | 5.9     | 5.4     | 15.9                  | 15.8  | 14.4  | 17.0    | 15.7    | 15.9    |

See footnotes at end of table and explanatory notes, sections G and H.

TABLE 7: Employees in Nonagricultural Establishments by Industry Division,  
by State  
(In thousands)

| State                | Finance |       |       | Service |       |       | Government |       |       |
|----------------------|---------|-------|-------|---------|-------|-------|------------|-------|-------|
|                      | 1951    |       | 1950  | 1951    |       | 1950  | 1951       |       | 1950  |
|                      | May     | Apr.  | May   | May     | Apr.  | May   | May        | Apr.  | May   |
| Alabama              | 17.7    | 17.8  | 17.0  | 53.5    | 53.0  | 53.2  | 111.5      | 109.5 | 97.4  |
| Arizona              | 5.7     | 5.7   | 5.2   | 24.5    | 24.7  | 19.5  | 35.4       | 35.0  | 34.4  |
| Arkansas             | 7.9     | 7.9   | 7.7   | 35.2    | 35.1  | 34.9  | 53.2       | 53.0  | 50.1  |
| California           | 152.3   | 152.2 | 142.5 | 442.8   | 437.9 | 432.2 | 591.3      | 578.8 | 515.9 |
| Colorado             | 14.5    | 14.2  | 14.0  | 45.5    | 44.2  | 43.9  | 71.5       | 70.3  | 62.5  |
| Connecticut          | 37.0    | 36.8  | 35.6  | 79.4    | 78.6  | 75.9  | 66.1       | 65.8  | 66.4  |
| Delaware             |         |       |       |         |       |       | 15.2       | 10.1  | 10.0  |
| District of Columbia | 23.5    | 23.3  | 22.2  | 59.5    | 55.9  | 56.2  | 271.3      | 259.8 | 235.9 |
| Florida              | 30.6    | 30.4  | 29.4  | 97.3    | 105.9 | 92.9  | 120.2      | 119.1 | 114.6 |
| Georgia              | 24.7    | 24.4  | 24.8  | 75.4    | 75.5  | 74.6  | 133.2      | 130.7 | 115.2 |
| Idaho                | 3.8     | 3.0   | 3.5   | 14.3    | 14.1  | 14.3  | 24.2       | 23.0  | 23.6  |
| Illinois             | 145.9   | 145.9 | 146.5 | 341.8   | 338.2 | 335.8 | 339.4      | 334.2 | 320.6 |
| Indiana              | 35.1    | 34.8  | 33.5  | 91.2    | 90.4  | 90.5  | 141.2      | 138.3 | 129.3 |
| Iowa                 | 23.6    | 23.7  | 22.9  | 57.9    | 66.2  | 57.5  | 95.4       | 95.3  | 95.2  |
| Kansas               | 17.3    | 17.0  | 15.6  | 47.7    | 47.6  | 47.5  | 82.0       | 81.1  | 70.0  |
| Kentucky             | 15.2    | 15.1  | 14.7  | 57.6    | 57.0  | 57.3  | 55.2       | 55.5  | 79.0  |
| Louisiana            | 19.6    | 19.7  | 19.3  | 59.3    | 58.9  | 56.8  | 94.5       | 94.1  | 91.6  |
| Maine                | 6.8     | 6.7   | 6.7   | 24.0    | 23.4  | 24.5  | 42.8       | 41.1  | 36.8  |
| Maryland             | 30.4    | 30.1  | 30.0  | 75.5    | 75.5  | 75.2  | 101.4      | 100.9 | 92.8  |
| Massachusetts        | 60.7    | 60.5  | 75.6  | 195.6   | 193.2 | 193.7 | 225.2      | 219.4 | 207.0 |
| Michigan             |         |       |       |         |       |       | 231.2      | 227.8 | 221.4 |
| Minnesota            | 35.8    | 35.5  | 35.5  | 97.6    | 97.1  | 95.8  | 112.5      | 112.1 | 111.3 |
| Mississippi          | 7.9     | 7.9   | 7.7   |         |       |       | 33.3       | 63.9  | 53.2  |
| Missouri             | 54.3    | 53.5  | 51.5  | 139.3   | 137.0 | 135.5 | 144.8      | 144.3 | 139.1 |
| Montana              | 4.1     | 4.1   | 3.9   | 19.5    | 19.0  | 18.9  | 27.8       | 27.7  | 27.6  |
| Nebraska             | 15.8    | 15.7  | 15.1  | 39.7    | 39.2  | 39.0  | 53.1       | 52.7  | 59.0  |
| Nevada               | 1.2     | 1.2   | 1.2   | 12.0    | 11.5  | 11.9  | 12.2       | 12.1  | 10.5  |
| New Hampshire        | 4.5     | 4.5   | 4.4   | 15.9    | 15.4  | 17.7  | 20.1       | 19.8  | 19.7  |
| New Jersey           | 59.3    | 58.9  | 57.5  | 157.9   | 165.9 | 160.6 | 122.0      | 121.5 | 159.6 |
| New Mexico           | 4.3     | 4.4   | 4.4   | 23.1    | 23.3  | 21.9  | 33.8       | 33.7  | 31.9  |
| New York             | 390.0   | 390.3 | 387.5 | 770.9   | 770.9 | 755.8 | 694.6      | 682.3 | 660.3 |
| North Carolina       | 22.2    | 22.2  | 21.5  | 65.1    | 65.2  | 65.3  | 108.0      | 107.3 | 103.0 |
| North Dakota         | 4.1     | 4.1   | 3.9   | 13.3    | 13.3  | 13.0  | 29.5       | 29.3  | 29.4  |
| Ohio                 |         |       |       |         |       |       | 311.5      | 307.2 | 291.0 |
| Oklahoma             | 18.1    | 18.0  | 17.7  | 50.3    | 49.5  | 50.8  | 104.1      | 103.5 | 91.8  |
| Oregon               | 14.5    | 14.5  | 14.5  | 50.4    | 49.1  | 47.7  | 63.8       | 63.3  | 62.1  |
| Pennsylvania         | 119.1   | 117.9 | 116.0 | 358.9   | 351.3 | 353.9 | 370.0      | 362.3 | 337.5 |
| Rhode Island         | 10.4    | 10.4  | 10.2  | 23.3    | 23.9  | 23.9  | 32.9       | 32.5  | 30.1  |
| South Carolina       | 8.5     | 8.5   | 8.3   | 35.1    | 35.8  | 35.8  | 57.7       | 65.4  | 50.5  |
| South Dakota         | 4.2     | 4.2   | 4.0   | 14.5    | 14.3  | 13.7  | 32.0       | 31.7  | 30.9  |
| Tennessee            | 23.9    | 23.8  | 22.7  | 77.3    | 75.6  | 77.2  | 111.0      | 111.0 | 105.4 |
| Texas                | 76.9    | 76.4  | 72.3  | 230.5   | 235.6 | 233.2 | 295.8      | 291.2 | 270.3 |
| Utah                 | 6.3     | 6.3   | 6.1   | 20.3    | 19.3  | 19.6  | 54.8       | 54.0  | 42.4  |
| Vermont              | 2.9     | 2.9   | 2.8   | 11.3    | 11.2  | 10.8  | 14.9       | 14.9  | 14.9  |
| Virginia             | 28.2    | 27.6  | 25.5  | 77.5    | 75.5  | 76.1  | 153.3      | 152.0 | 132.6 |
| Washington           | 26.7    | 26.6  | 26.0  | 79.5    | 77.9  | 77.9  | 144.4      | 142.6 | 123.6 |
| West Virginia        | 9.5     | 9.5   | 9.4   | 42.0    | 40.9  | 40.2  | 56.7       | 55.5  | 57.2  |
| Wisconsin            | 32.4    | 31.9  | 31.5  | 95.3    | 95.6  | 95.6  | 128.1      | 125.7 | 124.3 |
| Wyoming              | 1.9     | 2.0   | 1.7   | 10.4    | 9.4   | 10.8  | 15.3       | 15.1  | 14.5  |

See footnotes at end of table and explanatory notes, sections G and H.

TABLE 7: Employees in Nonagricultural Establishments, by Industry Division,  
by State

See explanatory notes, sections G and H.

1/ Revised series; not strictly comparable with previously published data.

2/ Mining combined with construction.

3/ Mining combined with service.

TABLE 8: Employees in Nonagricultural Establishments by Industry Division, Selected Areas  
(In thousands)

| Area                         | Number of Employees |       |       | Area                          | Number of Employees |       |       |
|------------------------------|---------------------|-------|-------|-------------------------------|---------------------|-------|-------|
|                              | 1951                |       | 1950  |                               | 1951                |       | 1950  |
|                              | May                 | Apr.  | May   |                               | May                 | Apr.  | May   |
| <b>ALABAMA</b>               |                     |       |       | <b>CONNECTICUT (Cont'd.)</b>  |                     |       |       |
| <u>Birmingham</u>            |                     |       |       | <u>Bridgeport (Cont'd.)</u>   |                     |       |       |
| Mining                       | 15.7                | 15.5  | 18.9  | Trade                         | 17.0                | 17.0  | N.A.  |
| Manufacturing                | 58.3                | 57.8  | 55.3  | Finance                       | 2.2                 | 2.2   | N.A.  |
| <b>ARIZONA</b>               |                     |       |       | <u>Hartford</u>               |                     |       |       |
| <u>Phoenix</u>               |                     |       |       | Contract Construction 2/      | 8.6                 | 7.7   | N.A.  |
| Mining                       | .1                  | .1    | .2    | Manufacturing                 | 75.5                | 74.1  | N.A.  |
| Manufacturing                | 11.1                | 11.0  | 8.0   | Trans. & Public Util.         | 7.1                 | 7.1   | N.A.  |
| Trans. & Public Util. 1/     | 8.0                 | 8.1   | 7.2   | Trade                         | 35.4                | 36.5  | N.A.  |
| Trade                        | 24.4                | 24.5  | 21.8  | Finance                       | 23.5                | 23.5  | N.A.  |
| Finance                      | 3.7                 | 3.7   | 3.4   | <u>New Britain</u>            |                     |       |       |
| Service                      | 10.9                | 11.3  | 10.3  | Contract Construction         | 1.0                 | 1.0   | N.A.  |
| <u>Tucson</u>                |                     |       |       | Manufacturing                 | 29.5                | 29.3  | N.A.  |
| Mining                       | 1.7                 | 1.7   | 1.6   | Trans. & Public Util.         | 1.4                 | 1.4   | N.A.  |
| Manufacturing                | 2.0                 | 2.0   | 1.6   | Trade                         | 4.8                 | 4.8   | N.A.  |
| Trans. & Public Util. 1/     | 2.9                 | 2.9   | 2.5   | Finance                       | .5                  | .5    | N.A.  |
| Trade                        | 8.6                 | 8.6   | 8.2   | <u>New Haven</u>              |                     |       |       |
| Finance                      | 1.2                 | 1.2   | 1.0   | Contract Construction 2/      | 5.9                 | 5.7   | N.A.  |
| Service                      | 9.5                 | 9.2   | 5.2   | Manufacturing                 | 44.9                | 44.0  | N.A.  |
| <b>ARKANSAS</b>              |                     |       |       | Trans. & Public Util.         | 13.1                | 13.1  | N.A.  |
| <u>Little Rock</u>           |                     |       |       | Trade                         | 20.8                | 20.6  | N.A.  |
| Total                        | 64.5                | 64.5  | 63.0  | Finance                       | 5.0                 | 4.9   | N.A.  |
| Contract Construction        | 3.0                 | 5.9   | 5.7   | <u>Waterbury</u>              |                     |       |       |
| Manufacturing                | 12.0                | 12.3  | 11.0  | Contract Construction 2/      | 2.2                 | 2.1   | N.A.  |
| Trans. & Public Util.        | 0.4                 | 0.4   | 0.6   | Manufacturing                 | 44.1                | 44.5  | N.A.  |
| Trade                        | 17.7                | 17.5  | 17.2  | Trans. & Public Util.         | 2.4                 | 2.4   | N.A.  |
| Finance                      | 3.5                 | 3.4   | 3.5   | Trade                         | 8.7                 | 8.7   | N.A.  |
| Service 2/                   | 6.5                 | 8.4   | 8.5   | Finance                       | 1.0                 | 1.0   | N.A.  |
| Government                   | 10.6                | 10.7  | 10.6  | <b>DEPARTMENT OF COLU. I.</b> |                     |       |       |
| <b>CALIFORNIA</b>            |                     |       |       | <u>Washington</u>             |                     |       |       |
| <u>Los Angeles</u>           |                     |       |       | Total                         | 605.9               | 504.9 | 557.0 |
| Manufacturing                | 470.4               | 477.2 | 395.7 | Contract Construction         | 40.3                | 42.1  | 41.4  |
| <u>Sacramento</u>            |                     |       |       | Manufacturing                 | 24.6                | 24.7  | 21.7  |
| Manufacturing                | 10.1                | 9.9   | 9.9   | Trans. & Public Util.         | 39.6                | 40.7  | 38.9  |
| <u>San Diego</u>             |                     |       |       | Trade                         | 114.2               | 114.0 | 113.3 |
| Manufacturing                | 3.4                 | 3.3   | 21.2  | Finance                       | 30.4                | 30.2  | 20.7  |
| <u>San Francisco-Oakland</u> |                     |       |       | Service 2/                    | 75.4                | 73.7  | 73.4  |
| Manufacturing                | 173.4               | 172.4 | 155.0 | Government                    | 281.0               | 279.5 | 249.6 |
| <u>San Jose</u>              |                     |       |       | <b>FLORIDA</b>                |                     |       |       |
| Manufacturing                | 21.9                | 21.5  | 17.2  | <u>Jacksonville</u>           |                     |       |       |
| <b>COLORADO</b>              |                     |       |       | Manufacturing                 | 16.4                | 17.4  | 14.2  |
| <u>Denver</u>                |                     |       |       | Trans. & Public Util.         | 14.7                | 14.8  | 14.1  |
| Mining                       | 1.0                 | 1.0   | 1.0   | Trade                         | 31.2                | 31.0  | 30.8  |
| Contract Construction        | 20.0                | 19.9  | 16.0  | Finance                       | 5.8                 | 5.8   | 5.7   |
| Manufacturing                | 41.5                | 40.8  | 35.3  | Service 2/                    | 11.8                | 11.8  | 11.2  |
| Trans. & Public Util.        | 25.1                | 25.1  | 23.7  | Government                    | 14.5                | 14.2  | 13.1  |
| Trade                        | 57.1                | 55.7  | 53.3  | <u>Miami</u>                  |                     |       |       |
| Finance                      | 10.4                | 9.9   | 9.6   | Manufacturing                 | 15.0                | 15.8  | 13.1  |
| <b>CONNECTICUT</b>           |                     |       |       | Trans. & Public Util.         | 21.7                | 21.7  | 19.5  |
| <u>Bridgeport</u>            |                     |       |       | Trade                         | 53.5                | 55.9  | 47.2  |
| Contract Construction 2/     | 5.8                 | 5.1   | N.A.  | Finance                       | 8.5                 | 8.5   | 8.4   |
| Manufacturing                | 66.5                | 65.9  | N.A.  | Service 2/                    | 29.0                | 33.5  | 25.4  |
| Trans. & Public Util.        | 5.1                 | 5.1   | N.A.  | Government                    | 15.5                | 1.5   | 17.4  |
| <b>CONNECTICUT (Cont'd.)</b> |                     |       |       | <u>Tampa-St. Petersburg</u>   |                     |       |       |
| <u>Bridgeport (Cont'd.)</u>  |                     |       |       | Total                         | 104.4               | 107.5 | 101.3 |
| Trade                        |                     |       |       |                               |                     |       |       |
| Finance                      |                     |       |       |                               |                     |       |       |

See footnotes at end of table and explanatory notes, sections G, H, and I.

TABLE 6: Employees in Nonagricultural Establishments by Industry Division, Selected Areas  
(In thousands)

| Area                                  | Number of Employees |       |       | Area                       | Number of Employees |       |       |
|---------------------------------------|---------------------|-------|-------|----------------------------|---------------------|-------|-------|
|                                       | 1951                |       | 1950  |                            | 1951                |       | 1950  |
|                                       | May                 | Apr.  | May   |                            | May                 | Apr.  | May   |
| <b>FLORIDA (Cont'd.)</b>              |                     |       |       | <b>Kentucky (Cont'd.)</b>  |                     |       |       |
| <b>Tampa-St. Petersburg (Cont'd.)</b> |                     |       |       | <b>Mohita</b>              |                     |       |       |
| Contract Construction                 | 9.2                 | 6.9   | 9.2   | Total                      | 97.0                | 96.7  | 77.2  |
| Manufacturing                         | 19.8                | 20.6  | 19.8  | Mining                     | 1.3                 | 1.3   | 1.3   |
| Trans. & Public Util.                 | 9.7                 | 9.6   | 9.4   | Contract Construction      | 4.5                 | 4.7   | 4.7   |
| Trade                                 | 34.4                | 35.6  | 33.3  | Manufacturing              | 41.0                | 40.7  | 24.4  |
| Finance                               | 5.0                 | 5.0   | 4.5   | Trans. & Public Util.      | 6.9                 | 6.9   | 6.7   |
| Service 2/                            | 13.7                | 15.1  | 13.1  | Trade                      | 23.5                | 23.4  | 21.3  |
| Government                            | 12.6                | 12.8  | 12.2  | Finance                    | 3.7                 | 3.7   | 3.6   |
|                                       |                     |       |       | Service                    | 9.0                 | 9.0   | 8.6   |
|                                       |                     |       |       | Government                 | 7.2                 | 7.2   | 6.7   |
| <b>GEORGIA</b>                        |                     |       |       | <b>LOUISIANA</b>           |                     |       |       |
| <b>Atlanta</b>                        |                     |       |       | <b>New Orleans</b>         |                     |       |       |
| Total                                 | 253.5               | 242.9 | 242.9 | Manufacturing              | 51.2                | 50.2  | 47.4  |
| Contract Construction                 | 16.3                | 17.7  | 15.3  |                            |                     |       |       |
| Manufacturing                         | 53.1                | 52.5  | 51.0  | <b>MAINE</b>               |                     |       |       |
| Trans. & Public Util.                 | 30.3                | 30.6  | 28.4  | <b>Portland</b>            |                     |       |       |
| Trade                                 | 73.5                | 73.7  | 70.9  | Total                      | 45.9                | 45.7  | 45.1  |
| Finance                               | 15.3                | 15.1  | 15.3  | Contract Construction      | 2.2                 | 1.9   | 2.1   |
| Service 2/                            | 31.6                | 31.9  | 32.5  | Manufacturing              | 11.9                | 11.9  | 11.3  |
| Government                            | 31.1                | 31.3  | 29.4  | Trans. & Public Util.      | 5.4                 | 5.4   | 5.6   |
|                                       |                     |       |       | Trade                      | 12.7                | 12.9  | 12.7  |
|                                       |                     |       |       | Finance                    | 2.4                 | 2.4   | 2.3   |
|                                       |                     |       |       | Service 2/                 | 7.9                 | 7.8   | 7.8   |
|                                       |                     |       |       | Government                 | 3.4                 | 3.4   | 3.3   |
| <b>Savannah</b>                       |                     |       |       | <b>MARYLAND</b>            |                     |       |       |
| Total                                 | 40.9                | 40.5  | 38.6  | <b>Baltimore</b>           |                     |       |       |
| Contract Construction                 | 3.1                 | 2.0   | 1.7   | Total                      | 511.0               | 511.5 | 477.7 |
| Manufacturing                         | 12.9                | 13.2  | 12.5  | Mining                     | .5                  | .5    | .5    |
| Trans. & Public Util.                 | 1.8                 | 1.6   | 1.3   | Contract Construction      | 30.4                | 31.8  | 32.8  |
| Trade                                 | 6.3                 | 6.1   | 6.3   | Manufacturing              | 169.6               | 177.4 | 165.7 |
| Finance                               | 1.2                 | 1.2   | 1.2   | Trans. & Public Util.      | 53.8                | 53.4  | 50.3  |
| Service 2/                            | 4.1                 | 4.1   | 4.3   | Trade                      | 100.2               | 101.0 | 99.6  |
| Government                            | 4.5                 | 4.5   | 4.3   | Finance                    | 23.6                | 23.3  | 23.3  |
|                                       |                     |       |       | Service                    | 54.7                | 53.9  | 54.2  |
|                                       |                     |       |       | Government                 | 55.2                | 55.2  | 51.3  |
| <b>INDIANA</b>                        |                     |       |       | <b>MASSACHUSETTS</b>       |                     |       |       |
| <b>Evansville</b>                     |                     |       |       | <b>Boston</b>              |                     |       |       |
| Total                                 | 44.1                | 53.2  | 52.8  | Manufacturing              | 303.1               | 302.4 | 271.2 |
| Manufacturing                         | 32.6                | 32.6  | 31.8  |                            |                     |       |       |
| Nonmanufacturing                      | 31.2                | 30.6  | 31.0  | <b>Fall River</b>          |                     |       |       |
|                                       |                     |       |       | <b>Manufacturing</b>       |                     |       |       |
|                                       |                     |       |       |                            | 31.5                | 32.3  | 26.5  |
|                                       |                     |       |       | <b>New Bedford</b>         |                     |       |       |
|                                       |                     |       |       | <b>Manufacturing</b>       |                     |       |       |
|                                       |                     |       |       |                            | 36.9                | 31.6  | 31.6  |
|                                       |                     |       |       | <b>Springfield-Holyoke</b> |                     |       |       |
|                                       |                     |       |       | <b>Manufacturing</b>       |                     |       |       |
|                                       |                     |       |       |                            | 76.4                | 71.2  | 72.2  |
|                                       |                     |       |       | <b>Worcester</b>           |                     |       |       |
|                                       |                     |       |       | <b>Manufacturing</b>       |                     |       |       |
|                                       |                     |       |       |                            | 54.9                | 56.0  | 49.5  |
| <b>KANSAS</b>                         |                     |       |       | <b>MINNESOTA</b>           |                     |       |       |
| <b>Topeka</b>                         |                     |       |       | <b>Duluth</b>              |                     |       |       |
| Total                                 | 41.3                | 40.5  | 37.0  | Total                      | 40.6                | 40.2  | 41.1  |
| Mining                                | .1                  | .1    | .1    | Contract Construction      | 2.1                 | 1.9   | 2.0   |
| Contract Construction                 | 2.2                 | 2.1   | .9    | Manufacturing              | 16.4                | 16.5  | 11.3  |
| Manufacturing                         | 16.9                | 17.7  | 14.4  | Trans. & Public Util.      | 7.1                 | 6.8   | 6.9   |
| Trans. & Public Util.                 | 7.2                 | 7.1   | 6.7   | Trade                      | 10.3                | 10.2  | 10.3  |
| Trade                                 | 6.8                 | 6.5   | 6.0   |                            |                     |       |       |
| Finance                               | 2.1                 | 2.0   | 2.0   |                            |                     |       |       |
| Service                               | 4.3                 | 4.9   | 4.4   |                            |                     |       |       |
| Government                            | 9.9                 | 9.7   | 8.5   |                            |                     |       |       |

See footnotes at end of table and explanatory notes, sections G, H, and I.



Table 6: Employees in Nonagricultural Establishments by Industry Division, Selected Areas (In thousands)

| Area   | Number of Employees |       |       | Area                           | Number of Employees |       |       |
|--|---------------------|-------|-------|--------------------------------|---------------------|-------|-------|
|  | 1951                |       | 1950  |                                | 1951                |       | 1950  |
|  | May                 | Apr.  | May   |                                | May                 | Apr.  | May   |
| <b>MINNESOTA (Cont'd.)</b>                         |                     |       |       | <b>NEVADA (Cont'd.)</b>        |                     |       |       |
| <b>Duluth (Cont'd.)</b>                            |                     |       |       | <b>Reno (Cont'd.)</b>          |                     |       |       |
| Finance  | 1.4                 | 1.4   | 1.4   | Trade                          | 5.6                 | 5.4   | 5.0   |
| Service 2/   | 5.3                 | 5.3   | 5.0   | Finance                        | .9                  | .9    | .8    |
| Government   | 4.1                 | 4.1   | 4.1   | Service                        | 4.9                 | 4.7   | 4.6   |
| <b>Minneapolis</b>                                 |                     |       |       | <b>NEW HAMPSHIRE</b>           |                     |       |       |
| Total  | 250.2               | 257.2 | 244.3 | <b>Manchester</b>              |                     |       |       |
| Contract Construction                              | 15.5                | 14.5  | 12.5  | Total                          | 40.1                | 41.0  | 37.9  |
| Manufacturing                                      | 72.4                | 72.8  | 64.2  | Contract Construction          | 1.5                 | 1.5   | 1.7   |
| Trans. & Public Util.                              | 25.6                | 25.5  | 25.4  | Manufacturing                  | 20.6                | 21.7  | 16.5  |
| Trade  | 75.6                | 75.3  | 75.0  | Trans. & Public Util.          | 2.3                 | 2.3   | 2.1   |
| Finance  | 15.7                | 15.5  | 16.1  | Trade                          | 7.6                 | 7.4   | 7.7   |
| Service 2/   | 26.6                | 26.7  | 26.1  | Finance                        | 1.5                 | 1.5   | 1.5   |
| Government   | 23.4                | 23.5  | 23.1  | Service                        | 4.0                 | 4.0   | 4.0   |
| <b>St. Paul</b>                                    |                     |       |       | Government                     | 2.5                 | 2.5   | 2.5   |
| Total  | 144.0               | 143.7 | 139.4 | <b>NEW JERSEY</b>              |                     |       |       |
| Contract Construction                              | 7.4                 | 7.0   | 6.9   | <b>Newark-Jersey City</b>      |                     |       |       |
| Manufacturing                                      | 41.4                | 41.5  | 40.4  | Manufacturing                  | 355.8               | 367.4 | 323.1 |
| Trans. & Public Util.                              | 20.4                | 20.3  | 19.8  | <b>Paterson</b>                |                     |       |       |
| Trade  | 34.9                | 35.1  | 33.9  | Manufacturing                  | 162.7               | 164.2 | 142.7 |
| Finance  | 6.5                 | 6.4   | 6.3   | <b>Perth Amboy</b>             |                     |       |       |
| Service 2/   | 14.6                | 14.6  | 14.0  | Manufacturing                  | 77.4                | 78.4  | 73.6  |
| Government   | 15.4                | 15.4  | 15.2  | <b>Trenton</b>                 |                     |       |       |
| <b>MISSISSIPPI</b>                                 |                     |       |       | Manufacturing                  | 45.4                | 46.1  | 43.6  |
| <b>Jackson</b>                                     |                     |       |       | <b>NEW MEXICO</b>              |                     |       |       |
| Manufacturing                                      | 7.9                 | 8.2   | 7.7   | <b>Albuquerque</b>             |                     |       |       |
| <b>MISSOURI</b>                                    |                     |       |       | Contract Construction          | 5.9                 | 5.0   | 5.6   |
| <b>Kansas City (including Kansas City, Kansas)</b> |                     |       |       | Manufacturing                  | 5.6                 | 5.4   | 4.8   |
| Total  | 332.9               | 329.8 | 314.6 | Trans. & Public Util.          | 4.6                 | 4.7   | 4.4   |
| Mining   | .9                  | .5    | .7    | Trade                          | 11.7                | 11.6  | 11.4  |
| Contract Construction                              | 20.8                | 20.1  | 15.0  | Finance                        | 2.3                 | 2.3   | 2.4   |
| Manufacturing                                      | 95.0                | 94.1  | 86.6  | Service 2/                     | 6.1                 | 6.3   | 6.1   |
| Trans. & Public Util.                              | 42.9                | 42.5  | 39.9  | <b>NEW YORK</b>                |                     |       |       |
| Trade  | 92.9                | 91.6  | 90.2  | <b>Albany-Schenectady-Troy</b> |                     |       |       |
| Finance  | 19.4                | 19.3  | 18.7  | Manufacturing                  | 85.5                | 86.0  | 75.3  |
| Service  | 39.8                | 40.2  | 41.0  | <b>Binghamton</b>              |                     |       |       |
| Government   | 21.2                | 21.2  | 20.6  | Manufacturing                  | 37.9                | 38.0  | 35.7  |
| <b>St. Louis</b>                                   |                     |       |       | <b>Buffalo</b>                 |                     |       |       |
| Manufacturing                                      | 206.4               | 209.8 | 175.5 | Manufacturing                  | 200.9               | 200.9 | 178.8 |
| <b>NEBRASKA</b>                                    |                     |       |       | <b>Elmira</b>                  |                     |       |       |
| <b>Omaha</b>                                       |                     |       |       | Manufacturing                  | 16.6                | 1.4   | 14.5  |
| Total  | 146.1               | 139.9 | 131.4 | <b>New York City</b>           |                     |       |       |
| Contract Construction                              | 6.5                 | 6.2   | 6.3   | Contract Construction          | 117.4               | 115.5 | 119.9 |
| Manufacturing                                      | 32.1                | 32.0  | 26.6  | Manufacturing                  | 955.9               | 999.6 | 936.2 |
| Trans. & Public Util.                              | 22.5                | 22.5  | 21.1  | Trade                          | 637.7               | 638.7 | 623.7 |
| Trade  | 37.7                | 37.9  | 36.0  | <b>Rochester</b>               |                     |       |       |
| Finance  | 16.4                | 16.3  | 9.9   | Manufacturing                  | 105.0               | 106.2 | 95.3  |
| Service 2/   | 17.6                | 16.8  | 16.7  | <b>Syracuse</b>                |                     |       |       |
| Government   | 13.6                | 13.6  | 12.9  | Manufacturing                  | 59.9                | 60.3  | 51.5  |
| <b>NEVADA</b>                                      |                     |       |       | <b>WISCONSIN</b>               |                     |       |       |
| <b>Reno</b>  |                     |       |       | <b>Madison</b>                 |                     |       |       |
| Contract Construction                              | 1.9                 | 2.0   | 1.7   | Contract Construction          | 1.9                 | 2.0   | 1.7   |
| Manufacturing 2/                                   | 1.5                 | 1.5   | 1.5   | Manufacturing                  | 1.5                 | 1.5   | 1.5   |
| Trans. & Public Util.                              | 3.0                 | 3.0   | 2.9   | Trans. & Public Util.          | 3.0                 | 3.0   | 2.9   |

See footnotes at end of table and explanatory notes, sections G, H, and I.

TABLE 8: Employees in Nonagricultural Establishments by Industry Division, Selected Areas  
(In thousands)

| Area                      | Number of Employees |       |       | Area                            | Number of Employees |       |       |
|---------------------------|---------------------|-------|-------|---------------------------------|---------------------|-------|-------|
|                           | 1951                |       | 1950  |                                 | 1951                |       | 1950  |
|                           | May                 | Apr.  | May   |                                 | May                 | Apr.  | May   |
| <b>NEW YORK (Cont'd.)</b> |                     |       |       | <b>NORTH CAROLINA (Cont'd.)</b> |                     |       |       |
| <u>Utica-Rome</u>         |                     |       |       | <u>Columbia</u>                 |                     |       |       |
| Manufacturing             | 45.8                | 43.7  | 42.7  | Manufacturing                   | 5.8                 | 5.7   | 7.2   |
| <b>NORTH CAROLINA</b>     |                     |       |       | <b>SOUTH DAKOTA</b>             |                     |       |       |
| <u>Charlotte</u>          |                     |       |       | <u>SiouxFalls</u>               |                     |       |       |
| Contract Construction     | 10.7                | 10.1  | 7.6   | Manufacturing                   | 5.0                 | 5.0   | 4.9   |
| Manufacturing             | 21.7                | 21.2  | 20.5  | <b>TENNESSEE</b>                |                     |       |       |
| Trans. & Public Util.     | 10.5                | 10.5  | 9.7   | <u>Chattanooga</u>              |                     |       |       |
| Trade                     | 22.5                | 22.3  | 21.8  | Mining                          | .2                  | .2    | .2    |
| Finance                   | 4.4                 | 4.3   | 4.2   | Manufacturing                   | 42.8                | 43.0  | 37.3  |
| <b>OKLAHOMA</b>           |                     |       |       | Trans. & Public Util.           | 4.8                 | 4.8   | 4.7   |
| <u>Oklahoma City</u>      |                     |       |       | Trade                           | 17.5                | 17.2  | 16.1  |
| Total                     | 123.5               | 123.3 | 111.8 | Finance                         | 2.8                 | 2.8   | 2.7   |
| Contract Construction     | 8.5                 | 8.5   | 5.2   | Service                         | 9.4                 | 9.4   | 9.5   |
| Mining                    | 5.9                 | 6.0   | 5.4   | Government                      | 7.8                 | 7.8   | 7.7   |
| Manufacturing             | 13.7                | 13.0  | 13.0  | <b>Knoxville</b>                |                     |       |       |
| Trans. & Public Util.     | 11.1                | 11.1  | 10.3  | Mining                          | 2.7                 | 2.9   | 2.6   |
| Trade                     | 33.7                | 34.2  | 33.7  | Manufacturing                   | 41.8                | 41.8  | 38.3  |
| Finance                   | 6.0                 | 5.7   | 5.5   | Trans. & Public Util.           | 7.0                 | 7.2   | 7.1   |
| Service                   | 13.1                | 13.0  | 13.2  | Trade                           | 21.3                | 21.2  | 21.4  |
| Government                | 30.9                | 30.3  | 26.4  | Finance                         | 3.5                 | 3.1   | 3.5   |
| <b>Tulsa</b>              |                     |       |       | Service                         | 9.2                 | 9.2   | 9.1   |
| Total                     | 90.1                | 89.9  | 85.2  | Government                      | 12.9                | 12.7  | 12.4  |
| Mining                    | 9.8                 | 10.2  | 9.0   | <b>St. Louis</b>                |                     |       |       |
| Contract Construction     | 6.3                 | 6.2   | 5.4   | Mining                          | .4                  | .4    | .3    |
| Manufacturing             | 19.5                | 19.2  | 18.3  | Manufacturing                   | 41.4                | 41.4  | 38.5  |
| Trans. & Public Util.     | 10.0                | 10.7  | 10.7  | Trans. & Public Util.           | 15.4                | 15.0  | 15.3  |
| Trade                     | 24.0                | 23.6  | 23.3  | Trade                           | 47.1                | 45.9  | 45.0  |
| Finance                   | 4.5                 | 4.5   | 4.4   | Finance                         | 7.4                 | 7.4   | 6.6   |
| Service                   | 9.7                 | 9.7   | 9.9   | Service                         | 22.5                | 22.4  | 23.2  |
| Government                | 5.0                 | 5.5   | 5.5   | Government                      | 16.7                | 16.4  | 13.4  |
| <b>OREGON</b>             |                     |       |       | <b>Nashville</b>                |                     |       |       |
| <u>Portland</u>           |                     |       |       | Manufacturing                   | 35.3                | 35.5  | 33.1  |
| Manufacturing             | 50.5                | 53.2  | 52.8  | Trans. & Public Util.           | 11.4                | 11.5  | 11.3  |
| <b>PENNSYLVANIA</b>       |                     |       |       | Trade                           | 24.1                | 23.9  | 24.1  |
| <u>Philadelphia</u>       |                     |       |       | Finance                         | 5.9                 | 6.0   | 5.7   |
| Manufacturing             | 582.1               | 596.5 | 526.8 | Service                         | 14.0                | 14.0  | 14.7  |
| <b>Pittsburgh</b>         |                     |       |       | Government                      | 13.1                | 13.1  | 13.1  |
| Manufacturing             | 372.9               | 372.1 | 330.5 | <b>UTAH</b>                     |                     |       |       |
| <b>RHODE ISLAND</b>       |                     |       |       | <u>Salt Lake City</u>           |                     |       |       |
| <u>Providence</u>         |                     |       |       | Mining                          | 6.0                 | 6.0   | 5.8   |
| Total                     | 295.9               | 300.0 | 271.9 | Contract Construction           | 7.7                 | 7.5   | 7.1   |
| Contract Construction     | 14.5                | 13.8  | 11.7  | Manufacturing                   | 14.1                | 14.1  | 12.8  |
| Manufacturing             | 156.1               | 156.5 | 148.3 | Trans. & Public Util. 1/        | 5.9                 | 5.9   | 5.5   |
| Trans. & Public Util.     | 13.7                | 13.5  | 14.1  | Trade                           | 27.3                | 25.8  | 25.6  |
| Trade                     | 51.0                | 51.1  | 47.9  | Finance                         | 4.8                 | 4.6   | 4.6   |
| Finance                   | 10.4                | 10.4  | 10.1  | <b>VERMONT</b>                  |                     |       |       |
| Service 2/                | 21.4                | 22.2  | 21.9  | <u>Fairlington</u>              |                     |       |       |
| Government                | 25.8                | 26.4  | 25.9  | Manufacturing                   | 5.9                 | 6.0   | 5.1   |
| <b>SOUTH CAROLINA</b>     |                     |       |       | <b>WASHINGTON</b>               |                     |       |       |
| <u>Charleston</u>         |                     |       |       | <u>Seattle</u>                  |                     |       |       |
| Manufacturing             | 8.8                 | 9.4   | 8.6   | Total                           | 255.0               | 256.3 | 238.4 |
| Trans. & Public Util.     | 5.1                 | 5.2   | 4.2   | Contract Construction           | 13.1                | 12.5  | 13.5  |

See footnotes at end of table and explanatory notes, sections G, H, and I.

TABLE 8: Employees in Nonagricultural Establishments by Industry Division, Selected Areas  
(In thousands)

| Area                        | Number of Employees |      |      | Area                        | Number of Employees |       |       |
|-----------------------------|---------------------|------|------|-----------------------------|---------------------|-------|-------|
|                             | 1951                |      | 1950 |                             | 1951                |       | 1950  |
|                             | May                 | Apr. | May  |                             | May                 | Apr.  | May   |
| <u>WASHINGTON (Cont'd.)</u> |                     |      |      | <u>WASHINGTON (Cont'd.)</u> |                     |       |       |
| <u>Seattle (Cont'd.)</u>    |                     |      |      | <u>Tacoma (Cont'd.)</u>     |                     |       |       |
| Manufacturing               | 71.3                | 66.8 | 56.9 | Finance                     | 2.7                 | 2.7   | 2.4   |
| Trans. & Public Util.       | 29.6                | 29.5 | 25.3 | Service 2/                  | 5.9                 | 5.8   | 5.8   |
| Trade                       | 66.0                | 65.8 | 63.7 | Government                  | 18.6                | 18.7  | 13.1  |
| Finance                     | 14.4                | 14.4 | 14.1 |                             |                     |       |       |
| Service 2/                  | 33.3                | 32.5 | 33.2 | <u>WEST VIRGINIA</u>        |                     |       |       |
| Government                  | 37.3                | 36.7 | 31.7 | <u>Charleston</u>           |                     |       |       |
|                             |                     |      |      | Total                       | 97.3                | 97.0  | 95.4  |
| <u>Spokane</u>              |                     |      |      | Mining                      | 21.3                | 21.6  | 22.5  |
| Total                       | 65.8                | 65.0 | 63.8 | Contract Construction       | 4.1                 | 3.9   | 5.1   |
| Contract Construction       | 3.7                 | 3.3  | 4.0  | Manufacturing               | 28.2                | 28.2  | 24.9  |
| Manufacturing               | 13.5                | 13.3 | 12.6 | Trans. & Public Util.       | 9.0                 | 9.0   | 6.4   |
| Trans. & Public Util.       | 10.4                | 10.4 | 10.4 | Trade                       | 15.3                | 15.1  | 15.4  |
| Trade                       | 18.1                | 18.1 | 17.6 | Finance                     | 2.7                 | 2.7   | 2.6   |
| Finance                     | 2.9                 | 2.9  | 3.0  | Service 2/                  | 7.1                 | 7.1   | 7.1   |
| Service 2/                  | 9.7                 | 9.5  | 9.5  | Government                  | 8.7                 | 8.5   | 8.6   |
| Government                  | 7.5                 | 7.4  | 6.7  |                             |                     |       |       |
|                             |                     |      |      | <u>WISCONSIN</u>            |                     |       |       |
| <u>Tacoma</u>               |                     |      |      | <u>Milwaukee</u>            |                     |       |       |
| Total                       | 72.4                | 72.2 | 65.1 | Manufacturing               | 194.2               | 195.1 | 174.2 |
| Contract Construction       | 4.5                 | 4.4  | 4.5  |                             |                     |       |       |
| Manufacturing               | 18.3                | 18.7 | 17.9 | <u>Madison</u>              |                     |       |       |
| Trans. & Public Util.       | 5.5                 | 5.5  | 5.1  | Manufacturing               | 24.8                | 25.0  | 22.0  |
| Trade                       | 14.4                | 14.4 | 14.3 |                             |                     |       |       |

See explanatory notes, sections G, H, and I.

1/ Excludes interstate railroads.

2/ Includes mining.

3/ Includes mining, service, and government.

K.A. = Not available.

TABLE 9: Production Workers in Selected Manufacturing Industries

(In thousands)

| Industry  | 1951  |       |       |
|---|-------|-------|-------|
|   | May   | April | March |
| <b>FOOD AND KINDRED PRODUCTS:</b>                         |       |       |       |
| Meat packing, wholesale                                   | 159.1 | 159.3 | 162.6 |
| Prepared meats  | 33.8  | 33.8  | 34.3  |
| Concentrated milk   | 13.4  | 12.9  | 12.1  |
| Ice cream and ices  | 21.1  | 19.1  | 18.1  |
| Flour and meal  | 27.1  | 27.0  | 27.6  |
| Cane-sugar refining                                       | 13.9  | 13.8  | 14.1  |
| Beet sugar  | 5.8   | 5.4   | 5.1   |
| Confectionery products                                    | 56.2  | 57.0  | 61.3  |
| Malt liquors  | 62.9  | 60.6  | 60.3  |
| Distilled liquors, except brandy                          | 17.5  | 19.1  | 22.3  |
| <b>TEXTILE-MILL PRODUCTS:</b>                             |       |       |       |
| Yarn mills, wool (except carpet), cotton and silk systems | 111.7 | 111.6 | 113.1 |
| Cotton and rayon broad-woven fabrics                      | 404.8 | 397.1 | 426.5 |
| Woolen and worsted fabrics                                | 101.1 | 103.8 | 72.0  |
| Full-fashioned hosiery mills                              | 63.5  | 65.9  | 67.2  |
| Seamless hosiery mills                                    | 51.3  | 54.6  | 56.9  |
| Knit underwear mills                                      | 34.4  | 35.7  | 36.9  |
| Wool carpets, rugs, and carpet yarn                       | 35.7  | 38.3  | 38.7  |
| Fur-felt hats and hat bodies                              | 8.3   | 8.9   | 9.4   |
| <b>APPAREL AND OTHER FINISHED TEXTILE PRODUCTS:</b>       |       |       |       |
| Men's dress shirts and nightwear                          | 84.9  | 87.7  | 87.7  |
| Work shirts   | 13.0  | 12.9  | 12.9  |
| <b>FURNITURE AND FIXTURES:</b>                            |       |       |       |
| Wood household furniture, except upholstered              | 110.7 | 119.6 | 124.7 |
| Mattresses and bedsprings                                 | 27.5  | 28.5  | 29.2  |
| <b>CHEMICALS AND ALLIED PRODUCTS:</b>                     |       |       |       |
| Plastics materials  | 22.5  | 22.3  | 22.2  |
| Synthetic rubber  | 7.5   | 7.3   | 7.1   |
| Synthetic fibers  | 56.4  | 56.6  | 56.6  |
| Soap and glycerin   | 19.2  | 20.2  | 20.7  |
| <b>STONE, CLAY, AND GLASS PRODUCTS:</b>                   |       |       |       |
| Glass containers  | 44.1  | 44.0  | 43.4  |
| Pressed and blown glass, not elsewhere classified         | 35.3  | 36.5  | 36.5  |
| Brick and hollow tile                                     | 29.1  | 28.7  | 28.1  |
| Sewer pipe  | 8.7   | 8.7   | 8.6   |

See explanatory notes, section A.

TABLE 9: Production Workers in Selected Manufacturing Industries (Continued)

(In thousands)

| Industry   | 1951  |       |       |
|--|-------|-------|-------|
|  | May   | April | March |
| <b>PRIMARY METAL INDUSTRIES:</b>   |       |       |       |
| Gray-iron foundries  | 162.5 | 163.5 | 163.3 |
| Malleable-iron foundries   | 27.9  | 27.7  | 27.5  |
| Steel foundries  | 62.1  | 60.8  | 59.8  |
| Primary copper, lead, and zinc   | 26.0  | 26.1  | 26.3  |
| Primary aluminum   | 9.4   | 9.9   | 9.8   |
| Iron and steel forgings  | 34.2  | 34.0  | 33.7  |
| Wire drawing   | 44.1  | 43.9  | 43.6  |
| <b>FABRICATED METAL PRODUCTS (EXCEPT ORDNANCE,<br/>MACHINERY, AND TRANSPORTATION EQUIPMENT):</b> |       |       |       |
| Cutlery and edge tools   | 24.1  | 24.5  | 24.9  |
| Hand tools, not elsewhere classified, files,<br>hand saws, and saw blades                        | 38.9  | 38.7  | 38.5  |
| Hardware, not elsewhere classified   | 71.9  | 73.5  | 74.7  |
| Metal plumbing fixtures and fittings   | 31.1  | 31.4  | 31.5  |
| Oil burners, heating and cooking apparatus,<br>not elsewhere classified                          | 79.4  | 81.6  | 82.5  |
| Structural and ornamental products   | 64.4  | 63.6  | 63.2  |
| Boiler shop products   | 56.3  | 56.1  | 55.6  |
| Metal stampings  | 119.9 | 123.7 | 123.6 |
| <b>MACHINERY (EXCEPT ELECTRICAL):</b>  |       |       |       |
| Tractors   | 72.3  | 72.0  | 72.0  |
| Farm machinery, except tractors  | 75.8  | 76.3  | 75.7  |
| Machine tools  | 58.5  | 58.4  | 57.4  |
| Metalworking machinery, not elsewhere<br>classified  | 42.3  | 43.8  | 41.6  |
| Cutting tools, jigs, fixtures, etc.  | 90.8  | 88.8  | 86.9  |
| Computing and related machines   | 41.5  | 41.0  | 40.3  |
| Typewriters  | 21.5  | 21.2  | 20.8  |
| Refrigeration machinery  | 101.3 | 102.3 | 106.2 |
| Ball and roller bearings   | 46.6  | 46.1  | 45.4  |
| Machine shops  | 46.6  | 46.3  | 45.4  |
| <b>ELECTRICAL MACHINERY:</b>   |       |       |       |
| Radios and related products  | 157.8 | 171.2 | 183.2 |
| Telephone and telegraph equipment and<br>communication equipment, not elsewhere<br>classified    | 39.3  | 38.9  | 38.2  |
| <b>TRANSPORTATION EQUIPMENT:</b>   |       |       |       |
| Locomotives and parts  | 24.9  | 24.7  | 24.0  |
| Railroad and streetcars  | 33.0  | 33.6  | 31.3  |
| <b>MISCELLANEOUS MANUFACTURING INDUSTRIES:</b>   |       |       |       |
| Silverware and plated ware   | 16.9  | 17.5  | 17.6  |

See explanatory notes, section A.

TABLE 10: Employment of Women in Manufacturing Industries-December 1950 and March 1951

| Industry group and industry                        | March 1951               |                     | December 1950            |                     |
|--|--------------------------|---------------------|--------------------------|---------------------|
|  | Number<br>(in thousands) | Percent<br>of total | Number<br>(in thousands) | Percent<br>of total |
| <b>MANUFACTURING</b>                               | 4,203.6                  | 26                  | 4,120.8                  | 26                  |
| <b>DURABLE GOODS</b>                               | 1,547.2                  | 17                  | 1,486.6                  | 17                  |
| <b>NONDURABLE GOODS</b>                            | 2,656.4                  | 38                  | 2,634.2                  | 37                  |
| <b>ORDNANCE AND ACCESSORIES</b>                    | 7.8                      | 22                  | 6.1                      | 20                  |
| <b>FOOD AND KINDRED PRODUCTS</b>                   | 353.0                    | 24                  | 376.7                    | 25                  |
| Meat products                                      | 61.4                     | 21                  | 64.3                     | 20                  |
| Dairy products                                     | 28.8                     | 21                  | 29.1                     | 21                  |
| Canning and preserving                             | 56.8                     | 38                  | 70.1                     | 42                  |
| Grain-mill products                                | 20.9                     | 16                  | 19.9                     | 16                  |
| Bakery products                                    | 71.6                     | 25                  | 70.9                     | 25                  |
| Sugar  | 3.3                      | 11                  | 3.9                      | 9                   |
| Confectionery and related products                 | 51.9                     | 53                  | 59.0                     | 56                  |
| Beverages  | 20.9                     | 10                  | 22.9                     | 11                  |
| Miscellaneous food products                        | 37.4                     | 27                  | 36.6                     | 27                  |
| <b>TOBACCO MANUFACTURES</b>                        | 51.4                     | 61                  | 54.4                     | 61                  |
| Cigarettes   | 11.4                     | 44                  | 11.5                     | 44                  |
| Cigars   | 32.7                     | 78                  | 32.7                     | 77                  |
| Tobacco and snuff                                  | 5.3                      | 44                  | 5.5                      | 46                  |
| Tobacco stemming and redrying                      | 2.0                      | 42                  | 4.7                      | 49                  |
| <b>TEXTILE-MILL PRODUCTS</b>                       | 571.9                    | 43                  | 585.9                    | 43                  |
| Yarn and thread mills                              | 81.1                     | 47                  | 80.2                     | 47                  |
| Broad-woven fabric mills                           | 235.1                    | 39                  | 252.9                    | 40                  |
| Knitting mills                                     | 169.8                    | 66                  | 166.9                    | 66                  |
| Dyeing and finishing textiles                      | 21.7                     | 23                  | 21.7                     | 23                  |
| Carpets, rugs, other floor coverings               | 15.3                     | 25                  | 15.5                     | 25                  |
| Other textile-mill products                        | 48.9                     | 36                  | 48.7                     | 36                  |
| <b>APPAREL AND OTHER FINISHED TEXTILE PRODUCTS</b> | 936.0                    | 76                  | 892.5                    | 75                  |
| Men's and boys' suits and coats                    | 96.6                     | 62                  | 93.8                     | 62                  |
| Men's and boys' furnishings and work clothing      | 237.9                    | 84                  | 226.6                    | 84                  |
| Women's outerwear                                  | 260.6                    | 77                  | 248.7                    | 75                  |
| Women's, children's under garments                 | 95.2                     | 88                  | 93.8                     | 88                  |
| Millinery  | 17.8                     | 70                  | 14.7                     | 69                  |
| Children's outerwear                               | 58.4                     | 86                  | 55.2                     | 84                  |
| Fur goods and miscellaneous apparel                | 69.4                     | 72                  | 66.1                     | 72                  |
| Other fabricated textile products                  | 100.1                    | 65                  | 93.6                     | 64                  |

TABLE 10: Employment of Women in Manufacturing Industries-December 1950 and March 1951 - (Cont'd)

| Industry group and industry                                   | March 1951               |                     | December 1950            |                     |
|---|--------------------------|---------------------|--------------------------|---------------------|
|   | Number<br>(in thousands) | Percent<br>of total | Number<br>(in thousands) | Percent<br>of total |
| <b>LUMBER AND WOOD PRODUCTS (EXCEPT FURNITURE)</b>            | 56.6                     | 7                   | 56.5                     | 7                   |
| Logging camps and contractors                                 | 1.1                      | 2                   | 1.4                      | 2                   |
| Sawmills and planing mills                                    | 19.7                     | 4                   | 19.8                     | 4                   |
| Millwork, plywood, and prefabricated structural wood products | 9.3                      | 8                   | 9.2                      | 7                   |
| Wooden containers   | 13.8                     | 17                  | 13.3                     | 16                  |
| Miscellaneous wood products                                   | 12.7                     | 20                  | 12.8                     | 20                  |
| <b>FURNITURE AND FIXTURES</b>                                 | 63.7                     | 17                  | 61.6                     | 17                  |
| Household furniture   | 43.7                     | 17                  | 42.6                     | 16                  |
| Other furniture and fixtures                                  | 20.0                     | 18                  | 19.0                     | 18                  |
| <b>PAPER AND ALLIED PRODUCTS</b>                              | 119.5                    | 24                  | 119.2                    | 24                  |
| Pulp, paper, and paperboard mills                             | 27.1                     | 11                  | 27.6                     | 11                  |
| Paperboard containers and boxes                               | 46.0                     | 33                  | 45.9                     | 33                  |
| Other paper and allied products                               | 46.4                     | 40                  | 45.7                     | 40                  |
| <b>PRINTING, PUBLISHING, AND ALLIED INDUSTRIES</b>            | 206.3                    | 27                  | 206.5                    | 27                  |
| Newspapers  | 53.2                     | 18                  | 52.3                     | 18                  |
| Periodicals   | 18.4                     | 35                  | 18.5                     | 35                  |
| Books   | 21.5                     | 44                  | 21.0                     | 43                  |
| Commercial printing   | 54.2                     | 26                  | 54.1                     | 26                  |
| Lithographing   | 11.8                     | 29                  | 12.3                     | 29                  |
| Other printing and publishing                                 | 47.2                     | 42                  | 48.3                     | 42                  |
| <b>CHEMICALS AND ALLIED PRODUCTS</b>                          | 135.0                    | 18                  | 128.5                    | 18                  |
| Industrial inorganic chemicals                                | 6.6                      | 8                   | 6.0                      | 8                   |
| Industrial organic chemicals                                  | 34.4                     | 16                  | 32.5                     | 15                  |
| Drugs and medicines   | 40.6                     | 39                  | 39.2                     | 39                  |
| Paints, pigments, and fillers                                 | 10.6                     | 14                  | 10.3                     | 14                  |
| Fertilizers   | 1.9                      | 4                   | 1.7                      | 5                   |
| Vegetable and animal oils and fats                            | 3.3                      | 6                   | 3.0                      | 5                   |
| Other chemicals and allied products                           | 37.6                     | 22                  | 35.8                     | 22                  |
| <b>PRODUCTS OF PETROLEUM AND COAL</b>                         | 12.9                     | 5                   | 13.0                     | 5                   |
| Petroleum refining  | 10.2                     | 5                   | 10.3                     | 5                   |
| Coke and byproducts   | .4                       | 2                   | .4                       | 2                   |
| Other petroleum and coal products                             | 2.3                      | 8                   | 2.3                      | 8                   |

TABLE 10: Employment of Women in Manufacturing Industries-December 1950 and March 1951 -(Cont'd)

| Industry group and industry   | March 1951               |                     | December 1950            |                     |
|---|--------------------------|---------------------|--------------------------|---------------------|
|   | Number<br>(in thousands) | Percent<br>of total | Number<br>(in thousands) | Percent<br>of total |
| <b>RUBBER PRODUCTS</b>  | 76.0                     | 28                  | 73.7                     | 27                  |
| Tires and inner tubes   | 19.8                     | 18                  | 20.1                     | 17                  |
| Rubber footwear   | 15.4                     | 50                  | 14.3                     | 49                  |
| Other rubber products   | 40.8                     | 32                  | 39.3                     | 31                  |
| <b>LEATHER AND LEATHER PRODUCTS</b>   | 194.4                    | 48                  | 183.8                    | 46                  |
| Leather   | 6.3                      | 12                  | 6.4                      | 12                  |
| Footwear (except rubber)  | 137.6                    | 53                  | 130.9                    | 52                  |
| Other leather products  | 50.5                     | 51                  | 46.5                     | 50                  |
| <b>STONE, CLAY, AND GLASS PRODUCTS</b>  | 96.7                     | 18                  | 93.8                     | 17                  |
| Glass and glass products  | 38.6                     | 26                  | 37.2                     | 25                  |
| Cement, hydraulic   | 1.1                      | 3                   | 1.0                      | 2                   |
| Structural clay products  | 8.6                      | 10                  | 8.7                      | 10                  |
| Pottery and related products  | 22.4                     | 37                  | 22.0                     | 36                  |
| Concrete, gypsum, and plaster products  | 4.5                      | 5                   | 4.3                      | 4                   |
| Other stone, clay, glass products   | 21.5                     | 19                  | 20.6                     | 18                  |
| <b>PRIMARY METAL INDUSTRIES</b>   | 74.1                     | 6                   | 72.1                     | 6                   |
| Blast furnaces, steel works, and<br>rolling mills   | 21.2                     | 3                   | 21.7                     | 3                   |
| Iron and steel foundries  | 11.8                     | 4                   | 11.0                     | 4                   |
| Primary smelting and refining of<br>nonferrous metals   | 1.7                      | 3                   | 1.7                      | 3                   |
| Rolling, drawing, and alloying of<br>nonferrous metals  | 12.8                     | 12                  | 12.1                     | 12                  |
| Nonferrous foundries  | 14.5                     | 13                  | 14.0                     | 13                  |
| Other primary metal industries  | 12.1                     | 8                   | 11.6                     | 8                   |
| <b>FABRICATED METAL PRODUCTS (EXCEPT<br/>ORDNANCE, MACHINERY, AND<br/>TRANSPORTATION EQUIPMENT)</b> | 197.1                    | 19                  | 193.0                    | 19                  |
| Tin cans and other tinware  | 13.2                     | 27                  | 14.3                     | 28                  |
| Cutlery, hand tools, and hardware   | 46.8                     | 28                  | 47.1                     | 28                  |
| Heating apparatus (except electric)<br>and plumbers' supplies                                       | 21.8                     | 13                  | 21.1                     | 13                  |
| Fabricated structural metal products  | 14.9                     | 7                   | 14.3                     | 7                   |
| Metal stamping, coating, and engraving  | 42.9                     | 22                  | 40.9                     | 22                  |
| Other fabricated metal products   | 57.5                     | 25                  | 55.3                     | 24                  |



TABLE 10: Employment of Women in Manufacturing Industries-December 1950 and March 1951 - (Cont'd)

| Industry group and industry   | March 1951               |                     | December 1950            |                     |
|---|--------------------------|---------------------|--------------------------|---------------------|
|   | Number<br>(in thousands) | Percent<br>of total | Number<br>(in thousands) | Percent<br>of total |
| <b>MACHINERY (EXCEPT ELECTRICAL)</b>  | 218.9                    | 14                  | 204.1                    | 14                  |
| Engines and turbines  | 10.5                     | 12                  | 9.7                      | 12                  |
| Agricultural machinery and tractors   | 18.1                     | 9                   | 17.0                     | 10                  |
| Construction and mining machinery   | 9.9                      | 9                   | 9.3                      | 8                   |
| Metalworking machinery  | 37.0                     | 13                  | 32.7                     | 13                  |
| Special-industry machinery (except metalworking machinery)                  | 20.5                     | 11                  | 19.3                     | 11                  |
| General industrial machinery  | 31.8                     | 14                  | 28.7                     | 14                  |
| Office and store machines and devices                                       | 28.0                     | 27                  | 26.7                     | 27                  |
| Service-industry and household machines                                     | 36.8                     | 19                  | 33.9                     | 18                  |
| Miscellaneous machinery parts   | 26.3                     | 14                  | 26.8                     | 15                  |
| <b>ELECTRICAL MACHINERY</b>   | 361.5                    | 37                  | 361.0                    | 39                  |
| Electrical generating, transmission, distribution, and industrial apparatus | 103.8                    | 29                  | 100.7                    | 29                  |
| Electrical equipment for vehicles   | 24.4                     | 31                  | 23.8                     | 31                  |
| Communication equipment   | 178.5                    | 51                  | 181.5                    | 51                  |
| Electrical appliances, lamps, and miscellaneous products                    | 54.8                     | 36                  | 55.0                     | 36                  |
| <b>TRANSPORTATION EQUIPMENT</b>   | 164.4                    | 10                  | 140.4                    | 10                  |
| Automobiles   | 95.4                     | 10                  | 86.0                     | 10                  |
| Aircraft and parts  | 60.0                     | 15                  | 45.9                     | 14                  |
| Ship and boat building and repairing  | 3.1                      | 3                   | 2.7                      | 3                   |
| Railroad equipment  | 3.8                      | 6                   | 3.7                      | 6                   |
| Other transportation equipment  | 2.1                      | 16                  | 2.1                      | 16                  |
| <b>INSTRUMENTS AND RELATED PRODUCTS</b>                                     | 102.4                    | 35                  | 98.5                     | 35                  |
| Ophthalmic goods  | 11.9                     | 43                  | 11.2                     | 41                  |
| Photographic apparatus  | 17.2                     | 30                  | 15.8                     | 29                  |
| Watches and clocks  | 18.4                     | 54                  | 18.4                     | 54                  |
| Professional and scientific instruments                                     | 54.9                     | 32                  | 53.1                     | 32                  |
| <b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>                               | 204.0                    | 40                  | 199.5                    | 40                  |
| Jewelry, silverware, and plated ware  | 22.8                     | 40                  | 23.1                     | 40                  |
| Toys and sporting goods   | 35.4                     | 45                  | 33.9                     | 45                  |
| Costume jewelry, buttons, notions   | 35.3                     | 55                  | 33.6                     | 55                  |
| Other miscellaneous manufacturing industries                                | 110.5                    | 36                  | 108.9                    | 36                  |

## EXPLANATORY NOTES

Section A. Scope of the BLS Employment Series - The Bureau of Labor Statistics publishes each month the number of employees in all nonagricultural establishments and in the 8 major industry divisions: mining, contract construction, manufacturing, transportation and public utilities, trade, finance, service, and government. Both all-employee and production-worker employment series are also presented for 21 major manufacturing groups, over 100 separate manufacturing industries, and the durable and nondurable goods subdivisions. Within nonmanufacturing, total employment information is published for over 50 series. Production worker employment is also presented for most of the industry components of the mining division.

Table 9 shows production-worker data for 60 new industries. These series are based on the levels of employment indicated by the 1947 Census of Manufactures and have been carried forward by use of the employment changes reported by the BLS monthly sample of cooperating establishments. These series are not comparable with the data shown in table 3 since the latter are adjusted to bench-mark levels indicated by social insurance agency data through 1947.

Hours and earnings information for manufacturing and selected nonmanufacturing industries are published monthly in the Hours and Earnings Industry Report and in the Monthly Labor Review.

Section B. Definition of Employment - For privately operated establishments in the nonagricultural industries the BLS employment information covers all full- and part-time employees who were on the pay roll, i.e., who worked during, or received pay for, the pay period ending nearest the 15th of the month. For Federal establishments the employment period relates to the pay period ending prior to the first of the month; in State and local governments, during the pay period ending on or just before the last of the month. Proprietors, self-employed persons, domestic servants, unpaid family workers, and members of the armed forces are excluded from the employment information.

Section C. Comparability With Other Employment Data - The Bureau of Labor Statistics employment series differ from the Monthly Report on the Labor Force in the following respects: (1) The BLS series are based on reports from cooperating establishments, while the MRLF is based on employment information obtained from household interviews; (2) persons who worked in more than one establishment during the reporting period would be counted more than once in the BLS series, but not in the MRLF; (3) the BLS information covers all full- and part-time wage and salary workers in private nonagricultural establishments who worked during, or received pay for, 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, while the MRLF series relates to the calendar week which contains the 3th day of the month; (4) proprietors, self-employed, domestic servants, and unpaid family workers are excluded from the BLS but not the MRLF series.

Section D. Methodology - 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 a complete count or "bench mark" be established from which the series may be carried forward. Briefly, the BLS computes employment data 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 employment between bench-mark periods. An

illustration of the estimation procedure used in those industries for which both all-employee and production-worker employment information is published follows: The latest production-worker employment bench mark for a given industry was 50,000 in January. According to the BLS reporting sample, 60 establishments in that industry employed 25,000 workers in January and 26,000 in February, an increase of 4 percent. The February figure of 52,000 would be derived by applying the change for identical establishments reported in the January-February sample to the bench mark:

$$50,000 \times \frac{26,000}{25,000} \text{ (or } 1.04) = 52,000$$

The estimated all-employee level of 65,000 for February is then determined by using that month's sample ratio (.800) of production workers to total employment

$$\frac{52,000}{.800} \text{ (or multiplied by } 1.25) = 65,000.$$

When a new bench mark becomes available, employment data prepared since the last bench mark are reviewed to determine if any adjustment of level is required. In general, the month-to-month changes in employment reflect the fluctuations shown by establishments reporting to the BLS, while the level of employment is determined by the bench mark.

The pay-roll index is obtained by dividing the total weekly pay roll for a given month by the average weekly pay roll in 1939. Aggregate weekly pay rolls for all manufacturing industries combined are derived by multiplying gross average weekly earnings by production-worker employment.

Section E, Sources of Sample Data - Approximately 143,000 cooperating establishments furnish monthly employment and pay-roll schedules, by mail, to the Bureau of Labor Statistics. In addition, the Bureau makes use of data collected by the Interstate Commerce Commission, the Civil Service Commission, and the Bureau of the Census.

APPROXIMATE COVERAGE OF MONTHLY SAMPLE USED IN  
BLS EMPLOYMENT AND PAY-ROLL STATISTICS

| Division or industry                           | : Number of establishments | : <u>Employees</u> |                    |
|--|----------------------------|--------------------|--------------------|
|  |                            | : Number in sample | : Percent of total |
| Mining   | 3,000                      | 467,000            | 50                 |
| Contract construction                          | 19,300                     | 539,000            | 26                 |
| Manufacturing                                  | 39,000                     | 9,092,000          | 64                 |
| Transportation and public utilities:           |                            |                    |                    |
| Interstate railroads (ICC)                     | --                         | 1,329,000          | 98                 |
| Rest of division (BLS)                         | 12,500                     | 1,309,000          | 51                 |
| Trade  | 58,100                     | 1,676,000          | 18                 |
| Finance  | 7,900                      | 367,000            | 20                 |
| Service:                                       |                            |                    |                    |
| Hotels   | 1,300                      | 144,000            | 33                 |
| Laundries and cleaning and dyeing plants       | 1,800                      | 97,000             | 20                 |
| Government:                                    |                            |                    |                    |
| Federal (Civil Service Commission)             | --                         | 1,939,000          | 100                |
| State and local (Bureau of Census - quarterly) | --                         | 2,450,000          | 62                 |

Section F. Sources of Bench-Mark Data - Reports from Unemployment Insurance Agencies presenting (1) employment in firms liable for contributions to State unemployment compensation funds, and (2) tabulations from the Bureau of Old-Age and Survivors Insurance on Employment in firms exempt from State unemployment insurance laws because of their small size comprise the basic sources of bench-mark data for nonfarm employment. Most of the employment data in this report have been adjusted to levels indicated by these sources for 1947. Special bench marks are used for industries not covered by the Social Security program. Bench marks for State and local government are based on data compiled by the Bureau of the Census, while information on Federal Government employment is made available by the U. S. Civil Service Commission. The Interstate Commerce Commission is the source for railroads.

Bench marks for production-worker employment are not available on a regular basis. The production-worker series are, therefore, derived by applying to all-employee bench marks the ratio of production-worker employment to total employment, as determined from the Bureau's industry samples.

Section G. Industrial Classification - In the BLS employment and hours and earnings series, reporting establishments are classified into significant economic groups on the basis of major postwar product or activity as determined from annual sales data. The following references present the industry classification structure currently used in the employment statistics program.

- (1) For manufacturing industries - Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Bureau of the Budget, November 1945;
- (2) For nonmanufacturing industries - Industrial Classification Code, Federal Security Agency Social Security Board, 1942.

Section H. State Employment - State data are collected and prepared in cooperation with various State Agencies as indicated below. The series have been adjusted to recent data made available by State Unemployment Insurance Agencies and the Bureau of Old-Age and Survivors Insurance. Since some States have adjusted to more recent bench-marks than others, and because varying methods of computation are used, the total of the State series differs from the national total. 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.

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

Nonagricultural Employment, by State, 1947-48-49;

Employment in Manufacturing Industries, by State, 1947-48-49.

COOPERATING STATE AGENCIES

Alabama - Department of Industrial Relations, Montgomery 5.  
Arizona - Unemployment Compensation Division, Employment Security Commission,  
Phoenix.  
Arkansas - Employment Security Division, Department of Labor, Little Rock.  
California - Division of Labor Statistics and Research, Department of Industrial  
Relations, San Francisco 1.  
Colorado - Department of Employment Security, Denver 2.  
Connecticut - Employment Security Division, Department of Labor, Hartford 5.  
Delaware - Federal Reserve Bank of Philadelphia, Philadelphia 1, Pennsylvania.  
District of Columbia - U. S. Employment Service for D. C., Washington 25.  
Florida - Unemployment Compensation Division, Industrial Commission, Tallahassee.  
Georgia - Employment Security Agency, Department of Labor, Atlanta 3.  
Idaho - Employment Security Agency, Boise.  
Illinois - Division of Placement and Unemployment Compensation, Department of Labor,  
Chicago 54.  
Indiana - Employment Security Division, Indianapolis 9.  
Iowa - Employment Security Commission, Des Moines 8.  
Kansas - Employment Security Division, State Labor Department, Topeka.  
Kentucky - Bureau of Employment Security, Department of Economic Security, Frankfort.  
Louisiana - Division of Employment Security, Department of Labor, Baton Rouge 4.  
Maine - Employment Security Commission, Augusta.  
Maryland - Department of Employment Security, Baltimore 1.  
Massachusetts - Division of Statistics, Department of Labor and Industries,  
Boston 10.  
Michigan - Unemployment Compensation Commission, Detroit 2.  
Minnesota - Division of Employment and Security, St. Paul 1.  
Mississippi - Employment Security Commission, Jackson.  
Missouri - Division of Employment Security, Department of Labor and Industrial  
Relations, Jefferson City.  
Montana - Unemployment Compensation Commission, Helena.  
Nebraska - Division of Employment Security, Department of Labor, Lincoln 1.  
Nevada - Employment Security Department, Carson City.  
New Hampshire - Division of Employment Security, Department of Labor, Concord.  
New Jersey - Department of Labor and Industry, Trenton 8.  
New Mexico - Employment Security Commission, Albuquerque.  
New York - Bureau of Research and Statistics, Division of Placement and Unemployment  
Insurance, New York Department of Labor, 1440 Broadway, New York 18.  
North Carolina - Department of Labor, Raleigh.  
North Dakota - Unemployment Compensation Division, Bismarck.  
Ohio - Bureau of Unemployment Compensation, Columbus 16.  
Oklahoma - Employment Security Commission, Oklahoma City 2.  
Oregon - Unemployment Compensation Commission, Salem.  
Pennsylvania - Federal Reserve Bank of Philadelphia, Philadelphia 1 (mfg.); Bureau of  
Research and Information, Department of Labor and Industry,  
Harrisburg (nonmfg.).  
Rhode Island - Department of Labor, Providence 2.  
South Carolina - Employment Security Commission, Columbia 10.  
South Dakota - Employment Security Department, Aberdeen.  
Tennessee - Department of Employment Security, Nashville 3.  
Texas - Employment Commission, Austin 19.  
Utah - Department of Employment Security, Industrial Commission, Salt Lake City 13.  
Vermont - Unemployment Compensation Commission, Montpelier.  
Virginia - Division of Research and Statistics, Department of Labor and Industry,  
Richmond 19.

Washington - Employment Security Department, Olympia.  
West Virginia - Department of Employment Security, Charleston.  
Wisconsin - Industrial Commission, Madison 3.  
Wyoming - Employment Security Commission, Casper.

Section I. Area Employment - Figures on area employment are prepared by cooperating State agencies. The methods of adjusting to bench marks and of making computations used to prepare State employment are also applied in preparing area information. Hence, the appropriate qualifications should also be observed. For a number of areas, data in greater industry detail and for earlier periods can be obtained by writing directly to the appropriate State agency.

#### GLOSSARY

All Employees or Wage and Salary Workers - In addition to production and related workers as defined elsewhere, 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). 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).

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 from contract construction and included in the employment for such establishments.

Defense Agencies - Covers civilian employees of the Department of Defense (Secretary of Defense: Army, Air Force, and Navy), National Advisory Committee for Aeronautics, The Panama Canal, Philippine Alien Property Administration, Philippine War Damage Commission, Selective Service System, National Security Resources Board, National Security Council.

Durable Goods - The durable goods subdivision includes the following major groups: ordnance and accessories; lumber and wood products (except furniture); furniture and fixtures; stone, clay, and glass products; primary metal industries; fabricated metal products (except ordnance, machinery, and transportation equipment); machinery (except electrical); electrical machinery; transportation equipment; instruments and related products; and miscellaneous manufacturing industries.

Federal Government - Executive Branch - Includes Government corporations (including Federal Reserve Banks and mixed-ownership banks of the Farm Credit Administration) and other activities performed by Government personnel in establishments such as navy yards, arsenals, hospitals, and on force-account construction. Data, which are based mainly on reports to the Civil Service Commission, are adjusted to maintain continuity of coverage and definition with information for former periods.

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

Government - Covers Federal, State, and local governmental establishments performing legislative, executive, and judicial functions, as well as all government-operated establishments and institutions (arsenals, navy yards, hospitals, etc.) government corporations, and government force-account construction. Fourth-class postmasters are excluded from table 2, because they presumably have other major jobs; they are included, however, in table 6. State and local government employment excludes as nominal employees paid volunteer firemen, employees hired to conduct elections, and elected officials of small local governments.

Indexes of Manufacturing Production-Worker Employment - Number of production workers expressed as a percentage of the average employment in 1939.

Indexes of Manufacturing Production-Worker Weekly Pay Rolls - Production-worker weekly pay rolls expressed as a percentage of the average weekly pay roll for 1939.

Manufacturing - Covers only privately-operated establishments; governmental manufacturing operations such as arsenals and navy yards are excluded from manufacturing and included with government.

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.

Nondurable Goods - The nondurable goods subdivision includes the following major groups: food and kindred products; tobacco manufactures; textile-mill products; apparel and other finished textile products; paper and allied products; printing, publishing, and allied industries; chemicals and allied products; products of petroleum and coal; rubber products; and leather and leather products.

Pay Rolls - Private pay rolls represent weekly pay rolls of both full- and part-time production and related workers who worked during, 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; also, includes pay for sick leave, holidays, and vacations taken. Excludes cash payments for vacations not taken, retractive pay not earned during period reported, value of payments in kind, and bonuses, unless earned and paid regularly each pay period. Federal civilian pay rolls 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.

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

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.

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 operated establishments are included under government.

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.

Labor - D. C.