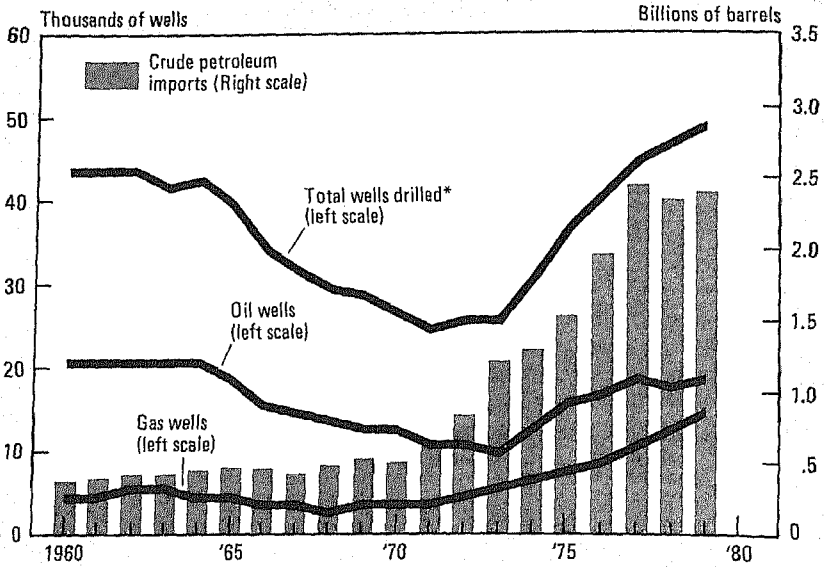


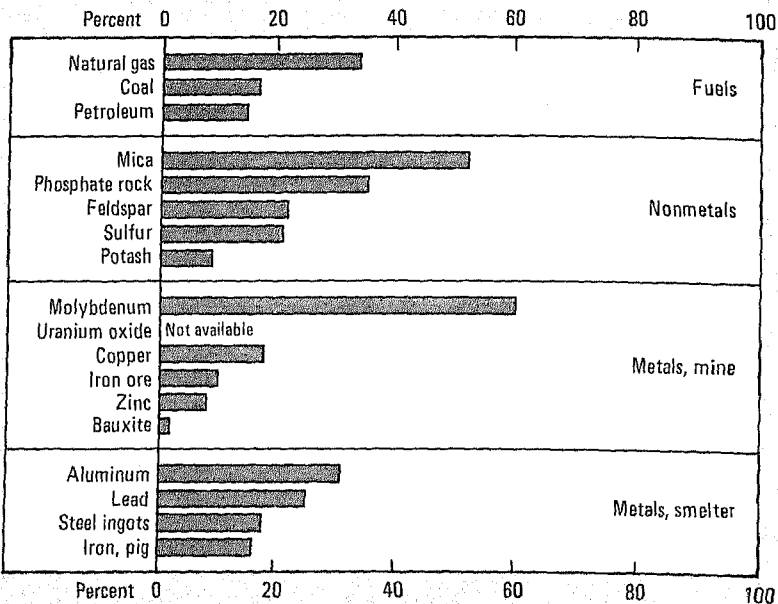
Figure 27.1

**Crude Petroleum and Natural Gas — Wells Drilled and Imports: 1960 to 1979**

\*Includes dry holes.

Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1352 and 1355.

Figure 27.2

**U.S. Mineral Production as Percent of World Total: 1978**

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1345.

# Mining and Mineral Products

This section presents data relating to mineral industries and their products, general summary measures of production and employment, and more detailed data on production, prices, imports and exports, consumption, and distribution for specific industries and products. Data on mining and mineral products may also be found in sections 29 and 33 of this *Abstract*.

"Mining" comprises the extraction of minerals occurring naturally (coal, ores, crude petroleum, natural gas) and quarrying, well operation, milling, and other preparation customarily done at the mine site or as a part of mining activity. (Mineral preparation plants are usually operated together with mines or quarries.) Exploration for minerals is included as is the development of mineral properties.

The principal governmental sources of these data are the three-volume *Minerals Yearbook*, published by the Bureau of Mines, Department of the Interior, and various monthly and annual publications of the Energy Information Administration, Department of Energy. In addition, the Bureau of the Census conducts a census of mineral industries every 5 years. Non-government sources include the *Annual Statistical Report of the American Iron and Steel Institute*, Washington, D.C.; *Metals Week* and the monthly *Engineering and Mining Journal*, issued by the McGraw-Hill Publishing Co., New York; *The Iron Age*, issued weekly by the Chilton Co., Philadelphia; and the *Joint Association Survey of the U.S. Oil and Gas Industry*, conducted by the American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association.

Mineral statistics, with principal emphasis on commodity detail, have been collected by the Geological Survey or by the Bureau of Mines since 1880. Current data in Bureau of Mines publications include quantity and value of nonfuel minerals produced, sold or used by producers, or shipped; quantity of minerals stocked; crude materials treated and prepared minerals recovered; and consumption of mineral raw materials. The U.S. Mine Safety and Health Administration also collects and publishes data on workhours, employment, and accidents and injuries in the mineral industries, except petroleum and natural gas. In October 1977, fuel data collection activities of the Bureau of Mines were transferred to the Energy Information Administration.

Censuses of mineral industries have been conducted by the Bureau of the Census at various intervals since 1840. Beginning with the 1967 census, legislation provides for a census to be conducted every fifth year for years ending in "2" and "7." The censuses provide, for the various types of mineral establishments, information on operating costs, capital expenditures, labor, equipment, and energy requirements in relation to their value of shipments and other receipts. Commodity statistics on many manufactured mineral products are also collected by the Bureau at monthly, quarterly, or annual intervals and issued in its *Current Industrial Reports* series. Included in this series, beginning in 1973, is the *Annual Survey of Oil and Gas*.

In general, figures shown in the individual commodity tables include data for outlying areas, and may therefore not agree with summary table 1339. Except for crude petroleum, the export and import figures include foreign trade passing through the customs districts of United States and Puerto Rico, but exclude shipments between U.S. territories and the customs districts.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

## No. 1327. SUMMARY OF MINERAL OPERATIONS: 1958 TO 1977

[Represents mineral operations only. Beginning 1967, excludes single unit establishments without paid employees. See also *Historical Statistics, Colonial Times to 1970*, series M 1-11]

| ITEM   | Unit          | 1958   | 1963   | 1967   | 1972   | 1977   |
|--|---------------|--------|--------|--------|--------|--------|
| Establishments.....  | Number.....   | 36,392 | 38,651 | 28,579 | 25,269 | 31,359 |
| With 20 or more employees.....                                 | Number.....   | 6,045  | 5,499  | 5,682  | 5,312  | 6,632  |
| Including all operations in manufactures.....                  | Number.....   | 37,966 | 40,532 | 29,688 | 26,178 | 31,967 |
| Excluding oil and gas extraction.....                          | Number.....   | 19,444 | 19,290 | 13,330 | 11,680 | 13,520 |
| Employees, total.....  | 1,000.....    | 734    | 616    | 567    | 595    | 799    |
| Production workers <sup>1</sup> .....                          | 1,000.....    | 565    | 482    | 433    | 443    | 593    |
| Percent of all employees.....                                  | Percent.....  | 77.0   | 78.2   | 76.4   | 74.5   | 74.2   |
| All other.....   | 1,000.....    | 169    | 134    | 134    | 152    | 206    |
| Manhours, production workers <sup>1</sup> .....                | Million.....  | 1,081  | 973    | 892    | 909    | 1,186  |
| Manhours per production workers.....                           | 1,000.....    | 1.9    | 2.0    | 2.1    | 2.1    | 2.0    |
| Payroll, total.....  | Mil. dol..... | 3,749  | 3,743  | 4,187  | 6,226  | 13,167 |
| Wages, production workers <sup>1</sup> .....                   | Mil. dol..... | 2,623  | 2,680  | 2,888  | 4,250  | 9,082  |
| Salaries, all other employees.....                             | Mil. dol..... | 1,126  | 1,063  | 1,299  | 1,976  | 4,085  |
| Cost of supplies, etc., and purchased machinery installed..... | Mil. dol..... | 7,521  | 8,974  | 10,576 | 14,884 | 46,079 |
| Value added in mining <sup>2</sup> .....                       | Mil. dol..... | 13,385 | 15,910 | 19,330 | 26,471 | 67,890 |
| Percent of value of shipments and receipts.....                | Percent.....  | 81.8   | 84.5   | 84.8   | 72.9   | 70.5   |
| Metal mining.....  | Mil. dol..... | 1,180  | 1,418  | 1,557  | 2,382  | 3,504  |
| Coal mining.....   | Mil. dol..... | 1,780  | 1,727  | 2,091  | 3,754  | 11,143 |
| Oil and gas extraction.....                                    | Mil. dol..... | 9,033  | 11,020 | 13,394 | 17,612 | 48,587 |
| Nonmetallic minerals mining.....                               | Mil. dol..... | 1,392  | 1,745  | 2,288  | 2,723  | 4,656  |
| Value of shipments and receipts.....                           | Mil. dol..... | 16,373 | 18,804 | 22,784 | 36,319 | 96,375 |
| Capital expenditures.....                                      | Mil. dol..... | 2,804  | 3,264  | 4,058  | 5,036  | 17,718 |

<sup>1</sup> See footnote 5, table 1338.   <sup>2</sup> Excludes anthracite.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1972*, and 1977.

## No. 1328. NATIONAL INCOME ORIGINATING IN MINING: 1960 TO 1979

[In billions of dollars, except percent. Data are without capital consumption adjustment. For definition of national income, see text, p. 435. See *Historical Statistics, Colonial Times to 1970*, series F 228, for single-year figures prior to minor revisions issued in 1976. NA=Not available.]

| TYPE OF MINING                        | 1960 | 1965 | 1970 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Total mining.....                     | 5.6  | 6.0  | 7.8  | 8.7  | 10.1 | 15.5 | 18.1 | 20.3 | 22.4 | 26.5 | 32.2 |
| Percent of total national income..... | 1.4  | 1.7  | 1.0  | .9   | .9   | 1.4  | 1.5  | 1.5  | 1.5  | 1.5  | 1.7  |
| Metal mining.....                     | .8   | .9   | 1.2  | 1.1  | 1.5  | 1.6  | 1.6  | 1.9  | 2.0  | 2.3  | (NA) |
| Coal mining.....                      | 1.3  | 1.4  | 2.2  | 2.5  | 2.9  | 5.2  | 6.2  | 5.9  | 6.6  | 5.9  | (NA) |
| Oil and gas extraction.....           | 2.6  | 2.7  | 3.1  | 3.6  | 3.9  | 6.7  | 8.1  | 10.3 | 11.4 | 14.3 | (NA) |
| Nonmetallic minerals, exc. fuels..... | .9   | 1.1  | 1.3  | 1.6  | 1.9  | 2.1  | 2.2  | 2.3  | 2.5  | 3.0  | (NA) |

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-74*, and *Survey of Current Business*, July issues.

## No. 1329. INDEX OF PHYSICAL VOLUME OF MINERAL PRODUCTION: 1950 TO 1978

[1967=100. Excludes Puerto Rico and outlying areas. See also *Historical Statistics, Colonial Times to 1970*, series M 54-67]

| MINERAL                      | 1950  | 1955  | 1960  | 1965  | 1970  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Minerals, total.....         | 65.3  | 75.4  | 79.1  | 93.5  | 112.1 | 112.7 | 114.1 | 110.4 | 103.8 | 105.5 | (NA)  | (NA)  |
| Fuels <sup>1</sup> .....     | 66.4  | 74.8  | 77.5  | 89.2  | 111.7 | 111.2 | 109.3 | 105.4 | 102.3 | 101.4 | 104.2 | 104.2 |
| Coal.....                    | 99.2  | 86.9  | 76.9  | 93.3  | 108.5 | 106.7 | 106.0 | 108.0 | 115.9 | 121.2 | 123.4 | 118.6 |
| Crude oil <sup>2</sup> ..... | 57.8  | 74.1  | 77.9  | 88.2  | 110.5 | 109.4 | 107.1 | 102.4 | 97.9  | 95.3  | 96.5  | 100.5 |
| Natural gas (dry).....       | 34.6  | 51.8  | 70.3  | 88.3  | 120.6 | 124.0 | 124.6 | 118.9 | 110.7 | 109.8 | 110.2 | 109.9 |
| Metals.....                  | 105.3 | 109.8 | 104.4 | 114.5 | 135.8 | 127.5 | 136.8 | 130.4 | 117.5 | 129.8 | 118.0 |       |
| Ferrous.....                 | 106.5 | 124.0 | 100.0 | 100.9 | 109.3 | 98.4  | 118.0 | 108.3 | 96.2  | 99.8  | 78.8  |       |
| Nonferrous.....              | 100.1 | 95.0  | 108.9 | 125.6 | 157.4 | 151.1 | 153.6 | 148.4 | 134.8 | 154.0 | 149.8 |       |
| Base.....                    | 106.8 | 103.9 | 104.9 | 132.7 | 167.3 | 162.8 | 166.5 | 159.3 | 142.7 | 158.0 | 148.5 |       |
| Monetary.....                | 145.3 | 117.8 | 102.0 | 115.0 | 123.9 | 102.7 | 94.5  | 86.9  | 86.2  | 85.1  | 92.5  | (NA)  |
| Other.....                   | 59.3  | 64.7  | 123.1 | 89.8  | 119.5 | 112.6 | 114.8 | 122.8 | 119.2 | 175.2 | 195.8 |       |
| Nonmetals.....               | 46.1  | 65.6  | 76.1  | 97.6  | 103.4 | 111.0 | 119.0 | 117.2 | 102.8 | 108.6 | 114.9 |       |
| Construction.....            | 44.8  | 67.2  | 79.6  | 100.6 | 103.1 | 111.7 | 120.8 | 115.2 | 99.5  | 105.0 | 111.4 |       |
| Chemical.....                | 43.6  | 56.4  | 62.3  | 87.8  | 103.1 | 108.7 | 112.2 | 121.3 | 112.2 | 117.3 | 123.4 |       |
| Other.....                   | 70.2  | 79.4  | 81.7  | 97.2  | 109.1 | 112.2 | 122.7 | 128.6 | 109.4 | 123.4 | 127.1 |       |

NA Not available.

<sup>1</sup> Source: Beginning 1977, U.S. Energy Information Administration, *Energy Data Reports*, annual.

<sup>2</sup> Includes lease condensate and natural gas plant liquids.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*.

## NO. 1330. MINING AND MINERAL PRODUCTION INDEXES: 1960 TO 1979

[1967 = 100. See also *Historical Statistics, Colonial Times to 1970*, series M 68-71]

| MINING AND MINERALS            | 1960  | 1965  | 1970  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979  |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Mining.....                    | 80.3  | 93.2  | 112.2 | 113.1 | 114.7 | 115.3 | 112.8 | 114.2 | 118.2 | 124.0 | 125.5 |
| Coal.....                      | 79.2  | 93.8  | 108.0 | 106.0 | 104.8 | 106.4 | 113.4 | 117.2 | 121.9 | 114.7 | 135.6 |
| Anthracite.....                | 165.0 | 120.7 | 79.2  | 55.3  | 54.9  | 50.9  | 50.1  | 51.9  | 50.2  | 53.4  | 46.7  |
| Bituminous.....                | 75.6  | 92.6  | 109.2 | 108.1 | 106.8 | 108.7 | 116.0 | 119.9 | 124.9 | 117.2 | 139.3 |
| Oil and gas extraction.....    | 77.9  | 90.5  | 111.6 | 113.6 | 113.7 | 114.4 | 113.3 | 112.0 | 118.0 | 124.6 | 121.7 |
| Crude oil and natural gas..... | 77.5  | 88.4  | 111.6 | 110.6 | 108.4 | 103.6 | 97.9  | 95.4  | 95.7  | 99.1  | 97.3  |
| Crude oil.....                 | 79.9  | 88.7  | 109.3 | 107.3 | 104.4 | 99.7  | 94.9  | 92.2  | 92.3  | 96.9  | 94.6  |
| Natural gas.....               | 70.5  | 89.2  | 121.3 | 125.3 | 125.9 | 120.7 | 111.0 | 109.6 | 110.9 | 108.6 | 109.2 |
| Natural gas liquids.....       | 66.5  | 86.3  | 117.5 | 122.2 | 122.8 | 119.3 | 115.3 | 114.5 | 116.2 | 113.2 | 110.9 |
| Oil and gas drilling.....      | 90.2  | 109.1 | 108.3 | 129.6 | 146.5 | 189.3 | 222.8 | 230.1 | 279.3 | 315.2 | 303.8 |
| Metal mining.....              | 111.5 | 114.8 | 131.9 | 118.8 | 130.2 | 125.6 | 115.8 | 122.8 | 105.5 | 121.0 | 127.0 |
| Iron ore.....                  | 93.6  | 98.5  | 112.1 | 95.1  | 112.6 | 110.4 | 105.4 | 105.4 | 74.3  | 110.0 | 117.1 |
| Nonferrous ores.....           | 121.4 | 123.6 | 149.6 | 139.9 | 146.0 | 139.2 | 125.1 | 138.4 | 133.3 | 130.8 | 135.7 |
| Copper ore.....                | 112.5 | 140.7 | 179.0 | 171.0 | 179.8 | 167.0 | 147.0 | 167.2 | 158.1 | 155.6 | 165.6 |
| Lead and zinc ores.....        | 87.7  | 108.2 | 122.1 | 117.3 | 113.9 | 120.2 | 111.0 | 109.5 | 103.3 | 89.8  | 83.9  |
| Primary metals.....            | 72.4  | 102.1 | 106.6 | 112.1 | 126.7 | 123.1 | 96.4  | 109.7 | 111.1 | 119.9 | 121.3 |
| Nonferrous metals.....         | 61.8  | 95.0  | 109.9 | 121.1 | 134.5 | 129.0 | 97.5  | 118.5 | 124.1 | 131.9 | 135.8 |
| Copper.....                    | 122.3 | 151.5 | 162.7 | 160.7 | 160.5 | 139.9 | 123.0 | 138.2 | 128.0 | 135.8 | 145.9 |
| Aluminum.....                  | 61.1  | 84.2  | 121.6 | 125.8 | 138.6 | 150.1 | 118.8 | 129.7 | 138.8 | 147.0 | 153.6 |
| Iron and steel.....            | 77.7  | 105.2 | 104.7 | 107.1 | 123.2 | 119.8 | 95.8  | 104.8 | 103.8 | 113.2 | 113.2 |
| Stone and earth minerals.....  | 74.9  | 95.1  | 106.2 | 113.2 | 119.2 | 121.5 | 107.0 | 118.3 | 124.9 | 131.2 | 137.6 |

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 1331. VALUE OF MINERAL PRODUCTION, IMPORTS, AND EXPORTS: 1950 TO 1977

[In billions of dollars. Includes Puerto Rico and U.S. outlying areas. 1950 production data exclude Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series M 13-14, M 20, M 30, and M 38-53]

| MINERAL <sup>1</sup>     | 1950 | 1955 | 1960 | 1965 | 1970 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Current dollars:         |      |      |      |      |      |      |      |      |      |      |      |
| Production, total.....   | 11.9 | 15.9 | 18.0 | 21.5 | 29.8 | 32.2 | 36.8 | 55.1 | 62.3 | 69.2 | 77.1 |
| Fuels <sup>2</sup> ..... | 8.7  | 10.8 | 12.1 | 14.0 | 20.1 | 22.1 | 25.0 | 40.9 | 47.5 | 52.5 | 59.6 |
| Metals.....              | 1.4  | 2.1  | 2.0  | 2.5  | 3.9  | 3.6  | 4.4  | 5.5  | 5.2  | 6.1  | 5.2  |
| Nonmetals.....           | 1.8  | 3.1  | 3.9  | 5.0  | 5.8  | 6.5  | 7.4  | 8.7  | 9.6  | 10.6 | 11.7 |
| Imports, total.....      | (NA) | 3.0  | 3.3  | 2.6  | 3.4  | 4.5  | 6.7  | 19.5 | 22.7 | 30.5 | (NA) |
| Fuels <sup>2</sup> ..... | (NA) | 1.0  | 1.5  | 1.3  | 1.6  | 2.9  | 4.8  | 16.5 | 19.9 | 27.7 | (NA) |
| Metals.....              | 1.0  | 1.6  | 1.5  | 1.0  | 1.2  | 1.0  | 1.1  | 1.8  | 1.6  | 1.6  | 1.5  |
| Nonmetals.....           | .3   | .3   | .3   | .4   | .6   | .8   | .8   | 1.2  | 1.2  | 1.2  | 1.5  |
| Exports, total.....      | (NA) | 1.7  | 1.9  | .8   | 1.6  | 1.5  | 1.7  | 3.5  | 4.7  | 4.3  | (NA) |
| Fuels <sup>2</sup> ..... | (NA) | 1.1  | .8   | .5   | 1.1  | 1.1  | 1.2  | 2.7  | 3.6  | 3.3  | (NA) |
| Metals.....              | .2   | .5   | .9   | .2   | .3   | .2   | .3   | .4   | .4   | .4   | .5   |
| Nonmetals.....           | .1   | .1   | .1   | .2   | .2   | .2   | .3   | .5   | .7   | .6   | .7   |
| Constant (1957) dollars: |      |      |      |      |      |      |      |      |      |      |      |
| Production, total.....   | 13.5 | 17.7 | 18.7 | 22.2 | 26.7 | 25.7 | 27.0 | 26.1 | 24.6 | 24.8 | (NA) |
| Fuels <sup>2</sup> ..... | 10.0 | 12.1 | 12.5 | 14.5 | 18.1 | 17.1 | 17.7 | 17.0 | 16.6 | 16.4 | (NA) |
| Metals.....              | 1.8  | 2.4  | 2.3  | 2.6  | 3.1  | 2.9  | 3.1  | 3.0  | 2.6  | 2.9  | 2.7  |
| Nonmetals.....           | 1.8  | 3.3  | 3.8  | 5.1  | 5.5  | 5.8  | 6.2  | 6.1  | 5.4  | 5.7  | 6.0  |

NA Not available. <sup>1</sup> Through 1965, uranium included with metals; thereafter, with fuels. <sup>2</sup> Source: Beginning 1977, U.S. Energy Information Administration, *Energy Data Reports*, annual.Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*.

## NO. 1332. PER CAPITA CONSUMPTION IN CONSTANT (1972) DOLLARS OF RAW MATERIALS: 1950 TO 1977

[In dollars]

| ITEM                               | 1950  | 1955  | 1960  | 1965  | 1970  | 1975  | 1976  | 1977  |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| All raw materials.....             | 408.7 | 411.8 | 394.5 | 417.5 | 435.7 | 423.6 | 451.7 | 453.8 |
| Broad use classes:                 |       |       |       |       |       |       |       |       |
| Food.....                          | 200.7 | 204.1 | 199.1 | 201.9 | 209.8 | 205.5 | 214.5 | 211.5 |
| Energy materials.....              | 95.5  | 98.4  | 97.6  | 105.0 | 122.2 | 125.5 | 133.7 | 136.0 |
| Physical structure materials.....  | 112.4 | 109.3 | 97.8  | 110.7 | 103.7 | 92.5  | 103.5 | 106.3 |
| Broad source classes:              |       |       |       |       |       |       |       |       |
| Agricultural materials.....        | 234.7 | 231.5 | 221.2 | 220.4 | 223.9 | 217.8 | 226.5 | 223.0 |
| Minerals.....                      | 124.5 | 134.3 | 132.3 | 152.4 | 169.5 | 168.0 | 183.5 | 188.7 |
| Forest products.....               | 38.2  | 35.3  | 30.0  | 31.6  | 28.6  | 24.2  | 28.0  | 29.6  |
| Fishery and wildlife products..... | 6.8   | 6.1   | 6.0   | 9.4   | 9.1   | 7.6   | 8.8   | 8.7   |
| Direct energy.....                 | 2.5   | 2.6   | 3.1   | 3.8   | 4.5   | 5.3   | 5.0   | 3.8   |

Source: U.S. Bureau of the Census and U.S. Bureau of Mines: *Raw Materials in the United States, Economy 1900-1977*, Technical Paper 47.

**NO. 1333. ANNUAL AVERAGE VALUE OF RAW MATERIALS IN CONSTANT (1972) DOLLARS, BY  
MAJOR GROUPS: 1950 TO 1977**

[In millions of 1972 dollars. Estimates cover over 95 percent of U.S. production and consumption]

| ITEM AND PERIOD             | All raw materials <sup>1</sup> | Total minerals <sup>2</sup> | Fuels  | Metallic ores | Non-metallic ores | Agricultural materials | Forest products | Fish and wild-life |
|-----------------------------|--------------------------------|-----------------------------|--------|---------------|-------------------|------------------------|-----------------|--------------------|
| Production: 1950-1954.....  | 60,376                         | 18,272                      | 13,814 | 2,286         | 677               | 35,468                 | 5,328           | 911                |
| 1955-1959.....              | 66,382                         | 20,586                      | 15,303 | 2,363         | 825               | 39,168                 | 5,247           | 893                |
| 1960-1964.....              | 71,085                         | 22,396                      | 16,367 | 2,551         | 979               | 42,024                 | 5,185           | 869                |
| 1965-1969.....              | 79,557                         | 26,979                      | 19,879 | 2,822         | 1,363             | 45,378                 | 5,512           | 874                |
| 1970-1974.....              | 85,383                         | 29,860                      | 22,012 | 3,188         | 1,511             | 48,907                 | 5,559           | 846                |
| 1975-1977.....              | 89,486                         | 28,266                      | 20,776 | 2,897         | 1,652             | 53,913                 | 5,388           | 889                |
| Consumption: 1950-1954..... | 63,680                         | 19,858                      | 13,985 | 3,631         | 752               | 36,265                 | 5,710           | 1,350              |
| 1955-1959.....              | 69,545                         | 22,988                      | 16,155 | 3,720         | 914               | 38,995                 | 5,673           | 1,401              |
| 1960-1964.....              | 74,813                         | 25,643                      | 18,288 | 3,678         | 1,066             | 41,338                 | 5,622           | 1,598              |
| 1965-1969.....              | 85,382                         | 32,150                      | 22,487 | 5,099         | 1,511             | 44,450                 | 6,068           | 1,901              |
| 1970-1974.....              | 92,959                         | 37,556                      | 27,220 | 5,338         | 1,722             | 46,436                 | 6,141           | 1,803              |
| 1975-1977.....              | 95,345                         | 38,752                      | 28,732 | 5,055         | 1,898             | 47,858                 | 5,919           | 1,806              |

<sup>1</sup> Includes items not shown separately.

<sup>2</sup> Includes construction material.

**NO. 1334. PRICE INDEXES OF ALL WHOLESALE COMMODITIES, FINISHED COMMODITIES, AND RAW MATERIALS: 1950 TO 1977**

[1972=100]

| ITEM                              | 1950-1954 | 1955-1959 | 1960-1964 | 1965-1969 | 1970-1974 | 1970 | 1975 | 1977 |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------|------|------|------|
| All wholesale commodities.....    | 73        | 77        | 80        | 85        | 107       | 93   | 147  | 163  |
| Finished commodities.....         | 69        | 74        | 78        | 85        | 103       | 94   | 129  | 142  |
| All raw materials.....            | 75        | 74        | 75        | 82        | 113       | 89   | 168  | 197  |
| Foods.....                        | 78        | 70        | 69        | 80        | 109       | 88   | 137  | 153  |
| Energy materials.....             | 70        | 79        | 80        | 82        | 120       | 91   | 231  | 284  |
| Physical structure materials..... | 75        | 79        | 79        | 84        | 111       | 90   | 162  | 188  |
| Minerals.....                     | 69        | 78        | 80        | 84        | 117       | 93   | 211  | 255  |
| Agricultural materials.....       | 81        | 72        | 72        | 81        | 110       | 88   | 138  | 154  |
| Forest products.....              | 66        | 69        | 66        | 74        | 107       | 78   | 152  | 191  |

Source of tables 1333 and 1334: U.S. Bureau of the Census and U.S. Bureau of Mines: *Raw Materials in the United States Economy 1900-1977*, Technical Paper 47.

**NO. 1335. SELECTED MINERAL PRODUCTS—AVERAGE PRICES: 1960 TO 1979**

[Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1970*, series M 96, M 139, M 209, M 248, and M 262, for bituminous coal, crude petroleum, iron ore, lead, and aluminum, respectively]

| YEARLY AVERAGE OR YEAR | Iron ore pellets <sup>1</sup><br>(cents/l. ton, unit, iron) | Copper, electrolytic <sup>2</sup><br>(cents per lb.) | Gold (dol./line oz.) | Silver (dol./line oz.) | Lead (New York) (cents per lb.) | Tin (New York) <sup>3</sup> (cents per lb.) | Zinc <sup>4</sup> (cents per lb.) | Aluminum, delivered <sup>5</sup> (cents per lb.) | Sulfur, crude <sup>6</sup> (dol./long ton) | Bituminous coal <sup>7</sup> (dol./short ton) | Crude petroleum <sup>8</sup> (dol./bbl.) |
|------------------------|---|--|----------------------|------------------------|---------------------------------|---|-----------------------------------|--|--|---|--|
| 1960.....              | (NA)  | 32.5   | 35.0                 | .91                    | 11.9                            | 101.4                                       | 12.9                              | 26.0   | 23.13                                      | 4.69  | 2.68                                     |
| 1965.....              | 25.2  | 35.4   | 35.0                 | 1.29                   | 16.0                            | 178.2                                       | 14.5                              | 24.5   | 22.47                                      | 4.44  | 2.86                                     |
| 1970.....              | 26.6  | 58.2   | 36.4                 | 1.77                   | 15.6                            | 174.2                                       | 15.3                              | 28.7   | 23.14                                      | 6.26  | 3.18                                     |
| 1971.....              | 28.0  | 52.0   | 41.2                 | 1.55                   | 13.9                            | 167.3                                       | 16.1                              | 29.0   | 17.47                                      | 7.07  | 3.39                                     |
| 1972.....              | 28.0  | 51.2   | 58.6                 | 1.69                   | 15.0                            | 177.5                                       | 17.8                              | 26.3   | 17.03                                      | 7.66  | 3.39                                     |
| 1973.....              | 29.4  | 59.5   | 97.8                 | 2.56                   | 16.3                            | 227.6                                       | 20.7                              | 25.3   | 17.84                                      | 8.53  | 3.69                                     |
| 1974.....              | 40.6  | 77.3   | 159.7                | 4.71                   | 22.5                            | 396.3                                       | 35.9                              | 34.1   | 28.88                                      | 15.75   | 6.74                                     |
| 1975.....              | 47.2  | 64.2   | 161.5                | 4.42                   | 21.5                            | 339.8                                       | 39.0                              | 39.8   | 45.63                                      | 19.23   | 7.67                                     |
| 1976.....              | 53.1  | 69.6   | 125.3                | 4.35                   | 23.1                            | 379.8                                       | 37.0                              | 44.6   | 46.45                                      | 19.43   | 8.54                                     |
| 1977.....              | 55.5  | 68.8   | 148.3                | 4.62                   | 30.7                            | 534.6                                       | 34.4                              | 51.6   | 45.09                                      | <sup>9</sup> 19.82                            | <sup>9</sup> 8.17                        |
| 1978.....              | 58.6  | 66.5   | 193.6                | 5.40                   | 33.7                            | 629.6                                       | 31.0                              | 54.6   | 45.89                                      | <sup>9</sup> 21.78                            | <sup>9</sup> 9.00                        |
| 1979, prel.....        | 65.3  | 93.3   | 307.5                | 11.09                  | 52.6                            | 753.9                                       | 37.3                              | 59.4   | 56.64                                      | <sup>9</sup> 23.50                            | <sup>9</sup> 12.64                       |

NA. Not available. <sup>1</sup> Lower Great Lakes ports. Price as of end of year per long ton unit of contained iron, natural, delivered rail or vessel; Lake Superior ore. <sup>2</sup> Domestic market. <sup>3</sup> Straits line through 1975; thereafter, composite price. <sup>4</sup> Prime western. Beginning 1971, delivered price. <sup>5</sup> 99.5 percent primary aluminum ingot. <sup>6</sup> F.O.B. works. <sup>7</sup> Average value at mine, includes Alaska. <sup>8</sup> Average value at well. Beginning 1960, includes Alaska, and Hawaii. <sup>9</sup> See footnote 1, table 1329.

Source: 1960-1974 compiled from *Metals Week* (copyright); *Producer Prices and Price Indexes* (U.S. Bureau of Labor Statistics), *Minerals Yearbook and Commodity Data Summaries* (U.S. Bureau of Mines); thereafter, except as noted, *Minerals Yearbook*.

# No. 1336. U.S. NONFUEL MINERAL RESERVES, 1960 TO 1980 AND CUMULATIVE PRODUCTION, 1960 TO 1979

[In thousands of metric tons unless otherwise specified. Estimates of material that can be economically extracted or produced for the United States. Economic recovery is implicit in the term reserve]

| MINERAL COMMODITY                            | RESERVES            |            |                     | CUMULATIVE PRODUCTION |           |
|--|---------------------|------------|---------------------|-----------------------|-----------|
|  | 1960                | 1970       | 1980                | 1960-1969             | 1970-1979 |
| Bauxite, (gross weight).....                 | 50,000              | 45,000     | 40,000              | 16,597                | 19,158    |
| Cobalt, metal content in ore.....            | 40                  | 25         | -                   | 5                     | (z)       |
| Copper, metal content in ore.....            | 30,000              | 77,000     | 92,000              | 11,265                | 14,383    |
| Gold (million troy ounces).....              | <sup>1</sup> 20     | 120        | 45                  | 16                    | 12        |
| Gypsum, (gross weight) <sup>2</sup> .....    | (NA)                | 318,000    | 636,000             | 90,140                | 111,000   |
| Iron ore, (gross weight) <sup>3</sup> .....  | 2,400,000           | 10,700,000 | 17,300,000          | 840,000               | 813,000   |
| Lead, metal content in ore.....              | <sup>4</sup> 26,000 | 33,000     | <sup>5</sup> 22,500 | 2,811                 | 5,464     |
| Manganese ore, (gross weight).....           | 900                 | (*)        | -                   | 237                   | 5         |
| Molybdenum, metal content in ore.....        | 1,300               | 2,800      | 4,100               | 348                   | 535       |
| Nickel, metal content in ore.....            | 500                 | 180        | 330                 | 120                   | 148       |
| Phosphate rock, (gross weight).....          | 5,200,000           | 7,900,000  | 1,800,000           | 269,823               | 424,837   |
| Potash, in K <sub>2</sub> O equivalents..... | 360,000             | 420,000    | 300,000             | 26,190                | 23,065    |
| Silver (million troy ounces).....            | 760                 | 1,300      | 1,510               | 364                   | 380       |
| Sulfur, in all forms.....                    | 150,000             | 305,000    | 175,000             | 81,396                | 108,846   |
| Soda ash, natural and synthetic.....         | 270,000             | (*)        | 27,000,000          | 58,041                | 69,043    |
| Tin, metal content in ore.....               | 2.5                 | 2.5        | 50                  | (d)                   | (d)       |
| Tungsten, metal content in ore.....          | 65                  | 65         | 125                 | 35                    | 32        |
| Zinc, metal content in ore.....              | <sup>4</sup> 12,000 | 24,000     | <sup>5</sup> 22,000 | 4,831                 | 4,105     |

- Represents zero. D Withheld to avoid disclosing proprietary information. NA Not available. Z Less than 500. <sup>1</sup> 1963 estimate. <sup>2</sup> Excludes byproduct gypsum. <sup>3</sup> Iron ore reserves shown are crude ore; production is marketable ore, direct-shipping ore, concentrates and agglomerates. <sup>4</sup> 1957 estimate. <sup>5</sup> 1978 estimate. \* Represents negligible amount not quantified. \* Represents large amount not quantified.

Source: U.S. Bureau of Mines, *Mineral Facts and Problems, Mineral Commodity Profiles, and Mineral Commodity Summaries*, annual publications.

## No. 1337. MINERAL INDUSTRY—SELECTED STATES: 1972 AND 1977

[Represents establishments classified in the mineral industries only. Excludes data for stone, sand and gravel, clay, and gypsum mines operated as parts of manufacturing establishments]

| STATE                     | 1972                     |   | 1977           |                           |                |                     |   |
|---------------------------|--------------------------|---|----------------|---------------------------|----------------|---------------------|---|
|                           | All employees<br>(1,000) | Value added<br>in mining<br>(mil. dol.) | Establishments |                           | All employees  |                     | Value added<br>in mining<br>(mil. dol.) |
|                           |                          |   | Total          | With 20 employees or more | Number (1,000) | Payroll (mil. dol.) |   |
| <b>United States.....</b> | <b>595.1</b>             | <b>26,471</b>                           | <b>31,352</b>  | <b>6,838</b>              | <b>801.8</b>   | <b>13,166</b>       | <b>67,591</b>                           |
| Alabama.....              | 8.8                      | 264                                     | 432            | 122                       | 14.1           | 225                 | 787                                     |
| Arkansas.....             | 3.7                      | 142                                     | 396            | 66                        | 4.7            | 66                  | 395                                     |
| California.....           | 29.0                     | 1,401                                   | 1,306          | 294                       | 34.5           | 629                 | 3,131                                   |
| Colorado.....             | 13.5                     | 409                                     | 976            | 191                       | 22.7           | 411                 | 1,184                                   |
| Florida.....              | 9.0                      | 298                                     | 320            | 69                        | 9.9            | 132                 | 1,039                                   |
| Indiana.....              | 6.3                      | 211                                     | 530            | 84                        | 8.4            | 148                 | 392                                     |
| Illinois.....             | 20.5                     | 546                                     | 879            | 187                       | 25.8           | 451                 | 1,161                                   |
| Kansas.....               | 8.9                      | 466                                     | 1,183          | 156                       | 12.2           | 181                 | 1,129                                   |
| Kentucky.....             | 30.2                     | 780                                     | 1,770          | 426                       | 47.8           | 822                 | 2,501                                   |
| Louisiana.....            | 49.6                     | 5,529                                   | 1,637          | 485                       | 62.9           | 1,056               | 11,934                                  |
| Michigan.....             | 11.4                     | 306                                     | 500            | 88                        | 13.1           | 204                 | 941                                     |
| Mississippi.....          | 5.6                      | 232                                     | 449            | 84                        | 6.0            | 87                  | 521                                     |
| Missouri.....             | 8.9                      | 218                                     | 378            | 69                        | 8.1            | 127                 | 396                                     |
| Montana.....              | 5.6                      | 169                                     | 366            | 46                        | 5.9            | 90                  | 560                                     |
| New Mexico.....           | 16.2                     | 958                                     | 751            | 177                       | 23.5           | 377                 | 2,689                                   |
| New York.....             | 7.7                      | 154                                     | 466            | 63                        | 7.1            | 134                 | 218                                     |
| Ohio.....                 | 20.1                     | 465                                     | 1,208          | 231                       | 27.6           | 447                 | 1,186                                   |
| Oklahoma.....             | 26.9                     | 1,133                                   | 2,279          | 367                       | 43.5           | 698                 | 3,445                                   |
| Pennsylvania.....         | 41.9                     | 847                                     | 1,695          | 417                       | 51.7           | 852                 | 2,166                                   |
| Tennessee.....            | 7.3                      | 152                                     | 480            | 139                       | 9.4            | 129                 | 378                                     |
| Texas.....                | 95.8                     | 6,711                                   | 6,273          | 1,227                     | 143.6          | 2,377               | 19,700                                  |
| Utah.....                 | 11.4                     | 372                                     | 430            | 100                       | 16.7           | 269                 | 911                                     |
| Virginia.....             | 16.8                     | 360                                     | 896            | 223                       | 23.2           | 350                 | 1,016                                   |
| West Virginia.....        | 53.0                     | 1,195                                   | 1,559          | 458                       | 69.6           | 1,081               | 2,820                                   |
| Wyoming.....              | 11.5                     | 679                                     | 786            | 185                       | 22.7           | 404                 | 2,282                                   |
| Other.....                | 75.5                     | 2,474                                   | 3,407          | 684                       | 87.1           | 1,417               | 4,709                                   |

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1977*, Advance Report.

## NO. 1338. MINERAL INDUSTRIES—

["N.e.c." means not elsewhere classified. See

| MINERAL INDUSTRY                                | 1963 <sup>1</sup>                         |   |   | 1967                                      |                                     |   |   | 1972                   |  |
|---|---|---|---|---|-------------------------------------|---|---|------------------------|--|
|   | Estab-<br>lish-<br>ments<br>(num-<br>ber) | Pay-<br>roll <sup>2</sup><br>(mil.<br>dol.) | Value<br>added<br>in min-<br>ing <sup>3</sup><br>(mil.<br>dol.) | Estab-<br>lish-<br>ments<br>(num-<br>ber) | All employees                       |   | Value<br>added<br>in min-<br>ing <sup>3</sup><br>(mil.<br>dol.) | Establishments         |  |
|   |   |   |   |   | Num-<br>ber <sup>4</sup><br>(1,000) | Pay-<br>roll <sup>2</sup><br>(mil.<br>dol.) |   | Total<br>(num-<br>ber) | With<br>20 or<br>more<br>em-<br>ployees<br>(num-<br>ber) |
| 1 All industries.....                           | 38,651                                    | 3,742                                       | 15,920  | 28,579                                    | 567                                 | 4,187                                       | 19,330  | 25,269                 | 5,312  |
| 2 Metal mining.....                             | 1,614                                     | 515   | 1,418   | 1,155                                     | 71                                  | 552   | 1,557   | 1,014                  | 285  |
| 3 Iron ores.....                                | 208                                       | 162   | 549   | 146                                       | 23                                  | 186   | 662   | 111                    | 56   |
| 4 Copper ores.....                              | 160                                       | 187   | 417   | 156                                       | 21                                  | 171   | 437   | 181                    | 71   |
| 5 Lead and zinc ores.....                       | 205                                       | 49  | 84  | 167                                       | 9                                   | 61  | 103   | 101                    | 47   |
| 6 Gold and silver ores.....                     | 466                                       | 25  | 49  | 183                                       | 4                                   | 26  | 51  | 132                    | 12   |
| 7 Gold ores and placers.....                    | 359                                       | 16  | 27  | 125                                       | 2                                   | 17  | 35  | 81                     | 5  |
| 8 Silver ores.....                              | 107                                       | 9   | 22  | 58  | 1                                   | 8   | 16  | 51                     | 7  |
| 9 Bauxite.....                                  | 17  | 3   | 18  | 17  | 1                                   | 4   | 23  | 10                     | 5  |
| 10 Ferroalloy ores, except vanadium.....        | 58  | 20  | 66  | 43  | 4                                   | 32  | 73  | 44                     | 15   |
| 11 Metal mining services.....                   | 83  | 14  | 25  | 148                                       | 3                                   | 19  | 34  | 172                    | 33   |
| 12 Miscellaneous metal ores.....                | 417                                       | 54  | 210   | 295                                       | 7                                   | 54  | 175   | 263                    | 46   |
| 13 Uranium-radium-vanadium ores.....            | 335                                       | 45  | 191   | 188                                       | 5                                   | 41  | 142   | 144                    | 34   |
| 14 Mercury ores and misc. metal ores.....       | 82  | 9   | 19  | 107                                       | 2                                   | 13  | 32  | 119                    | 12   |
| 15 Anthracite mining.....                       | 1,069                                     | 59  | 121   | 403                                       | 7                                   | 41  | 82  | 230                    | 51   |
| 16 Anthracite.....                              | 1,026                                     | 53  | 111   | 371                                       | 6                                   | 37  | 75  | 213                    | 41   |
| 17 Anthracite mining services.....              | 43  | 6   | 10  | 32  | 1                                   | 5   | 7   | 17                     | 10   |
| 18 Bituminous coal and lignite mining.....      | 6,305                                     | 762   | 1,607   | 4,081                                     | 124                                 | 926   | 2,009   | 3,365                  | 1,118  |
| 19 Bituminous coal and lignite.....             | 6,174                                     | 755   | 1,590   | 3,966                                     | 123                                 | 916   | 1,987   | 3,191                  | 1,076  |
| 20 Coal mining services, n.e.c.....             | 131                                       | 7   | 17  | 115                                       | 1                                   | 10  | 22  | 174                    | 42   |
| 21 Oil and gas extraction.....                  | 21,242                                    | 1,745                                       | 11,020  | 16,358                                    | 245                                 | 1,855                                       | 13,394  | 14,498                 | 2,393  |
| 22 Crude petroleum and natural gas.....         | 14,378                                    | 1,016                                       | 9,016   | 8,796                                     | 126                                 | 1,049                                       | 10,965  | 7,609                  | 820  |
| 23 Natural gas liquids.....                     | 652                                       | 97  | 762   | 684                                       | 12                                  | 100   | 905   | 680                    | 191  |
| 24 Oil and gas field services.....              | 6,212                                     | 632   | 1,241   | 6,878                                     | 106                                 | 707   | 1,524   | 6,209                  | 1,382  |
| 25 Drilling oil and gas wells.....              | 2,836                                     | 318   | 653   | 2,347                                     | 43                                  | 295   | 627   | 1,907                  | 572  |
| 26 Oil and gas exploration services.....        | 373                                       | 48  | 90  | 636                                       | 8                                   | 53  | 126   | 715                    | 91   |
| 27 Oil and gas field services, n.e.c.....       | 3,003                                     | 266   | 498   | 3,895                                     | 55                                  | 359   | 770   | 3,587                  | 719  |
| 28 Nonmetallic minerals mining.....             | 8,421                                     | 661   | 1,755   | 6,582                                     | 120                                 | 812   | 2,288   | 6,162                  | 1,465  |
| 29 Dimension stone <sup>4</sup> .....           | 319                                       | 8   | 15  | 244                                       | 2                                   | 9   | 18  | 198                    | 27   |
| 30 Crushed and broken stone <sup>4</sup> .....  | 2,256                                     | 229   | 582   | 2,033                                     | 43                                  | 281   | 705   | 1,937                  | 669  |
| 31 Sand and gravel <sup>4</sup> .....           | 4,616                                     | 212   | 514   | 3,232                                     | 35                                  | 229   | 548   | 2,929                  | 457  |
| 32 Clay and related minerals <sup>4</sup> ..... | 423                                       | 42  | 114   | 356                                       | 9                                   | 58  | 155   | 309                    | 111  |
| 33 Chemical and fertilizer minerals.....        | 235                                       | 137   | 443   | 233                                       | 24                                  | 188   | 741   | 204                    | 110  |
| 34 Barite.....                                  | 54  | 7   | 11  | 30  | 1                                   | 5   | 15  | 27                     | 12   |
| 35 Fluorspar.....                               | 30  | 4   | 9   | 32  | 1                                   | 5   | 11  | 38                     | 10   |
| 36 Potash, soda, borate minerals.....           | 23  | 52  | 156   | 33  | 8                                   | 68  | 188   | 31                     | 23   |
| 37 Phosphate rock.....                          | 66  | 32  | 105   | 69  | 8                                   | 60  | 199   | 47                     | 24   |
| 38 Rock salt.....                               | 25  | 16  | 50  | 26  | 3                                   | 19  | 71  | 30                     | 19   |
| 39 Sulfur.....                                  | 17  | 21  | 100   | 31  | 3                                   | 31  | 253   | 24                     | 19   |
| 40 Chemical and fertilizer mining, n.e.c.....   | 20  | 6   | 12  | 12  | (2)                                 | 2   | 3   | 7                      | 3  |
| 41 Nonmetallic minerals, services.....          | 119                                       | 5   | 9   | 106                                       | 1                                   | 6   | 11  | 126                    | 11   |
| 42 Miscellaneous <sup>4</sup> .....             | 453                                       | 28  | 78  | 378                                       | 7                                   | 41  | 111   | 459                    | 80   |

- Represents zero. Z Less than 500 or 500,000.

<sup>1</sup> Includes single-unit establishments without paid employees.<sup>2</sup> Gross earnings paid to all employees on payroll.<sup>3</sup> Computed by subtracting cost of supplies, minerals received for preparation, purchased fuel and electric energy, contract work, and purchased machinery from the value of shipments and capital expenditures.<sup>4</sup> Excludes proprietors and firm members of unincorporated concerns.<sup>5</sup> Represents employees up through the working foreman level engaged in manual work. Includes development and exploration workers.

## SUMMARY: 1963 TO 1977

also *Historical Statistics, Colonial Times to 1970*, series M 1-12]

| 1972—Continued              |                                   |  |                | 1977, prel.                        |                             |                                   |                                 |                                   |                   |  |  |                                  |    |
|-----------------------------|-----------------------------------|--|----------------|------------------------------------|-----------------------------|-----------------------------------|---------------------------------|-----------------------------------|-------------------|--|--|----------------------------------|----|
| All employees               |                                   |  | Establishments |                                    | All employees               |                                   | Production workers <sup>a</sup> |                                   |                   | Value added in mining <sup>a</sup> (mil. dol.) | Value of shipments and receipts <sup>c</sup> (mil. dol.) | Capital expenditures (mil. dol.) |    |
| Number <sup>4</sup> (1,000) | Pay-roll <sup>2</sup> (mil. dol.) | Value added in mining <sup>a</sup> (mil. dol.) | Total (number) | With 20 or more employees (number) | Number <sup>4</sup> (1,000) | Pay-roll <sup>2</sup> (mil. dol.) | Number (1,000)                  | Man-hours <sup>a</sup> (millions) | Wages (mil. dol.) |  |  |                                  |    |
| 595                         | 6,226                             | 26,471   | 29,606         | 6,148                              | 780                         | 12,810                            | 592                             | 1,184                             | 9,011             | 67,165   | 95,268   | 17,130                           | 1  |
| 81                          | 853                               | 2,382  | 1,080          | 304                                | 87                          | 1,426                             | 65                              | 127                               | 1,014             | 3,467  | 5,296  | 1,090                            | 2  |
| 20                          | 218                               | 702  | 97             | 83                                 | 21                          | 366                               | 16                              | 28                                | 253               | 1,064  | 1,626  | 439                              | 3  |
| 36                          | 387                               | 1,025  | 130            | 63                                 | 32                          | 527                               | 23                              | 44                                | 356               | 1,067  | 1,856  | 208                              | 4  |
| 8                           | 72                                | 200  | 88             | 40                                 | 7                           | 104                               | 5                               | 11                                | 75                | 329  | 417  | 41                               | 5  |
| 3                           | 30                                | 61   | 173            | 18                                 | 4                           | 67                                | 4                               | 7                                 | 53                | 161  | 199  | 40                               | 6  |
| 2                           | 20                                | 47   | 124            | 6                                  | 2                           | 35                                | 2                               | 4                                 | 28                | 78   | 89   | 21                               | 7  |
| 1                           | 10                                | 14   | 49             | 12                                 | 2                           | 32                                | 2                               | 3                                 | 25                | 83   | 100  | 19                               | 8  |
| 1                           | 4                                 | 24   | 10             | 6                                  | (z)                         | 6                                 | (z)                             | 1                                 | 4                 | 31   | 40   | 4                                | 9  |
| 4                           | 40                                | 137  | 53             | 15                                 | 6                           | 96                                | 5                               | 10                                | 79                | 228  | 344  | 109                              | 10 |
| 3                           | 31                                | 54   | 152            | 20                                 | 2                           | 38                                | 2                               | 4                                 | 30                | 84   | 117  | 15                               | 11 |
| 7                           | 71                                | 180  | 377            | 79                                 | 13                          | 222                               | 10                              | 22                                | 164               | 503  | 696  | 234                              | 12 |
| 6                           | 58                                | 149  | 232            | 65                                 | 12                          | 203                               | 9                               | 20                                | 153               | 439  | 609  | 226                              | 13 |
| 1                           | 13                                | 31   | 145            | 14                                 | 1                           | 19                                | 1                               | 2                                 | 11                | 64   | 87   | 8                                | 14 |
| 5                           | 35                                | 68   | 173            | 40                                 | 3                           | 50                                | 3                               | 5                                 | 41                | 124  | 226  | 11                               | 15 |
| 4                           | 32                                | 63   | 154            | 36                                 | 3                           | 47                                | 3                               | 5                                 | 38                | 116  | 217  | 9                                | 16 |
| 1                           | 3                                 | 6  | 19             | 4                                  | (z)                         | 3                                 | (z)                             | (z)                               | 3                 | 8  | 10   | 2                                | 17 |
| 155                         | 1,742                             | 3,685  | 5,177          | 1,669                              | 239                         | 4,069                             | 203                             | 365                               | 3,285             | 11,167   | 16,662   | 2,783                            | 18 |
| 152                         | 1,714                             | 3,626  | 4,892          | 1,603                              | 233                         | 3,957                             | 197                             | 354                               | 3,190             | 10,873   | 16,276   | 2,736                            | 19 |
| 3                           | 29                                | 60   | 285            | 66                                 | 6                           | 112                               | 6                               | 11                                | 95                | 294  | 386  | 47                               | 20 |
| 241                         | 2,525                             | 17,612   | 17,072         | 2,736                              | 334                         | 5,686                             | 230                             | 496                               | 3,533             | 47,740   | 66,390   | 12,441                           | 21 |
| 117                         | 1,375                             | 14,422   | 8,524          | 964                                | 133                         | 2,615                             | 60                              | 119                               | 1,028             | 37,617   | 40,417   | 10,488                           | 22 |
| 11                          | 117                               | 1,019  | 689            | 205                                | 12                          | 210                               | 10                              | 21                                | 171               | 3,260  | 17,050   | 327                              | 23 |
| 113                         | 1,033                             | 2,172  | 7,859          | 1,567                              | 189                         | 2,861                             | 160                             | 356                               | 2,335             | 6,843  | 8,922  | 1,626                            | 24 |
| 45                          | 422                               | 881  | 2,180          | 657                                | 76                          | 1,267                             | 69                              | 150                               | 1,112             | 3,213  | 4,233  | 1,014                            | 25 |
| 10                          | 89                                | 212  | 1,019          | 67                                 | 17                          | 206                               | 14                              | 35                                | 169               | 542  | 657  | 71                               | 26 |
| 58                          | 522                               | 1,079  | 4,660          | 843                                | 96                          | 1,388                             | 77                              | 171                               | 1,054             | 3,088  | 4,032  | 541                              | 27 |
| 114                         | 1,070                             | 2,723  | 6,104          | 1,399                              | 117                         | 1,579                             | 91                              | 191                               | 1,138             | 4,667  | 6,895  | 805                              | 28 |
| 2                           | 13                                | 26   | 204            | 21                                 | 2                           | 17                                | 2                               | 3                                 | 14                | 38   | 49   | 3                                | 29 |
| 42                          | 388                               | 982  | 1,957          | 629                                | 41                          | 543                               | 33                              | 69                                | 396               | 1,517  | 2,056  | 250                              | 30 |
| 34                          | 322                               | 776  | 2,799          | 428                                | 30                          | 416                               | 23                              | 49                                | 302               | 1,008  | 1,417  | 173                              | 31 |
| 9                           | 78                                | 198  | 257            | 100                                | 10                          | 124                               | 8                               | 17                                | 92                | 354  | 589  | 62                               | 32 |
| 20                          | 203                               | 583  | 207            | 113                                | 25                          | 366                               | 18                              | 38                                | 247               | 1,459  | 2,161  | 275                              | 33 |
| 1                           | 5                                 | 20   | 33             | 12                                 | 1                           | 10                                | 1                               | 2                                 | 8                 | 43   | 55   | 3                                | 34 |
| 1                           | 8                                 | 16   | 21             | 6                                  | 1                           | 9                                 | 1                               | 1                                 | 5                 | 13   | 35   | 1                                | 35 |
| 7                           | 77                                | 211  | 31             | 26                                 | 9                           | 153                               | 7                               | 14                                | 105               | 565  | 819  | 173                              | 36 |
| 6                           | 53                                | 154  | 50             | 33                                 | 8                           | 105                               | 6                               | 13                                | 79                | 469  | 751  | 72                               | 37 |
| 3                           | 26                                | 74   | 34             | 17                                 | 3                           | 36                                | 2                               | 4                                 | 25                | 131  | 153  | 14                               | 38 |
| 3                           | 32                                | 104  | 27             | 17                                 | 3                           | 48                                | 1                               | 3                                 | 22                | 235  | 335  | 10                               | 39 |
| (z)                         | 1                                 | 4  | 11             | 2                                  | (z)                         | 5                                 | (z)                             | 1                                 | 3                 | 3  | 13   | 2                                | 40 |
| 1                           | 11                                | 20   | 139            | 28                                 | 2                           | 34                                | 2                               | 4                                 | 27                | 65   | 95   | 8                                | 41 |
| 7                           | 55                                | 138  | 541            | 80                                 | 7                           | 79                                | 5                               | 11                                | 60                | 226  | 328  | 34                               | 42 |

<sup>a</sup> Excludes paid vacations, holidays, and sick leave; includes actual overtime hours (not straight-time equivalent).<sup>b</sup> Represents value of shipments of primary and secondary products of the industry and amount received for services performed for other establishments on a contract, fee, or other basis.<sup>c</sup> Excludes data for dimension-stone quarries operated in conjunction with dressing plants.<sup>d</sup> Excludes data for mining included in establishments classified in manufacturing industries.Source: U.S. Bureau of the Census, *Census of Mineral Industries: 1963, 1967, 1972, and 1977*, final industry series reports.



## NO. 1339. MINERAL PRODUCTION, 1970 TO 1978, AND PRINCIPAL PRODUCING STATES, 1978

[Data represent production as measured by mine shipments, mine sales, or marketable production (including consumption by producers). See *Historical Statistics, Colonial Times to 1970*, series M 13-37, for selected values]

| MINERAL  | PRODUCTION QUANTITY    |        |        |        |        |        | PRODUCTION VALUE (mil. dol.) |                  |                  |                  |                  | Principal producing States ranked by quantity, 1978 |
|--|------------------------|--------|--------|--------|--------|--------|------------------------------|------------------|------------------|------------------|------------------|---|
|  | Unit                   | 1970   | 1975   | 1976   | 1977   | 1978   | 1970                         | 1975             | 1976             | 1977             | 1978             |   |
| Total mineral production                           |                        |        |        |        |        |        |                              |                  |                  |                  |                  |   |
| Mineral fuels                                      |                        |        |        |        |        |        |                              |                  |                  |                  |                  |   |
| Coal: Bituminous and lignite                       | (x)                    | (x)    | (x)    | (x)    | (x)    | (x)    | 29,786.6                     | 62,190.0         | 59,216.3         | 77,112.0         | 86,241.2         | (x)   |
| Mil. sh. tons                                      | 603                    | 648    | 679    | 691    | 665    | 665    | 20,222.2                     | 47,781.1         | 52,919.0         | 60,182.0         | 66,419.5         | (x)   |
| Mil. sh. tons                                      | 10                     | 6      | 6      | 6      | 5      | 5      | 3,772.7                      | 12,472.5         | 13,188.5         | 13,705.2         | 14,466.3         | Ky., W. Va., Pa., Ill.                              |
| Bil. cu. ft.                                       | 21,921                 | 20,109 | 19,952 | 20,025 | 19,974 | 19,974 | 105.3                        | 198.5            | 209.2            | 184.8            | 207.1            | Pa.   |
| Natural gas  |                        |        |        |        |        |        | 3,745.7                      | 8,945.1          | 11,571.5         | 15,825.0         | 18,084.9         | Tex., La., Okla., N. Mex.                           |
| Natural gas liquids:                               |                        |        |        |        |        |        |                              |                  |                  |                  |                  |   |
| LP-gases   | Mil. bbl. <sup>1</sup> | 206    | 152    | 150    | 590    | 572    | 603.0                        | 876.7            | 985.4            | 4,047.5          | 4,394.4          | Tex., La., Okla., N. Mex.                           |
| Petroleum (crude)                                  | Mil. bbl. <sup>1</sup> | 400    | 444    | 437    | 3,009  | 3,178  | 672.1                        | 1,893.9          | 2,298.6          | 25,790.7         | 28,477.6         | Tex., La., Calif., Okla.                            |
| Uranium <sup>2</sup>                               | Mil. lb.               | 351.7  | 3,057  | 2,976  | 31.8   | 35.6   | 11,173.7                     | 23,116.1         | 24,229.5         | 628.0            | 769.0            | N. Mex., Wyo., Tex.                                 |
| Nonmetallic minerals                               |                        |        |        |        |        |        |                              |                  |                  |                  |                  |   |
| Abrasive stone <sup>3</sup>                        | (x)                    | (x)    | (x)    | (x)    | (x)    | (x)    | 5,785.9                      | 9,494.0          | 10,616.0         | 11,702.0         | 13,525.7         | (x)   |
| Asbestos   | Sh. tons               | 3,055  | 2,953  | 2,696  | 2,200  | 487    | 6                            | 11               | 3.2              | 1.3              | 1.3              | Wis., Ark., Ohio.                                   |
| Asphalt and related bitumens (native) <sup>4</sup> | 1,000 sh. tons         | 125    | 99     | 115    | 102    | 103    | 10.7                         | 14.2             | 17.6             | 25.3             | 28.0             | Calif., Wt. Ariz., N.C.                             |
| Baryte   | 1,000 sh. tons         | 1,981  | 1,902  | 2,012  | 1,237  | 1,697  | 8.9                          | 17.8             | 23.7             | 13.9             | 19.3             | Tex., Utah, Ark.                                    |
| Boron minerals                                     | 1,000 sh. tons         | 854    | 1,318  | 1,234  | 1,494  | 2,112  | 12.8                         | 21.2             | 28.7             | 30.3             | 44.0             | Nev., Mo., Ark., Ga.                                |
| Bromine  | 1,000 sh. tons         | 1,041  | 1,172  | 1,246  | 1,469  | 1,554  | 86.8                         | 158.8            | 184.9            | 286.2            | 279.9            | Calif.  |
| Calcium chloride                                   | Mil. lb.               | 350    | 407    | 460    | 434    | 467    | 60.6                         | 113.1            | 112.3            | 99.7             | 100.0            | Ark., Mich.   |
| Carbon dioxide, natural (estimate)                 | Sh. tons               | 633    | 594    | 649    | 710    | 773    | 15.2                         | 29.0             | 32.9             | 45.0             | 53.9             | Mich., Calif.                                       |
| Cement, Portland                                   | Mil. cu. ft.           | 1,110  | 1,070  | 1,357  | 1,617  | 2,015  | 1,269.7                      | 2,015.6          | 2,330.4          | 2,727.6          | 3,239.6          | N. Mex., Colo., Utah.                               |
| Masonry  | Mil. sh. tons          | 73.2   | 66.8   | 71.2   | 76.3   | 81.4   | 67.5                         | 111.8            | 139.6            | 189.1            | 208.6            | Pa., Ind., Ala., Mich.                              |
| Clays  | Mil. sh. tons          | 3.0    | 2.9    | 3.3    | 3.8    | 4.1    | 267.9                        | 424.6            | 528.7            | 579.2            | 717.3            | Ga., Tex., Ohio, Wyo.                               |
| Diatomite  | Mil. sh. tons          | 54.9   | 49.0   | 52.4   | 53.2   | 56.8   | 32.6                         | 45.8             | 55.0             | 63.9             | 72.4             | Calif., Nev., Wash., Oreg.                          |
| Emery  | 1,000 sh. tons         | 598    | 573    | 631    | 648    | 651    | 9.6                          | 11.7             | 17.5             | 17.2             | 18.2             | N.Y.  |
| Feldspar   | 1,000 sh. tons         | (x)    | (x)    | (x)    | (x)    | (x)    | ( <sup>5</sup> )             | ( <sup>5</sup> ) | ( <sup>5</sup> ) | ( <sup>5</sup> ) | ( <sup>5</sup> ) | N.C., Conn., Ga., Calif.                            |
| Fluorapatite                                       | 1,000 sh. tons         | 726    | 670    | 740    | 734    | 736    | 13.9                         | 10.9             | 17.9             | 16.5             | 13.3             | Ill., Tex., Nev.                                    |
| Garnet (abrasive)                                  | 1,000 sh. tons         | 269    | 140    | 188    | 169    | 129    | 1.9                          | 1.7              | 2.7              | 2.2              | 2.3              | Idaho, N.Y.   |
| Gem stones (estimate)                              | 1,000 sh. tons         | 18.6   | 17.2   | 24.6   | 20.0   | 28.7   | 2.4                          | 13.9             | 8.9              | 8.9              | 8.9              | Ariz., Nev., Oreg., Me.                             |
| Gypsum   | (x)                    | (NA)   | (NA)   | (NA)   | (NA)   | (NA)   | 35.1                         | 44.7             | 59.9             | 74.3             | 92.7             | Mich., Tex., Iowa, Calif.                           |
| Helium <sup>6</sup>                                | Mil. sh. tons          | 9.4    | 9.8    | 12.0   | 13.4   | 14.9   | 64.2                         | 23.9             | 25.9             | 30.7             | 31.9             | Kans., Okla., Tex.                                  |
| Line   | Mil. cu. ft.           | 4,600  | 1,079  | 1,339  | 1,494  | 1,550  | 286.2                        | 523.8            | 699.0            | 686.5            | 749.7            | Ohio, Pa., Mo.                                      |
| Magnesium compounds <sup>7</sup>                   | Mil. sh. tons          | 19.7   | 19.1   | 20.2   | 19.9   | 20.4   | 82.4                         | ( <sup>5</sup> ) | ( <sup>5</sup> ) | ( <sup>5</sup> ) | 127.7            | 80  |
| Mica: Scrap  | 1,000 sh. tons         | 708    | (x)    | (x)    | 830    | (x)    | 2.5                          | 5.2              | 5.8              | 7.3              | ( <sup>5</sup> ) | ( <sup>5</sup> )                                    |
| Sheet  | 1,000 lb.              | 119    | 135    | 141    | 176    | 182    | -                            | ( <sup>2</sup> ) | ( <sup>2</sup> ) | 12.1             | 12.5             | ( <sup>5</sup> )                                    |
| Peat   | 1,000 sh. tons         | 526    | 746    | 731    | 726    | 950    | 6.0                          | 12.3             | 12.1             | 12.5             | 13.0             | Mich., Fla., Ill.                                   |
| Perlite  | 1,000 sh. tons         | 456    | 512    | 553    | 597    | 641    | 4.9                          | 7.3              | 9.4              | 10.8             | 13.7             | N. Mex., Ariz., Calif.                              |
| Phosphate rock                                     | Mil. sh. tons          | 36.7   | 48.3   | 49.2   | 52.1   | 55.2   | 203.2                        | 1,122.2          | 949.4            | 821.7            | 928.8            | Fla., Idaho, N.C.                                   |
| Potash <sup>8</sup>                                | 1,000 sh. tons         | 2,729  | 2,400  | 2,501  | 2,500  | 2,483  | 98.1                         | 223.1            | 210.8            | 206.9            | 226.5            | N. Mex., Utah, Calif.                               |



## No. 1340. MINERAL PRODUCTION—VALUE, 1970 TO 1978, AND RANK BY STATES

[In millions of dollars]

| REGION AND STATE | 1970  | 1975  | 1976  | 1977  | 1978               |      | REGION AND STATE | 1970   | 1975   | 1976   | 1977   | 1978               |      |
|------------------|-------|-------|-------|-------|--------------------|------|------------------|--------|--------|--------|--------|--------------------|------|
|                  |       |       |       |       | Total <sup>1</sup> | Rank |                  |        |        |        |        | Total <sup>1</sup> | Rank |
| N.E.             | 143   | 181   | 203   | 232   | 265                | (x)  | S.A.—Con.        |        |        |        |        |                    |      |
| Maine            | 24    | 37    | 40    | 43    | 43                 | 47   | N.C.             | 98     | 153    | 203    | 232    | 295                | 32   |
| N.H.             | 9     | 17    | 18    | 21    | 23                 | 48   | S.C.             | 56     | 115    | 125    | 144    | 183                | 37   |
| Vt.              | 28    | 29    | 35    | 41    | 48                 | 46   | Ga.              | 203    | 333    | 428    | 486    | 594                | 26   |
| Mass.            | 50    | 59    | 70    | 77    | 90                 | 43   | Fla.             | 300    | 1,771  | 1,652  | 1,619  | 1,741              | 15   |
| R.I.             | 4     | 6     | 6     | 6     | 7                  | 49   | E.S.C.           | 1,640  | 4,541  | 5,035  | 5,391  | 6,012              | (x)  |
| Conn.            | 28    | 33    | 34    | 44    | 54                 | 44   | Ky.              | 847    | 2,739  | 3,115  | 3,218  | 3,549              | 5    |
| M.A.             | 1,485 | 3,430 | 3,589 | 3,623 | 3,773              | (x)  | Tenn.            | 220    | 423    | 440    | 521    | 586                | 27   |
| N.Y.             | 300   | 398   | 428   | 462   | 448                | 29   | Ala.             | 323    | 989    | 1,030  | 1,160  | 1,317              | 19   |
| N.J.             | 89    | 124   | 120   | 117   | 128                | 41   | Miss.            | 250    | 410    | 450    | 492    | 560                | 28   |
| Pa.              | 1,096 | 2,908 | 3,041 | 3,044 | 3,197              | 6    | W.S.C.           | 12,868 | 26,741 | 30,120 | 34,503 | 33,655             | (x)  |
| E.N.C.           | 2,316 | 4,813 | 5,300 | 5,741 | 6,469              | (x)  | Ark.             | 226    | 436    | 535    | 574    | 629                | 25   |
| Ohio             | 612   | 1,356 | 1,436 | 1,607 | 1,791              | 12   | La.              | 5,102  | 8,513  | 8,652  | 10,912 | 11,625             | 2    |
| Ind.             | 258   | 542   | 607   | 698   | 793                | 23   | Okl.             | 1,138  | 2,267  | 2,790  | 3,497  | 3,554              | 4    |
| Ill.             | 689   | 1,491 | 1,581 | 1,663 | 1,758              | 14   | Tex.             | 6,402  | 15,525 | 18,143 | 19,520 | 17,847             | 1    |
| Mich.            | 671   | 1,292 | 1,544 | 1,623 | 1,968              | 11   | Mt.              | 4,545  | 8,014  | 9,323  | 10,580 | 11,312             | (x)  |
| Wis.             | 88    | 132   | 132   | 150   | 159                | 38   | Mont.            | 313    | 573    | 636    | 691    | 723                | 24   |
| W.N.C.           | 1,962 | 3,403 | 3,902 | 3,903 | 5,046              | (x)  | Idaho            | 120    | 234    | 210    | 253    | 299                | 31   |
| Minn.            | 633   | 1,097 | 1,218 | 876   | 1,725              | 16   | Wyo.             | 706    | 1,644  | 1,652  | 2,331  | 2,741              | 10   |
| Iowa             | 121   | 196   | 216   | 238   | 267                | 33   | Colo.            | 390    | 958    | 1,110  | 1,397  | 1,450              | 18   |
| Mo.              | 333   | 723   | 785   | 893   | 966                | 22   | N. Mex.          | 1,060  | 2,082  | 2,510  | 2,811  | 2,926              | 9    |
| N. Dak.          | 96    | 202   | 244   | 272   | 320                | 30   | Ariz.            | 1,167  | 1,288  | 1,727  | 1,621  | 1,777              | 13   |
| S. Dak.          | 62    | 102   | 102   | 111   | 126                | 42   | Utah             | 603    | 966    | 1,044  | 1,065  | 1,148              | 21   |
| Neb.             | 73    | 112   | 123   | 144   | 152                | 39   | Nev.             | 186    | 259    | 234    | 271    | 248                | 35   |
| Kans.            | 584   | 971   | 1,214 | 1,369 | 1,490              | 17   | Pac.             | 2,426  | 3,949  | 4,450  | 5,911  | 7,857              | (x)  |
| S.A.             | 2,406 | 7,191 | 7,254 | 7,220 | 7,351              | (x)  | Wash.            | 91     | 159    | 187    | 216    | 251                | 34   |
| Del.             | 2     | 2     | 2     | 2     | 2                  | 50   | Oreg.            | 68     | 106    | 113    | 109    | 122                | 40   |
| Md.              | 88    | 165   | 185   | 187   | 222                | 36   | Calif.           | 1,900  | 3,153  | 3,483  | 4,312  | 4,440              | 3    |
| Va.              | 374   | 1,262 | 1,161 | 1,342 | 1,250              | 20   | Alaska           | 338    | 481    | 625    | 1,234  | 2,984              | 6    |
| W. Va.           | 1,285 | 3,390 | 3,498 | 3,208 | 3,064              | 7    | Hawaii           | 29     | 50     | 42     | 40     | 53                 | 45   |

X Not applicable. <sup>1</sup> Excludes uranium and natural gas liquids.Source: U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1341. EMPLOYMENT IN MINING—SELECTED STATES AND OTHER AREAS: 1965 TO 1978

[In thousands. Excludes office workers]

| STATE  | 1965  | 1970  | 1975  | 1976  | 1977  | 1978  | STATE OR OTHER AREA       | 1965 | 1970 | 1975 | 1976 | 1977 | 1978 |
|--------|-------|-------|-------|-------|-------|-------|---------------------------|------|------|------|------|------|------|
| U.S.   | 411.8 | 387.3 | 464.8 | 457.0 | 477.5 | 495.4 | Nev.                      | 3.8  | 3.5  | 4.1  | 3.6  | 4.1  | 3.9  |
| Ala.   | 11.0  | 9.7   | 14.4  | 13.6  | 14.9  | 14.9  | N. Mex.                   | 7.8  | 8.3  | 11.1 | 12.3 | 13.0 | 14.5 |
| Ariz.  | 13.2  | 14.5  | 20.0  | 19.2  | 18.6  | 16.1  | N.Y.                      | 9.4  | 8.3  | 7.6  | 7.4  | 7.1  | 6.7  |
| Ark.   | 5.7   | 4.9   | 5.8   | 5.5   | 5.7   | 5.4   | N.C.                      | 4.5  | 4.8  | 4.4  | 4.4  | 4.9  | 5.0  |
| Calif. | 17.6  | 16.7  | 10.1  | 11.1  | 11.9  | 12.6  | Ohio                      | 17.8 | 18.0 | 22.8 | 22.5 | 23.0 | 23.5 |
| Colo.  | 8.6   | 8.3   | 11.3  | 10.6  | 11.2  | 12.8  | Okl.                      | 12.0 | 2.9  | 3.1  | 3.1  | 3.6  | 4.4  |
| Fla.   | 6.8   | 6.6   | 7.9   | 7.7   | 8.9   | 9.1   | Oreg.                     | 4.6  | 2.9  | 2.7  | 2.2  | 2.4  | 2.1  |
| Ga.    | 6.2   | 6.8   | 7.3   | 7.3   | 7.6   | 7.9   | Pa.                       | 46.7 | 39.8 | 44.3 | 46.4 | 47.7 | 47.5 |
| Idaho  | 4.1   | 3.7   | 3.8   | 3.7   | 3.7   | 3.9   | S.C.                      | 2.1  | 2.2  | 2.0  | 2.1  | 2.3  | 2.2  |
| Ill.   | 14.9  | 15.4  | 19.7  | 21.0  | 21.6  | 20.9  | S. Dak.                   | 3.6  | 3.2  | 2.9  | 3.1  | 3.0  | 3.0  |
| Ind.   | 7.3   | 7.0   | 7.5   | 7.7   | 8.0   | 8.7   | Tenn.                     | 8.7  | 7.5  | 10.0 | 10.4 | 10.6 | 11.6 |
| Iowa   | 5.2   | 4.2   | 5.3   | 5.0   | 5.2   | 5.3   | Tex.                      | 11.1 | 11.0 | 12.8 | 12.3 | 13.1 | 14.2 |
| Kans.  | 4.4   | 3.3   | 3.9   | 3.6   | 3.7   | 3.8   | Utah                      | 8.5  | 8.6  | 10.1 | 10.2 | 10.9 | 12.2 |
| Ky.    | 27.7  | 28.7  | 44.8  | 38.9  | 43.2  | 51.1  | Va.                       | 16.7 | 15.7 | 21.4 | 20.9 | 22.5 | 24.4 |
| La.    | 4.5   | 5.0   | 4.4   | 4.6   | 4.6   | 5.0   | Wash.                     | 3.6  | 2.6  | 3.2  | 3.0  | 3.7  | 3.6  |
| Md.    | 2.9   | 2.7   | 2.5   | 2.6   | 3.0   | 3.4   | W. Va.                    | 46.9 | 47.8 | 62.6 | 63.6 | 65.6 | 63.8 |
| Mass.  | 2.4   | 1.8   | 1.9   | 2.0   | 2.0   | 2.0   | Wis.                      | 5.3  | 4.0  | 5.3  | 3.9  | 3.6  | 3.3  |
| Mich.  | 13.2  | 12.0  | 10.5  | 10.4  | 10.6  | 10.3  | Wyo.                      | 4.0  | 4.9  | 11.3 | 10.4 | 12.7 | 13.6 |
| Minn.  | 14.0  | 12.6  | 13.8  | 13.8  | 12.8  | 15.4  | Other States <sup>1</sup> | 17.1 | 11.9 | 11.2 | 9.9  | 10.6 | 10.5 |
| Miss.  | 1.8   | 1.5   | 1.3   | 1.4   | 1.5   | 1.9   | P. Rico                   | -    | -    | .5   | 1.6  | 1.6  | 1.5  |
| Mo.    | 9.6   | 9.0   | 10.7  | 10.3  | 10.6  | 10.3  | V. Islds.                 | -    | -    | .4   | .4   | .4   | .5   |
| Mont.  | 6.7   | 5.4   | 4.8   | 4.2   | 4.0   | 4.4   |                           |      |      |      |      |      |      |

- Represents zero. <sup>1</sup> Due to the confidentiality of certain data, a part of the persons employed are included in "Other States."

Source: U.S. Mine Safety and Health Administration, Denver, Colorado, unpublished data.

## NO. 1342. SELECTED MINERAL INDUSTRIES—EMPLOYMENT: 1960 TO 1978

[Excludes office workers. Prior to 1975, excludes Alaska and Hawaii, except as noted. Beginning 1975, no estimates of persons or man-hours were made to cover nonrespondent establishments. See also *Historical Statistics, Colonial Times to 1970*, series M 287-306]

| INDUSTRY                          | PERSONS WORKING DAILY <sup>1</sup> (1,000) |                  |                  |      |      |      | MAN-HOURS WORKED (mil.) |                  |                  |      |      |      |
|-----------------------------------|--|------------------|------------------|------|------|------|-------------------------|------------------|------------------|------|------|------|
|                                   | 1960                                       | 1965             | 1970             | 1975 | 1977 | 1978 | 1960                    | 1965             | 1970             | 1975 | 1977 | 1978 |
| Coal mines.....                   | <sup>2</sup> 190                           | <sup>2</sup> 149 | <sup>2</sup> 144 | 218  | 230  | 246  | <sup>2</sup> 282        | <sup>2</sup> 249 | <sup>2</sup> 260 | 368  | 391  | 387  |
| Metal mines.....                  | <sup>2</sup> 61                            | <sup>2</sup> 51  | <sup>2</sup> 46  | 54   | 52   | 52   | <sup>2</sup> 120        | <sup>2</sup> 112 | <sup>2</sup> 108 | 101  | 95   | 99   |
| Nonmetal mines <sup>3</sup> ..... | <sup>2</sup> 19                            | <sup>2</sup> 17  | <sup>2</sup> 15  | 21   | 17   | 19   | <sup>2</sup> 37         | <sup>2</sup> 38  | <sup>2</sup> 32  | 35   | 32   | 35   |
| Sand and gravel operations.....   | 52   | 54               | 51               | 44   | 42   | 41   | 96                      | 100              | 95               | 57   | 61   | 63   |
| Stone quarries <sup>4</sup> ..... | 95   | 90               | 82               | 77   | 84   | 84   | 202                     | 194              | 164              | 130  | 156  | 164  |
| Metal mills.....                  | 23   | 19               | 22               | 29   | 30   | 30   | 54                      | 49               | 57               | 53   | 54   | 57   |
| Nonmetal mills.....               | 40   | 31               | 27               | 22   | 25   | 26   | 86                      | 71               | 62               | 42   | 49   | 52   |

<sup>1</sup> Average number of persons at work each day mines were active. <sup>2</sup> Includes Alaska. <sup>3</sup> Includes clay mines. Includes Hawaii for all years. Beginning 1975, excludes extraction of Frasch process sulfur. <sup>4</sup> Includes manufacture of cement except 1975. Includes Alaska and Hawaii for all years.

## NO. 1343. MINERAL INDUSTRIES—INJURIES AND FATALITIES: 1960 TO 1978

[Excludes office workers. See also *Historical Statistics, Colonial Times to 1970*, series M 271-286]

| ITEM   | 1960   | 1965   | 1970   | 1973   | 1974  | 1975   | 1976   | 1977   | 1978   |
|--|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| Coal mining:                                     |        |        |        |        |       |        |        |        |        |
| Injuries, total.....                             | 12,227 | 11,397 | 11,812 | 11,352 | 8,678 | 11,262 | 14,530 | 15,128 | 14,871 |
| Fatal.....                                       | 325    | 259    | 260    | 132    | 133   | 155    | 141    | 139    | 106    |
| Nonfatal.....                                    | 11,902 | 11,138 | 11,552 | 11,220 | 8,545 | 11,107 | 14,389 | 14,989 | 14,765 |
| Rate per million work-hours:                     |        |        |        |        |       |        |        |        |        |
| Fatal.....                                       | 1.2    | 1.0    | 1.0    | .5     | .5    | .4     | .4     | .4     | .3     |
| Nonfatal.....                                    | .42    | .45    | .44    | .40    | .29   | .30    | .38    | .38    | .38    |
| Fatalities per 1,000 employed <sup>1</sup> ..... | 1.71   | 1.74   | 1.81   | .90    | .75   | .71    | .66    | .60    | .43    |
| Quarrying and related industries: <sup>2</sup>   |        |        |        |        |       |        |        |        |        |
| Injuries, total.....                             | 4,707  | 3,353  | 3,709  | 2,496  | 2,661 | 2,562  | 2,912  | 3,287  | 4,135  |
| Fatal.....                                       | 39     | 48     | 43     | 60     | 48    | 36     | 33     | 39     | 49     |
| Nonfatal.....                                    | 4,668  | 3,305  | 3,666  | 2,436  | 2,613 | 2,526  | 2,879  | 3,248  | 4,086  |
| Rate per million work-hours:                     |        |        |        |        |       |        |        |        |        |
| Fatal.....                                       | .2     | .3     | .2     | .5     | .4    | .3     | .2     | .3     | .3     |
| Nonfatal.....                                    | .23    | .17    | .20    | .19    | .19   | .19    | .19    | .21    | .25    |
| Metal and nonmetal mining: <sup>3</sup>          |        |        |        |        |       |        |        |        |        |
| Injuries, total.....                             | 7,253  | 6,328  | 6,730  | 5,023  | 5,448 | 5,158  | 4,907  | 4,694  | 7,124  |
| Fatal.....                                       | 121    | 92     | 93     | 75     | 71    | 66     | 56     | 68     | 62     |
| Nonfatal.....                                    | 7,132  | 6,236  | 6,637  | 4,948  | 5,377 | 5,092  | 4,851  | 4,626  | 7,062  |
| Rate per million work-hours:                     |        |        |        |        |       |        |        |        |        |
| Fatal.....                                       | .8     | .6     | .7     | .3     | .3    | .3     | .2     | .3     | .3     |
| Nonfatal.....                                    | .45    | .42    | .47    | .23    | .24   | .22    | .20    | .20    | .29    |
| Rate per 1,000 workers: <sup>1</sup>             |        |        |        |        |       |        |        |        |        |
| Fatal.....                                       | 1.5    | 1.4    | 1.5    | .7     | .6    | .5     | .5     | .5     | .5     |
| Nonfatal.....                                    | .89    | .92    | 1.09   | .44    | .44   | .40    | .39    | .37    | .56    |

<sup>1</sup> See footnote 1, table 1342. <sup>2</sup> Includes manufacture of cement, except for 1973-75. <sup>3</sup> Beginning 1973, nonmetal mines exclude extraction of Frasch process sulfur.

Source of tables 1342 and 1343: 1960-1970, U.S. Bureau of Mines, *Minerals Yearbook*, and unpublished data; thereafter, U.S. Mine Safety and Health Administration, Denver, Colorado, unpublished data.

## NO. 1344. SELECTED MINERAL INDUSTRIES—AVERAGE WEEKLY AND HOURLY EARNINGS AND WEEKLY HOURS: 1960 TO 1978

| ITEM                             | Unit     | 1960 | 1965 | 1970 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
|----------------------------------|----------|------|------|------|------|------|------|------|------|------|------|
| All mining:                      |          |      |      |      |      |      |      |      |      |      |      |
| Weekly earnings.....             | Dol..... | 104  | 122  | 160  | 181  | 196  | 213  | 229  | 256  | 303  | 303  |
| Hourly earnings.....             | Dol..... | 2.45 | 2.77 | 3.66 | 4.17 | 4.47 | 4.91 | 5.42 | 3.99 | 6.88 | 7.62 |
| Weekly hours.....                | Num..... | 42.5 | 44.0 | 43.8 | 43.4 | 44.0 | 43.5 | 42.4 | 42.9 | 44.1 | 43.4 |
| Crude petroleum and natural gas: |          |      |      |      |      |      |      |      |      |      |      |
| Weekly earnings.....             | Dol..... | 103  | 116  | 156  | 170  | 192  | 224  | 249  | 273  | 288  | 315  |
| Hourly earnings.....             | Dol..... | 2.46 | 2.74 | 3.63 | 3.97 | 4.69 | 5.33 | 6.05 | 6.59 | 6.23 | 7.01 |
| Weekly hours.....                | Num..... | 42.0 | 42.4 | 40.7 | 42.8 | 40.9 | 42.0 | 40.6 | 41.4 | 46.2 | 45.0 |
| Coal mining:                     |          |      |      |      |      |      |      |      |      |      |      |
| Weekly earnings.....             | Dol..... | 110  | 138  | 184  | 216  | 227  | 237  | 283  | 312  | 353  | 370  |
| Hourly earnings.....             | Dol..... | 3.11 | 3.46 | 4.52 | 5.30 | 5.69 | 6.20 | 7.21 | 7.88 | 8.41 | 8.34 |
| Weekly hours.....                | Num..... | 35.5 | 39.9 | 40.7 | 41.0 | 39.9 | 38.2 | 39.3 | 39.5 | 41.2 | 36.6 |
| Metal mining:                    |          |      |      |      |      |      |      |      |      |      |      |
| Weekly earnings.....             | Dol..... | 111  | 127  | 166  | 186  | 200  | 227  | 251  | 281  | 299  | 340  |
| Hourly earnings.....             | Dol..... | 2.68 | 3.06 | 3.86 | 4.47 | 4.76 | 5.43 | 6.13 | 6.75 | 7.27 | 8.16 |
| Weekly hours.....                | Num..... | 41.6 | 41.6 | 42.7 | 41.5 | 42.1 | 41.8 | 40.9 | 41.6 | 41.2 | 41.2 |
| Nonmetal mining incl. quarrying: |          |      |      |      |      |      |      |      |      |      |      |
| Weekly earnings.....             | Dol..... | 98   | 117  | 156  | 177  | 197  | 209  | 211  | 237  | 260  | 282  |
| Hourly earnings.....             | Dol..... | 2.27 | 2.57 | 3.48 | 3.95 | 4.18 | 4.52 | 4.85 | 5.38 | 5.84 | 6.30 |
| Weekly hours.....                | Num..... | 43.3 | 45.7 | 44.7 | 44.8 | 47.1 | 46.3 | 43.5 | 44.0 | 44.5 | 44.7 |

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

**NO. 1345. PRINCIPAL FUELS, NONMETALS, AND METALS—U.S. PRODUCTION AS PERCENT OF  
WORLD PRODUCTION: 1965 TO 1978**

| MINERAL   | WORLD PRODUCTION                 |      |      |       |       |                | PERCENT U.S. OF WORLD |      |      |      |                |
|---|----------------------------------|------|------|-------|-------|----------------|-----------------------|------|------|------|----------------|
|   | Unit                             | 1965 | 1970 | 1975  | 1977  | 1978,<br>prel. | 1965                  | 1970 | 1975 | 1977 | 1978,<br>prel. |
| <b>Fuels: <sup>1</sup></b>  |                                  |      |      |       |       |                |                       |      |      |      |                |
| Coal.....   | Bil. sh. tons.....               | 3.1  | 3.3  | 3.6   | 3.8   | 3.9            | 17                    | 18   | 18   | 18   | 17             |
| Petroleum (crude).....  | Bil. bbl.....                    | 11.1 | 16.7 | 19.5  | 21.8  | 21.9           | 26                    | 21   | 16   | 14   | 15             |
| Natural gas (marketable).....                                     | Tril. cu. ft.....                | (NA) | 37.7 | 47.3  | 51.4  | 54.7           | 65                    | 58   | 42   | 37   | 34             |
| <b>Nonmetals:</b>   |                                  |      |      |       |       |                |                       |      |      |      |                |
| Asbestos.....   | Mil. sh. tons.....               | 3.1  | 3.9  | 4.6   | 5.2   | 5.2            | 4                     | 3    | 2    | 2    | 2              |
| Barite.....   | Mil. sh. tons.....               | 3.9  | 4.3  | 5.4   | 6.4   | 7.4            | 22                    | 20   | 25   | 23   | 28             |
| Feldspar.....   | Mil. sh. tons.....               | 2.2  | 2.8  | 2.9   | 3.2   | 3.4            | 32                    | 26   | 23   | 23   | 22             |
| Fluorspar.....  | Mil. sh. tons.....               | 3.1  | 4.6  | 5.0   | 5.1   | 5.2            | 8                     | 4    | 3    | 3    | 3              |
| Gypsum.....   | Mil. sh. tons.....               | 53.0 | 56.9 | 65.3  | 74.2  | 76.9           | 19                    | 17   | 15   | 18   | 19             |
| Mica (incl. scrap).....   | 1,000 sh. tons.....              | 218  | 180  | 250   | 289   | 308            | 55                    | 66   | 54   | 60   | 59             |
| Nitrogen, agricultural <sup>2</sup> .....                         | Mil. sh. tons.....               | 18.5 | 33.4 | 46.7  | 50.6  | 72.8           | 27                    | 25   | 20   | 21   | 19             |
| Phosphate rock.....   | Mil. sh. tons.....               | 70.3 | 93.6 | 118.6 | 127.7 | 137.7          | 34                    | 41   | 41   | 37   | 40             |
| Potash (K <sub>2</sub> O equiv.).....                             | Mil. sh. tons.....               | 15.1 | 20.0 | 27.4  | 28.5  | 28.7           | 21                    | 14   | 9    | 9    | 9              |
| Sulfur, elemental.....  | Mil. lg. tons.....               | 15.3 | 22.2 | 49.9  | 51.7  | 53.1           | 48                    | 39   | 22   | 20   | 21             |
| <b>Metals, mine basis:</b>  |                                  |      |      |       |       |                |                       |      |      |      |                |
| Bauxite.....  | Mil. lg. tons.....               | 36.8 | 56.9 | 74.5  | 81.1  | 81.7           | 4                     | 4    | 2    | 2    | 2              |
| Copper <sup>3</sup> .....   | Mil. sh. tons.....               | 5.6  | 6.6  | 7.7   | 8.4   | 8.3            | 24                    | 26   | 18   | 18   | 18             |
| Gold.....   | Mil. troy oz.....                | 46.2 | 47.5 | 38.7  | 38.9  | 39.3           | 4                     | 4    | 3    | 3    | 3              |
| Iron ore.....   | Mil. lg. tons.....               | 611  | 754  | 887   | 844   | 860            | 14                    | 12   | 9    | 7    | 9              |
| Lead <sup>3</sup> .....   | Mil. sh. tons.....               | 3.0  | 3.7  | 3.8   | 3.7   | 3.8            | 10                    | 15   | 17   | 16   | 15             |
| Mercury.....  | 1,000 flasks <sup>4</sup> .....  | 276  | 284  | 252   | 198   | 176            | 7                     | 10   | 3    | 14   | 14             |
| Molybdenum <sup>5</sup> .....                                     | Mil. lb.....                     | 115  | 181  | 177   | 206   | 217            | 67                    | 61   | 60   | 59   | 60             |
| Nickel <sup>5</sup> .....   | 1,000 sh. tons.....              | 488  | 693  | 868   | 880   | 706            | 3                     | 2    | 2    | 2    | 2              |
| Silver.....   | Mil. troy oz.....                | 257  | 301  | 298   | 337   | 340            | 16                    | 15   | 12   | 11   | 11             |
| <b>Titanium concentrates:</b>                                     |                                  |      |      |       |       |                |                       |      |      |      |                |
| Ilmenite <sup>5</sup> .....                                       | Mil. sh. tons.....               | 2.7  | 4.0  | 3.2   | 3.7   | 3.9            | 36                    | 23   | 22   | 17   | 15             |
| Tungsten.....   | Mil. lb.....                     | 59.6 | 71.4 | 84.9  | 93.9  | 103.7          | 13                    | 13   | 7    | 6    | 7              |
| Uranium oxide (U <sub>3</sub> O <sub>8</sub> ) <sup>5</sup> ..... | 1,000 sh. tons.....              | 21   | 24   | 27    | 38    | (NA)           | 49                    | 53   | 43   | 39   | (NA)           |
| Vanadium <sup>5</sup> .....                                       | 1,000 sh. tons.....              | 9.1  | 19.9 | 23.2  | 33.3  | 34.2           | 58                    | 26   | 20   | 20   | 12             |
| Zinc <sup>5</sup> .....   | Mil. sh. tons.....               | 4.7  | 6.0  | 6.4   | 6.7   | 5.9            | 13                    | 9    | 7    | 7    | 5              |
| <b>Metals, smelter basis:</b>                                     |                                  |      |      |       |       |                |                       |      |      |      |                |
| Aluminum.....   | Mil. sh. tons.....               | 7.0  | 10.6 | 13.4  | 15.0  | 15.5           | 37                    | 37   | 29   | 30   | 31             |
| Cadmium.....  | Mil. lb.....                     | 26.1 | 36.5 | 33.9  | 38.8  | 36.2           | 27                    | 26   | 13   | 11   | 10             |
| Copper.....   | Mil. sh. tons.....               | 6.1  | 6.8  | 7.7   | 8.3   | 8.7            | 24                    | 24   | 18   | 17   | 17             |
| Iron, pig (incl. ferroalloys).....                                | Mil. sh. tons.....               | 369  | 474  | 529   | 543   | 558            | 25                    | 19   | 15   | 15   | 16             |
| Lead.....   | Mil. sh. tons.....               | 2.9  | 3.6  | 3.6   | 3.7   | 3.8            | 14                    | 18   | 17   | 16   | 16             |
| Magnesium.....  | 1,000 sh. tons.....              | 178  | 242  | 258   | 277   | 312            | 46                    | 46   | 47   | 45   | 48             |
| Steel ingots and castings.....                                    | Mil. sh. tons.....               | 507  | 655  | 713   | 738   | 780            | 26                    | 20   | 16   | 17   | 18             |
| Tin.....  | 1,000 m. tons <sup>6</sup> ..... | 200  | 227  | 228   | 232   | 247            | 2                     | (NA) | 3    | 3    | 2              |
| Zinc.....   | Mil. sh. tons.....               | 4.4  | 5.3  | 5.5   | 6.3   | 6.4            | 23                    | 16   | 8    | 7    | 5              |

NA Not available. <sup>1</sup> Source: Beginning 1977, U.S. Dept. of Energy, *Annual Report to the Congress*. See table 1049 for production by world region. <sup>2</sup> For years ending June 30, U.S. production includes Puerto Rico. <sup>3</sup> Content of ore and concentrate. <sup>4</sup> 76-lb. flasks. <sup>5</sup> Excludes U.S.S.R. <sup>6</sup> Metric tons.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*, annual.

**NO. 1346. FEDERAL STRATEGIC AND CRITICAL MATERIALS INVENTORY: 1965 TO 1979**

[In millions of dollars. As of Dec. 31. Covers strategic and critical materials essential to military and industrial requirements in time of national emergency. Market values are estimated current trade values of similar materials and not necessarily amounts that would be realized at time of sale]

| INVENTORY                    | 1965         | 1970         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978          | 1979          |
|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| <b>Acquisition cost:</b>     |              |              |              |              |              |              |              |               |               |
| <b>Total in storage.....</b> | <b>8,033</b> | <b>6,373</b> | <b>5,220</b> | <b>4,136</b> | <b>3,960</b> | <b>3,852</b> | <b>3,721</b> | <b>3,639</b>  | <b>3,588</b>  |
| National stockpile.....      | 5,285        | 4,248        | 3,421        | 2,661        | 2,555        | 2,479        | 2,501        | 2,487         | 3,499         |
| Supplemental stockpile.....  | 1,403        | 1,420        | 1,289        | 1,130        | 1,095        | 1,076        | 1,059        | 1,045         |               |
| Defense Production Act.....  | 1,341        | 705          | 510          | 346          | 310          | 297          | 161          | 107           | 89            |
| <b>Market value:</b>         |              |              |              |              |              |              |              |               |               |
| <b>Total in storage.....</b> | <b>7,804</b> | <b>7,105</b> | <b>7,400</b> | <b>8,037</b> | <b>7,433</b> | <b>8,160</b> | <b>9,153</b> | <b>10,395</b> | <b>14,809</b> |
| National stockpile.....      | 5,642        | 5,081        | 5,612        | 5,742        | 5,259        | 6,014        | 7,122        | 8,321         | 14,767        |
| Supplemental stockpile.....  | 1,317        | 1,587        | 1,502        | 2,080        | 1,948        | 1,900        | 1,893        | 2,014         |               |
| Defense Production Act.....  | 841          | 437          | 286          | 215          | 226          | 246          | 138          | 60            | 42            |

Source: U.S. General Services Administration, *Statistical Supplement, Stockpile Report to the Congress* (OP-4).

**No. 1347. AVERAGE ANNUAL IMPORTS AND EXPORTS OF RAW MATERIALS IN CONSTANT (1972) DOLLARS, BY BROAD PRODUCTS GROUPS: 1950 TO 1977**

[In millions of constant (1972) dollars. Data exclude gold]

| ITEM                               | IMPORTS   |           |           |           |           |           | EXPORTS   |           |           |           |           |           |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                    | 1950-1954 | 1955-1959 | 1960-1964 | 1965-1969 | 1970-1974 | 1975-1977 | 1950-1954 | 1955-1959 | 1960-1964 | 1965-1969 | 1970-1974 | 1975-1977 |
| <b>All raw materials</b> .....     | 8,611     | 10,204    | 11,441    | 14,055    | 18,034    | 21,507    | 4,568     | 6,088     | 7,730     | 8,682     | 11,257    | 13,192    |
| Minerals.....                      | 3,301     | 4,528     | 4,884     | 6,847     | 9,832     | 13,173    | 1,421     | 1,845     | 1,824     | 2,045     | 2,346     | 2,413     |
| Iron and ferroalloy ores.....      | 649       | 918       | 942       | 1,307     | 1,455     | 1,497     | 206       | 366       | 484       | 468       | 585       | 594       |
| Other metal ores.....              | 1,232     | 1,379     | 1,000     | 1,350     | 1,551     | 1,756     | 283       | 392       | 560       | 578       | 617       | 616       |
| Fuels.....                         | 1,172     | 1,922     | 2,570     | 3,475     | 6,182     | 9,202     | 857       | 974       | 617       | 750       | 825       | 834       |
| Construction materials.....        | 100       | 111       | 127       | 135       | 156       | 137       | 6         | 7         | 11        | 21        | 26        | 37        |
| Other nonmetallic.....             | 148       | 197       | 245       | 380       | 488       | 580       | 69        | 106       | 152       | 228       | 293       | 332       |
| Agricultural materials.....        | 4,283     | 4,490     | 4,992     | 5,307     | 5,858     | 6,027     | 2,941     | 3,992     | 5,557     | 6,055     | 8,103     | 9,919     |
| Forest products.....               | 548       | 627       | 771       | 966       | 1,219     | 1,197     | 165       | 201       | 285       | 474       | 641       | 667       |
| Fishery and wildlife products..... | 479       | 559       | 793       | 1,135     | 1,124     | 1,110     | 40        | 51        | 64        | 108       | 167       | 193       |

Source: U.S. Bureau of the Census and U.S. Bureau of Mines: *Raw Materials in the United States Economy 1900-1977*, Technical Paper 47.

**No. 1348. SELECTED MINERAL AND METAL PRODUCTS—IMPORTS AND EXPORTS: 1965 TO 1979**

[Imports represent imports for consumption. Exports include shipments under foreign aid programs. Includes trade of Puerto Rico with foreign countries]

| PRODUCT                                  | QUANTITY                          |      |      |       |        |        | VALUE (mil. dol.) |       |        |        |        |
|--|-----------------------------------|------|------|-------|--------|--------|-------------------|-------|--------|--------|--------|
|  | Unit                              | 1965 | 1970 | 1975  | 1978   | 1979   | 1965              | 1970  | 1975   | 1978   | 1979   |
| <b>IMPORTS</b>                           |                                   |      |      |       |        |        |                   |       |        |        |        |
| <b>Petroleum, crude</b> .....            | Mil. bbl.....                     | 502  | 535  | 1,581 | 2,406  | 2,375  | 1,120             | 1,260 | 18,290 | 32,298 | 46,058 |
| <b>Nonmetallic minerals:</b>             |                                   |      |      |       |        |        |                   |       |        |        |        |
| Asbestos.....                            | 1,000 sh. tons.....               | 684  | 639  | 525   | 605    | 553    | 66                | 74    | 108    | 148    | 132    |
| Diamonds: Gem.....                       | Mil. carats.....                  | 3.2  | 4.3  | 4.6   | 6.7    | 4.5    | 307               | 425   | 722    | 1,962  | 1,859  |
| Industrial.....                          | Mil. carats.....                  | 12.2 | 11.2 | 10.9  | 13.5   | 11.4   | 54                | 44    | 45     | 67     | 79     |
| <b>Ores and concentrates:</b>            |                                   |      |      |       |        |        |                   |       |        |        |        |
| Bauxite.....                             | Mil. lg. tons.....                | 12.5 | 14.3 | 11.6  | 13.8   | 14.0   | 143               | 156   | 235    | 384    | 375    |
| Chromite.....                            | Mil. sh. tons.....                | 1.5  | 1.4  | 1.3   | 1.0    | 1.0    | 25                | 32    | 61     | 51     | 54     |
| Copper.....                              | 1,000 sh. tons <sup>1</sup> ..... | 11   | 66   | 29    | 24     | 34     | 6                 | 79    | 36     | 25     | 48     |
| Iron ore.....                            | Mil. lg. tons.....                | 45.1 | 44.9 | 46.7  | 33.6   | 34.8   | 444               | 479   | 860    | 845    | 923    |
| Lead.....                                | 1,000 sh. tons <sup>1</sup> ..... | 129  | 43   | 45    | 68     | 49     | 27                | 8     | 12     | 25     | 33     |
| Manganese ore.....                       | Mil. sh. tons.....                | 3.9  | 1.7  | 1.6   | .6     | .5     | 110               | 34    | 77     | 37     | 27     |
| Nickel <sup>2</sup> .....                | 1,000 sh. tons.....               | 31   | 33   | 23    | 24     | 2      | 41                | 96    | 78     | 19     | 8      |
| Tin.....                                 | 1,000 lg. tons <sup>1</sup> ..... | 4    | 5    | 6     | 7      | 4      | 13                | 14    | 44     | 54     | 54     |
| Tungsten.....                            | 1,000 sh. tons <sup>2</sup> ..... | 1.8  | .6   | 3.2   | 4.6    | 5.6    | 4                 | 3     | 32     | 68     | 85     |
| <b>Metals (incl. scrap):<sup>3</sup></b> |                                   |      |      |       |        |        |                   |       |        |        |        |
| Aluminum.....                            | 1,000 sh. tons.....               | 555  | 887  | 489   | 468    | 332    | 227               | 177   | 344    | 422    | 347    |
| Copper.....                              | 1,000 sh. tons.....               | 137  | 137  | 164   | 483    | 261    | 94                | 154   | 188    | 555    | 443    |
| Lead <sup>4</sup> .....                  | 1,000 sh. tons.....               | 232  | 253  | 105   | 282    | 212    | 70                | 80    | 53     | 183    | 224    |
| Nickel.....                              | 1,000 sh. tons.....               | 136  | 137  | 176   | 243    | 150    | 208               | 327   | 520    | 737    | 685    |
| Platinum group.....                      | Mil. troy oz.....                 | 1.2  | 1.4  | 1.7   | 2.9    | 3.5    | 73                | 105   | 255    | 447    | 838    |
| Tin <sup>5</sup> .....                   | 1,000 lg. tons.....               | 41   | 51   | 52    | 52     | 55     | 160               | 188   | 315    | 574    | 711    |
| Zinc.....                                | 1,000 sh. tons.....               | 159  | 262  | 380   | 696    | 586    | 44                | 74    | 275    | 389    | 393    |
| <b>EXPORTS</b>                           |                                   |      |      |       |        |        |                   |       |        |        |        |
| <b>Fuels:</b>                            |                                   |      |      |       |        |        |                   |       |        |        |        |
| Bituminous coal.....                     | Mil. sh. tons.....                | 50.3 | 71.0 | 65.8  | 30.3   | 50.7   | 466               | 955   | 3,242  | 1,647  | 2,763  |
| Petroleum, crude.....                    | Mil. bbl.....                     | 1.0  | 5.0  | (z)   | (z)    | (z)    | 3                 | 17    | (z)    | 389    | (z)    |
| <b>Metals (incl. scrap):<sup>3</sup></b> |                                   |      |      |       |        |        |                   |       |        |        |        |
| Aluminum (incl. alloys).....             | 1,000 sh. tons.....               | 242  | 466  | 253   | 60     | 85     | 105               | 236   | 163    | 52     | (z)    |
| Copper (incl. alloys).....               | 1,000 sh. tons.....               | 424  | 348  | 145   | 172    | 189    | 312               | 403   | 126    | 151    | (z)    |
| Iron and steel, scrap <sup>6</sup> ..... | Mil. sh. tons.....                | 6.2  | 10.1 | 9.4   | 9.1    | 10.7   | 197               | 432   | 763    | 684    | 1      |
| <b>Nonmetallic minerals:</b>             |                                   |      |      |       |        |        |                   |       |        |        |        |
| Cement, hydraulic.....                   | 1,000 bbl.....                    | 748  | 847  | 988   | 1,407  | 2,130  | 4                 | 5     | 28     | 21     | 30     |
| Phosphate rock.....                      | 1,000 sh. tons.....               | 862  | 815  | 1,285 | 15,094 | 16,300 | 11                | 10    | 37     | 367    | 432    |
| Potash material.....                     | Mil. sh. tons.....                | 1.1  | 1.0  | 1.5   | 2.0    | 1.6    | 43                | 37    | 112    | 120    | (z)    |
| Sulfur <sup>7</sup> .....                | Mil. lg. tons.....                | 2.6  | 1.4  | 1.3   | .8     | 1.9    | 66                | 34    | 70     | 35     | (z)    |

<sup>1</sup> Less than 50,000 or \$500,000. <sup>2</sup> Of metal. <sup>3</sup> Includes matte and oxide. <sup>4</sup> Excludes semilubricated forms, except as noted. <sup>5</sup> Includes alloys in chief value of lead. <sup>6</sup> Includes alloys in chief value of tin. <sup>7</sup> Includes tin plated andterne plated scrap. <sup>8</sup> Includes crude (containing 85 percent or more sulfur), crushed, ground, refined, sublimed, and flowers.

Source: U.S. Bureau of the Census, *U.S. Imports for Consumption and General Imports, TSUSA Commodity and Country*, FT 246, annual; *U.S. Exports, Schedule B Commodity and Country*, FT 410, monthly; and unpublished data.

**NO. 1349. U.S. DIRECT INVESTMENT ABROAD IN MINING AND SMELTING AND IN PETROLEUM—  
VALUE, 1970 TO 1979, AND EARNINGS, 1979, BY REGION AND COUNTRY**

[Minus sign (—) denotes loss. See also *Historical Statistics, Colonial Times to 1970*, series U 41-46]

| REGION AND COUNTRY                               | DIRECT INVESTMENT POSITION <sup>1</sup> (mil. dol.) |              |              |                   |               |               |               |                   | Earnings,<br>1979 <sup>2</sup><br>(mil. dol.) |                |
|--|---|--------------|--------------|-------------------|---------------|---------------|---------------|-------------------|---|----------------|
|  | Mining and smelting                                 |              |              |                   | Petroleum     |               |               |                   | Min-<br>ing,<br>smelt-<br>ing                 | Petro-<br>leum |
|  | 1970  | 1975         | 1978         | 1979 <sup>2</sup> | 1970          | 1975          | 1978          | 1979 <sup>2</sup> |   |                |
| <b>All areas.....</b>                            | <b>5,405</b>  | <b>6,548</b> | <b>6,990</b> | <b>7,185</b>      | <b>19,754</b> | <b>25,972</b> | <b>33,790</b> | <b>41,553</b>     | <b>1,165</b>                                  | <b>13,249</b>  |
| Developed countries.....                         | 3,286   | 4,398        | 4,643        | 4,772             | 11,205        | 20,129        | 26,871        | 31,821            | 799   | 6,768          |
| Canada.....                                      | 2,574   | 3,053        | 3,006        | 3,151             | 4,337         | 6,220         | 8,246         | 9,168             | 441   | 1,667          |
| Europe.....                                      | 36  | 41           | 29           | 44                | 5,481         | 11,165        | 15,122        | 18,555            | —   | 4,469          |
| Japan.....                                       | —   | —            | —            | —                 | 525           | 1,313         | 1,694         | 2,111             | —   | 318            |
| Australia, New Zealand, and South<br>Africa..... | 675   | 1,305        | 1,607        | 1,578             | 863           | 1,430         | 1,809         | 1,986             | 367   | 314            |
| Developing countries.....                        | 2,119   | 2,150        | 2,346        | 2,416             | 6,844         | 2,519         | 4,361         | 7,231             | 364   | 6,275          |
| Latin America.....                               | 1,712   | 1,476        | 1,647        | 1,652             | 2,703         | 3,324         | 3,892         | 4,568             | 308   | 1,383          |
| Africa <sup>3</sup> .....                        | 340   | 488          | 556          | 589               | 1,750         | 1,336         | 1,856         | 2,161             | 25  | 1,172          |
| Middle East <sup>4</sup> .....                   | (z)   | 5            | (d)          | (d)               | 1,265         | —4,888        | —3,701        | (d)               | (d)   | 2,430          |
| Other Asia and Pacific.....                      | 67  | 181          | (d)          | (d)               | 926           | 2,746         | 2,314         | (d)               | (d)   | 1,289          |
| International and unallocated.....               | (x)   | (x)          | (x)          | (x)               | 1,905         | 3,223         | 2,557         | 2,502             | —   | 206            |

— Represents zero. D Withheld to avoid disclosure. X Not applicable. Z Less than \$500,000. <sup>1</sup> Value at yearend. <sup>2</sup> Preliminary. <sup>3</sup> Excludes South Africa. <sup>4</sup> Includes Bahrain, Iran, Israel, Jordan, Kuwait, Lebanon, Qatar, Saudi Arabia, South Yemen, Syria, Trucial States, Oman, and Yemen. Negative direct investment position occurs when U.S. parent company's liabilities to the foreign affiliate are greater than its investment in the foreign affiliate.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1980.

**NO. 1350. NET U.S. IMPORTS OF SELECTED MINERALS AND METALS AS PERCENT OF APPARENT  
CONSUMPTION, 1960 TO 1979, AND BY MAJOR FOREIGN SOURCES, 1975-1978**

[In percent. Figures based on net imports which equal the difference between imports and exports plus or minus government stockpile and industry stock changes]

| MINERAL                        | 1960             | 1965             | 1970             | 1974             | 1975             | 1976 | 1977 | 1978 | 1979 | Rank of major foreign sources,<br>1975-1978            |
|--------------------------------|------------------|------------------|------------------|------------------|------------------|------|------|------|------|--|
| Columbium.....                 | 100              | 100              | 100              | 100              | 100              | 100  | 100  | 100  | 100  | Brazil, Canada, Thailand.                              |
| Mica (sheet).....              | 94               | 94               | 100              | 100              | 100              | 100  | 100  | 100  | 100  | India, Brazil, Madagascar.                             |
| Strontium.....                 | 100              | 100              | 100              | 100              | 100              | 100  | 100  | 100  | 100  | Mexico, Spain.   |
| Manganese.....                 | 89               | 94               | 95               | 98               | 98               | 98   | 98   | 97   | 98   | South Africa, Gabon, Brazil, France.                   |
| Tantalum.....                  | 94               | 95               | 96               | 98               | 81               | 96   | 97   | 97   | 96   | Thailand, Canada, Malaysia, Brazil.                    |
| Bauxite <sup>1</sup> .....     | 74               | 85               | 88               | 92               | 91               | 91   | 91   | 93   | 93   | Jamaica, Australia, Guinea, Surinam.                   |
| Cobalt.....                    | 66               | 82               | 99               | 99               | 98               | 98   | 97   | 95   | 90   | Zaire, Belg.-Lux., Zambia, Finland, Canada.            |
| Chromium.....                  | 85               | 92               | 89               | 90               | 91               | 89   | 91   | 91   | 90   | South Africa, U.S.S.R., Zimbabwe, Turkey, Philippines. |
| Platinum group.....            | 82               | 87               | 78               | 87               | 83               | 90   | 91   | 90   | 89   | South Africa, U.S.S.R., United Kingdom.                |
| Asbestos.....                  | 94               | 85               | 83               | 87               | 84               | 84   | 85   | 85   | 85   | Canada, South Africa.                                  |
| Tin.....                       | 82               | 80               | 81               | 84               | 84               | 85   | 82   | 81   | 81   | Malaysia, Thailand, Indonesia, Bolivia.                |
| Nickel.....                    | 72               | 73               | 71               | 72               | 72               | 70   | 70   | 77   | 77   | Canada, Norway, New Caledonia, Domin. Rep.             |
| Potassium.....                 | ( <sup>2</sup> ) | 7                | 42               | 58               | 51               | 61   | 63   | 64   | 66   | Canada, Israel.  |
| Cadmium.....                   | 13               | 20               | 7                | 46               | 41               | 64   | 51   | 63   | 66   | Canada, Australia, Mexico, Belg.-Lux.                  |
| Zinc.....                      | 46               | 53               | 54               | 59               | 61               | 58   | 57   | 66   | 62   | Canada, Mexico, Spain, Honduras.                       |
| Mercury.....                   | 25               | 49               | 41               | 86               | 69               | 62   | 45   | 64   | 62   | Algeria, Spain, Italy, Canada, Yugoslavia.             |
| Tungsten.....                  | 32               | 57               | 50               | 52               | 46               | 53   | 52   | 56   | 59   | Canada, Bolivia, Rep. of Korea.                        |
| Gold.....                      | 56               | 72               | 59               | 83               | 52               | 60   | 61   | 53   | 56   | Canada, Switzerland, U.S.S.R.                          |
| Titanium <sup>3</sup> .....    | 22               | 9                | 24               | 33               | 25               | 28   | 39   | 41   | 46   | Australia, Canada.                                     |
| Petroleum <sup>4</sup> .....   | 16               | 19               | 21               | 37               | 35               | 41   | 51   | 47   | 45   | Saudi Arabia, Nigeria, Libya, Venezuela.               |
| Silver.....                    | 43               | 16               | 26               | 44               | 12               | 45   | 31   | 48   | 45   | Canada, Mexico, Peru, United Kingdom.                  |
| Antimony.....                  | 43               | 36               | 40               | 44               | 49               | 54   | 41   | 43   | 43   | South Africa, Bolivia, China Mainland, Mexico.         |
| Selenium.....                  | 25               | 44               | 11               | 59               | 66               | 59   | 52   | 43   | 40   | Canada, Japan, Yugoslavia, Mexico.                     |
| Barium.....                    | 45               | 46               | 45               | 38               | 32               | 42   | 38   | 37   | 40   | Peru, Ireland, Mexico, Morocco.                        |
| Gypsum.....                    | 35               | 37               | 39               | 37               | 34               | 35   | 31   | 32   | 33   | Canada, Mexico, Jamaica.                               |
| Iron ore.....                  | 18               | 32               | 30               | 37               | 30               | 31   | 48   | 29   | 28   | Canada, Venezuela, Brazil, Liberia.                    |
| Vanadium.....                  | ( <sup>2</sup> ) | 15               | 21               | 36               | 38               | 37   | 35   | 36   | 25   | South Africa, Chile, U.S.S.R.                          |
| Copper.....                    | ( <sup>2</sup> ) | 15               | ( <sup>2</sup> ) | 20               | ( <sup>2</sup> ) | 12   | 13   | 20   | 13   | Canada, Chile, Zambia, Peru.                           |
| Iron and steel.....            | ( <sup>2</sup> ) | 7                | 4                | 7                | 9                | 8    | 15   | 12   | 11   | Japan, Europe, Canada.                                 |
| Sulfur.....                    | ( <sup>2</sup> ) | ( <sup>2</sup> ) | ( <sup>2</sup> ) | ( <sup>2</sup> ) | ( <sup>2</sup> ) | —    | 6    | 12   | 11   | Canada, Mexico.  |
| Aluminum.....                  | ( <sup>2</sup> ) | 4                | ( <sup>2</sup> ) | 4                | ( <sup>2</sup> ) | 9    | 7    | 11   | 8    | Canada.  |
| Natural gas <sup>5</sup> ..... | 1                | 3                | 4                | 5                | 5                | 5    | 5    | 6    | 6    | Canada, Mexico, Algeria.                               |

— Represents zero. <sup>1</sup> Includes alumina. <sup>2</sup> Net exports. <sup>3</sup> Ilmenite. <sup>4</sup> Includes crude and products.

<sup>5</sup> Source: Beginning 1977, Energy Information Administration: "Petroleum" from P.A.D. Supply and Demand, annual; "Natural gas" from Petroleum Statement, monthly.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*; import and export data from U.S. Bureau of the Census.

## NO. 1351. FUEL CONSUMPTION, BY TYPE OF USE: 1960 TO 1979

| FUEL AND USE                          | Unit          | CONSUMPTION |        |        |        |        |        |        |                   | PERCENT USE |      |                   |
|---------------------------------------|---------------|-------------|--------|--------|--------|--------|--------|--------|-------------------|-------------|------|-------------------|
|                                       |               | 1960        | 1965   | 1970   | 1975   | 1976   | 1977   | 1978   | 1979 <sup>1</sup> | 1965        | 1970 | 1979 <sup>1</sup> |
| <b>Petroleum <sup>2</sup></b>         | Mil. bbl.     | 3,611       | 4,202  | 5,365  | 5,958  | 6,391  | 6,727  | 6,879  | 6,707             | 100         | 100  | 100               |
| Fuel use                              | Mil. bbl.     | 3,301       | 3,802  | 4,787  | 5,299  | 5,689  | (NA)   | (NA)   | (NA)              | 90          | 89   | (NA)              |
| Nonfuel use                           | Mil. bbl.     | 310         | 400    | 578    | 659    | 702    | (NA)   | (NA)   | (NA)              | 10          | 11   | (NA)              |
| Residential <sup>3</sup>              | Mil. bbl.     | 853         | 978    | 1,129  | 1,007  | 1,094  | 1,244  | 1,251  | 1,259             | 23          | 21   | 19                |
| Industrial                            | Mil. bbl.     | 644         | 740    | 961    | 1,046  | 1,243  | 1,288  | 1,309  | 1,332             | 18          | 18   | 20                |
| Transportation                        | Mil. bbl.     | 1,934       | 2,272  | 2,903  | 3,336  | 3,501  | 3,549  | 3,707  | 3,549             | 54          | 54   | 53                |
| Electrical generation                 | Mil. bbl.     | 90          | 119    | 334    | 518    | 553    | 647    | 612    | 567               | 3           | 6    | 8                 |
| Miscellaneous                         | Mil. bbl.     | 90          | 93     | 38     | 51     | -      | -      | -      | -                 | 2           | 1    | -                 |
| <b>Natural gas (dry)</b>              | Bil. cu. ft.  | 12,269      | 15,598 | 21,367 | 19,537 | 19,947 | 19,521 | 19,627 | 19,488            | 100         | 100  | 100               |
| Fuel use                              | Bil. cu. ft.  | 11,949      | 15,216 | 20,815 | 19,008 | 19,390 | (NA)   | (NA)   | (NA)              | 97          | 97   | (NA)              |
| Nonfuel use                           | Bil. cu. ft.  | 320         | 382    | 552    | 529    | 557    | (NA)   | (NA)   | (NA)              | 3           | 3    | (NA)              |
| Residential <sup>3</sup>              | Bil. cu. ft.  | 4,123       | 5,347  | 6,894  | 7,192  | 7,434  | 7,065  | 7,213  | 7,648             | 34          | 32   | 39                |
| Industrial                            | Bil. cu. ft.  | 4,535       | 5,958  | 7,889  | 6,979  | 6,967  | 6,815  | 6,757  | 6,209             | 37          | 37   | 32                |
| Pipeline fuel                         | Bil. cu. ft.  | 347         | 501    | 722    | 583    | 548    | 533    | 530    | 522               | 3           | 3    | 3                 |
| Electrical generation                 | Bil. cu. ft.  | 1,725       | 2,318  | 3,894  | 3,147  | 3,078  | 3,191  | 3,188  | 3,490             | 14          | 18   | 18                |
| Lease and plant fuel                  | Bil. cu. ft.  | 1,237       | 1,156  | 1,399  | 1,396  | 1,634  | 1,659  | 1,648  | 1,619             | 10          | 7    | 8                 |
| Miscellaneous                         | Bil. cu. ft.  | 302         | 318    | 569    | 240    | 286    | 257    | 291    | (NA)              | 2           | 3    | (NA)              |
| <b>Coal <sup>4</sup> <sup>5</sup></b> | Mil. sh. tons | 407         | 473    | 524    | 563    | 604    | 625    | 625    | 681               | 100         | 100  | 100               |
| Fuel use                              | Mil. sh. tons | 393         | 467    | 518    | 563    | 604    | 625    | 625    | 681               | 99          | 99   | 100               |
| Nonfuel use                           | Mil. sh. tons | 5           | 5      | 6      | (2)    | (2)    | (2)    | (2)    | (2)               | 1           | 1    | (2)               |
| Residential <sup>3</sup>              | Mil. sh. tons | 37          | 26     | 16     | 9      | 9      | 9      | 10     | 9                 | 6           | 3    | 1                 |
| Industrial                            | Mil. sh. tons | 175         | 201    | 187    | 148    | 147    | 139    | 135    | 143               | 43          | 36   | 21                |
| Electrical generation                 | Mil. sh. tons | 177         | 245    | 321    | 406    | 448    | 477    | 481    | 529               | 52          | 61   | 78                |

- Represents zero. NA Not available. Z. Less than 500,000 short tons or .5 percent. <sup>1</sup> Preliminary. Products refined and processed from crude oil, including still gas, liquefied refinery gas, and natural gas liquids. <sup>2</sup> Includes commercial. <sup>3</sup> Includes anthracite, bituminous, and lignite coals. <sup>4</sup> Includes transportation and miscellaneous, not shown separately.

Source: Through 1975, U.S. Bureau of Mines, *United States Energy Through the Year 2000*, December 1972; and *Minerals Yearbook* (in some cases data have been revised by EIA); thereafter, U.S. Energy Information Administration, *Annual Report to Congress*, vol. II.

## NO. 1352. PETROLEUM INDUSTRY—SUMMARY: 1940 TO 1979

| YEAR            | PRODUCING OIL WELLS |                              | COMPLETED WELLS DRILLED (1,000) |     |     |     | DOMESTIC OIL PRODUCTION |                            |                            | Imports crude petroleum (mil. bbl.) | Imports refined petroleum products (mil. bbl.) | Refinery capacity (mil. bbl.) |
|-----------------|---------------------|------------------------------|---------------------------------|-----|-----|-----|-------------------------|----------------------------|----------------------------|-------------------------------------|--|-------------------------------|
|                 | Total (1,000)       | Daily output per well (bbl.) | Total                           | Oil | Gas | Dry | Total (mil. bbl.)       | Value at wells (bil. dol.) | Avg. price per bbl. (dol.) |                                     |  |                               |
| 1940.....       | 389                 | 9.6                          | 30                              | 19  | 2   | 7   | 1,353                   | 1.4                        | 1.02                       | 43                                  | 41   | 1,694                         |
| 1945.....       | 416                 | 11.3                         | 27                              | 14  | 3   | 7   | 1,714                   | 2.1                        | 1.22                       | 74                                  | 39   | 1,935                         |
| 1950.....       | 466                 | 11.8                         | 43                              | 24  | 3   | 15  | 1,974                   | 5.0                        | 2.51                       | 178                                 | 133  | 2,444                         |
| 1955.....       | 524                 | 13.2                         | 57                              | 32  | 4   | 21  | 2,484                   | 6.9                        | 2.77                       | 285                                 | 170  | 3,074                         |
| 1960.....       | 591                 | 12.0                         | 44                              | 21  | 5   | 18  | 2,575                   | 7.4                        | 2.88                       | 372                                 | 293  | 3,624                         |
| 1965.....       | 589                 | 13.3                         | 40                              | 19  | 5   | 16  | 2,849                   | 8.2                        | 2.86                       | 452                                 | 449  | 3,933                         |
| 1970.....       | 531                 | 18.0                         | 27                              | 13  | 4   | 11  | 3,517                   | 11.2                       | 3.18                       | 483                                 | 765  | 4,407                         |
| 1971.....       | 517                 | 18.1                         | 25                              | 11  | 4   | 10  | 3,454                   | 11.7                       | 3.39                       | 613                                 | 819  | 4,752                         |
| 1972.....       | 508                 | 18.4                         | 26                              | 11  | 5   | 11  | 3,455                   | 11.7                       | 3.39                       | 811                                 | 924  | 4,916                         |
| 1973.....       | 497                 | 18.3                         | 26                              | 10  | 6   | 10  | 3,361                   | 13.1                       | 3.89                       | 1,184                               | 1,099  | 5,038                         |
| 1974.....       | 498                 | 17.6                         | 31                              | 13  | 7   | 12  | 3,203                   | 21.6                       | 6.74                       | 1,269                               | 962  | 5,289                         |
| 1975.....       | 500                 | 16.8                         | 37                              | 16  | 8   | 13  | 3,057                   | 23.1                       | 7.67                       | 1,498                               | 712  | 5,537                         |
| 1976.....       | 499                 | 16.3                         | 41                              | 17  | 9   | 15  | 2,976                   | 24.2                       | 8.19                       | 1,935                               | 741  | 5,646                         |
| 1977.....       | 508                 | 16.2                         | 45                              | 19  | 11  | 15  | 3,011                   | 25.8                       | 8.57                       | 2,414                               | 800  | 6,149                         |
| 1978.....       | 517                 | 17.0                         | 47                              | 18  | 13  | 16  | 3,178                   | 28.5                       | 8.96                       | 2,319                               | 733  | 6,223                         |
| 1979, prel..... | 527                 | 16.3                         | 49                              | 19  | 15  | 16  | 3,108                   | 39.3                       | 12.64                      | 2,364                               | 706  | 6,366                         |

Source: 1940-1955, American Petroleum Institute, Washington, D.C., *Petroleum Facts and Figures*, biennial; beginning 1960, U.S. Energy Information Administration, *Annual Report to Congress*, 1979, volume II.



## NO. 1353. CRUDE PETROLEUM AND REFINED PRODUCTS: 1965 TO 1979

[Barrels of 42 gallons. See tables 1038 and 1039 for additional information. See also *Historical Statistics, Colonial Times to 1970*, series M 138-142, M 178, and M 181]

| ITEM   | Unit       | 1965   | 1970   | 1973   | 1974   | 1975   | 1976   | 1977   | 1978   | 1979 <sup>1</sup> |
|--|------------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| <b>Crude petroleum:</b>  |            |        |        |        |        |        |        |        |        |                   |
| Domestic production.....   | Mil. bbl.  | 2,849  | 3,517  | 3,361  | 3,203  | 3,057  | 2,976  | 3,009  | 3,178  | 3,108             |
| Value at wells.....  | Bill. dol. | 8.2    | 11.2   | 13.1   | 21.6   | 23.1   | 24.2   | 25.8   | 28.5   | (NA)              |
| Average price per barrel at wells.....   | Dol.       | 2.86   | 3.18   | 3.89   | 6.74   | 7.67   | 8.14   | 8.57   | 8.96   | (NA)              |
| World production.....  | Mil. bbl.  | 11,058 | 16,719 | 20,561 | 20,537 | 19,475 | 21,192 | 21,776 | 21,874 | (NA)              |
| U.S. proportion of world total.....  | Percent    | 26     | 21     | 17     | 16     | 16     | 14     | 14     | 15     | (NA)              |
| Imports.....   | Mil. bbl.  | 452    | 463    | 1,184  | 1,269  | 1,499  | 1,935  | 2,414  | 2,319  | 2,364             |
| Value <sup>2</sup> .....   | Mil. dol.  | 1,118  | 1,052  | 4,231  | 15,420 | 18,374 | 25,480 | 33,583 | 32,140 | 46,100            |
| Exports.....   | Mil. bbl.  | 1      | 5      | 1      | 1      | 2      | 3      | 18     | 58     | 85                |
| Value <sup>2</sup> .....   | Mil. dol.  | 2,841  | 4,991  | 2,621  | 14     | 178    | 27     | 209    | 389    | 394               |
| Stocks, Dec. 31.....   | Mil. bbl.  | 220    | 276    | 242    | 265    | 271    | 285    | 348    | 376    | 430               |
| Proved reserves <sup>3</sup> Dec. 31.....  | Mil. bbl.  | 31,352 | 39,001 | 35,300 | 34,250 | 32,662 | 30,942 | 29,486 | 27,804 | 27,051            |
| <b>Refinery capacity:</b>  |            |        |        |        |        |        |        |        |        |                   |
| Total <sup>4</sup> .....   | Mil. bbl.  | 3,709  | 4,337  | 4,922  | 5,205  | 5,379  | 5,448  | 5,811  | 6,151  | 6,284             |
| Receipts at refineries.....  | Mil. bbl.  | 3,297  | 3,973  | 4,546  | 4,436  | 4,546  | 4,920  | 5,345  | 5,373  | 5,314             |
| By pipeline: Domestic.....   | Mil. bbl.  | 2,363  | 2,840  | 2,905  | 2,754  | 2,662  | 2,643  | 2,530  | 2,418  | 2,280             |
| Foreign.....   | Mil. bbl.  | 107    | 237    | 409    | 370    | 398    | 443    | 568    | 594    | 685               |
| By water: Domestic.....  | Mil. bbl.  | 444    | 610    | 399    | 342    | 305    | 271    | 319    | 584    | 590               |
| Foreign.....   | Mil. bbl.  | 344    | 244    | 775    | 896    | 1,101  | 1,487  | 1,835  | 1,683  | 1,650             |
| By tank cars and trucks.....   | Mil. bbl.  | 38     | 43     | 58     | 74     | 80     | 76     | 94     | 94     | 109               |
| Utilization rate <sup>5</sup> .....  | Percent    | (NA)   | 88.6   | 89.8   | 83.9   | 84.2   | 87.0   | 89.1   | 86.9   | 88.0              |
| <b>Refined products:</b>   |            |        |        |        |        |        |        |        |        |                   |
| Completed refineries, Dec. 31.....   | Number     | 286    | 279    | 284    | 290    | 287    | 291    | 302    | 311    | (NA)              |
| Daily crude oil capacity.....  | Mil. bbl.  | 10.5   | 13.0   | 14.5   | 15.2   | 15.4   | 16.6   | 17.2   | 17.5   | (NA)              |
| Average dealer's net price per gal. (excl. tax) of gasoline (55 cities) <sup>6</sup> ..... | Cents      | 15.38  | 17.68  | 19.48  | 30.54  | 35.78  | 38.99  | 42.51  | 44.54  | (NA)              |
| Yield of gasoline.....   | Percent    | 44.0   | 45.3   | 45.6   | 45.9   | 46.5   | 45.5   | 43.4   | 44.1   | 44.0              |
| Imports.....   | Mil. bbl.  | 449    | 765    | 1,099  | 962    | 712    | 741    | 800    | 733    | 706               |
| Value <sup>2</sup> .....   | Mil. dol.  | 1,047  | 1,413  | 3,318  | 9,223  | 6,751  | 6,106  | 7,943  | 6,844  | 9,752             |
| Exports.....   | Mil. bbl.  | 67     | 89     | 84     | 79     | 74     | 79     | 70     | 74     | 87                |
| Value <sup>2</sup> .....   | Mil. dol.  | 462    | 424    | 391    | 561    | 325    | 501    | 610    | 685    | 858               |
| Stocks, Dec. 31.....   | Mil. bbl.  | 580    | 741    | 766    | 809    | 862    | 826    | 964    | 901    | 912               |

NA Not available. <sup>1</sup> Preliminary. <sup>2</sup> Source: U.S. Bureau of the Census, *FT 135*, monthly, and *FT 410*, monthly. <sup>3</sup> Source: American Petroleum Institute, Washington, D.C., unpublished data. <sup>4</sup> Source: U.S. Energy Information Administration, *Trends in Refinery Capacity and Utilization*, September 1978. <sup>5</sup> Crude runs as percent of domestic capacity. <sup>6</sup> Data from Platt's Oilgram Price Service.

Source: Except as noted, through 1976, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, United States Energy Information Administration, *Energy Data Reports, Petroleum Refineries in the United States and U.S. Territories*, annual.

## NO. 1354. PETROLEUM—RUNS TO STILLS AND REFINERY PRODUCTS, BY CLASS: 1965 TO 1979

[In millions of barrels, except percent. Barrels of 42 gallons, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series M 162-77]

| PRODUCT                                    | 1965         | 1970         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978         | 1979,<br>prel. | PERCENT      |              |                |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|----------------|
|  |              |              |              |              |              |              |              |              |                | 1970         | 1975         | 1979,<br>prel. |
| <b>Input</b>                               | <b>3,527</b> | <b>4,252</b> | <b>4,845</b> | <b>4,714</b> | <b>4,814</b> | <b>5,190</b> | <b>5,594</b> | <b>5,632</b> | <b>5,533</b>   | <b>100.0</b> | <b>100.0</b> | <b>100.0</b>   |
| Crude petroleum                            | 3,301        | 3,967        | 4,537        | 4,429        | 4,541        | 4,910        | 5,330        | 5,380        | 5,291          | 93.3         | 94.3         | 95.7           |
| Domestic                                   | 2,848        | 3,485        | 3,360        | 3,169        | 3,047        | 2,989        | 2,932        | 3,100        | 2,962          | 82.0         | 63.3         | 53.5           |
| Foreign                                    | 453          | 482          | 1,177        | 1,260        | 1,494        | 1,921        | 2,398        | 2,280        | 2,329          | 11.3         | 31.0         | 42.1           |
| Natural gas liquids <sup>1</sup>           | 226          | 285          | 308          | 285          | 273          | 279          | 264          | 252          | 242            | 6.7          | 5.7          | 4.4            |
| <b>Output</b>                              | <b>3,527</b> | <b>4,252</b> | <b>4,845</b> | <b>4,714</b> | <b>4,814</b> | <b>5,190</b> | <b>5,594</b> | <b>5,632</b> | <b>5,533</b>   | <b>100.0</b> | <b>100.0</b> | <b>100.0</b>   |
| Gasoline                                   | 1,694        | 2,100        | 2,399        | 2,336        | 2,393        | 2,516        | 2,581        | 2,616        | 2,495          | 49.4         | 49.7         | 45.1           |
| Distillate fuel oil                        | 765          | 896          | 1,029        | 974          | 968          | 1,070        | 1,196        | 1,155        | 1,144          | 21.1         | 20.1         | 20.7           |
| Residual fuel oil                          | 269          | 258          | 354          | 390          | 451          | 504          | 640          | 609          | 614            | 6.1          | 9.4          | 11.1           |
| Jet fuel                                   | 191          | 302          | 314          | 305          | 318          | 336          | 355          | 354          | 369            | 7.1          | 6.6          | 6.7            |
| Petrochemical feedstocks                   | 58           | 100          | 132          | 135          | 122          | 164          | 193          | 223          | 253            | 2.3          | 2.5          | 4.6            |
| Still gas (1 bbl. = 3,600 cu. ft.)         | 135          | 164          | 177          | 176          | 175          | 181          | 191          | 200          | 202            | 3.9          | 3.6          | 3.7            |
| Asphalt (5.5 bbl. = 1 sh. ton)             | 124          | 147          | 168          | 164          | 144          | 140          | 154          | 173          | 167            | 3.5          | 3.0          | 3.0            |
| Coke (5 bbl. = 1 sh. ton)                  | 86           | 108          | 132          | 124          | 129          | 130          | 135          | 135          | 137            | 2.5          | 2.7          | 2.5            |
| Liquefied gases                            | 107          | 116          | 128          | 117          | 109          | 119          | 122          | 130          | 126            | 2.7          | 2.3          | 2.3            |
| Kerosene                                   | 93           | 95           | 79           | 56           | 56           | 56           | 62           | 56           | 67             | 2.2          | 1.2          | 1.2            |
| Other finished products                    | 117          | 135          | 144          | 149          | 130          | 157          | 165          | 176          | 170            | 3.2          | 2.7          | 3.1            |
| Shortage and other oils (net) <sup>2</sup> | 112          | 169          | 211          | 212          | 181          | 183          | 199          | 195          | 211            | 4.0          | 3.8          | 3.8            |

<sup>1</sup> Includes other liquid hydrocarbon. <sup>2</sup> Negative quantities.

Source: Through 1976, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Energy Data Reports, Petroleum Statement*, annual.

# NO. 1355. CRUDE PETROLEUM AND NATURAL GAS—WELLS DRILLED, FOOTAGE, AND DRILLING COST, BY TYPE OF WELL: 1960 TO 1978

[Includes all costs incurred for drilling and equipping wells to point of completion as productive wells or abandonment after drilling becomes unproductive. Based on sample of operators of different size drilling establishments]

| ITEM AND YEAR        | WELLS DRILLED |          | Footage drilled (mil. ft.) | DRILLING COST (mil. dol.) |          | Average depth per well (ft.) | AVERAGE COST PER WELL (\$1,000) |          | Average cost per ft. (dol.) |
|----------------------|---------------|----------|----------------------------|---------------------------|----------|------------------------------|---------------------------------|----------|-----------------------------|
|                      | Total         | Offshore |                            | Total                     | Offshore |                              | Total                           | Offshore |                             |
| All wells: 1960..... | 44,133        | 538      | 186.4                      | 2,424                     | 208      | 4,223                        | 55                              | 386      | 13.01                       |
| 1965.....            | 39,596        | 1,037    | 178.7                      | 2,401                     | 428      | 4,513                        | 61                              | 413      | 13.44                       |
| 1970.....            | 27,177        | 1,058    | 136.9                      | 2,579                     | 599      | 5,037                        | 95                              | 566      | 18.84                       |
| 1973.....            | 26,244        | 888      | 136.7                      | 3,075                     | 578      | 5,207                        | 117                             | 651      | 22.50                       |
| 1974.....            | 31,481        | 830      | 150.9                      | 4,367                     | 680      | 4,795                        | 139                             | 819      | 28.93                       |
| 1975.....            | 36,960        | 1,028    | 177.6                      | 6,571                     | 1,174    | 4,806                        | 178                             | 1,142    | 36.99                       |
| 1976.....            | 38,941        | 1,028    | 184.4                      | 7,462                     | 1,475    | 4,736                        | 192                             | 1,435    | 40.46                       |
| 1977.....            | 43,826        | 1,217    | 212.7                      | 9,956                     | 2,056    | 4,853                        | 227                             | 1,689    | 46.81                       |
| 1978.....            | 46,655        | 1,197    | 230.6                      | 13,061                    | 2,577    | 4,943                        | 280                             | 2,153    | 56.63                       |
| Oil wells: 1960..... | 21,294        | 301      | 84.0                       | 1,111                     | 98       | 3,946                        | 52                              | 326      | 13.22                       |
| 1965.....            | 18,857        | 487      | 76.5                       | 1,067                     | 193      | 4,059                        | 57                              | 396      | 13.94                       |
| 1970.....            | 12,547        | 533      | 56.4                       | 1,088                     | 282      | 4,496                        | 87                              | 528      | 19.29                       |
| 1973.....            | 9,705         | 296      | 44.7                       | 1,007                     | 182      | 4,602                        | 104                             | 615      | 22.54                       |
| 1974.....            | 13,073        | 253      | 51.8                       | 1,440                     | 170      | 3,960                        | 110                             | 670      | 27.82                       |
| 1975.....            | 16,276        | 283      | 66.1                       | 2,257                     | 253      | 4,059                        | 139                             | 892      | 34.15                       |
| 1976.....            | 16,878        | 275      | 68.3                       | 2,550                     | 322      | 4,044                        | 151                             | 1,172    | 37.35                       |
| 1977.....            | 16,077        | 288      | 74.7                       | 3,073                     | 419      | 4,130                        | 170                             | 1,454    | 41.16                       |
| 1978.....            | 17,790        | 298      | 74.4                       | 3,700                     | 543      | 4,182                        | 208                             | 1,822    | 49.72                       |
| Gas wells: 1960..... | 5,262         | 87       | 29.1                       | 540                       | 53       | 5,526                        | 103                             | 606      | 18.58                       |
| 1965.....            | 4,772         | 118      | 26.5                       | 486                       | 67       | 5,552                        | 102                             | 571      | 18.35                       |
| 1970.....            | 3,844         | 193      | 23.1                       | 618                       | 139      | 6,007                        | 161                             | 720      | 26.75                       |
| 1973.....            | 6,427         | 193      | 36.3                       | 998                       | 154      | 5,654                        | 155                             | 798      | 27.46                       |
| 1974.....            | 6,695         | 155      | 37.1                       | 1,267                     | 152      | 5,546                        | 189                             | 978      | 34.11                       |
| 1975.....            | 7,654         | 271      | 43.4                       | 2,005                     | 338      | 5,667                        | 262                             | 1,247    | 46.23                       |
| 1976.....            | 8,904         | 273      | 48.4                       | 2,407                     | 396      | 5,432                        | 270                             | 1,450    | 49.78                       |
| 1977.....            | 11,479        | 393      | 62.5                       | 3,599                     | 675      | 5,446                        | 314                             | 1,716    | 57.57                       |
| 1978.....            | 13,306        | 419      | 72.8                       | 4,979                     | 983      | 5,472                        | 374                             | 2,345    | 68.37                       |
| Dry holes: 1960..... | 17,577        | 150      | 73.3                       | 774                       | 57       | 4,168                        | 44                              | 377      | 10.56                       |
| 1965.....            | 15,967        | 432      | 75.7                       | 849                       | 167      | 4,739                        | 53                              | 387      | 11.21                       |
| 1970.....            | 10,786        | 332      | 57.4                       | 873                       | 178      | 5,320                        | 81                              | 536      | 15.21                       |
| 1973.....            | 10,112        | 399      | 55.7                       | 1,070                     | 242      | 5,504                        | 106                             | 608      | 19.22                       |
| 1974.....            | 11,713        | 422      | 62.0                       | 1,680                     | 359      | 5,297                        | 142                             | 850      | 26.76                       |
| 1975.....            | 13,030        | 474      | 68.2                       | 2,309                     | 584      | 5,234                        | 177                             | 1,232    | 33.86                       |
| 1976.....            | 13,159        | 480      | 67.8                       | 2,505                     | 757      | 5,152                        | 190                             | 1,577    | 36.94                       |
| 1977.....            | 14,270        | 536      | 75.5                       | 3,285                     | 963      | 5,292                        | 230                             | 1,796    | 43.49                       |
| 1978.....            | 15,559        | 480      | 83.4                       | 4,382                     | 1,052    | 5,359                        | 282                             | 2,191    | 52.55                       |

Source: American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association, *Joint Association Survey of the U.S. Oil and Gas Producing Industry*, annual.

## NO. 1356. OIL AND GAS LEASES AND PRODUCTION ON THE OUTER CONTINENTAL SHELF, BY STATES: 1976 TO 1978

[Barrels of 42 gallons. For years ending June 30 except, beginning 1977, Sept. 30. Covers leases made in ocean waters belonging to the U.S. and subject to its jurisdiction and control under provisions of the Outer Continental Shelf Lands Act. See also table 402]

| STATE                  | LEASES |       |       | ACRES (1,000) |       |        | OIL PRODUCTION (mil. bbl.) |       |       | GAS PRODUCTION (mil. cu. ft.) |       |       |
|------------------------|--------|-------|-------|---------------|-------|--------|----------------------------|-------|-------|-------------------------------|-------|-------|
|                        | 1976   | 1977  | 1978  | 1976          | 1977  | 1978   | 1976                       | 1977  | 1978  | 1976                          | 1977  | 1978  |
| Total.....             | 1,878  | 2,089 | 2,110 | 8,823         | 9,879 | 10,072 | 322.8                      | 301.6 | 291.6 | 3,493                         | 3,653 | 4,252 |
| Alabama.....           | 11     | 11    | 8     | 63            | 63    | 45     | -                          | -     | -     | -                             | -     | -     |
| Alaska.....            | 76     | 76    | 163   | 409           | 409   | 904    | -                          | -     | -     | -                             | -     | -     |
| California.....        | 124    | 121   | 108   | 657           | 640   | 577    | 14.7                       | 12.5  | 12.3  | 4                             | 3     | 3     |
| Florida.....           | 50     | 46    | 35    | 288           | 265   | 202    | -                          | -     | -     | -                             | -     | -     |
| Louisiana.....         | 1,217  | 1,319 | 1,267 | 5,254         | 5,700 | 5,465  | 306.9                      | 288.2 | 278.4 | 3,386                         | 3,560 | 4,093 |
| Mississippi.....       | 6      | 6     | 4     | 35            | 35    | 23     | -                          | -     | -     | -                             | -     | -     |
| Texas.....             | 394    | 417   | 389   | 2,117         | 2,239 | 2,081  | 1.2                        | .9    | .9    | 103                           | 89    | 156   |
| Offshore Atlantic..... | -      | 93    | 136   | -             | 529   | 774    | -                          | -     | -     | -                             | -     | -     |

- Represents zero.

Source: U.S. Bureau of Land Management, *Public Land Statistics*, annual.

**NO. 1357. PETROLEUM INDUSTRY—EXPENDITURES FOR NEW PLANT AND EQUIPMENT, BY  
FUNCTION: 1960 TO 1980**

[In billions of dollars]

| EXPENDITURE FUNCTION             | 1960       | 1965       | 1970       | 1972       | 1973       | 1974       | 1975        | 1976        | 1977        | 1978        | 1979        | 1980 <sup>1</sup> |
|----------------------------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| <b>Total</b> .....               | <b>2.9</b> | <b>4.0</b> | <b>5.6</b> | <b>5.3</b> | <b>5.5</b> | <b>6.0</b> | <b>10.5</b> | <b>11.6</b> | <b>13.9</b> | <b>15.5</b> | <b>16.6</b> | <b>19.3</b>       |
| Production.....                  | 1.6        | 2.0        | 2.2        | 2.2        | 2.6        | 3.9        | 5.1         | 5.6         | 7.1         | 8.2         | 8.4         | 9.8               |
| Refining and petrochemicals..... | .6         | .9         | 1.4        | 1.2        | 1.1        | 2.2        | 2.9         | 3.4         | 3.6         | 3.7         | 4.4         | 4.6               |
| Marketing.....                   | .5         | .7         | 1.1        | 1.0        | .6         | .5         | .5          | .6          | .7          | .8          | .8          | .7                |
| Transportation.....              | .2         | .2         | .4         | .3         | .4         | .5         | .8          | 1.0         | 1.0         | .7          | .7          | 1.1               |
| Other.....                       | .1         | .2         | .6         | .6         | .7         | .9         | 1.2         | 1.1         | 1.6         | 2.1         | 2.2         | 3.1               |

<sup>1</sup> Estimates are based on planned capital expenditures reported in late January and February 1980.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, March Issues.

**NO. 1358. CRUDE PETROLEUM AND NATURAL GAS—SALES VOLUME AND LEASE REVENUES,  
1967 TO 1978, AND DRILLING EXPENDITURES AND EMPLOYMENT, 1973 TO 1978**

[Figures on a gross operator basis, under which individual companies responsible for management and operation of oil and gas field leases reported on all properties operated for their own account and account of others. Lease revenues represent revenues generated from sales of either crude petroleum or natural gas, comparable to sales volume reported and including production payment, royalty, and nonoperating working interest shares]

| ITEM AND YEAR  | All<br>com-<br>panies,<br>total | COMPANIES RANKED BY LEASE REVENUES |            |            |              |              | PERCENT OF TOTAL |           |           |
|--|---------------------------------|------------------------------------|------------|------------|--------------|--------------|------------------|-----------|-----------|
|  |                                 | Top 8                              | Next 8     | Next 16    | Top 50       | Top 100      | Top 8            | Top 16    | Top 32    |
| <b>Sales volume of—</b>                              |                                 |                                    |            |            |              |              |                  |           |           |
| Crude petroleum: <sup>1</sup> 1967.....              | 3,044                           | 1,647                              | 517        | 263        | 2,552        | 2,659        | 54               | 71        | 80        |
| 1972.....  | 3,373                           | 1,818                              | 613        | 317        | 2,852        | 2,977        | 54               | 72        | 81        |
| 1973.....  | 3,348                           | 1,802                              | 619        | 299        | 2,840        | 2,964        | 54               | 72        | 81        |
| 1974.....  | 3,159                           | 1,708                              | 581        | 291        | 2,693        | 2,811        | 54               | 72        | 82        |
| 1975.....  | 3,086                           | 1,654                              | 553        | 282        | 2,626        | 2,753        | 54               | 72        | 81        |
| 1976.....  | 2,905                           | 1,482                              | 588        | 270        | 2,436        | 2,585        | 51               | 71        | 80        |
| 1977.....  | 3,015                           | 1,498                              | 617        | 278        | 2,529        | 2,669        | 49               | 70        | 79        |
| 1978.....  | 3,148                           | 1,475                              | 728        | 317        | 2,645        | 2,766        | 46               | 69        | 84        |
| Natural gas: 1967.....                               | 17,126                          | 7,904                              | 3,105      | 2,551      | 14,377       | 15,560       | 46               | 64        | 78        |
| 1972.....  | 21,902                          | 10,607                             | 3,546      | 2,800      | 18,170       | 19,446       | 48               | 65        | 77        |
| 1973.....  | 22,315                          | 11,322                             | 3,578      | 2,703      | 18,505       | 19,851       | 51               | 67        | 79        |
| 1974.....  | 21,878                          | 9,881                              | 4,085      | 2,529      | 17,539       | 19,098       | 45               | 64        | 75        |
| 1975.....  | 20,455                          | 8,896                              | 3,864      | 2,391      | 16,207       | 17,661       | 44               | 62        | 74        |
| 1976.....  | 19,902                          | 8,727                              | 3,515      | 2,589      | 15,906       | 17,273       | 44               | 62        | 75        |
| 1977.....  | 19,607                          | 8,377                              | 2,732      | 2,894      | 15,391       | 16,749       | 42               | 56        | 71        |
| 1978.....  | 19,436                          | 8,144                              | 2,874      | 2,887      | 15,271       | 16,703       | 41               | 56        | 71        |
| <b>Lease revenues for—</b>                           |                                 |                                    |            |            |              |              |                  |           |           |
| Crude petroleum: <sup>1</sup> 1967.....              | 8,800                           | 4,899                              | 1,475      | 730        | 7,456        | 7,763        | 56               | 72        | 81        |
| 1972.....  | 11,332                          | 6,194                              | 2,024      | 1,053      | 9,608        | 10,018       | 55               | 73        | 82        |
| 1973.....  | 13,040                          | 7,036                              | 2,448      | 1,136      | 11,103       | 11,601       | 54               | 73        | 81        |
| 1974.....  | 20,938                          | 11,205                             | 3,708      | 1,812      | 17,495       | 18,345       | 54               | 71        | 80        |
| 1975.....  | 22,652                          | 11,961                             | 3,948      | 1,915      | 18,900       | 19,978       | 52               | 70        | 78        |
| 1976.....  | 22,936                          | 11,537                             | 4,279      | 2,004      | 18,673       | 19,951       | 50               | 69        | 78        |
| 1977.....  | 25,071                          | 11,967                             | 4,572      | 2,493      | 20,179       | 21,490       | 47               | 65        | 75        |
| 1978.....  | 27,381                          | 12,609                             | 5,464      | 2,989      | 22,202       | 23,440       | 46               | 66        | 76        |
| Natural gas: 1967.....                               | 2,888                           | 1,341                              | 501        | 419        | 2,438        | 2,640        | 46               | 64        | 78        |
| 1972.....  | 4,317                           | 2,062                              | 687        | 591        | 3,596        | 3,843        | 48               | 64        | 77        |
| 1973.....  | 5,064                           | 2,493                              | 794        | 634        | 4,160        | 4,494        | 49               | 65        | 77        |
| 1974.....  | 6,726                           | 3,036                              | 1,238      | 777        | 5,400        | 5,894        | 45               | 64        | 75        |
| 1975.....  | 8,929                           | 3,859                              | 1,618      | 1,048      | 7,018        | 7,755        | 43               | 61        | 73        |
| 1976.....  | 12,089                          | 4,813                              | 1,989      | 1,558      | 9,251        | 10,168       | 40               | 56        | 69        |
| 1977.....  | 16,820                          | 6,662                              | 2,171      | 2,533      | 12,713       | 13,955       | 39               | 52        | 67        |
| 1978.....  | 19,616                          | 7,441                              | 2,683      | 3,098      | 14,666       | 16,456       | 37               | 51        | 67        |
| <b>Drilling expenditures: <sup>2</sup> 1973.....</b> | <b>3,194</b>                    | <b>1,095</b>                       | <b>367</b> | <b>344</b> | <b>2,202</b> | <b>2,529</b> | <b>36</b>        | <b>48</b> | <b>58</b> |
| (mil. dol.)  |                                 |                                    |            |            |              |              |                  |           |           |
| 1974.....  | 4,607                           | 1,338                              | 585        | 529        | 2,711        | 3,388        | 29               | 42        | 53        |
| 1975.....  | 6,507                           | 1,866                              | 815        | 838        | 3,932        | 4,719        | 29               | 41        | 54        |
| 1976.....  | 8,071                           | 2,706                              | 958        | 1,036      | 5,475        | 6,184        | 34               | 45        | 58        |
| 1977.....  | 10,178                          | 3,081                              | 1,208      | 1,260      | 6,387        | 7,410        | 30               | 42        | 54        |
| 1978.....  | 12,953                          | 3,944                              | 1,732      | 1,641      | 8,319        | 9,770        | 30               | 43        | 56        |
| <b>Employment: 1973.....</b>                         | <b>124</b>                      | <b>38</b>                          | <b>18</b>  | <b>13</b>  | <b>74</b>    | <b>81</b>    | <b>31</b>        | <b>45</b> | <b>55</b> |
| (1,000)  |                                 |                                    |            |            |              |              |                  |           |           |
| 1974.....  | 125                             | 38                                 | 16         | 16         | 75           | 83           | 30               | 43        | 56        |
| 1975.....  | 137                             | 40                                 | 18         | 15         | 79           | 88           | 29               | 42        | 53        |
| 1976.....  | 136                             | 43                                 | 18         | 15         | 81           | 90           | 31               | 44        | 55        |
| 1977.....  | 134                             | 42                                 | 16         | 17         | 81           | 91           | 31               | 43        | 55        |
| 1978.....  | 153                             | 46                                 | 19         | 22         | 93           | 107          | 30               | 42        | 56        |

<sup>1</sup> Includes condensate.    <sup>2</sup> Represents expenditures incurred during the year for drilling and equipping wells.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, MA-13K-1, *Annual Survey of Oil and Gas*.

## NO. 1359. CRUDE PETROLEUM AND NATURAL GAS—PRODUCTION, BY STATES: 1966 TO 1979

[See *Historical Statistics, Colonial Times to 1970*, series M 138 and M 142 for petroleum production, and series M 147-161 for natural gas production]

| STATE              | PETROLEUM PRODUCTION (mil. bbl.) |                 |              |              |              |              |              | NATURAL GAS MARKETING PRODUCTION (bil. cu. ft.) |                 |               |               |               |               |               |
|--------------------|----------------------------------|-----------------|--------------|--------------|--------------|--------------|--------------|---|-----------------|---------------|---------------|---------------|---------------|---------------|
|                    | 1966-1970, avg.                  | 1971-1975, avg. | 1975         | 1976         | 1977         | 1978         | 1979         | 1966-1970, avg.                                 | 1971-1975, avg. | 1975          | 1976          | 1977          | 1978          | 1979          |
| <b>Total</b> ..... | <b>3,292</b>                     | <b>3,306</b>    | <b>3,057</b> | <b>2,976</b> | <b>3,009</b> | <b>3,178</b> | <b>3,115</b> | <b>19,464</b>                                   | <b>21,876</b>   | <b>20,109</b> | <b>19,952</b> | <b>20,026</b> | <b>19,974</b> | <b>20,471</b> |
| Ala.....           | 8                                | 11              | 13           | 14           | 18           | 20           | 19           | (2)   | 16              | 38            | 41            | 57            | 86            | 86            |
| Alaska.....        | 53                               | 73              | 70           | 63           | 169          | 449          | 512          | 41  | 134             | 160           | 166           | 188           | 203           | 221           |
| Ark.....           | 21                               | 17              | 16           | 18           | 20           | 20           | 19           | 146   | 147             | 116           | 110           | 104           | 107           | 110           |
| Calif.....         | 365                              | 337             | 322          | 326          | 350          | 347          | 352          | 683   | 447             | 318           | 354           | 312           | 311           | 248           |
| Colo.....          | 30                               | 34              | 38           | 39           | 39           | 37           | 32           | 120   | 136             | 172           | 184           | 189           | 184           | 191           |
| Ill.....           | 54                               | 32              | 26           | 26           | 26           | 23           | 22           | 5   | 1               | 1             | 2             | 1             | 1             | 2             |
| Ind.....           | 9                                | 6               | 5            | 5            | 5            | 5            | 4            | (2)   | (2)             | (2)           | (2)           | (2)           | (2)           | (2)           |
| Kans.....          | 94                               | 68              | 59           | 59           | 57           | 57           | 57           | 868   | 880             | 844           | 829           | 781           | 855           | 798           |
| Ky.....            | 14                               | 9               | 8            | 7            | 7            | 6            | 5            | 83  | 66              | 61            | 66            | 61            | 70            | 80            |
| La.....            | 804                              | 809             | 651          | 607          | 563          | 533          | 494          | 6,446   | 7,828           | 7,091         | 7,007         | 7,215         | 7,477         | 7,266         |
| Mich.....          | 13                               | 16              | 24           | 30           | 33           | 35           | 34           | 37  | 55              | 102           | 119           | 130           | 148           | 160           |
| Miss.....          | 60                               | 56              | 47           | 46           | 43           | 42           | 38           | 138   | 95              | 74            | 71            | 83            | 107           | 144           |
| Mont.....          | 40                               | 34              | 33           | 33           | 33           | 30           | 30           | 32  | 44              | 41            | 43            | 47            | 47            | 54            |
| Nebr.....          | 13                               | 8               | 6            | 6            | 6            | 6            | 6            | 8   | 3               | 3             | 3             | 3             | 3             | 3             |
| N. Mex.....        | 127                              | 105             | 95           | 92           | 87           | 83           | 79           | 1,101   | 1,213           | 1,217         | 1,231         | 1,203         | 1,174         | 1,181         |
| N. Dak.....        | 24                               | 21              | 20           | 22           | 23           | 25           | 31           | 39  | 30              | 25            | 32            | 29            | 31            | 19            |
| Ohio.....          | 11                               | 9               | 10           | 10           | 10           | 11           | 13           | 46  | 88              | 85            | 89            | 99            | 114           | 123           |
| Okla.....          | 225                              | 190             | 163          | 161          | 156          | 150          | 144          | 1,455   | 1,701           | 1,605         | 1,727         | 1,770         | 1,774         | 1,835         |
| Texas.....         | 1,142                            | 1,261           | 1,222        | 1,190        | 1,138        | 1,074        | 1,013        | 7,570   | 8,276           | 7,486         | 7,192         | 7,051         | 6,548         | 7,175         |
| Utah.....          | 24                               | 33              | 42           | 34           | 33           | 31           | 27           | 51  | 46              | 55            | 57            | 61            | 58            | 59            |
| Wyo.....           | 146                              | 141             | 136          | 134          | 136          | 137          | 125          | 275   | 351             | 316           | 329           | 330           | 357           | 414           |
| Other.....         | 15                               | 36              | 50           | 54           | 57           | 57           | 59           | 322   | 319             | 298           | 303           | 312           | 321           | 323           |

Z Less than 500 million cubic feet.

Source: Through 1975, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Energy Data Reports, Natural Gas Production and Consumption*, annual, and *Crude Petroleum, Petroleum Products, and Natural Gas Liquids*, annual.

## NO. 1360. NATURAL GAS—SUPPLY, PRODUCTION, CONSUMPTION, RESERVES, AND MARKETING PRODUCTION, BY STATES: 1960 TO 1979

[See also *Historical Statistics, Colonial Times to 1970*, series M 147-161]

| ITEM   | Unit                | 1960          | 1965          | 1970          | 1973          | 1974          | 1975          | 1976          | 1977          | 1978          | 1979          |
|--|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Producing wells.....                         | 1,000.....          | 91            | 112           | 117           | 124           | 128           | 132           | 137           | 148           | 157           | (NA)          |
| Production value at wells <sup>1</sup> ..... | Mil. dol.....       | 1,790         | 2,495         | 3,746         | 4,894         | 6,573         | 8,945         | 11,572        | 15,834        | 18,085        | 22,504        |
| Avg. per 1,000 cu. ft.....                   | Cents.....          | 14.0          | 15.6          | 17.1          | 21.6          | 30.4          | 44.5          | 58.0          | 79.0          | 90.5          | 114.4         |
| Proved reserves <sup>2</sup> .....           | Tril. cu. ft.....   | 264           | 286           | 291           | 250           | 237           | 228           | 216           | 209           | 200           | 195           |
| <b>Total supply</b> .....                    | <b>Bil. cu. ft.</b> | <b>13,640</b> | <b>17,456</b> | <b>24,200</b> | <b>25,213</b> | <b>24,260</b> | <b>22,821</b> | <b>22,837</b> | <b>22,786</b> | <b>23,097</b> | <b>23,749</b> |
| Marketed production <sup>3</sup> .....       | Bil. cu. ft.....    | 12,771        | 16,040        | 21,921        | 22,647        | 21,601        | 20,109        | 19,952        | 20,025        | 19,974        | 20,471        |
| Drawn from storage.....                      | Bil. cu. ft.....    | 713           | 960           | 1,459         | 1,533         | 1,701         | 1,760         | 1,921         | 1,750         | 2,158         | 2,047         |
| Imports <sup>4</sup> .....                   | Bil. cu. ft.....    | 156           | 456           | 821           | 1,033         | 959           | 953           | 964           | 1,011         | 966           | 1,231         |
| <b>Consumption, total</b> <sup>4</sup> ..... | <b>Bil. cu. ft.</b> | <b>12,509</b> | <b>16,033</b> | <b>22,046</b> | <b>22,966</b> | <b>22,111</b> | <b>20,410</b> | <b>20,801</b> | <b>19,521</b> | <b>19,627</b> | <b>19,488</b> |
| Residential.....                             | Bil. cu. ft.....    | 3,103         | 3,903         | 4,837         | 4,879         | 4,786         | 4,924         | 5,051         | 4,821         | 4,903         | 4,999         |
| Commercial <sup>5</sup> .....                | Bil. cu. ft.....    | 1,020         | 1,443         | 2,399         | 2,597         | 2,556         | 2,508         | 2,668         | 2,501         | 2,601         | 2,649         |
| Industrial <sup>6</sup> .....                | Bil. cu. ft.....    | 8,386         | 10,687        | 14,810        | 15,490        | 14,769        | 12,978        | 13,081        | 12,199        | 12,123        | 11,840        |
| Electric utilities.....                      | Bil. cu. ft.....    | 1,725         | 2,321         | 3,932         | 3,660         | 3,443         | 3,158         | 3,081         | 3,191         | 3,188         | 3,490         |
| Field <sup>4</sup> .....                     | Bil. cu. ft.....    | 1,780         | 1,910         | 2,305         | 2,412         | 2,365         | 2,269         | 2,488         | 1,859         | 1,848         | 1,619         |
| Refineries.....                              | Bil. cu. ft.....    | 775           | 860           | 1,029         | 1,074         | 1,040         | 946           | 928           | 914           | 804           | (NA)          |
| Pipeline fuel.....                           | Bil. cu. ft.....    | 347           | 501           | 722           | 728           | 669           | 583           | 548           | 533           | 530           | 522           |
| Exports.....                                 | Bil. cu. ft.....    | 11            | 26            | 70            | 77            | 77            | 73            | 65            | 56            | 53            | 50            |
| Stored.....                                  | Bil. cu. ft.....    | 844           | 1,078         | 1,857         | 1,974         | 1,784         | 2,104         | 1,756         | 2,307         | 2,278         | 2,384         |
| Transmission loss.....                       | Bil. cu. ft.....    | 274           | 319           | 228           | 196           | 289           | 235           | 216           | 41            | 287           | 183           |
| <b>World production</b> .....                | <b>Bil. cu. ft.</b> | <b>6,917</b>  | <b>24,537</b> | <b>37,542</b> | <b>46,144</b> | <b>47,179</b> | <b>47,364</b> | <b>49,497</b> | <b>51,394</b> | <b>53,871</b> | (NA)          |
| Percent U.S. of world.....                   | Percent.....        | 75.5          | 65.4          | 58.4          | 49.1          | 45.8          | 42.5          | 40.3          | 39.0          | 37.1          | (NA)          |

NA Not available. <sup>1</sup> Comprises gas sold or consumed by producers, including loss due to natural gas liquids recovery, losses in transmission, amounts added to storage, and increases in gas in pipelines. Beginning 1965, data on pressure base of 14.73 pounds per square inch absolute; 1960, 14.65. <sup>2</sup> Estimated, end of year. Source: American Gas Association, Arlington, Va. (Copyright). <sup>3</sup> Beginning 1970, includes imports of liquefied natural gas. <sup>4</sup> Beginning 1977, excludes extraction loss.

<sup>5</sup> Beginning 1970, includes deliveries to municipalities and public authorities for institutional heating and other purposes.

<sup>6</sup> Includes other uses, not shown separately. <sup>7</sup> Source: U.S. Dept. of the Interior, *Energy Perspectives* 2, June 1976.

Source: Except as noted, through 1975, U.S. Bureau of Mines, *Minerals Yearbook* (in some cases data have been revised by EIA); thereafter, U.S. Energy Information Administration, *Natural Gas Production and Consumption*, annual.

## NO. 1361. NATURAL GAS LIQUIDS—PRODUCTION AND VALUE: 1960 TO 1978

[Barrels of 42 gallons. 1960 excludes Alaska. See also *Historical Statistics, Colonial Times to 1970*, series M 143-146]

| ITEM                               | Unit                       | 1960 | 1965 | 1970 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
|------------------------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|
| <b>Total produced</b> .....        | Mil. bbl.....              | 340  | 442  | 606  | 638  | 634  | 616  | 596  | 587  | 590  | 572  |
| Natural gasoline and mixtures..... | Mil. bbl.....              | 107  | 130  | 165  | 164  | 161  | 148  | 134  | 133  | 133  | 126  |
| Liquefied petroleum gases.....     | Mil. bbl.....              | 201  | 268  | 400  | 445  | 447  | 448  | 444  | 437  | 443  | 432  |
| Cycle products.....                | Mil. bbl.....              | 32   | 44   | 41   | 29   | 26   | 20   | 18   | 17   | 14   | 14   |
| All light products:                |                            |      |      |      |      |      |      |      |      |      |      |
| Average value.....                 | Dol. per bbl.....          | 2.39 | 2.06 | 2.10 | 2.28 | 2.93 | 5.01 | 4.65 | 5.59 | 6.65 | 7.85 |
| Average yield.....                 | Gal. per 1,000 cu. ft..... | 1.46 | 1.35 | 1.37 | 1.34 | 1.35 | 1.38 | 1.42 | 1.39 | 1.41 | 1.41 |
| Natural gas processed.....         | Tril. cu. ft.....          | 10   | 14   | 19   | 20   | 20   | 19   | 18   | 18   | 18   | 17   |

Source: Through 1976, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Energy Data Reports, Petroleum Statement*, annual.

## NO. 1362. COAL AND COKE—SUMMARY: 1960 TO 1979

(Includes coal consumed at mines. Demonstrated coal reserve base for United States on Jan. 1, 1976, was 438 billion tons. Recoverability varies between 40 and 90 percent for individual deposits; 50 percent or more of overall U.S. coal reserve base is recoverable. See also *Historical Statistics, Colonial Times to 1970*, series M 93-126)

| ITEM                                    | Unit                | 1960  | 1965  | 1970  | 1973  | 1974  | 1975   | 1976   | 1977   | 1978   | 1979 <sup>1</sup> |
|---|---------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------------------|
| <b>COAL<sup>2</sup></b>                 |                     |       |       |       |       |       |        |        |        |        |                   |
| Total production.....                   | Mil. sh. tons.....  | 434   | 527   | 613   | 599   | 610   | 655    | 685    | 697    | 670    | 776               |
| Value.....                              | Mil. dol.....       | 2,098 | 2,398 | 3,878 | 5,140 | 9,631 | 12,571 | 13,399 | 13,908 | 14,664 | 18,095            |
| World production.....                   | Mil. sh. tons.....  | 2,899 | 3,079 | 3,295 | 3,399 | 3,457 | 3,617  | 3,720  | 3,839  | 3,925  | (NA)              |
| <b>Bituminous:</b>                      |                     |       |       |       |       |       |        |        |        |        |                   |
| Number of mines.....                    | Number.....         | 7,865 | 7,228 | 5,601 | 4,744 | 5,247 | 6,168  | 6,161  | 6,077  | 6,229  | 6,000             |
| Production.....                         | Mil. sh. tons.....  | 416   | 512   | 603   | 592   | 603   | 648    | 679    | 691    | 665    | 770               |
| Value, total.....                       | Mil. dol.....       | 1,950 | 2,276 | 3,773 | 5,050 | 9,486 | 12,472 | 13,189 | 13,705 | 14,486 | 18,095            |
| Average per ton.....                    | Dollars.....        | 4.69  | 4.44  | 6.26  | 8.53  | 15.75 | 19.23  | 19.43  | 19.82  | 21.78  | 23.50             |
| Method of mining:                       |                     |       |       |       |       |       |        |        |        |        |                   |
| Underground.....                        | Mil. sh. tons.....  | 285   | 333   | 339   | 299   | 277   | 292    | 295    | 266    | 242    | 301               |
| Surface.....                            | Mil. sh. tons.....  | 131   | 179   | 264   | 292   | 326   | 356    | 384    | 425    | 423    | 469               |
| Percent of total prod'n.....            | Percent.....        | 31.4  | 35.1  | 43.8  | 49.5  | 54.0  | 54.8   | 56.6   | 61.5   | 63.6   | 60.9              |
| Exports.....                            | Mil. sh. tons.....  | 37    | 50    | 71    | 53    | 60    | 66     | 59     | 54     | 40     | 65                |
| Value.....                              | Mil. dol.....       | 332   | 465   | 951   | 1,002 | 2,420 | 3,233  | 2,886  | 2,628  | 2,004  | 3,328             |
| Imports.....                            | 1,000 sh. tons..... | 260   | 184   | 36    | 127   | 2,080 | 940    | 1,203  | 1,647  | 2,953  | 2,059             |
| Value <sup>3</sup> .....                | Mil. dol.....       | 2     | 2     | (2)   | 2     | 58    | 22     | 18     | 39     | 75     | 51                |
| Consumption <sup>4</sup> .....          | Mil. sh. tons.....  | 380   | 459   | 516   | 557   | 553   | 558    | 599    | 620    | 621    | 677               |
| Electric power utilities.....           | Mil. sh. tons.....  | 174   | 243   | 319   | 388   | 390   | 404    | 447    | 476    | 480    | 528               |
| Industrial.....                         | Mil. sh. tons.....  | 173   | 197   | 184   | 161   | 154   | 146    | 145    | 138    | 133    | 142               |
| Average men employed <sup>5</sup> ..... | 1,000.....          | 169   | 134   | 140   | 148   | 167   | 190    | 202    | 221    | 223    | 252               |
| Average days worked.....                | Number.....         | 191   | 219   | 228   | 227   | 206   | 232    | 232    | 210    | 207    | 227               |
| Average tons per man:                   |                     |       |       |       |       |       |        |        |        |        |                   |
| Per day.....                            | Tons.....           | 12.83 | 17.52 | 18.84 | 17.58 | 17.58 | 14.74  | 14.46  | 14.84  | 14.26  | 13.50             |
| Per year.....                           | Tons.....           | 2,453 | 3,829 | 4,296 | 3,991 | 3,848 | 3,420  | 3,355  | 3,235  | 2,952  | 3,065             |
| Production, by State:                   |                     |       |       |       |       |       |        |        |        |        |                   |
| Alabama.....                            | Mil. sh. tons.....  | 13.0  | 14.8  | 20.6  | 19.2  | 19.8  | 22.6   | 21.5   | 21.5   | 20.6   | 23.8              |
| Illinois.....                           | Mil. sh. tons.....  | 46.0  | 58.5  | 65.1  | 61.6  | 58.2  | 59.5   | 58.2   | 53.5   | 48.6   | 59.2              |
| Indiana.....                            | Mil. sh. tons.....  | 15.5  | 15.6  | 22.3  | 25.3  | 23.7  | 25.1   | 25.4   | 27.8   | 24.2   | 27.3              |
| Kentucky.....                           | Mil. sh. tons.....  | 66.8  | 85.8  | 125.3 | 127.6 | 137.2 | 143.6  | 144.0  | 146.3  | 135.7  | 142.0             |
| Ohio.....                               | Mil. sh. tons.....  | 34.0  | 39.4  | 55.4  | 45.8  | 45.4  | 46.8   | 46.6   | 47.9   | 41.2   | 45.6              |
| Pennsylvania.....                       | Mil. sh. tons.....  | 65.4  | 80.3  | 80.5  | 76.4  | 80.5  | 84.1   | 85.8   | 84.6   | 81.5   | 85.5              |
| Virginia.....                           | Mil. sh. tons.....  | 27.8  | 34.1  | 35.0  | 34.0  | 34.3  | 35.5   | 40.0   | 37.6   | 31.9   | 41.6              |
| West Virginia.....                      | Mil. sh. tons.....  | 116.9 | 149.2 | 144.1 | 115.4 | 102.5 | 109.3  | 108.8  | 95.4   | 85.3   | 114.6             |
| Wyoming.....                            | Mil. sh. tons.....  | 2.0   | 3.3   | 7.2   | 14.9  | 20.7  | 23.8   | 30.8   | 46.0   | 58.3   | 71.8              |
| Other States.....                       | Mil. sh. tons.....  | 26.0  | 31.3  | 47.4  | 71.5  | 81.1  | 98.1   | 17.6   | 130.7  | 137.8  | 158.6             |
| <b>COKE</b>                             |                     |       |       |       |       |       |        |        |        |        |                   |
| Production <sup>6</sup> .....           | Mil. sh. tons.....  | 57.2  | 66.9  | 66.5  | 64.3  | 61.6  | 57.2   | 58.3   | 53.5   | 49.0   | 52.9              |
| Oven coke <sup>7</sup> .....            | Mil. sh. tons.....  | 56.2  | 65.2  | 65.7  | 63.5  | 60.7  | 56.5   | 57.7   | 53.1   | 49.0   | 52.9              |
| Value of prod. at plant.....            | Mil. dol.....       | 1,382 | 1,429 | 2,193 | 2,931 | 5,262 | 5,261  | 5,941  | 5,536  | 6,531  | (NA)              |
| Coke and breeze.....                    | Mil. dol.....       | 1,075 | 1,116 | 1,899 | 2,575 | 4,609 | 4,607  | 5,021  | 4,653  | 5,608  | (NA)              |
| Avg. market value per ton.....          | Dollars.....        | 18.31 | 16.64 | 27.71 | 37.97 | 73.24 | 84.34  | 86.07  | 84.56  | 97.06  | (NA)              |
| Coal charged.....                       | Mil. sh. tons.....  | 81.4  | 95.3  | 96.5  | 94.1  | 90.2  | 83.6   | 84.7   | 77.7   | 71.4   | 77.1              |
| Average value per ton.....              | Dollars.....        | 9.82  | 9.40  | 12.47 | 18.24 | 36.49 | 44.21  | 44.16  | 46.28  | 52.1   | (NA)              |
| Yield of coke from coal.....            | Percent.....        | 70.3  | 70.4  | 69.1  | 68.4  | 69.3  | 68.4   | 68.9   | 68.8   | 68.6   | 68.6              |

NA Not available. Z Less than \$500,000. <sup>1</sup> Preliminary. <sup>2</sup> Relates to mines having an output of 1,000 tons a year or more, including lignite and small output of anthracite produced outside Pennsylvania. <sup>3</sup> Bituminous coal and lignite only; anthracite not available. <sup>4</sup> Includes some categories not shown separately. <sup>5</sup> Average number of men working daily. <sup>6</sup> Includes beehive coke. <sup>7</sup> Prior to 1978, excludes screenings or breeze; thereafter, includes beehive and other nonrecoverable coke-oven operations.

Source: 1960 to 1976, U.S. Bureau of Mines, *Minerals Yearbook*, thereafter, U.S. Energy Information Administration, *Energy Data Reports, Weekly Coal Production and Coke and Chemicals Monthly*.

## NO. 1363. CEMENT—SUMMARY: 1960 TO 1978

[In thousands of short tons, except as indicated. Includes Puerto Rico. Excludes Alaska except for imports and exports. See *Historical Statistics, Colonial Times to 1970*, series M 186-189, for related data]

| ITEM   | 1960   | 1965   | 1970   | 1973   | 1974   | 1975   | 1976   | 1977   | 1978   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active plants, Portland, number <sup>1</sup> ..... | 180    | 185    | 183    | 172    | 176    | 174    | 169    | 163    | 164    |
| Production of finished cement <sup>1</sup> .....   | 62,818 | 73,103 | 76,116 | 87,573 | 82,889 | 69,721 | 74,495 | 80,093 | 85,503 |
| Portland.....                                      | 59,974 | 69,827 | 73,168 | 83,551 | 79,486 | 66,796 | 71,227 | 76,340 | 81,379 |
| Prepared masonry.....                              | 2,736  | 3,223  | 2,948  | 4,022  | 3,402  | 2,925  | 3,268  | 3,753  | 4,124  |
| Shipments <sup>1</sup> .....                       | 61,492 | 73,637 | 76,385 | 90,727 | 82,914 | 70,684 | 75,226 | 81,614 | 87,999 |
| Value (mil. dol.).....                             | 1,104  | 1,245  | 1,366  | 2,017  | 2,221  | 2,220  | 2,576  | 3,000  | 3,623  |
| Average per ton (dollars).....                     | 17.95  | 16.91  | 17.88  | 22.23  | 26.79  | 31.41  | 34.24  | 36.76  | 41.17  |
| Portland.....                                      | 58,711 | 70,328 | 73,406 | 86,597 | 79,482 | 67,776 | 71,922 | 77,850 | 83,849 |
| Prepared masonry.....                              | 2,678  | 3,256  | 2,978  | 4,130  | 3,432  | 2,908  | 3,304  | 3,764  | 4,150  |
| Stock at mills, Dec. 31 (Portland).....            | 6,700  | 6,207  | 7,228  | 5,230  | 7,156  | 6,575  | 6,790  | 5,709  | 5,012  |
| Imports.....                                       | 772    | 1,035  | 2,473  | 6,647  | 5,702  | 3,637  | 3,074  | 3,989  | 6,577  |
| Exports.....                                       | 35     | 141    | 123    | 268    | 199    | 417    | 343    | 236    | 55     |
| World production, est. (mil. sh. tons).....        | 349    | 478    | 630    | 773    | 776    | 774    | 822    | 823    | 938    |

<sup>1</sup> Includes natural, slag, and hydraulic lime plants, not shown separately, except 1970 excludes slag cement.

## NO. 1364. SAND AND GRAVEL—QUANTITY SOLD AND VALUE: 1960 TO 1978

[Quantities in millions of short tons. See also *Historical Statistics, Colonial Times to 1970*, series M 193]

| ITEM   | 1960 | 1965 | 1970  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  |
|--|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Total sold or used by producers <sup>1</sup> ..... | 710  | 908  | 944   | 914   | 984   | 905   | 789   | 885   | 929   | 996   |
| Processed sand.....                                | 227  | 284  | 321   | 330   | 347   | 323   | 265   | 418   | 439   | 490   |
| Sand and gravel.....                               | 465  | 599  | 594   | 554   | 608   | 553   | 487   | 437   | 458   | 474   |
| Total value (mil. dol.).....                       | 720  | 957  | 1,116 | 1,201 | 1,359 | 1,421 | 1,340 | 1,774 | 2,028 | 2,302 |
| Average per ton (dollars).....                     | 1.01 | 1.05 | 1.18  | 1.31  | 1.38  | 1.57  | 1.79  | 2.00  | 2.18  | 2.29  |
| Use: Construction.....                             | 692  | 883  | 915   | 884   | 955   | 876   | 762   | 855   | 899   | 963   |
| Industrial sand and gravel.....                    | 18   | 25   | 29    | 30    | 29    | 28    | 27    | 30    | 31    | 33    |
| Number of operations.....                          | (NA) | (NA) | 5,918 | 5,384 | 5,681 | 6,967 | 7,014 | 7,599 | 7,402 | 7,131 |
| Employment (1,000).....                            | 52.0 | 53.0 | 45.5  | 43.0  | 49.0  | 39.0  | 40.0  | 40.0  | 41.5  | 40.5  |

NA Not available.

<sup>1</sup> Includes industrial sand and gravel shown below.

<sup>2</sup> Estimate.

## NO. 1365. GYPSUM—SUMMARY: 1960 TO 1979

[Quantities in thousands of short tons; values in millions of dollars. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See *Historical Statistics, Colonial Times to 1970*, series M 190, gypsum mined]

| ITEM   | 1960   | 1965   | 1970   | 1973   | 1974   | 1975   | 1976   | 1977   | 1978   | 1979, prel. |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| Active establishments <sup>1</sup> (number)..... | 96     | 113    | 108    | 112    | 116    | 110    | 117    | 115    | 116    | 113         |
| Crude gypsum: <sup>2</sup>                       |        |        |        |        |        |        |        |        |        |             |
| Apparent supply.....                             | 15,109 | 15,916 | 15,523 | 21,156 | 19,291 | 15,124 | 17,927 | 20,321 | 23,067 | 22,312      |
| Mined.....                                       | 9,825  | 10,033 | 9,436  | 13,558 | 11,999 | 9,751  | 11,980 | 13,390 | 14,891 | 14,830      |
| Imports for consumption.....                     | 5,301  | 5,911  | 6,128  | 7,661  | 7,424  | 5,448  | 6,231  | 7,074  | 8,308  | 7,773       |
| Exports.....                                     | 17     | 28     | 41     | 63     | 132    | 75     | 284    | 143    | 132    | 91          |
| Calcined gypsum produced.....                    | 8,591  | 9,320  | 8,449  | 12,592 | 10,993 | 9,181  | 11,036 | 12,590 | 14,041 | 14,543      |
| Value.....                                       | 121    | 133    | 132    | 205    | 206    | 186    | 237    | 278    | 387    | 442         |
| Gypsum products sold, value <sup>2</sup> .....   | 361    | 420    | 353    | 633    | 623    | 514    | 655    | 911    | 1,248  | 1,392       |
| Building uses, value.....                        | 339    | 391    | 323    | 588    | 570    | 466    | 598    | 843    | 1,171  | 1,312       |

<sup>1</sup> Each mine, plant, or combination mine and plant is counted as 1 establishment.

<sup>2</sup> Excludes byproduct gypsum.

<sup>3</sup> Made from domestic, imported, and byproduct gypsum.

## NO. 1366. LIME—QUANTITY SOLD OR USED BY PRODUCERS: 1960 TO 1979

[In thousands of short tons, except as noted. Excludes Puerto Rico. See also *Historical Statistics, Colonial Times to 1970*, series M 191-192]

| ITEM                             | 1960   | 1965   | 1970   | 1974   | 1975   | 1976   | 1977   | 1978   | 1979, prel. |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| Active plants (number).....      | 157    | 212    | 194    | 172    | 171    | 163    | 161    | 155    | 154         |
| Quantity sold <sup>1</sup> ..... | 12,935 | 16,794 | 19,747 | 21,606 | 19,133 | 20,229 | 19,947 | 20,443 | 20,945      |
| Value (mil. dol.).....           | 173    | 233    | 286    | 474    | 524    | 609    | 666    | 750    | 862         |
| Per ton (dollars).....           | 13.35  | 13.87  | 14.49  | 21.92  | 27.38  | 30.11  | 33.42  | 36.67  | 41.18       |
| Open-market lime.....            | 8,189  | 10,449 | 12,718 | 14,640 | 12,840 | 14,024 | 14,202 | 15,062 | 15,200      |
| Captive tonnage lime.....        | 4,746  | 6,345  | 7,029  | 6,966  | 6,292  | 6,205  | 5,745  | 5,381  | 5,200       |
| Quicklime.....                   | 8,271  | 12,009 | 15,248 | 17,795 | 15,875 | 16,924 | 16,281 | 16,845 | 17,553      |
| Hydrated.....                    | 2,715  | 2,609  | 3,126  | 2,533  | 2,344  | 2,298  | 2,698  | 2,582  | 2,599       |
| Dead-burned dolomite.....        | 1,949  | 2,176  | 1,373  | 1,278  | 914    | 1,007  | 968    | 1,016  | 793         |

<sup>1</sup> Includes quantity used by producers.

<sup>2</sup> Incomplete; only partial coverage of captive plants.

Source of tables 1363-1366: U.S. Bureau of Mines, *Minerals Yearbook*.

## NO. 1367. STONE—QUANTITY SOLD OR USED BY PRODUCERS, AND VALUE: 1965 TO 1978

[See *Historical Statistics, Colonial Times to 1970*, series M 194; for total quantity]

| KIND OF STONE             | QUANTITY SOLD OR USED <sup>1</sup> (mil. short tons) |            |              |            |            |              |              | VALUE (mil. dol.) |              |              |              |              |              |              |
|---------------------------|--|------------|--------------|------------|------------|--------------|--------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                           | 1965   | 1970       | 1974         | 1975       | 1976       | 1977         | 1978         | 1965              | 1970         | 1974         | 1975         | 1976         | 1977         | 1978         |
| <b>Total <sup>2</sup></b> | <b>780</b>   | <b>869</b> | <b>1,044</b> | <b>901</b> | <b>902</b> | <b>1,955</b> | <b>1,051</b> | <b>1,204</b>      | <b>1,470</b> | <b>2,186</b> | <b>2,120</b> | <b>2,221</b> | <b>2,457</b> | <b>2,886</b> |
| Granite                   | 60   | 87         | 119          | 95         | 99         | 109          | 122          | 121               | 183          | 290          | 271          | 296          | 331          | 398          |
| Basalt <sup>3</sup>       | 76   | 77         | 97           | 78         | 75         | 77           | 84           | 121               | 147          | 218          | 193          | 193          | 208          | 241          |
| Sandstone                 | 29   | 24         | 31           | 27         | 27         | 30           | 29           | 62                | 59           | 87           | 85           | 89           | 100          | 96           |
| Marble                    | 2  | 2          | 2            | 2          | 2          | 2            | 2            | 39                | 34           | 42           | 32           | 31           | 36           | 39           |
| Limestone                 | 555  | 626        | 752          | 665        | 663        | 707          | 786          | 766               | 961          | 1,446        | 1,437        | 1,516        | 1,698        | 2,027        |
| Other stone               | 34   | 29         | 23           | 18         | 18         | 15           | 14           | 46                | 40           | 43           | 37           | 42           | 35           | 33           |
| Shell                     | 22   | 22         | 18           | 15         | 14         | 13           | 12           | 34                | 31           | 44           | 53           | 37           | 33           | 33           |
| Slate                     | 1  | 1          | 1            | 1          | 1          | 1            | 1            | 14                | 13           | 17           | 12           | 13           | 9            | 9            |

<sup>1</sup> Quantities of stone not sold by short tons are expressed in approximate short ton equivalents. <sup>2</sup> Includes calcareous marl, not shown separately. <sup>3</sup> Includes related rocks.

## NO. 1368. PHOSPHATE ROCK—SUMMARY: 1960 TO 1979

[See also *Historical Statistics, Colonial Times to 1970*, series M 203-204]

| ITEM                                  | Unit         | 1960  | 1965  | 1970  | 1974  | 1975    | 1976  | 1977  | 1978  | 1979    |
|---------------------------------------|--------------|-------|-------|-------|-------|---------|-------|-------|-------|---------|
| Mine production                       | Mil. ton     | 60.9  | 84.3  | 125.5 | 155.8 | 187.5   | 170.1 | 184.0 | 191.2 | 204.8   |
| P <sub>2</sub> O <sub>5</sub> content | Mil. ton     | 9.3   | 14.3  | 18.6  | 20.8  | 23.5    | 20.1  | 22.4  | 23.5  | 25.4    |
| Marketable production                 | Mil. ton     | 19.6  | 29.5  | 38.7  | 45.7  | 48.8    | 49.2  | 52.1  | 55.2  | 56.9    |
| P <sub>2</sub> O <sub>5</sub> content | Mil. ton     | 6.1   | 9.1   | 12.0  | 14.1  | 15.0    | 15.1  | 16.1  | 16.9  | 17.5    |
| Value                                 | Mil. dol.    | 117.0 | 193.3 | 203.2 | 501.4 | 1,122.2 | 949.4 | 821.7 | 928.8 | 1,045.7 |
| Per ton                               | Dollars      | 5.97  | 6.55  | 5.25  | 10.98 | 22.99   | 19.28 | 15.77 | 16.84 | 18.38   |
| Sold or used by producers             | Mil. sh. ton | 19.3  | 29.0  | 38.8  | 48.4  | 46.4    | 44.7  | 52.3  | 53.8  | 58.5    |
| P <sub>2</sub> O <sub>5</sub> content | Mil. sh. ton | 6.0   | 9.0   | 12.1  | 14.9  | 14.3    | 13.7  | 16.2  | 16.5  | 18.0    |
| Value                                 | Mil. dol.    | 115.4 | 188.6 | 203.8 | 529.1 | 1,053.0 | 857.2 | 829.1 | 901.4 | 1,063.5 |
| Per ton                               | Dollars      | 5.99  | 6.49  | 5.26  | 10.92 | 22.67   | 19.19 | 15.86 | 16.77 | 18.18   |
| Imports <sup>1</sup>                  | Mil. sh. ton | 14    | 15    | 14    | 18    | 04      | 05    | 17    | 1.00  | .98     |
| Value                                 | Mil. dol.    | 3.8   | 3.0   | 3.8   | 9.0   | 1.6     | 2.2   | 6.1   | 24.4  | 21.6    |
| Per ton                               | Dollars      | 26.07 | 20.14 | 27.87 | 49.45 | 43.83   | 43.59 | 35.02 | 24.38 | 22.04   |
| Exports                               | Mil. sh. ton | 4.5   | 7.3   | 11.7  | 13.9  | 12.3    | 10.4  | 14.6  | 14.2  | 15.8    |
| P <sub>2</sub> O <sub>5</sub> content | Mil. sh. ton | 1.4   | 2.3   | 3.8   | 4.5   | 4.0     | 3.3   | 4.7   | 4.5   | 5.1     |
| Value                                 | Mil. dol.    | 26.6  | 51.1  | 60.0  | 194.0 | 429.2   | 272.8 | 288.6 | 297.4 | 358.5   |
| Per ton                               | Dollars      | 5.95  | 6.98  | 5.11  | 13.96 | 34.98   | 26.23 | 19.79 | 20.94 | 22.56   |
| Consumption, apparent <sup>2</sup>    | Mil. sh. ton | 14.9  | 21.9  | 27.2  | 34.7  | 34.2    | 34.3  | 37.9  | 40.6  | 43.6    |
| World production                      | Mil. sh. ton | 46.1  | 70.3  | 93.6  | 120.0 | 118.6   | 118.5 | 128.5 | 137.4 | 140.9   |

<sup>1</sup> For consumption; P<sub>2</sub>O<sub>5</sub> content not available. <sup>2</sup> Amount sold or used plus imports minus exports.

## NO. 1369. POTASH—SUMMARY: 1960 TO 1979

[In thousands of short tons, except value See also *Historical Statistics, Colonial Times to 1970*, series M 201-202]

| ITEM   | 1960   | 1965   | 1970   | 1974   | 1975   | 1976   | 1977   | 1978   | 1979   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Production of potassium salts (marketable)                             | 4,472  | 5,401  | 4,853  | 4,716  | 4,576  | 4,427  | 4,675  | 4,769  | 4,708  |
| Approximate equivalent K <sub>2</sub> O                                | 2,638  | 3,140  | 2,729  | 2,552  | 2,501  | 2,500  | 2,457  | 2,483  | 2,453  |
| Value <sup>1</sup> (mil. dol.)   | 89.7   | 129.8  | 98.1   | 159.1  | 223.1  | 210.8  | 206.9  | 221.2  | 260.1  |
| Sales of potassium salts by producers                                  | 4,412  | 5,027  | 4,703  | 4,708  | 3,819  | 4,612  | 4,679  | 4,804  | 5,014  |
| Approximate equivalent K <sub>2</sub> O                                | 2,602  | 2,931  | 2,669  | 2,545  | 2,094  | 2,500  | 2,460  | 2,543  | 2,632  |
| Value at plant (mil. dol.)   | 88.4   | 121.2  | 92.4   | 158.6  | 187.9  | 210.8  | 206.9  | 226.5  | 279.2  |
| Per ton (dollars)  | 20.04  | 24.10  | 19.64  | 33.69  | 49.19  | 45.70  | 44.22  | 47.15  | 55.68  |
| Imports for consumption of potash materials                            | 415    | 1,867  | 4,403  | 7,245  | 6,271  | 7,575  | 8,381  | 8,556  | 9,375  |
| Approximate equivalent K <sub>2</sub> O                                | 226    | 1,108  | 2,605  | 4,326  | 3,797  | 4,594  | 5,076  | 5,189  | 5,693  |
| Value (mil. dol.)  | 15.4   | 52.7   | 94.7   | 236.7  | 267.2  | 344.0  | 373.8  | 399.2  | 520.8  |
| Exports of potash materials  | 833    | 1,099  | 966    | 1,415  | 1,419  | 1,670  | 1,650  | 1,577  | 1,233  |
| Approximate equivalent K <sub>2</sub> O                                | 491    | 648    | 544    | 787    | 779    | 945    | 932    | 892    | 700    |
| Value (mil. dol.)  | 25.9   | 42.5   | 28.5   | 66.2   | 92.7   | 91.9   | 90.2   | 88.6   | 79.5   |
| Apparent consumption of potassium salts <sup>2</sup>                   | 3,994  | 5,795  | 8,140  | 10,538 | 8,671  | 10,517 | 11,405 | 11,782 | 13,156 |
| Approximate equivalent K <sub>2</sub> O                                | 2,337  | 3,391  | 4,730  | 6,084  | 5,112  | 6,149  | 6,604  | 6,838  | 7,626  |
| World production (marketable), approximate equivalent K <sub>2</sub> O | 10,000 | 15,100 | 20,013 | 26,228 | 27,269 | 26,880 | 28,440 | 28,680 | 29,040 |

<sup>1</sup> Derived from reported value of amount sold or used. <sup>2</sup> Amount sold or used plus imports minus exports.  
Source of tables 1367-1369: U.S. Bureau of Mines, *Minerals Yearbook*.

## NO. 1370. SULFUR—SUMMARY: 1960 TO 1979

[In thousands of long tons, except value. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 195-199]

| ITEM  | 1960         | 1965         | 1970         | 1973          | 1974          | 1975          | 1976          | 1977          | 1978          | 1979          |
|---|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Production, sulfur, all forms <sup>1</sup></b> | <b>6,661</b> | <b>8,212</b> | <b>9,557</b> | <b>10,921</b> | <b>11,419</b> | <b>11,259</b> | <b>10,707</b> | <b>10,558</b> | <b>10,999</b> | <b>11,910</b> |
| Sulfur from Frasch mines                          | 5,037        | 6,116        | 7,082        | 7,605         | 7,901         | 7,211         | 6,264         | 5,822         | 5,559         | 6,257         |
| Recovered elemental sulfur                        | 767          | 1,215        | 1,457        | 2,416         | 2,632         | 2,969         | 3,138         | 3,567         | 3,998         | 4,006         |
| Pyrites, sulfur content only                      | 416          | 354          | 339          | 212           | 162           | 237           | 286           | 166           | 296           | 394           |
| Gross weight of total pyrites                     | 1,016        | 875          | 845          | 559           | 424           | 625           | 750           | 435           | 766           | 1,033         |
| Byproduct sulfuric acid <sup>2</sup>              | 345          | 388          | 537          | 600           | 654           | 767           | 942           | 945           | 1,086         | 1,148         |
| Shipments, Frasch mines                           | 5,130        | 7,251        | 6,504        | 7,438         | 7,898         | 6,077         | 5,860         | 5,935         | 5,645         | 7,388         |
| Approximate value (mil. dol.)                     | 118          | 165          | 154          | 139           | 241           | 305           | 300           | 295           | 280           | 449           |
| Avg. value per long ton (dol.)                    | 23.08        | 22.71        | 23.65        | 18.63         | 30.52         | 50.16         | 51.19         | 49.66         | 49.60         | 60.83         |
| Imports for consumption:                          |              |              |              |               |               |               |               |               |               |               |
| Crude sulfur                                      | 741          | 1,486        | 1,537        | 1,222         | 2,150         | 1,897         | 1,727         | 1,977         | 2,143         | 2,455         |
| Pyrites, sulfur content <sup>3</sup>              | 146          | 160          | 130          | -             | -             | -             | -             | -             | -             | -             |
| Exports, sulfur                                   | 1,787        | 2,635        | 1,433        | 1,776         | 2,663         | 1,352         | 1,270         | 1,178         | 852           | 2,012         |

- Represents zero. <sup>1</sup> Includes other byproduct sulfur compounds, not shown separately. <sup>2</sup> Represents sulfur content. Produced at copper, lead, and zinc plants. <sup>3</sup> Estimate.

## NO. 1371. SALT—SUMMARY: 1960 TO 1978

[In thousands of short tons, except value. Prior to 1970, production includes Puerto Rico. See *Historical Statistics, Colonial Times to 1970*, series M 28 and M 200, for value and production]

| ITEM AND STATE                       | 1960          | 1965          | 1970          | 1973          | 1974          | 1975          | 1976          | 1977          | 1978          |
|--------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Production <sup>1</sup></b>       | <b>25,479</b> | <b>34,687</b> | <b>45,896</b> | <b>43,910</b> | <b>46,536</b> | <b>41,030</b> | <b>44,191</b> | <b>43,412</b> | <b>42,869</b> |
| Louisiana                            | 4,792         | 8,126         | 13,584        | 13,152        | 13,543        | 12,166        | 13,491        | 13,201        | 14,263        |
| Michigan                             | 4,088         | 4,171         | 4,899         | 4,818         | 4,445         | 4,020         | 4,219         | 3,939         | 3,741         |
| New York                             | 4,008         | 5,002         | 5,990         | 5,202         | 6,464         | 5,978         | 6,495         | 6,452         | 5,879         |
| Ohio                                 | 3,108         | 5,026         | 5,329         | 4,657         | 5,029         | 5,083         | 5,052         | 3,701         | 3,897         |
| Texas                                | 4,756         | 6,964         | 10,184        | 10,354        | 11,379        | 8,560         | 9,718         | 10,941        | 9,100         |
| Other States                         | 4,727         | 5,398         | 5,910         | 5,727         | 5,976         | 5,223         | 5,216         | 5,178         | 5,989         |
| Evaporated (manufactured)            | 4,104         | 4,925         | 5,498         | 5,884         | 5,922         | 5,345         | 5,607         | 5,677         | 5,845         |
| In brine                             | 14,911        | 19,952        | 26,228        | 25,680        | 25,779        | 21,401        | 22,917        | 22,777        | 22,336        |
| Rock salt                            | 6,466         | 9,810         | 14,170        | 12,347        | 14,833        | 14,283        | 15,668        | 14,958        | 14,688        |
| Total value <sup>2</sup> (mil. dol.) | 161           | 216           | 305           | 306           | 361           | 368           | 431           | 452           | 499           |
| Exports                              | 420           | 688           | 423           | 609           | 521           | 1,332         | 1,007         | 1,008         | 776           |
| Imports for consumption              | 1,057         | 2,410         | 3,536         | 3,207         | 3,358         | 3,215         | 4,352         | 4,529         | 5,380         |

<sup>1</sup> Represents sales plus quantities used by producers. <sup>2</sup> F.o.b. mine or refinery; excludes cost of coopeage or containers.

## NO. 1372. LEAD—SUMMARY: 1960 TO 1979

[In thousands of short tons, except as indicated. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports and as noted. See also *Historical Statistics, Colonial Times to 1970*, series M 242-248]

| ITEM  | 1960       | 1965       | 1970       | 1974       | 1975       | 1976       | 1977       | 1978       | 1979, prel. |
|---|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| <b>Smelter production of refined primary lead</b> | <b>382</b> | <b>418</b> | <b>667</b> | <b>673</b> | <b>636</b> | <b>653</b> | <b>605</b> | <b>623</b> | <b>634</b>  |
| Domestic ores and base bullion <sup>1</sup>       | 229        | 305        | 528        | 580        | 530        | 589        | 537        | 553        | 584         |
| Foreign ores and base bullion                     | 154        | 113        | 139        | 93         | 106        | 84         | 68         | 70         | 50          |
| Recovery of secondary lead                        | 470        | 576        | 597        | 699        | 658        | 727        | 835        | 848        | 883         |
| Imports, general:                                 |            |            |            |            |            |            |            |            |             |
| Lead in pigs and bars                             | 206        | 223        | 244        | 118        | 101        | 146        | 261        | 244        | 211         |
| Lead in ores and matte                            | 146        | 123        | 112        | 94         | 88         | 76         | 73         | 58         | 44          |
| Exports of refined pig lead <sup>2</sup>          | 2          | 8          | 8          | 62         | 21         | 6          | 10         | 9          | 12          |
| Consumption of metal, primary and secondary       | 1,021      | 1,241      | 1,361      | 1,599      | 1,297      | 1,490      | 1,582      | 1,579      | 1,497       |
| Average price, common lead:                       |            |            |            |            |            |            |            |            |             |
| New York (cents per lb.)                          | 11.95      | 16.00      | 15.69      | 22.53      | 21.53      | 23.10      | 30.70      | 33.65      | 52.64       |
| London (cents per lb.)                            | 9.04       | 14.37      | 13.76      | 26.83      | 18.73      | 20.46      | 28.00      | 29.86      | 54.52       |
| Mine production of recoverable lead <sup>3</sup>  | 247        | 301        | 572        | 664        | 621        | 610        | 592        | 584        | 579         |
| Value <sup>3</sup> (mil. dol.)                    | 58         | 94         | 179        | 299        | 267        | 282        | 364        | 394        | 610         |
| World smelter production, est.                    | 2,550      | 2,911      | 3,628      | 3,829      | 3,633      | 3,715      | 3,742      | 3,824      | 3,897       |

<sup>1</sup> Excludes lead content of antimonial lead. <sup>2</sup> Pigs, bars, and anodes. <sup>3</sup> Includes Alaska.

Source of tables 1370-1372: U.S. Bureau of Mines, *Minerals Yearbook*.



## NO. 1373. IRON ORE—SUMMARY: 1960 TO 1979

[In millions of long tons, except as indicated. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 205-211]

| ITEM   | 1960  | 1965  | 1970  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Number of mines.....                             | 247   | 183   | 74    | 58    | 66    | 67    | 65    | 54    | 51    | 50    |
| Production <sup>1</sup> .....                    | 88.8  | 87.4  | 89.8  | 87.7  | 84.4  | 78.9  | 80.0  | 55.8  | 81.5  | 85.2  |
| Lake Superior.....                               | 71.8  | 66.4  | 69.6  | 72.4  | 70.7  | 66.7  | 67.4  | 44.0  | 72.6  | 76.9  |
| Northeastern.....                                | 4.1   | 5.2   | 3.5   | 2.6   | 2.4   | 1.9   | 2.4   | 2.0   | 8.9   | 8.2   |
| Western.....                                     | 4.6   | 13.1  | 14.3  | 12.0  | 10.5  | 9.6   | 10.1  | 9.8   |       |       |
| Hematite <sup>3</sup> .....                      | 24    | 68.1  | 47.0  | 33.6  | 28.2  | 24.1  | 19.2  | 11.5  | 15.9  | (NA)  |
| Magnetite <sup>3</sup> .....                     | 18.2  | 36.9  | 53.8  | 58.1  | 58.8  | 58.4  | 59.3  | 43.1  | 64.8  | (NA)  |
| Other.....                                       | 2.4   | 3.5   | 2.4   | 1.4   | 1.5   | 1.2   | 1.4   | 1.1   | .8    | (NA)  |
| Shipments <sup>5</sup> .....                     | 83.0  | 84.1  | 87.2  | 90.9  | 85.1  | 75.7  | 77.1  | 54.1  | 83.2  | 85.7  |
| Value <sup>6</sup> (mil. dol.).....              | 724   | 801   | 942   | 1,166 | 1,391 | 1,621 | 1,871 | 1,423 | 2,401 | 2,767 |
| Avg. per ton at mine (dol.).....                 | 8.73  | 9.53  | 10.80 | 12.84 | 16.34 | 21.41 | 24.28 | 26.32 | 28.86 | 32.50 |
| Stocks, Dec. 31 <sup>8</sup> .....               | 12.3  | 12.7  | 15.3  | 10.9  | 9.4   | 12.3  | 14.0  | 14.8  | 12.4  | 11.4  |
| Price (Lake Superior ores) Dec. 31:              |       |       |       |       |       |       |       |       |       |       |
| Natural ores, basis 51.5% Fe (dol./lg. ton)..... | 11.45 | 10.55 | 10.80 | 11.91 | 17.28 | 18.50 | 20.26 | 21.18 | 22.30 | 24.75 |
| Imports <sup>7</sup> .....                       | 34.6  | 45.1  | 44.9  | 43.3  | 48.0  | 46.7  | 44.4  | 37.9  | 33.6  | 33.7  |
| Value (mil. dol.).....                           | 322   | 444   | 480   | 533   | 696   | 860   | 980   | 957   | 845   | 921   |
| Exports.....                                     | 5.3   | 7.1   | 5.5   | 2.7   | 2.3   | 2.5   | 2.9   | 2.1   | 4.2   | 5.1   |
| Value (mil. dol.).....                           | 58    | 80    | 68    | 38    | 35    | 60    | 82    | 63    | 137   | 179   |
| World production <sup>8</sup> .....              | 514   | 611   | 754   | 851   | 879   | 902   | 869   | 827   | 841   | 887   |

NA Not available. <sup>1</sup> Includes Southeastern district and byproduct ore, not shown separately. Beginning 1976, Western includes byproduct ore and Northeastern includes Southeastern. <sup>2</sup> Includes undistributed. <sup>3</sup> Predominant mineral. <sup>4</sup> Includes brown ore from Tenn., Mo., and Tex.; also magnetite from Calif., Utah, and Wyo. <sup>5</sup> Beginning 1976, includes byproduct ore. <sup>6</sup> At mines. <sup>7</sup> For consumption. <sup>8</sup> Estimated.

## NO. 1374. GOLD AND SILVER—SUMMARY: 1950 TO 1979

[See *Historical Statistics, Colonial Times to 1970*, series M 268-269, for mine production]

| ITEM                                  | Unit           | 1950  | 1960  | 1965  | 1970  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979, prel. |
|---------------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|
| <b>GOLD</b>                           |                |       |       |       |       |       |       |       |       |       |       |             |
| Ore produced <sup>1</sup> .....       | 1,000 sh. tons | 3,584 | 2,267 | 3,113 | 3,687 | 4,715 | 4,598 | 5,722 | 3,063 | 5,806 | 4,292 | (NA)        |
| Production, U.S. ....                 | Mil. fine oz.  | 2.4   | 1.7   | 1.7   | 1.7   | 1.2   | 1.1   | 1.1   | 1.0   | 1.1   | 1.0   | .9          |
| Value.....                            | Mil. dol.      | 84    | 58    | 60    | 63    | 115   | 180   | 170   | 131   | 163   | 193   | 280         |
| Production, world.....                | Mil. fine oz.  | 28.3  | 37.8  | 46.2  | 47.5  | 43.0  | 40.1  | 38.7  | 38.9  | 38.9  | 39.3  | 39.3        |
| Industrial consumption                |                |       |       |       |       |       |       |       |       |       |       |             |
| U.S., net.....                        | Mil. troy oz.  | 2.8   | 3.0   | 5.3   | 6.0   | 6.7   | 4.7   | 4.0   | 4.6   | 4.9   | 4.7   | 4.7         |
| Imports <sup>2</sup> .....            | Mil. dol.      | 163   | 335   | 102   | 237   | 356   | 397   | 457   | 331   | 674   | 922   | 1,424       |
| Exports.....                          | Mil. dol.      | 514   | 2     | 1,285 | 38    | 146   | 228   | 493   | 375   | 1,113 | 1,114 | 5,071       |
| Price per fine oz. <sup>3</sup> ..... | Dol.           | 35.0  | 35.0  | 35.0  | 36.4  | 97.8  | 159.7 | 161.5 | 125.3 | 148.3 | 193.6 | 307.5       |
| Production: <sup>4</sup>              |                |       |       |       |       |       |       |       |       |       |       |             |
| Nevada.....                           | 1,000 fine oz. | 170   | 66    | 205   | 480   | 260   | 299   | 333   | 288   | 324   | 261   | 179         |
| South Dakota.....                     | 1,000 fine oz. | 572   | 551   | 656   | 579   | 358   | 344   | 305   | 319   | 305   | 286   | 248         |
| Utah.....                             | 1,000 fine oz. | 392   | 314   | 389   | 408   | 307   | 255   | 190   | 187   | 211   | 236   | 235         |
| <b>SILVER</b>                         |                |       |       |       |       |       |       |       |       |       |       |             |
| Ore produced <sup>1</sup> .....       | 1,000 sh. tons | 1,060 | 988   | 958   | 934   | 717   | 758   | 919   | 1,821 | 1,457 | 1,640 | (NA)        |
| Production, U.S. ....                 | Mil. fine oz.  | 42    | 31    | 40    | 45    | 37    | 34    | 35    | 34    | 38    | 39    | 37          |
| Value.....                            | Mil. dol.      | 38    | 28    | 51    | 80    | 96    | 159   | 154   | 149   | 176   | 210   | 410         |
| Production, world.....                | Mil. fine oz.  | 203   | 241   | 257   | 301   | 308   | 292   | 298   | 315   | 337   | 340   | 353         |
| Industrial consumption                |                |       |       |       |       |       |       |       |       |       |       |             |
| U.S., net <sup>7</sup> .....          | Mil. fine oz.  | 110   | 102   | 137   | 128   | 196   | 176   | 158   | 171   | 154   | 160   | 157         |
| Imports <sup>8</sup> .....            | Mil. dol.      | 79    | 54    | 63    | 104   | 269   | 502   | 331   | 329   | 356   | 408   | 1,025       |
| Exports.....                          | Mil. dol.      | 4     | 27    | 51    | 49    | 28    | 82    | 148   | 61    | 85    | 121   | 395         |
| Price per fine oz. <sup>9</sup> ..... | Dol.           | .91   | .91   | 1.29  | 1.77  | 2.56  | 4.71  | 4.42  | 4.35  | 4.62  | 5.40  | 11.09       |
| Production: <sup>4</sup>              |                |       |       |       |       |       |       |       |       |       |       |             |
| Idaho.....                            | Mil. fine oz.  | 16.0  | 17.8  | 18.1  | 19.1  | 13.6  | 12.4  | 13.9  | 11.6  | 15.3  | 18.4  | 17.2        |
| Arizona.....                          | Mil. fine oz.  | 5.1   | 5.3   | 6.1   | 7.3   | 7.2   | 6.4   | 6.3   | 7.6   | 8.8   | 6.6   | 7.4         |
| Utah.....                             | Mil. fine oz.  | 6.8   | 5.1   | 5.2   | 6.0   | 3.6   | 3.2   | 2.8   | 3.1   | 3.3   | 2.9   | 2.4         |
| Colorado.....                         | Mil. fine oz.  | 3.3   | 2.1   | 2.0   | 2.9   | 3.6   | 2.8   | 3.4   | 4.1   | 4.7   | 4.2   | 2.9         |

NA Not available. <sup>1</sup> Gold and silver are also produced from base-metal ores and placers. In 1975, those sources accounted for 38 percent of gold produced and 65 percent of silver. <sup>2</sup> General imports, 1950-1977; imports for consumption, 1978 and 1979. <sup>3</sup> Selling price, except New York price for silver, beginning 1965. <sup>4</sup> Source: 1950-1965, U.S. Bureau of the Mint, *Annual Report of the Director*. <sup>5</sup> Refinery production. <sup>6</sup> Includes gold-silver ore. <sup>7</sup> Excludes coinage. <sup>8</sup> General imports, 1950-1972; thereafter, imports for consumption. <sup>9</sup> Includes gold-silver ore.

Source of tables 1373 and 1374: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1375. COPPER—SUMMARY: 1960 TO 1979

[In thousands of short tons, except as indicated. Excludes Hawaii and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 235-241]

| ITEM   | 1960  | 1965  | 1970  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979, prel. |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------------|
| New (primary) copper produced—                           |       |       |       |       |       |       |       |       |             |
| Mines (from domestic ores).....                          | 1,080 | 1,352 | 1,720 | 1,597 | 1,413 | 1,606 | 1,504 | 1,496 | 1,589       |
| Copper ore produced <sup>1</sup> (mil. sh. tons).....    | 135   | 173   | 258   | 293   | 263   | 284   | 260   | 284   | 292         |
| Average yield of copper (percent).....                   | .73   | .70   | .59   | .49   | .47   | .51   | .52   | .51   | .49         |
| Smelters (from domestic ores).....                       | 1,143 | 1,403 | 1,605 | 1,532 | 1,374 | 1,461 | 1,394 | 1,400 | 1,448       |
| Percent of world total.....                              | 23    | 23    | 24    | 19    | 17    | 17    | 16    | 16    | 16          |
| Refineries (from domestic ores).....                     | 1,121 | 1,336 | 1,521 | 1,421 | 1,286 | 1,423 | 1,411 | 1,463 | 1,556       |
| From foreign ores, matte, etc., refinery.....            | 398   | 376   | 244   | 234   | 157   | 117   | 85    | 134   | 114         |
| Total new refined, domestic and foreign.....             | 1,519 | 1,712 | 1,765 | 1,655 | 1,443 | 1,539 | 1,498 | 1,597 | 1,670       |
| Secondary copper produced.....                           | 871   | 1,253 | 1,248 | 1,344 | 972   | 1,145 | 1,196 | 1,375 | 1,711       |
| Recovered from old scrap only.....                       | 429   | 513   | 504   | 483   | 369   | 419   | 452   | 553   | 666         |
| Imports (unmanufactured) <sup>2</sup> <sup>3</sup> ..... | 524   | 523   | 392   | 609   | 324   | 535   | 517   | 602   | 362         |
| Refined.....   | 143   | 137   | 132   | 314   | 147   | 382   | 391   | 457   | 237         |
| Exports (unmanufactured) <sup>3</sup> .....              | 506   | 372   | 307   | 191   | 234   | 172   | 125   | 196   | 204         |
| Refined exports of metallic copper.....                  | 434   | 325   | 221   | 127   | 172   | 112   | 52    | 101   | 81          |
| Stocks (producers), Dec. 31.....                         | 359   | 281   | 470   | 425   | 519   | 511   | 580   | 459   | 374         |
| Mine production of primary copper.....                   | 1,080 | 1,352 | 1,720 | 1,597 | 1,413 | 1,606 | 1,504 | 1,496 | 1,589       |
| Arizona.....   | 539   | 703   | 918   | 859   | 813   | 1,024 | 924   | 983   | 1,043       |
| Montana.....   | 92    | 115   | 120   | 131   | 88    | 91    | 86    | 74    | 77          |
| New Mexico.....  | 67    | 99    | 166   | 197   | 146   | 172   | 165   | 141   | 181         |
| Utah.....  | 218   | 259   | 296   | 231   | 177   | 185   | 194   | 205   | 213         |
| Other States.....  | 163   | 175   | 220   | 180   | 189   | 134   | 135   | 93    | 76          |
| Avg. price, domestic production (cents per lb.).....     | 32.1  | 35.4  | 58.2  | 77.3  | 64.2  | 69.6  | 66.8  | 66.5  | 93.3        |
| World smelter production, new copper.....                | 5,040 | 6,105 | 6,752 | 8,068 | 8,069 | 8,564 | 8,851 | 8,735 | 8,858       |

NA Not available. <sup>1</sup> Includes old tailings, smelted or retreated. Not comparable with mine production figures which include recoverable copper content of ores not classified as "copper." <sup>2</sup> Includes copper imported for immediate consumption plus material entering country under bond. <sup>3</sup> Comprises copper in ores and concentrates, matte, refined, blister, and scrap.

## No. 1376. MOLYBDENUM CONCENTRATES—SUMMARY: 1960 TO 1979

[In millions of pounds of contained molybdenum, except as indicated. See *Historical Statistics, Colonial Times to 1970*, series M 227-228, for production and exports of ores and concentrates]

| ITEM   | 1960 | 1965 | 1970  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979 <sup>1</sup> |
|--|------|------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| Production.....                                  | 68.2 | 77.4 | 111.4 | 115.9 | 112.0 | 106.0 | 113.2 | 122.4 | 131.6 | 144.0             |
| Shipments from mines.....                        | 69.9 | 77.3 | 110.4 | 135.1 | 118.2 | 105.2 | 114.5 | 125.0 | 130.7 | 143.5             |
| Average price per pound <sup>2</sup> (dol.)..... | 1.47 | 1.75 | 1.92  | 1.92  | 2.24  | 2.74  | 3.26  | 4.02  | 4.86  | 6.07              |
| Exports <sup>3</sup> <sup>4</sup> .....          | 30.2 | 24.1 | 55.7  | 74.0  | 78.7  | 62.6  | 62.5  | 65.7  | 69.2  | 72.2              |
| Imports for consumption <sup>4</sup> .....       | -    | .1   | (Z)   | .5    | .2    | 2.6   | 2.1   | 2.0   | 2.7   | 2.3               |
| Consumption.....                                 | 44.8 | 68.1 | 76.1  | 82.5  | 91.7  | 90.0  | 85.0  | 91.0  | 96.4  | 103.2             |
| Stocks (industry), Dec. 31 <sup>5</sup> .....    | 3.5  | 4.2  | 9.7   | 22.0  | 18.7  | 10.7  | 9.4   | 8.2   | 9.0   | 8.5               |
| World production, estimate <sup>6</sup> .....    | 89.1 | 98.5 | 161.1 | 161.4 | 166.2 | 180.3 | 195.5 | 209.7 | 220.9 | 227.1             |

- Represents zero. Z Less than 50,000 pounds. <sup>1</sup> Preliminary. <sup>2</sup> Molybdenum in technical-grade oxide, f.o.b., plant of major producer, domestic sales. <sup>3</sup> Includes roasted concentrates. <sup>4</sup> Includes Alaska, Hawaii, and Puerto Rico. <sup>5</sup> At mines and at plants making molybdenum products. <sup>6</sup> Beginning 1965, free world.

Source of tables 1375 and 1376: U.S. Bureau of Mines, *Minerals Yearbook*.

## No. 1377. COBALT—SUMMARY: 1960 TO 1979

[In millions of pounds of contained cobalt; except as indicated]

| ITEM                                  | 1960  | 1965  | 1970 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978  | 1979  |
|---------------------------------------|-------|-------|------|------|------|------|------|------|-------|-------|
| Production:                           |       |       |      |      |      |      |      |      |       |       |
| Mine.....                             | 2.2   | 1.2   | .7   | -    | -    | -    | -    | -    | -     | -     |
| Secondary (scrap).....                | .2    | .1    | .1   | .3   | .3   | .3   | .3   | .5   | 1.0   | 1.2   |
| Imports.....                          | 12.2  | 15.4  | 12.4 | 19.2 | 16.1 | 6.6  | 16.5 | 17.5 | 19.0  | 20.0  |
| Exports <sup>1</sup> .....            | (NA)  | .1    | 1.5  | 1.4  | 1.3  | 1.8  | 1.8  | .9   | 1.5   | .7    |
| Reported consumption.....             | 9.0   | 13.6  | 13.4 | 18.7 | 18.9 | 12.8 | 16.5 | 16.6 | 20.0  | 17.4  |
| Inventories.....                      | 104.0 | 103.8 | 81.0 | 65.4 | 56.0 | 49.5 | 44.1 | 44.5 | 45.2  | 44.2  |
| Government <sup>2</sup> .....         | 103.2 | 102.2 | 79.1 | 62.9 | 54.0 | 47.6 | 41.0 | 40.8 | 40.8  | 40.8  |
| Private <sup>3</sup> .....            | .8    | 1.6   | 1.9  | 2.5  | 2.0  | 1.8  | 3.2  | 3.7  | 4.4   | 3.4   |
| Price <sup>4</sup> (dollars/lb.)..... | 1.54  | 1.62  | 2.20 | 3.00 | 3.46 | 3.98 | 4.44 | 5.58 | 11.53 | 24.58 |

- Represents zero. NA Not available. <sup>1</sup> Content of unwrought cobalt and cobalt alloys, and waste and scrap. <sup>2</sup> Includes cobalt sold but not delivered. <sup>3</sup> Consumer stocks only. <sup>4</sup> Weighted average based on the market price quoted by a major U.S. cobalt dealer.

Source: U.S. Bureau of Mines, *Minerals & Materials*, monthly.

## NO. 1378. NICKEL—SUMMARY: 1960 TO 1979

[Quantities in thousands of short tons. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 231-234]

| ITEM  | 1960 | 1965 | 1970 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 <sup>1</sup> |
|---|------|------|------|------|------|------|------|------|------|-------------------|
| Mine production.....                        | 14   | 16   | 16   | 18   | 17   | 17   | 16   | 14   | 14   | 15                |
| Plant production: Primary.....              | 14   | 14   | 16   | 14   | 14   | 14   | 14   | 13   | 11   | 12                |
| Secondary <sup>2</sup> .....                | 27   | 51   | 49   | 66   | 65   | 42   | 47   | 45   | 44   | 47                |
| Imports (est. nickel content).....          | 103  | 163  | 156  | 190  | 221  | 161  | 188  | 195  | 240  | 184               |
| Exports (gross weight).....                 | 54   | 21   | 31   | 22   | 30   | 30   | 47   | 39   | 38   | 51                |
| Consumption.....                            | 108  | 172  | 156  | 198  | 208  | 146  | 163  | 155  | 181  | 196               |
| Stocks (consumer), Dec. 31.....             | 11   | 14   | 25   | 29   | 45   | 35   | 32   | 18   | 20   | 20                |
| Price per pound <sup>3</sup> (dollars)..... | .74  | .79  | 1.33 | 1.53 | 2.01 | 2.20 | 2.20 | 2.41 | 2.08 | 2.49              |
| World production, est.....                  | 353  | 468  | 693  | 793  | 849  | 890  | 884  | 904  | 731  | 776               |

<sup>1</sup> Preliminary. <sup>2</sup> Includes nickel recovered from iron and steel scrap. <sup>3</sup> Peak price quoted U.S. buyers by International Nickel Co., Inc., for electrolytic nickel, U.S. duty included, f.o.b. Port Colborne, Ontario.

## NO. 1379. TIN—SUMMARY: 1960 TO 1979

[In thousands of short tons, except price. See headnote, table 1378, for exclusions]

| ITEM   | 1960 | 1965 | 1970 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 <sup>1</sup> |
|--|------|------|------|------|------|------|------|------|------|-------------------|
| Production: Domestic smelters.....                                   | (D)  | 3.4  | (D)  | 5.4  | 6.7  | 7.2  | 6.3  | 7.4  | 6.5  | 5.0               |
| Secondary sources.....   | 24.7 | 28.1 | 22.4 | 22.9 | 21.1 | 17.5 | 18.1 | 20.4 | 23.2 | 23.7              |
| Imports for consumption:   |      |      |      |      |      |      |      |      |      |                   |
| Metal.....   | 44.3 | 45.7 | 56.7 | 51.4 | 44.3 | 48.9 | 49.7 | 52.7 | 51.6 | 53.3              |
| Ore (tin content).....   | 15.8 | 4.7  | 5.2  | 5.4  | 6.6  | 7.1  | 6.3  | 7.4  | 4.3  | 5.0               |
| Exports.....   | 1.0  | 3.2  | 5.0  | 3.9  | 9.5  | 4.0  | 2.6  | 6.0  | 5.2  | 3.8               |
| Price of Straits tin at N. Y., avg. cents per lb. <sup>2</sup> ..... | 101  | 178  | 174  | 228  | 396  | 340  | 349  | 499  | 587  | 711               |
| Consumption.....   | 90   | 94   | 83   | 84   | 73   | 62   | 69   | 67   | 68   | 69                |
| World mine production, est.....                                      | 202  | 225  | 256  | 262  | 257  | 245  | 252  | 260  | 277  | 282               |

D Withheld to avoid disclosure of individual company data. <sup>1</sup> Preliminary. <sup>2</sup> See footnote 3, table 1335.

## NO. 1380. TUNGSTEN CONCENTRATE—SUMMARY: 1960 TO 1979

[Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 225-226, for related data]

| ITEM  | Unit              | 1960 | 1965 | 1970 | 1974 | 1975 | 1976 | 1977 | 1978  | 1979, prel. |
|---|-------------------|------|------|------|------|------|------|------|-------|-------------|
| Production:   |                   |      |      |      |      |      |      |      |       |             |
| Concentrates (60% WO <sub>3</sub> basis) <sup>1</sup> ..... | 1,000 sh. tons... | 7.0  | 7.9  | 10.1 | 7.8  | 5.8  | 6.1  | 6.3  | 7.2   | 6.9         |
| Tungsten content.....                                       | Mil. lb.....      | 6.7  | 7.6  | 9.3  | 7.4  | 5.5  | 5.9  | 6.0  | 6.9   | 6.6         |
| Shipments from mines:                                       |                   |      |      |      |      |      |      |      |       |             |
| Reported value f.o.b. mines.....                            | Mil. dol.....     | 9.8  | 13.0 | 23.8 | 37.4 | 29.1 | 37.3 | 55.1 | 56.7  | 55.8        |
| Avg. value per lb. of tungsten.....                         | Dol.....          | 1.40 | 1.72 | 2.55 | 4.77 | 5.30 | 6.35 | 9.15 | 8.22  | 8.27        |
| Imports, general <sup>2</sup> .....                         | Mil. lb.....      | 5.2  | 3.5  | 1.3  | 11.8 | 6.9  | 5.8  | 6.8  | 9.1   | 11.4        |
| Consumption <sup>2</sup> .....                              | Mil. lb.....      | 11.6 | 13.9 | 16.7 | 16.3 | 14.0 | 16.1 | 17.1 | 18.8  | 21.6        |
| Stocks, <sup>1</sup> <sup>2</sup> end of year.....          | Mil. lb.....      | 5.5  | 1.8  | 2.2  | 2.1  | 2.5  | 1.2  | 1.0  | 1.5   | 1.6         |
| World production <sup>2</sup> .....                         | Mil. lb.....      | 68.7 | 59.6 | 71.4 | 82.8 | 84.5 | 80.9 | 92.9 | 100.1 | 101.5       |

<sup>1</sup> A short ton of 60% tungsten trioxide (WO<sub>3</sub>) contains 951.72 pounds of tungsten. <sup>2</sup> Tungsten content.

Source of tables 1378-1380: U.S. Bureau of Mines, *Minerals Yearbook*.

## NO. 1381. URANIUM—SUMMARY: 1960 TO 1979

[See table 1061. See also *Historical Statistics, Colonial Times to 1970*, series M 266-267]

| ITEM   | Unit                | 1960 | 1965 | 1970 | 1973             | 1974             | 1975             | 1976 | 1977 | 1978 | 1979 <sup>1</sup> |
|--|---------------------|------|------|------|------------------|------------------|------------------|------|------|------|-------------------|
| Mine ore shipments <sup>2</sup> .....            | Mil. sh. tons.....  | 8.0  | 4.4  | 6.3  | 6.5              | 7.0              | 7.1              | 8.6  | 10.3 | 14.3 | 16.1              |
| Value.....                                       | Mil. dol.....       | 152  | 84   | 94   | <sup>3</sup> 106 | <sup>3</sup> 113 | <sup>3</sup> 123 | (NA) | (NA) | (NA) | (NA)              |
| Recoverable content <sup>4</sup> .....           | Mil. lb.....        | 34.5 | 19.7 | 24.4 | 25.8             | 23.2             | 22.9             | 27.0 | 31.8 | 35.6 | 36.3              |
| Value <sup>5</sup> .....                         | Mil. dol.....       | 297  | 158  | 150  | <sup>2</sup> 169 | 193              | 276              | 435  | 628  | 769  | 785               |
| Production, concentrate <sup>4</sup> .....       | 1,000 sh. tons..... | 17.6 | 10.3 | 12.9 | 13.2             | 11.5             | 11.6             | 12.7 | 14.9 | 18.5 | 18.5              |
| Imports, concentrate <sup>4</sup> .....          | 1,000 sh. tons..... | 15.6 | 3.0  | .7   | 5.6              | 1.8              | 1.2              | 1.8  | 2.8  | 1.6  | 1.6               |
| Value.....                                       | Mil. dol.....       | (NA) | 58   | 8    | 61               | 30               | 24               | 290  | 111  | 69   | 69                |
| World production <sup>4</sup> <sup>7</sup> ..... | 1,000 sh. tons..... | 41.1 | 20.6 | 24.2 | 25.5             | 23.8             | 25.0             | 37.0 | 43.0 | 44.0 | 50.0              |

NA Not available. <sup>1</sup> Preliminary. <sup>2</sup> Receipts at mills. <sup>3</sup> Estimated. <sup>4</sup> U<sub>3</sub>O<sub>8</sub>. <sup>5</sup> Based on estimated average market price for delivery during the year. <sup>6</sup> Mainly for enrichment and export of enriched uranium product, 1965-76; thereafter, for domestic consumption only. <sup>7</sup> Excludes Communist countries.

Source: U.S. Dept. of Energy, *Statistical Data of The Uranium Industry*, 1979.

## No. 1382. ZINC—PRODUCTION AND PRICES: 1960 TO 1979

[Production in thousands of short tons. Excludes Alaska and Hawaii. 1979 data are preliminary. See *Historical Statistics, Colonial Times to 1970*, series M 249-250, for production]

| ITEM AND STATE                                     | 1960       | 1965       | 1970       | 1973       | 1974       | 1975       | 1976       | 1977       | 1978       | 1979       |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Smelter production, primary slab zinc</b> ..... | <b>800</b> | <b>994</b> | <b>878</b> | <b>583</b> | <b>555</b> | <b>438</b> | <b>499</b> | <b>450</b> | <b>448</b> | <b>521</b> |
| Value (mil. dol.).....                             | 205        | 291        | 236        | 241        | 399        | 341        | 369        | 310        | 278        | 389        |
| From domestic ores.....                            | 334        | 551        | 404        | 399        | 347        | 308        | 382        | 355        | 295        | 281        |
| From foreign ores.....                             | 465        | 443        | 474        | 184        | 208        | 130        | 117        | 95         | 154        | 240        |
| Production, redistilled secondary slab zinc.....   | 69         | 84         | 77         | 83         | 79         | 58         | 69         | 51         | 38         | 59         |
| Avg. price of common zinc (cents per lb.).....     | 13.0       | 14.5       | 15.3       | 20.7       | 36.0       | 39.0       | 37.0       | 34.4       | 31.0       | 37.3       |
| <b>Mine production, recoverable zinc</b> .....     | <b>435</b> | <b>611</b> | <b>534</b> | <b>479</b> | <b>500</b> | <b>469</b> | <b>485</b> | <b>450</b> | <b>334</b> | <b>294</b> |
| Colorado.....                                      | 31         | 54         | 57         | 58         | 49         | 48         | 51         | 40         | 24         | 11         |
| Idaho.....   | 37         | 58         | 41         | 46         | 39         | 41         | 47         | 31         | 36         | 33         |
| Missouri.....                                      | 3          | 4          | 51         | 82         | 92         | 75         | 84         | 82         | 65         | 68         |
| New York.....                                      | 66         | 70         | 59         | 81         | 93         | 77         | 74         | 71         | 29         | 13         |
| Tennessee.....                                     | 91         | 122        | 118        | 64         | 86         | 83         | 83         | 90         | 97         | 94         |
| Other States.....                                  | 207        | 303        | 208        | 148        | 141        | 145        | 146        | 136        | 83         | 76         |
| World smelter production, est.....                 | 3,335      | 4,353      | 5,321      | 5,877      | 6,183      | 5,526      | 5,911      | 6,092      | 6,188      | 6,611      |

## No. 1383. BAUXITE—SUMMARY: 1960 TO 1979

[In thousands of long tons, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series M 256-257]

| ITEM                                       | 1960         | 1965          | 1970          | 1974          | 1975          | 1976          | 1977          | 1978          | 1979 <sup>1</sup> |
|--|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|
| <b>Production: Crude ore</b> .....         | <b>2,409</b> | <b>1,990</b>  | <b>2,522</b>  | <b>2,370</b>  | <b>2,164</b>  | <b>2,382</b>  | <b>2,397</b>  | <b>2,033</b>  | <b>2,151</b>      |
| Dried-bauxite equivalent.....              | 1,998        | 1,654         | 2,082         | 1,949         | 1,772         | 1,958         | 1,981         | 1,643         | 1,792             |
| Value (mil. dol.).....                     | 21.1         | 18.6          | 30.1          | 25.7          | 25.1          | 26.6          | 28.0          | 23.2          | 24.9              |
| <b>Shipments:<sup>2</sup></b>              |              |               |               |               |               |               |               |               |                   |
| Gross weight (as shipped).....             | 1,925        | 2,065         | 2,343         | 2,284         | 2,058         | 2,170         | 2,036         | 1,837         | 1,887             |
| Dried-bauxite equivalent.....              | 1,654        | 1,785         | 2,078         | 2,021         | 1,836         | 1,941         | 1,843         | 1,637         | 1,701             |
| Value (mil. dol.).....                     | 19.6         | 21.1          | 32.3          | 32.9          | 31.5          | 36.5          | 34.7          | 32.2          | 39.4              |
| <b>Imports for consumption<sup>3</sup></b> | <b>8,739</b> | <b>11,418</b> | <b>13,574</b> | <b>14,976</b> | <b>11,529</b> | <b>12,548</b> | <b>12,784</b> | <b>13,628</b> | <b>13,562</b>     |
| Value <sup>4</sup> (mil. dol.).....        | 78.0         | 143.0         | 159.8         | 180.2         | 245.1         | 315.1         | 349.5         | 397.5         | 389.1             |
| <b>Exports (as shipped)</b> .....          | <b>29</b>    | <b>147</b>    | <b>3</b>      | <b>16</b>     | <b>19</b>     | <b>15</b>     | <b>25</b>     | <b>13</b>     | <b>15</b>         |
| Value (mil. dol.).....                     | 2.6          | 10.7          | .2            | 1.2           | 1.7           | 1.3           | 2.3           | 1.5           | 3.3               |
| World production, est.....                 | 27,205       | 36,849        | 56,873        | 78,362        | 74,503        | 76,239        | 81,073        | 79,749        | 85,443            |

<sup>1</sup> Preliminary. <sup>2</sup> Shipments from mines and processing plants to consumers. <sup>3</sup> Crude and dried. Includes Virgin Islands. <sup>4</sup> As reported by U.S. Bureau of the Census (port of shipment).

## No. 1384. ALUMINUM—SUMMARY: 1960 TO 1979

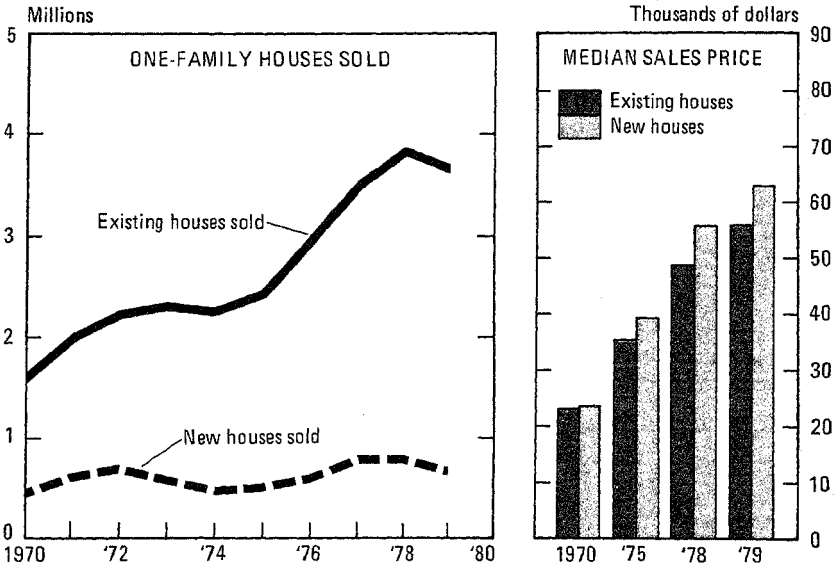
[In thousands of short tons, except as indicated. 1979 data are preliminary. Imports and exports include Puerto Rico. See also *Historical Statistics, Colonial Times to 1970*, series M 258-262]

| ITEM  | 1960         | 1965         | 1970         | 1974         | 1975         | 1976         | 1977         | 1978         | 1979         |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Total production, domestic</b> .....         | <b>2,344</b> | <b>3,395</b> | <b>4,757</b> | <b>5,896</b> | <b>4,859</b> | <b>5,406</b> | <b>5,810</b> | <b>6,127</b> | <b>6,424</b> |
| Primary aluminum.....                           | 2,014        | 2,754        | 3,976        | 4,903        | 3,879        | 4,251        | 4,539        | 4,804        | 5,023        |
| Plant capacity.....                             | 2,469        | 2,759        | 4,254        | 4,915        | 5,021        | 5,193        | 5,193        | 5,197        | 5,282        |
| Secondary aluminum <sup>1</sup> .....           | 329          | 641          | 781          | 993          | 980          | 1,155        | 1,271        | 1,323        | 1,401        |
| From old scrap.....                             | 63           | 160          | 146          | 212          | 283          | 341          | 413          | 451          | 479          |
| From new scrap.....                             | 267          | 481          | 635          | 780          | 697          | 814          | 858          | 872          | 922          |
| <b>Value<sup>2</sup> (mil. dol.)</b> .....      | <b>1,201</b> | <b>1,651</b> | <b>2,644</b> | <b>3,683</b> | <b>3,728</b> | <b>4,815</b> | <b>5,996</b> | <b>6,636</b> | <b>7,734</b> |
| Primary aluminum.....                           | 1,030        | 1,338        | 2,191        | 3,006        | 2,976        | 3,785        | 4,684        | 5,191        | 6,130        |
| Price (cents per lb. <sup>3</sup> ).....        | 26.0         | 24.5         | 28.7         | 34.1         | 39.8         | 44.6         | 51.6         | 54.6         | 59.4         |
| Secondary aluminum.....                         | 171          | 313          | 453          | 677          | 752          | 1,030        | 1,312        | 1,445        | 1,604        |
| <b>Imports for consumption<sup>4</sup></b>      | <b>196</b>   | <b>620</b>   | <b>468</b>   | <b>629</b>   | <b>550</b>   | <b>749</b>   | <b>836</b>   | <b>1,080</b> | <b>840</b>   |
| Value (mil. dol.).....                          | 103          | 266          | 231          | 403          | 410          | 582          | 799          | 1,145        | 1,049        |
| <b>Exports<sup>4</sup></b> .....                | <b>384</b>   | <b>315</b>   | <b>612</b>   | <b>524</b>   | <b>440</b>   | <b>484</b>   | <b>411</b>   | <b>520</b>   | <b>773</b>   |
| Value (mil. dol.).....                          | 174          | 170          | 360          | 482          | 436          | 496          | 504          | 723          | 1,130        |
| <b>Net domestic shipments<sup>5</sup></b> ..... | <b>2,366</b> | <b>3,788</b> | <b>4,476</b> | <b>6,394</b> | <b>4,555</b> | <b>5,956</b> | <b>6,119</b> | <b>6,830</b> | <b>6,805</b> |
| World production, est.....                      | 4,950        | 6,951        | 10,641       | 14,516       | 13,387       | 13,787       | 15,093       | 15,510       | 15,979       |
| Plant capacity.....                             | 5,872        | 7,894        | 12,046       | 15,567       | 16,398       | 17,610       | 17,995       | 18,816       | 19,637       |

<sup>1</sup> Recoverable aluminum content. <sup>2</sup> Based on published producers' prices for primary metal. <sup>3</sup> Average of prices for primary aluminum, 1960-1978: quoted by *American Metal Market*; 1979: *Metals Week*. <sup>4</sup> Crude and semicrude (including metal and alloys, plates, bars, etc., and scrap). <sup>5</sup> Compiled by Aluminum Association from data on net shipments of aluminum ingot and mill products. Includes changes in aluminum industry and government inventories and net trade.

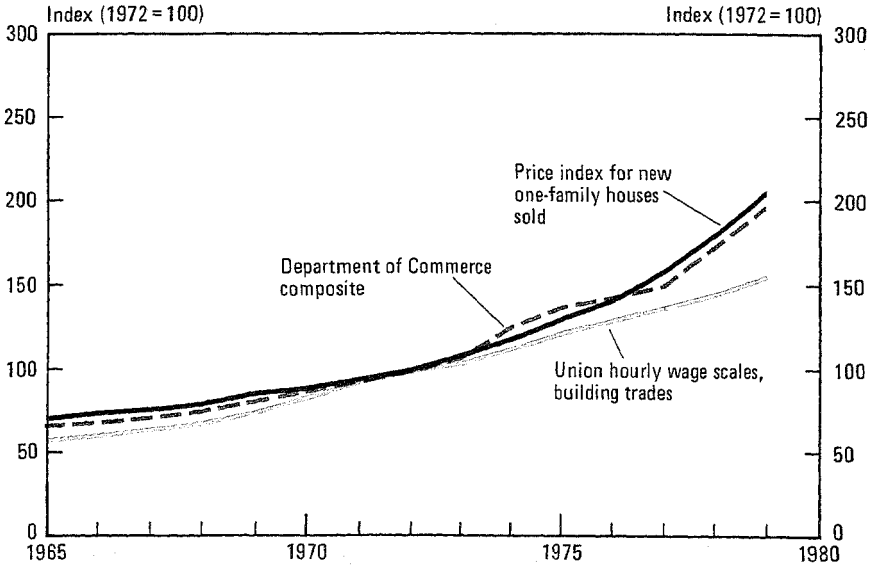
Source of tables 1382-1384: U.S. Bureau of Mines, *Minerals Yearbook*.

**Figure 28.1**  
**Existing and New Private One-Family Houses Sold**  
**and Median Sales Price: 1970 to 1979**



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1423 to 1425.

**Figure 28.2**  
**Construction Prices, Wage Scale, and Cost Indexes:**  
**1965 to 1979**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1391.

# 1980

101st EDITION

## Section 28

# Construction and Housing

This section presents data on the construction industry and on various indicators of its activity and costs; on housing units and their characteristics, occupants, and financing; and on public housing.

The principal source of these data is the U.S. Bureau of the Census, which issues a variety of current publications. Construction statistics compiled by the Bureau appear in its monthly *Construction Reports* series with various quarterly or annual supplements; *Housing Starts and Housing Completions* present data by type of unit and by 4 major census regions; *New One-Family Houses Sold and For Sale* provides statistics annually on physical and financial characteristics for all new housing by the 4 major census regions; *Value of New Construction Put in Place* includes monthly composite construction cost indexes, and a special supplement which contains historical data, 1947 to 1974, as well as several tables showing data for 1915-1946; *Price Index of New One-Family Houses Sold* presents quarterly figures and annual regional data; and *Housing Units Authorized by Building Permits and Public Contracts* covers approximately 16,000 permit-issuing jurisdictions in the United States. Statistics on expenditures by owners of residential properties are issued quarterly and annually in *Residential Alterations and Repairs*. Reports of the censuses of construction industries (see below) are also issued on various topics.

Other Census Bureau publications include the *Current Housing Reports* series, which comprises the quarterly *Housing Vacancies*, the quarterly *Market Absorption of Apartments*, the *Annual Housing Survey*, and reports of the censuses of housing and of construction industries. *Construction Review*, published monthly by the Bureau of Industrial Economics, U.S. Department of Commerce, contains many of the census series and other construction statistics series from the Federal Government and private agencies.

Other sources include the monthly *Dodge Construction Potentials* of F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, N.Y., which presents State data on construction contracts; the Bureau of Economic Analysis, which presents data on residential capital and gross housing product; and the Federal Home Loan Bank Board, the Department of Housing and Urban Development (HUD), and the Veterans Administration, which publish financial data. Data on conventional home mortgages are provided by the Federal Home Loan Bank Board. The Department of Housing and Urban Development provides data on the gross flow of long-term mortgage loans in its study, *The Supply of Mortgage Credit, 1970-1979*. Data on mortgages insured by the Federal Housing Administration (FHA) and on VA-guaranteed loans are also presented in this section. In addition, the *Statistical Yearbook*, published by HUD, also contains housing data.

**Censuses and Surveys.**—Censuses of the construction industry were first conducted by the Bureau of the Census for 1929, 1935, and 1939; beginning in 1967, a census has been taken every five years (for years ending in "2" and "7"). The latest reports are for 1977.

The 1977 Census of Construction Industries, in accordance with the 1972 *Standard Industrial Classification Manual* (see text, page 392), defines a construction establishment as a relatively permanent place of business where the usual business activities related to construction are conducted.

From 1850 through 1930, the Bureau of the Census collected some housing data as part of its censuses of population and agriculture. Beginning in 1940, separate censuses of housing have been taken at 10-year intervals. For the 1970 census, data on year-round housing units were collected and issued on occupancy and structural characteristics, plumbing facilities, value, and rent.

Evaluation studies of the 1950, 1960, and 1970 censuses estimated the underenumeration of occupied housing units at 2.9 percent, 2.4 percent, and 1.7 percent, respectively. The net undercount in the 1970 census is estimated at approximately 1.5 million housing units. The estimates for the various censuses are not strictly comparable due to differences in timing, procedures, and other factors. The census figures have not been adjusted to reflect the estimated undercounts.

The Annual Housing Survey (*Current Housing Reports*, Series H-150 and H-170), which began in 1973, provides a current and ongoing series of data on selected housing and demographic characteristics. It is based on a national sample and on separate samples for 60 SMSA's selected to represent a cross section of the housing stock in these areas. Annual Housing Survey estimates are subject to both sampling and nonsampling errors; caution should, therefore, be used in making comparisons with 1970 census data.

Data on residential mortgages were collected continuously from 1890 to 1970, except 1930, as part of the decennial census by the Bureau of the Census. Since 1973, mortgage status data, which are limited to single family homes on less than ten acres with no business on the property, have been presented in the Annual Housing Survey.

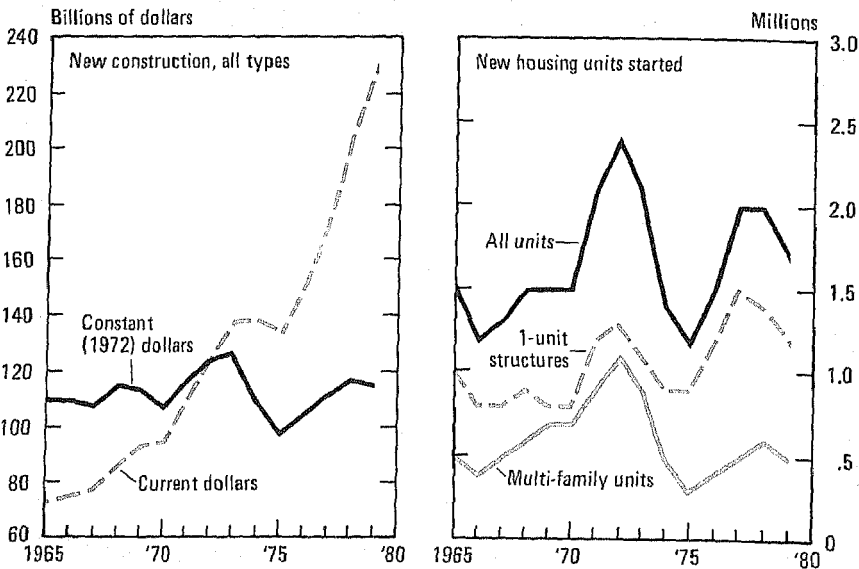
**Housing units.**—In general, a housing unit is a group of rooms or a single room occupied or intended for occupancy as separate living quarters; that is, the occupants do not live and eat with any other persons in the structure, and there is either (1) direct access from the outside or through a common hall, or (2) complete kitchen facilities for the exclusive use of the occupants. Transient accommodations, barracks for workers, and institutional-type quarters are not counted as housing units.

**Statistical Reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Figure 28.3

**New Construction — Value of Total Construction and Housing Units Started: 1965 to 1979**



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1385, 1386, and 1396.

## NO. 1385. VALUE OF NEW CONSTRUCTION PUT IN PLACE: 1965 TO 1979

[In millions of dollars, except percent. Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 66-69]

| ITEM   | 1965          | 1970          | 1973           | 1974           | 1975           | 1976           | 1977           | 1978           | 1979           |
|--|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Total</b> .....                               | <b>73,747</b> | <b>94,855</b> | <b>137,917</b> | <b>138,501</b> | <b>134,535</b> | <b>151,054</b> | <b>173,975</b> | <b>205,457</b> | <b>228,950</b> |
| Average annual percent change <sup>1</sup> ..... | 6.1           | 5.2           | 13.3           | .4             | -2.9           | 12.3           | 15.2           | 18.1           | 11.4           |
| <b>Private</b> .....                             | <b>51,685</b> | <b>66,759</b> | <b>105,412</b> | <b>100,166</b> | <b>93,651</b>  | <b>111,931</b> | <b>135,801</b> | <b>159,556</b> | <b>179,948</b> |
| Percent of total.....                            | 70.1          | 70.4          | 76.4           | 72.3           | 69.6           | 74.1           | 78.1           | 77.6           | 78.6           |
| Residential buildings (incl. farm).....          | 27,934        | 31,864        | 59,727         | 50,376         | 46,472         | 60,520         | 80,956         | 93,424         | 99,030         |
| New housing units.....                           | 21,712        | 24,272        | 50,087         | 40,644         | 34,408         | 47,277         | 65,749         | 75,808         | 78,587         |
| Structures with—                                 |               |               |                |                |                |                |                |                |                |
| 1 unit.....                                      | 15,705        | 14,754        | 30,649         | 26,293         | 27,423         | 40,049         | 55,271         | 62,385         | 60,790         |
| 2 or more units.....                             | 6,007         | 9,518         | 19,438         | 14,351         | 6,986          | 7,228          | 10,478         | 13,422         | 17,798         |
| Additions, alterations.....                      | 4,736         | 6,234         | 7,274          | 8,045          | 10,925         | 12,308         | 14,209         | 16,349         | 18,236         |
| Nonhousekeeping.....                             | 1,466         | 1,358         | 2,366          | 1,687          | 1,139          | 935            | 998            | 1,267          | 2,206          |
| Nonresidential buildings.....                    | 16,509        | 21,417        | 27,584         | 29,637         | 26,407         | 26,091         | 28,695         | 36,293         | 47,298         |
| Commercial.....                                  | (NA)          | 9,754         | 15,453         | 15,944         | 12,806         | 12,756         | 14,783         | 18,565         | 24,924         |
| Industrial.....                                  | (NA)          | 6,538         | 6,243          | 7,902          | 8,018          | 7,183          | 7,712          | 10,894         | 14,950         |
| Hospital and institutional.....                  | (NA)          | 2,529         | 3,152          | 3,201          | 3,209          | 3,396          | 3,290          | 3,347          | 3,530          |
| Religious.....                                   | (NA)          | 931           | 814            | 918            | 867            | 956            | 1,046          | 1,248          | 1,548          |
| Educational.....                                 | (NA)          | 865           | 837            | 655            | 567            | 660            | 660            | 729            | 806            |
| Other nonresidential.....                        | (NA)          | 800           | 1,085          | 1,017          | 939            | 1,140          | 1,203          | 1,410          | 1,540          |
| Public utilities.....                            | 5,788         | 11,020        | 15,185         | 16,624         | 17,379         | 20,301         | 20,272         | 23,302         | 26,467         |
| Telephone, telegraph.....                        | 1,463         | 2,968         | 3,967          | 4,279          | 3,683          | 3,777          | 4,345          | 5,418          | 6,343          |
| Other public utilities.....                      | 4,325         | 8,052         | 11,218         | 12,345         | 13,696         | 16,524         | 15,926         | 17,884         | 20,125         |
| Electric light, power.....                       | 2,589         | 5,808         | 8,778          | 9,246          | 9,888          | 11,777         | 12,432         | 14,384         | 16,009         |
| Gas.....   | 1,304         | 1,653         | 1,709          | 1,739          | 1,350          | 1,280          | 1,560          | 1,929          | 2,266          |
| Railroads.....                                   | 310           | 306           | 422            | 575            | 514            | 580            | 737            | 1,037          | 1,259          |
| Petroleum pipelines.....                         | 122           | 285           | 309            | 785            | 1,944          | 2,887          | 1,197          | 534            | 591            |
| Farm (nonresidential).....                       | 1,038         | 1,512         | 2,003          | 2,529          | 2,325          | 3,941          | 4,577          | 5,253          | 5,700          |
| All other private.....                           | 416           | 946           | 913            | 1,000          | 1,068          | 1,077          | 1,301          | 1,293          | 1,452          |
| <b>Public</b> .....                              | <b>22,062</b> | <b>28,096</b> | <b>32,505</b>  | <b>38,334</b>  | <b>40,884</b>  | <b>39,123</b>  | <b>38,174</b>  | <b>45,902</b>  | <b>49,003</b>  |
| Percent of total.....                            | 29.9          | 29.6          | 23.6           | 27.7           | 30.4           | 25.9           | 21.9           | 22.4           | 21.4           |
| Buildings.....                                   | 7,893         | 10,657        | 12,995         | 14,990         | 15,474         | 13,759         | 12,799         | 15,241         | 15,857         |
| Educational.....                                 | 4,284         | 5,619         | 6,847          | 7,310          | 7,760          | 6,342          | 5,459          | 6,264          | 6,903          |
| Hospital.....                                    | 520           | 837           | 1,002          | 1,238          | 1,745          | 1,870          | 1,733          | 1,822          | 1,648          |
| Industrial.....                                  | 368           | 499           | 606            | 786            | 918            | 905            | 1,070          | 1,184          | 1,411          |
| Housing, redevelopment.....                      | 603           | 1,107         | 941            | 1,006          | 754            | 720            | 908            | 1,053          | 1,211          |
| Other public buildings.....                      | 2,118         | 2,595         | 3,799          | 4,670          | 4,286          | 3,922          | 3,629          | 4,919          | 4,684          |
| Highways and streets.....                        | 7,550         | 9,981         | 10,505         | 12,065         | 10,854         | 9,743          | 9,380          | 10,712         | 11,915         |
| Conservation, development.....                   | 2,019         | 1,908         | 2,313          | 2,741          | 3,257          | 3,742          | 3,862          | 4,457          | 4,587          |
| Military facilities.....                         | 830           | 718           | 1,166          | 1,185          | 1,389          | 1,630          | 1,429          | 1,502          | 1,640          |
| Other public construction.....                   | 3,770         | 4,832         | 5,526          | 7,352          | 9,911          | 10,248         | 10,704         | 13,989         | 15,002         |
| Sewer systems.....                               | 1,195         | 1,544         | 1,954          | 2,681          | 4,801          | 5,341          | 5,374          | 6,765          | 7,298          |
| Water supply facilities.....                     | 1,266         | 1,094         | 1,068          | 1,381          | 1,765          | 1,631          | 1,810          | 2,661          | 2,490          |
| Misc. construction.....                          | 1,309         | 2,194         | 2,504          | 3,290          | 3,345          | 3,276          | 3,520          | 4,563          | 5,215          |
| <b>Public ownership:</b>                         |               |               |                |                |                |                |                |                |                |
| State and local government.....                  | 18,048        | 24,806        | 27,654         | 33,042         | 34,566         | 32,106         | 30,855         | 37,497         | 40,227         |
| Buildings.....                                   | 6,433         | 9,755         | 11,665         | 13,487         | 13,580         | 11,631         | 10,501         | 12,764         | 13,215         |
| Highways and streets.....                        | 7,381         | 9,728         | 10,237         | 11,808         | 10,547         | 9,404          | 8,984          | 10,285         | 11,468         |
| Conservation, development.....                   | 513           | 541           | 358            | 495            | 618            | 903            | 774            | 597            | 673            |
| Other.....                                       | 3,721         | 4,782         | 5,394          | 7,252          | 9,821          | 10,167         | 10,595         | 13,851         | 14,872         |
| Federal government.....                          | 4,014         | 3,290         | 4,851          | 5,293          | 6,318          | 7,017          | 7,320          | 8,404          | 8,775          |
| Conservation, development.....                   | 1,506         | 1,367         | 1,955          | 2,246          | 2,638          | 2,839          | 3,058          | 3,880          | 3,915          |
| Buildings.....                                   | 1,460         | 902           | 1,330          | 1,504          | 1,894          | 2,128          | 2,298          | 2,477          | 2,642          |
| Military facilities.....                         | 830           | 718           | 1,166          | 1,185          | 1,389          | 1,630          | 1,429          | 1,502          | 1,640          |
| Misc. (incl. highways and streets).....          | 218           | 303           | 400            | 357            | 397            | 420            | 505            | 565            | 578            |

NA Not available. <sup>1</sup> Change from prior year shown; for 1965, change from 1960. Minus sign (—) denotes decrease. For explanation of average annual percent change, see Guide to Tabular Presentation.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.



**NO. 1386. VALUE IN CONSTANT (1972) DOLLARS OF NEW CONSTRUCTION PUT IN PLACE: 1965  
TO 1979**

(In millions of dollars, except percent. For details on derivation of constant values and description of revised series, see source. For description of nature of revisions and deflators used, see *Construction Reports*, series C30-74S. See *Historical Statistics, Colonial Times to 1970*, series N 30-60, for value in 1957-59 dollars)

| ITEM  | 1965           | 1970           | 1973           | 1974           | 1975          | 1976           | 1977           | 1978           | 1979           |
|---|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|
| <b>New construction.....</b>                | <b>109,678</b> | <b>107,009</b> | <b>126,924</b> | <b>109,132</b> | <b>97,229</b> | <b>104,995</b> | <b>111,333</b> | <b>116,943</b> | <b>114,696</b> |
| <b>Private.....</b>                         | <b>75,948</b>  | <b>75,113</b>  | <b>96,659</b>  | <b>80,078</b>  | <b>68,628</b> | <b>78,082</b>  | <b>86,437</b>  | <b>90,657</b>  | <b>90,303</b>  |
| Percent of total.....                       | 69.2           | 70.2           | 76.2           | 73.4           | 70.6          | 74.4           | 77.6           | 77.5           | 78.7           |
| Residential buildings <sup>1</sup> .....    | 39,684         | 35,707         | 54,308         | 41,489         | 35,256        | 42,669         | 50,652         | 51,489         | 48,320         |
| New housing units.....                      | 30,840         | 27,206         | 45,541         | 33,492         | 26,096        | 33,312         | 41,100         | 41,769         | 38,338         |
| Structures with—                            |                |                |                |                |               |                |                |                |                |
| 1 unit.....                                 | 22,308         | 16,532         | 27,851         | 21,619         | 20,780        | 28,218         | 34,537         | 34,373         | 29,661         |
| 2 or more units.....                        | 8,532          | 10,674         | 17,690         | 11,873         | 5,317         | 5,094          | 6,563          | 7,397          | 8,677          |
| Additions, alterations.....                 | 6,793          | 6,979          | 6,614          | 6,602          | 8,293         | 8,696          | 8,924          | 9,021          | 8,909          |
| Nonhousekeeping.....                        | 2,111          | 1,522          | 2,153          | 1,395          | 866           | 661            | 627            | 700            | 1,073          |
| Nonresidential buildings <sup>2</sup> ..... | 25,770         | 24,143         | 25,409         | 22,699         | 19,073        | 18,789         | 19,427         | 21,862         | 24,485         |
| Industrial.....                             | 7,948          | 7,369          | 5,739          | 6,038          | 5,791         | 5,174          | 5,222          | 5,604          | 7,760          |
| Office.....                                 | 10,466         | 10,995         | 5,517          | 4,695          | 3,591         | 3,430          | 3,570          | 3,961          | 4,894          |
| Other commercial.....                       |                |                | 8,719          | 7,521          | 5,555         | 5,756          | 6,434          | 7,226          | 7,991          |
| Hospital, institutional.....                | 2,179          | 2,852          | 2,907          | 2,459          | 2,318         | 2,445          | 2,232          | 2,029          | 1,835          |
| Religious.....                              | 1,873          | 1,049          | 751            | 703            | 627           | 688            | 707            | 751            | 802            |
| Educational.....                            | 1,141          | 975            | 771            | 504            | 409           | 475            | 447            | 440            | 417            |
| Other nonresidential.....                   | 2,163          | 903            | 1,005          | 779            | 678           | 821            | 814            | 851            | 795            |
| Public utilities.....                       | 8,252          | 12,497         | 14,258         | 13,195         | 11,888        | 13,064         | 12,429         | 13,410         | 13,823         |
| Telephone, telegraph.....                   | 2,231          | 3,355          | 3,770          | 3,529          | 2,795         | 2,650          | 2,910          | 3,450          | 3,646          |
| Other public utilities.....                 | 6,024          | 9,142          | 10,488         | 9,667          | 9,093         | 10,414         | 9,519          | 9,960          | 10,177         |
| Electric light, power <sup>3</sup> .....    | 3,766          | 6,638          | 8,200          | 7,257          | 6,635         | 7,474          | 7,388          | 8,062          | 6,142          |
| Gas.....                                    | 1,638          | 1,843          | 1,604          | 1,368          | 870           | 784            | 936            | 1,033          | 1,125          |
| Railroads.....                              | 466            | 345            | 394            | 433            | 352           | 388            | 473            | 582            | 616            |
| Petroleum pipelines.....                    | 154            | 316            | 290            | 609            | 1,236         | 1,768          | 722            | 283            | 294            |
| Farm (nonresidential).....                  | 1,617          | 1,702          | 1,838          | 1,935          | 1,679         | 2,838          | 3,094          | 3,166          | 2,955          |
| All other private.....                      | 625            | 1,067          | 851            | 759            | 733           | 722            | 835            | 729            | 710            |
| <b>Public.....</b>                          | <b>33,730</b>  | <b>31,896</b>  | <b>30,265</b>  | <b>29,054</b>  | <b>28,601</b> | <b>26,913</b>  | <b>24,896</b>  | <b>28,285</b>  | <b>24,395</b>  |
| Percent of total.....                       | 30.8           | 29.8           | 23.6           | 26.6           | 29.4          | 25.6           | 22.4           | 22.5           | 21.3           |
| Buildings.....                              | 12,245         | 12,008         | 11,986         | 11,556         | 11,207        | 9,904          | 8,629          | 9,152          | 8,195          |
| Educational.....                            | 6,693          | 6,336          | 6,139          | 5,618          | 5,607         | 4,571          | 3,699          | 3,778          | 3,581          |
| Hospital.....                               | 813            | 947            | 923            | 950            | 1,261         | 1,347          | 1,177          | 1,108          | 857            |
| Industrial.....                             | 576            | 561            | 559            | 588            | 663           | 652            | 725            | 718            | 735            |
| Housing, redevelopment.....                 | 856            | 1,239          | 855            | 827            | 572           | 509            | 571            | 578            | 591            |
| Other public buildings.....                 | 3,307          | 2,925          | 3,510          | 3,573          | 3,104         | 2,826          | 2,458          | 2,973          | 2,432          |
| Highways and streets.....                   | 11,651         | 11,282         | 9,884          | 8,682          | 7,289         | 6,595          | 6,161          | 5,773          | 5,410          |
| Conservation, development.....              | 2,956          | 2,160          | 2,139          | 2,183          | 2,286         | 2,485          | 2,416          | 2,605          | 2,427          |
| Military facilities.....                    | 1,272          | 817            | 1,086          | 905            | 992           | 1,145          | 958            | 868            | 813            |
| Other public construction.....              | 5,606          | 5,629          | 5,170          | 5,729          | 6,847         | 6,784          | 6,733          | 7,899          | 7,550          |
| Sewer systems.....                          | 1,871          | 1,872          | 1,825          | 2,136          | 3,389         | 3,550          | 3,359          | 3,850          | 3,740          |
| Water supply facilities.....                | 1,767          | 1,270          | 1,002          | 1,096          | 1,187         | 1,040          | 1,109          | 1,468          | 1,253          |
| Miscellaneous.....                          | 1,968          | 2,487          | 2,343          | 2,496          | 2,292         | 2,194          | 2,265          | 2,571          | 2,554          |

<sup>1</sup> Including farm. <sup>2</sup> Excludes building by privately owned public utilities. <sup>3</sup> Includes construction with Rural Electrification Administration (REA) funds.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.

**NO. 1387. VALUE OF PRIVATELY OWNED NONRESIDENTIAL BUILDING PROJECTS, BY  
CONSTRUCTION STATUS, 1973 TO 1979, AND BY TYPE OF PROJECT, 1979**

[In billions of dollars]

| CONSTRUCTION STATUS                   | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979  |                 |                         |                          |   |                    |
|---------------------------------------|------|------|------|------|------|------|-------|-----------------|-------------------------|--------------------------|---|--------------------|
|                                       |      |      |      |      |      |      | Total | Indus-<br>trial | Office<br>build-<br>ing | Other<br>com-<br>mercial | Hospi-<br>tal and<br>insti-<br>tutional | Other <sup>1</sup> |
| Value of projects—                    |      |      |      |      |      |      |       |                 |                         |                          |   |                    |
| Started.....                          | 28.4 | 27.7 | 20.1 | 23.6 | 29.3 | 38.7 | 49.0  | 13.1            | 11.8                    | 16.5                     | 3.4                                     | 4.2                |
| Completed.....                        | 24.6 | 26.9 | 27.9 | 25.9 | 27.7 | 31.5 | 40.0  | 13.2            | 7.4                     | 12.8                     | 3.0                                     | 3.5                |
| Under construction<br>at yearend..... | 42.8 | 46.1 | 41.9 | 41.9 | 44.8 | 55.5 | 68.6  | 24.0            | 16.0                    | 14.9                     | 9.0                                     | 4.7                |

<sup>1</sup> Privately owned religious, educational, and miscellaneous nonresidential building projects.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.

**No. 1388. CONSTRUCTION CONTRACTS—VALUE OF CONSTRUCTION AND FLOOR SPACE OF BUILDINGS, BY CLASS OF CONSTRUCTION: 1970 TO 1979**

[Value in billions of dollars; space in million square feet; except percent. Includes new structures and additions to existing structures, and major alterations to existing structures which affect only valuation, since no additional floor area is created by "alteration." See also *Historical Statistics, Colonial Times to 1970*, series N 78-100]

| CLASS OF CONSTRUCTION                      | AMOUNT       |              |              |              |              |              |              |              | PERCENT DISTRIBUTION |              |              |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|  | 1970         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978         | 1979         | 1970                 | 1975         | 1979         |
| <b>Value of construction, total</b> .....  | <b>68.3</b>  | <b>99.3</b>  | <b>93.7</b>  | <b>92.7</b>  | <b>110.1</b> | <b>139.7</b> | <b>159.9</b> | <b>186.4</b> | <b>100.0</b>         | <b>100.0</b> | <b>100.0</b> |
| Residential buildings.....                 | 24.8         | 45.7         | 33.6         | 31.3         | 44.2         | 62.0         | 74.9         | 74.7         | 36.3                 | 33.8         | 44.9         |
| Nonresidential buildings, total .....      | 24.6         | 31.4         | 33.2         | 31.6         | 30.0         | 35.1         | 45.0         | 49.7         | 36.0                 | 34.1         | 29.9         |
| Commercial <sup>1</sup> .....              | 9.1          | 12.8         | 11.8         | 9.2          | 10.2         | 13.6         | 20.6         | 24.2         | 13.3                 | 9.9          | 14.5         |
| Manufacturing .....                        | 3.7          | 4.8          | 5.6          | 6.8          | 4.5          | 5.4          | 9.2          | 7.3          | 5.4                  | 7.3          | 4.4          |
| Educational and science .....              | 5.3          | 5.1          | 6.3          | 5.9          | 4.9          | 5.2          | 5.7          | 6.3          | 7.8                  | 6.4          | 3.8          |
| Hospital.....                              | 2.8          | 3.3          | 3.8          | 3.7          | 4.5          | 4.5          | 3.8          | 4.8          | 4.1                  | 4.0          | 2.9          |
| Public buildings.....                      | 1.0          | 2.0          | 2.1          | 2.1          | 2.1          | 2.3          | 1.5          | 1.6          | 1.5                  | 2.3          | 1.0          |
| Religious.....                             | .6           | .7           | .8           | .8           | .9           | 1.0          | 1.2          | 1.3          | .9                   | .9           | .8           |
| Social and recreational <sup>2</sup> ..... | 2.1          | 2.7          | 2.8          | 3.1          | 3.0          | 3.3          | 3.0          | 4.1          | 3.1                  | 3.3          | 2.5          |
| Nonbuilding construction.....              | 19.0         | 22.1         | 27.0         | 29.8         | 35.9         | 42.6         | 39.9         | 42.0         | 27.8                 | 32.2         | 25.2         |
| <b>Floor space, total</b> .....            | <b>2,938</b> | <b>4,013</b> | <b>2,938</b> | <b>2,390</b> | <b>2,819</b> | <b>3,536</b> | <b>4,101</b> | <b>3,900</b> | <b>100.0</b>         | <b>100.0</b> | <b>100.0</b> |
| Residential buildings.....                 | 1,781        | 2,574        | 1,657        | 1,441        | 1,867        | 2,440        | 2,815        | 2,531        | 60.6                 | 60.3         | 64.9         |
| Nonresidential buildings, total .....      | 1,157        | 1,439        | 1,282        | 949          | 952          | 1,096        | 1,286        | 1,369        | 39.4                 | 39.7         | 35.1         |
| Commercial <sup>1</sup> .....              | 530          | 717          | 594          | 409          | 440          | 564          | 758          | 813          | 18.0                 | 17.1         | 20.8         |
| Manufacturing .....                        | 212          | 293          | 246          | 146          | 152          | 175          | 219          | 237          | 7.2                  | 6.1          | 6.1          |
| Educational and science .....              | 195          | 156          | 176          | 152          | 118          | 112          | 104          | 101          | 6.6                  | 6.4          | 2.6          |
| Hospital.....                              | 75           | 76           | 75           | 63           | 71           | 68           | 53           | 58           | 2.6                  | 2.6          | 1.5          |
| Public buildings.....                      | 29           | 49           | 47           | 46           | 42           | 43           | 22           | 20           | 1.0                  | 1.9          | .5           |
| Religious.....                             | 27           | 28           | 27           | 28           | 31           | 32           | 35           | 34           | .9                   | 1.2          | .9           |
| Social and recreational <sup>2</sup> ..... | 89           | 120          | 117          | 105          | 99           | 105          | 96           | 106          | 3.0                  | 4.4          | 2.7          |

<sup>1</sup> Includes nonindustrial warehouses. <sup>2</sup> Includes miscellaneous.

Source: F.W. Dodge Division, McGraw-Hill Information Systems Company, New York, N.Y. in *Dodge Construction Potentials*.

**No. 1389. CONSTRUCTION CONTRACTS—VALUE, BY STATES: 1975 TO 1979**

[In millions of dollars. See headnote, table 1388. Represents value of construction in States in which work was actually done]

| STATE              | 1975          | 1977           | 1978           | 1979                    |               |                 | STATE       | 1975  | 1977   | 1978   | 1979                    |             |                 |
|--------------------|---------------|----------------|----------------|-------------------------|---------------|-----------------|-------------|-------|--------|--------|-------------------------|-------------|-----------------|
|                    |               |                |                | Total (incl. non-bldg.) | Residential   | Non-residential |             |       |        |        | Total (incl. non-bldg.) | Residential | Non-residential |
| <b>Total</b> ..... | <b>92,659</b> | <b>139,723</b> | <b>159,930</b> | <b>166,378</b>          | <b>74,686</b> | <b>49,659</b>   | Mo.....     | 1,645 | 2,461  | 2,752  | 3,047                   | 1,273       | 1,032           |
| Ala.....           | 3,084         | 1,980          | 2,758          | 2,528                   | 983           | 670             | Mont.....   | 393   | 444    | 554    | 569                     | 228         | 132             |
| Alaska.....        | 4,826         | 825            | 682            | 630                     | 191           | 217             | Nebr.....   | 747   | 868    | 1,392  | 1,028                   | 484         | 267             |
| Ariz.....          | 1,704         | 3,827          | 2,907          | 3,566                   | 2,046         | 1,049           | Nev.....    | 479   | 1,006  | 1,322  | 1,197                   | 745         | 275             |
| Ark.....           | 1,301         | 1,250          | 1,536          | 1,588                   | 746           | 383             | N.H.....    | 313   | 1,653  | 1,604  | 547                     | 270         | 157             |
| Calif.....         | 8,683         | 14,544         | 16,102         | 18,035                  | 10,403        | 5,505           | N.J.....    | 1,950 | 4,805  | 4,096  | 3,585                   | 1,644       | 1,385           |
| Colo.....          | 1,380         | 2,050          | 2,639          | 3,179                   | 1,760         | 960             | N. Mex..... | 660   | 956    | 987    | 1,046                   | 500         | 317             |
| Conn.....          | 804           | 1,164          | 1,541          | 1,574                   | 665           | 621             | N.Y.....    | 3,955 | 4,326  | 5,711  | 5,356                   | 1,865       | 1,894           |
| Del.....           | 228           | 281            | 368            | 343                     | 120           | 120             | N.C.....    | 2,240 | 3,019  | 4,756  | 5,862                   | 1,960       | 1,162           |
| D.C.....           | 542           | 455            | 432            | 546                     | 153           | 299             | N. Dak..... | 865   | 719    | 824    | 597                     | 311         | 123             |
| Fla.....           | 3,607         | 6,873          | 9,116          | 12,171                  | 7,227         | 2,621           | Ohio.....   | 3,924 | 7,317  | 6,482  | 6,257                   | 2,686       | 2,353           |
| Ga.....            | 1,825         | 5,209          | 3,472          | 3,665                   | 1,809         | 1,056           | Okl.....    | 1,166 | 2,426  | 2,365  | 2,699                   | 1,211       | 622             |
| Hawaii.....        | 978           | 613            | 667            | 1,003                   | 465           | 311             | Oreg.....   | 1,036 | 1,936  | 2,259  | 2,495                   | 1,240       | 796             |
| Idaho.....         | 399           | 703            | 737            | 672                     | 403           | 153             | Pa.....     | 3,009 | 3,661  | 4,795  | 4,494                   | 1,963       | 1,582           |
| Ill.....           | 3,907         | 5,796          | 7,282          | 6,997                   | 2,798         | 2,498           | R.I.....    | 244   | 305    | 345    | 392                     | 199         | 136             |
| Ind.....           | 2,211         | 4,353          | 6,437          | 3,460                   | 1,540         | 1,186           | S.C.....    | 2,143 | 1,548  | 1,811  | 4,805                   | 1,115       | 687             |
| Iowa.....          | 1,252         | 1,517          | 2,223          | 2,387                   | 856           | 484             | S. Dak..... | 275   | 459    | 554    | 542                     | 266         | 101             |
| Kans.....          | 1,324         | 3,103          | 1,611          | 1,811                   | 781           | 564             | Tenn.....   | 1,678 | 6,222  | 3,081  | 4,920                   | 1,405       | 1,098           |
| Ky.....            | 1,444         | 2,249          | 3,486          | 3,083                   | 1,112         | 695             | Tex.....    | 6,372 | 10,703 | 13,868 | 13,052                  | 6,235       | 4,569           |
| La.....            | 1,847         | 3,635          | 4,636          | 3,348                   | 1,264         | 1,361           | Utah.....   | 735   | 1,064  | 1,365  | 1,436                   | 675         | 566             |
| Maine.....         | 398           | 400            | 513            | 479                     | 251           | 123             | Vt.....     | 144   | 231    | 279    | 303                     | 136         | 96              |
| Md.....            | 1,988         | 2,183          | 2,846          | 2,577                   | 1,181         | 805             | Va.....     | 2,932 | 3,505  | 4,779  | 3,972                   | 1,895       | 1,323           |
| Mass.....          | 1,415         | 1,896          | 2,244          | 2,825                   | 966           | 889             | Wash.....   | 2,019 | 2,976  | 4,427  | 4,544                   | 2,287       | 1,593           |
| Nich.....          | 3,187         | 4,275          | 6,043          | 5,238                   | 2,399         | 1,945           | W. Va.....  | 926   | 629    | 767    | 1,204                   | 277         | 361             |
| Minn.....          | 1,667         | 2,705          | 3,186          | 3,305                   | 1,467         | 1,044           | Wis.....    | 1,867 | 2,605  | 3,067  | 2,949                   | 1,305       | 1,024           |
| Miss.....          | 1,030         | 1,421          | 1,580          | 3,896                   | 641           | 332             | Wyo.....    | 229   | 440    | 611    | 595                     | 242         | 177             |

Source: F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, N.Y. Figures reported currently in *Dodge Construction Potentials*.

## NO. 1390. PRIVATE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS: 1972 TO 1979

[in billions of dollars. "14,000 and 16,000 place" series are based on U.S. total of approximately 14,000 and 16,000 places identified in 1972 and 1978, respectively, with local building permit systems]

| TYPE OF CONSTRUCTION                     | VALUE (14,000 PLACES) |             |             |             |             |             |             | VALUE (16,000 PLACES) |              |
|--|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|--------------|
|  | 1972                  | 1973        | 1974        | 1975        | 1976        | 1977        | 1978        | 1978                  | 1979         |
| <b>Total</b> .....                       | <b>59.4</b>           | <b>61.8</b> | <b>50.8</b> | <b>47.3</b> | <b>63.1</b> | <b>62.9</b> | <b>96.6</b> | <b>101.6</b>          | <b>108.0</b> |
| New housing units.....                   | 35.9                  | 33.7        | 23.5        | 23.9        | 35.5        | 50.0        | 55.4        | 58.9                  | 56.3         |
| In structures with—                      |                       |             |             |             |             |             |             |                       |              |
| 1 unit.....                              | 21.4                  | 20.7        | 16.8        | 19.8        | 29.0        | 40.0        | 43.2        | 46.3                  | 42.6         |
| 2-4 units.....                           | 1.9                   | 1.7         | 1.0         | 1.1         | 1.8         | 2.6         | 3.0         | 3.1                   | 3.3          |
| 5 units or more.....                     | 12.5                  | 11.3        | 5.7         | 3.0         | 4.7         | 7.4         | 9.3         | 9.6                   | 10.4         |
| New nonhousekeep. residential bldgs..... | 1.4                   | 1.7         | .9          | .7          | .8          | 1.0         | 1.3         | 1.3                   | 1.6          |
| New nonresidential buildings.....        | 17.3                  | 20.9        | 20.5        | 16.2        | 19.2        | 23.7        | 30.8        | 32.2                  | 38.9         |
| Industrial buildings.....                | 2.9                   | 4.5         | 4.5         | 3.0         | 3.9         | 5.5         | 7.4         | 7.8                   | 9.5          |
| Office buildings.....                    | 3.8                   | 4.1         | 3.9         | 3.0         | 3.1         | 4.3         | 6.6         | 6.8                   | 9.1          |
| Stores and other mercantile.....         | 4.2                   | 4.8         | 4.3         | 3.4         | 4.3         | 5.7         | 7.3         | 7.6                   | 9.0          |
| Hospitals and other institutional.....   | 1.9                   | 1.9         | 2.0         | 2.0         | 2.4         | 2.0         | 2.1         | 2.1                   | 2.3          |
| All other nonresidential.....            | 4.6                   | 5.6         | 5.8         | 4.8         | 5.4         | 6.1         | 7.4         | 7.9                   | 9.0          |
| Additions and alterations.....           | 4.9                   | 5.6         | 6.0         | 6.6         | 7.7         | 8.2         | 9.1         | 9.2                   | 11.2         |

## NO. 1391. PRICE, WAGE SCALE, AND COST INDEXES FOR CONSTRUCTION: 1965 TO 1979

[1972 = 100. Excludes Alaska and Hawaii, except as noted. Indexes of certain of these sources are published on bases different from those shown here. See *Historical Statistics, Colonial Times to 1970*, series N 118-137, for construction cost indexes on a 1947-49 base]

| ITEM  | 1965 | 1970 | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979  |
|---|------|------|-------|-------|-------|-------|-------|-------|-------|
| Price index for new one-family houses sold <sup>1</sup> .....     | 71.2 | 89.1 | 108.9 | 119.1 | 131.0 | 142.0 | 159.6 | 182.1 | 207.3 |
| Union hourly wage scales, building trades <sup>2</sup> .....      | 59.3 | 84.1 | 105.0 | 113.2 | 122.9 | 130.9 | 138.6 | 146.5 | 156.6 |
| Bricklayers.....  | 59.8 | 83.2 | 104.0 | 112.3 | 119.9 | 126.5 | 133.1 | 140.3 | 150.7 |
| Carpenters.....   | 60.1 | 85.4 | 106.1 | 114.0 | 123.9 | 131.3 | 138.3 | 145.9 | 155.8 |
| Electricians.....   | 57.6 | 82.1 | 103.8 | 110.3 | 122.0 | 130.2 | 138.8 | 146.7 | 157.4 |
| Painters.....   | 59.8 | 83.2 | 105.6 | 113.6 | 123.5 | 132.8 | 141.0 | 149.5 | 159.4 |
| Plasterers.....   | 61.0 | 83.5 | 104.4 | 113.0 | 121.1 | 129.8 | 137.5 | 144.9 | 154.5 |
| Plumbers.....   | 59.8 | 85.4 | 103.9 | 113.0 | 122.2 | 130.6 | 138.6 | 146.8 | 157.1 |
| Building laborers.....  | 59.5 | 85.0 | 105.5 | 115.7 | 125.3 | 133.6 | 142.1 | 150.5 | 161.5 |
| Construction cost indexes:  |      |      |       |       |       |       |       |       |       |
| Dept. of Commerce composite <sup>3</sup> .....                    | 67.2 | 88.6 | 108.7 | 126.9 | 138.4 | 143.9 | 156.3 | 175.7 | 199.6 |
| Federal Highway Admin.: Highways <sup>4</sup> .....               | 65.3 | 90.9 | 110.3 | 146.0 | 147.5 | 144.2 | 156.6 | 191.7 | 223.1 |
| Environmental Protection Agency:                                  |      |      |       |       |       |       |       |       |       |
| Sewers.....   | 62.8 | 80.7 | 107.5 | 124.2 | 139.5 | 148.2 | 157.6 | 172.6 | 194.1 |
| Sewage treatment plant.....                                       | 65.1 | 83.5 | 106.2 | 126.3 | 145.3 | 152.5 | 161.8 | 177.1 | 194.8 |
| Federal Energy Regulatory Commission: Pipeline.....               | 79   | 90   | 106   | 126   | 155   | 163   | 167   | 186   | 201   |
| American Appraisal Co.: Building construction <sup>5</sup> .....  | 60   | 83   | 111   | 117   | 125   | 137   | 146   | 159   | 172   |
| Turner Construction Co.: Building construction <sup>6</sup> ..... | 61   | 84   | 107   | 124   | 129   | 132   | 137   | 145   | 161   |
| E. H. Boeckh, building cost index: <sup>7</sup>                   |      |      |       |       |       |       |       |       |       |
| Small residential structures.....                                 | 62.0 | 84.0 | 109.2 | 118.0 | 125.9 | 136.2 | 148.5 | 161.8 | 176.6 |
| Apartments, hotels, and office buildings.....                     | 62.4 | 85.6 | 105.9 | 115.8 | 127.2 | 137.3 | 148.6 | 158.2 | 170.5 |
| Commercial and factory buildings.....                             | 62.2 | 85.0 | 106.6 | 118.1 | 130.4 | 141.5 | 152.9 | 164.3 | 179.0 |
| Engineering News-Record: <sup>8</sup>                             |      |      |       |       |       |       |       |       |       |
| Building construction.....  | 60.1 | 80.2 | 108.5 | 114.9 | 124.5 | 135.9 | 147.3 | 159.6 | 173.5 |
| General construction.....   | 55.6 | 79.1 | 108.3 | 115.5 | 126.2 | 137.1 | 147.2 | 158.5 | 171.5 |
| Handy-Whitman public utility: <sup>9</sup> Building.....          | 65   | 83   | 109   | 132   | 147   | 150   | 158   | 173   | 192   |
| Electric light and power <sup>10</sup> .....                      | 69   | 88   | 107   | 127   | 149   | 158   | 169   | 179   | 197   |

<sup>1</sup> Includes value of site. <sup>2</sup> Based on minimum wage rates agreed upon through collective bargaining; excludes overtime. As of first work day in July. Includes Honolulu, Hawaii, beginning in 1976. Source: U.S. Bureau of Labor Statistics, *Union Wages and Hours: Building Trades*, annual. <sup>3</sup> Covers both building and nonbuilding construction, excluding maintenance and repair. Represents a weighted average of various indexes used for different types of construction. <sup>4</sup> Based on average contract unit bid prices for composite mile (involving specific average amounts of excavation, paving, reinforcing steel, structural steel, and structural concrete). <sup>5</sup> Average for 30 cities of 4 types of buildings: Wood-frame, brick-wood frame, brick-steel frame, and reinforced concrete. Covers materials and labor costs in structural portion of buildings but excludes those for plumbing, heating, lighting, sprinklers, and elevators. Reflects employee-benefit costs, and allows for contractors' overhead and profit. <sup>6</sup> Eastern cities. Based on firm's cost experience with respect to labor rates, materials prices, competitive conditions, efficiency of plant and management, and productivity. Reflects payment of sales taxes and employee-benefit costs. <sup>7</sup> Average of 20 cities for types shown. Weights based on surveys of building costs. Wage rates used for both common and skilled labor. Reflects payment of sales taxes and social security payroll taxes. <sup>8</sup> Building construction index computed on basis of hypothetical unit of construction requiring 6 bbl. of portland cement, 1,088 M bd. ft. of 2" x 4" lumber, 2,500 lb. of structural steel, and 68.38 hours of skilled labor. General construction index based on same materials components combined with 200 hours of common labor. <sup>9</sup> Based on data covering public utility construction costs for 95 items in 6 geographic regions. Covers skilled and common labor; does not reflect tax payments nor employee-benefit costs. <sup>10</sup> As derived by U.S. Bureau of the Census. Covers steam production plants only; excludes hydraulic plants.

Source of tables 1390 and 1391: Except as noted, U.S. Bureau of the Census. In U.S. Department of Commerce, Bureau of Industrial Economics, *Construction Review*.

## NO. 1392. CONSTRUCTION MATERIALS—INDEXES OF PRODUCER PRICES: 1970 TO 1979

[1967 = 100. For discussion of producer price index, see text, p. 475. Covers materials incorporated as integral part of a building or normally installed during construction and not readily removable. Excludes consumer durables such as kitchen ranges, refrigerators, etc. See also, *Historical Statistics, Colonial Times to 1970*, series N 140-155]

| COMMODITY                                   | 1970         | 1972         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978         | 1979<br>prel. |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| <b>All materials.....</b>                   | <b>112.5</b> | <b>126.6</b> | <b>138.5</b> | <b>160.9</b> | <b>174.0</b> | <b>187.7</b> | <b>204.9</b> | <b>228.3</b> | <b>251.4</b>  |
| Softwood lumber: Douglas fir.....           | 108.7        | 161.1        | 209.6        | 213.7        | 212.0        | 250.7        | 291.4        | 339.7        | 383.4         |
| Southern pine.....                          | 114.7        | 151.5        | 187.9        | 184.5        | 175.3        | 217.4        | 262.5        | 304.6        | 324.2         |
| Other.....                                  | 115.0        | 177.0        | 226.6        | 220.8        | 205.3        | 257.8        | 312.6        | 363.9        | 400.4         |
| Hardwood lumber.....                        | 114.6        | 126.2        | 169.0        | 189.5        | 180.3        | 176.0        | 200.3        | 235.8        | 250.0         |
| Millwork.....                               | 116.0        | 128.4        | 144.2        | 157.1        | 160.4        | 176.9        | 193.7        | 235.4        | 254.3         |
| Plywood.....                                | 108.4        | 130.7        | 155.2        | 161.1        | 161.2        | 187.0        | 212.2        | 235.6        | 250.6         |
| Building paper and board.....               | 101.0        | 106.4        | 112.8        | 123.5        | 127.1        | 138.8        | 157.0        | 187.4        | 182.7         |
| Prepared paint.....                         | 112.4        | 118.0        | 122.2        | 145.7        | 166.9        | 174.4        | 182.4        | 192.3        | 204.2         |
| Finished steel products:                    |              |              |              |              |              |              |              |              |               |
| Structural shapes.....                      | 115.3        | 134.6        | 140.7        | 179.0        | 216.3        | 227.1        | 241.2        | 272.0        | 300.4         |
| Reinforcing bars.....                       | 110.3        | 114.7        | 124.1        | 201.5        | 199.2        | 182.5        | 185.8        | 208.4        | 260.9         |
| Black pipe, carbon.....                     | 113.3        | 132.5        | 137.8        | 178.7        | 204.6        | 219.1        | 247.9        | 279.8        | 301.8         |
| Wire nails, 8d common.....                  | 114.8        | 133.5        | 140.4        | 207.1        | 241.4        | 243.6        | 261.3        | 273.5        | 298.5         |
| Nonferrous metal products.....              | 124.7        | 116.9        | 135.0        | 187.1        | 171.6        | 181.6        | 195.4        | 207.8        | 261.8         |
| Copper water tubing.....                    | 122.9        | 118.4        | 133.3        | 174.7        | 134.2        | 147.7        | (NA)         | 162.8        | 215.5         |
| Building wire.....                          | 123.2        | 92.9         | 108.2        | 169.7        | 125.8        | 118.4        | 126.7        | 125.5        | 167.7         |
| Plumbing fixtures.....                      | 111.2        | 119.7        | 125.8        | 149.1        | 162.3        | 174.1        | 186.6        | 199.1        | 217.1         |
| Heating equipment.....                      | 110.6        | 118.2        | 120.4        | 135.0        | 150.7        | 158.0        | 165.5        | 174.4        | 187.0         |
| Metal doors, sash, trim.....                | 113.0        | 120.5        | 124.5        | 147.3        | 162.5        | 171.3        | 186.7        | 207.6        | 229.5         |
| Plate glass.....                            | (NA)         | 115.0        | 115.0        | 115.0        | 120.4        | 126.4        | 133.0        | 147.3        | 153.3         |
| Concrete ingredients.....                   | 112.6        | 126.9        | 131.2        | 148.7        | 172.3        | 186.7        | 199.0        | 217.7        | 243.6         |
| Concrete products.....                      | 122.2        | 125.6        | 131.7        | 151.7        | 170.5        | 180.1        | 191.8        | 214.0        | 244.1         |
| Structural clay products <sup>1</sup> ..... | 108.9        | 117.3        | 123.3        | 135.2        | 151.2        | 169.5        | 179.8        | 197.2        | 218.0         |
| Gypsum products.....                        | 98.7         | 114.7        | 120.9        | 137.6        | 144.0        | 154.4        | 183.5        | 229.1        | 252.3         |
| Asphalt roofing.....                        | 102.7        | 131.2        | 135.5        | 196.0        | 225.9        | 238.3        | 253.0        | 292.0        | 324.6         |
| Insulation materials.....                   | 123.2        | 136.9        | 137.4        | 156.5        | 196.2        | 212.6        | 235.9        | 250.7        | 256.3         |

NA Not available. <sup>1</sup> Excludes refractories.

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

## NO. 1393. CONSTRUCTION INDUSTRIES—SUMMARY, BY INDUSTRY: 1972 AND 1977

[Based on a probability sample of about 167,000 in 1972 and 181,000 in 1977 construction establishments with payroll; see Appendix III. n.e.c. = not elsewhere classified]

| INDUSTRY  | Estab-<br>lish-<br>ments<br>with<br>payroll<br>(1,000) | EMPLOYEES<br>(1,000) |                              | PAYROLL<br>(mil. dol.) |                              | RECEIPTS<br>(mil. dol.) |                                       | Value<br>added <sup>2</sup><br>(mil.<br>dol.) |
|---|--|----------------------|------------------------------|------------------------|------------------------------|-------------------------|---------------------------------------|---|
|   |  | Total                | Con-<br>struction<br>workers | Total                  | Con-<br>struction<br>workers | Total                   | Net<br>construc-<br>tion <sup>1</sup> |   |
| <b>1972, total.....</b>                         | <b>437.9</b>   | <b>4,146</b>         | <b>3,487</b>                 | <b>40,005</b>          | <b>32,187</b>                | <b>155,850</b>          | <b>111,232</b>                        | <b>68,197</b>                                 |
| Contract construction.....                      | 430.0  | 4,083                | 3,464                        | 39,528                 | 32,036                       | 152,722                 | 110,716                               | 67,810  |
| General building contractors.....               | 133.1  | 1,150                | 938                          | 10,159                 | 7,740                        | 64,350                  | 33,245                                | 17,884  |
| Heavy construction contractors.....             | 28.0   | 827                  | 709                          | 9,255                  | 7,537                        | 31,461                  | 25,357                                | 16,200  |
| Special trade contractors <sup>3</sup> .....    | 269.0  | 2,107                | 1,817                        | 20,114                 | 16,759                       | 56,911                  | 52,114                                | 33,726  |
| <b>1977, total.....</b>                         | <b>480.0</b>   | <b>4,273</b>         | <b>3,565</b>                 | <b>54,980</b>          | <b>43,112</b>                | <b>224,665</b>          | <b>164,516</b>                        | <b>98,864</b>                                 |
| Contract construction.....                      | 474.9  | 4,234                | 3,548                        | 54,566                 | 42,963                       | 221,622                 | 163,463                               | 98,116  |
| General building contractors <sup>4</sup> ..... | 156.0  | 1,181                | 963                          | 13,537                 | 10,041                       | 89,787                  | 48,262                                | 25,040  |
| Heavy construction contractors.....             | 31.3   | 917                  | 757                          | 14,267                 | 10,988                       | 50,728                  | 40,272                                | 26,573  |
| Highway and street construction.....            | 11.7   | 268                  | 233                          | 3,596                  | 2,927                        | 15,621                  | 12,546                                | 7,841   |
| Special trade contractors <sup>3</sup> .....    | 287.7  | 2,136                | 1,827                        | 26,762                 | 21,934                       | 81,108                  | 74,929                                | 46,502  |
| Plumbing, heating, air-conditioning.....        | 56.4   | 459                  | 369                          | 6,414                  | 5,025                        | 21,431                  | 19,136                                | 10,681  |
| Painting, paperhanging, decorating.....         | 27.4   | 133                  | 121                          | 1,361                  | 1,191                        | 3,205                   | 3,051                                 | 2,362   |
| Electrical work.....                            | 36.8   | 357                  | 297                          | 5,483                  | 4,497                        | 14,482                  | 13,919                                | 8,748   |
| Masonry and other stonework.....                | 24.8   | 152                  | 143                          | 1,493                  | 1,350                        | 3,805                   | 3,678                                 | 2,417   |
| Plastering, drywall, insulation.....            | 16.7   | 180                  | 158                          | 2,262                  | 1,901                        | 6,266                   | 5,819                                 | 3,630   |
| Terrazzo, tile, marble, mosaic work.....        | 3.9  | 22                   | 19                           | 255                    | 208                          | 789                     | 750                                   | 443   |
| Carpentering.....                               | 24.4   | 125                  | 115                          | 1,202                  | 1,061                        | 3,647                   | 3,328                                 | 2,083   |
| Floor laying and floor work, n.e.c.....         | 9.0  | 41                   | 34                           | 453                    | 352                          | 1,674                   | 1,548                                 | 824   |
| Roofing and sheet metal work.....               | 20.6   | 172                  | 146                          | 1,968                  | 1,555                        | 6,321                   | 5,939                                 | 3,420   |
| Concrete work.....                              | 17.0   | 118                  | 107                          | 1,210                  | 1,043                        | 4,152                   | 3,862                                 | 2,228   |
| Water well drilling.....                        | 4.3  | 22                   | 19                           | 237                    | 188                          | 1,118                   | 1,078                                 | 629   |
| Structural steel erection.....                  | 2.6  | 47                   | 41                           | 674                    | 556                          | 1,882                   | 1,709                                 | 1,184   |
| Glass and glazing work.....                     | 3.3  | 26                   | 19                           | 317                    | 229                          | 1,153                   | 995                                   | 571   |
| Excavating and foundation work.....             | 16.5   | 104                  | 92                           | 1,208                  | 1,021                        | 4,370                   | 3,930                                 | 2,994   |
| Wrecking and demolition work.....               | 1.0  | 8                    | 7                            | 89                     | 70                           | 258                     | 229                                   | 211   |
| Subdividers and developers, n.e.c.....          | 5.1  | 39                   | 18                           | 414                    | 150                          | 3,043                   | 1,053                                 | 748   |

<sup>1</sup> Construction receipts less payments for construction work subcontracted to others, not shown separately. <sup>2</sup> Total receipts less (a) payments for materials, components, and supplies, (b) payments for construction work subcontracted to others, not shown separately. <sup>3</sup> Includes other, not shown separately. <sup>4</sup> Includes operative builders.

Source: U.S. Bureau of the Census, *Census of Construction Industries, 1972 and 1977*, series CC.

## NO. 1394. CONSTRUCTION ESTABLISHMENTS—SUMMARY, BY STATES: 1977

[See headnote, table 1393]

| STATE       | ALL ESTABLISHMENTS |                       | ESTABLISHMENTS WITH PAYROLL |                      |                       | STATE       | ALL ESTABLISHMENTS |                       | ESTABLISHMENTS WITH PAYROLL |                      |                       |
|-------------|--------------------|-----------------------|-----------------------------|----------------------|-----------------------|-------------|--------------------|-----------------------|-----------------------------|----------------------|-----------------------|
|             | Number (1,000)     | Re-ceipts (mil. dol.) | Number (1,000)              | Em-employees (1,000) | Re-ceipts (mil. dol.) |             | Number (1,000)     | Re-ceipts (mil. dol.) | Number (1,000)              | Em-employees (1,000) | Re-ceipts (mil. dol.) |
| U.S.....    | 1,200.4            | 244,816               | 480.0                       | 4,273                | 224,665               | Mo.....     | 31.9               | 5,100                 | 10.5                        | 89                   | 4,658                 |
| Ala.....    | 18.1               | 3,662                 | 7.4                         | 81                   | 3,617                 | Mont.....   | 7.6                | 924                   | 2.6                         | 16                   | 819                   |
| Alaska..... | 3.3                | 1,524                 | 1.4                         | 17                   | 1,428                 | Nebr.....   | 13.1               | 2,109                 | 4.9                         | 36                   | 1,932                 |
| Ariz.....   | 10.9               | 3,433                 | 5.3                         | 53                   | 3,259                 | Nev.....    | 3.8                | 1,365                 | 1.8                         | 22                   | 1,291                 |
| Ark.....    | 17.8               | 1,780                 | 5.1                         | 34                   | 1,522                 | N.H.....    | 7.4                | 896                   | 3.0                         | 18                   | 811                   |
| Calif.....  | 104.0              | 33,412                | 44.7                        | 424                  | 30,515                | N.J.....    | 32.9               | 6,158                 | 15.4                        | 115                  | 5,656                 |
| Colo.....   | 21.7               | 4,670                 | 8.5                         | 74                   | 4,322                 | N. Mex..... | 6.4                | 1,313                 | 3.4                         | 30                   | 1,228                 |
| Conn.....   | 17.3               | 2,921                 | 7.5                         | 51                   | 2,624                 | N.Y.....    | 62.8               | 11,647                | 27.1                        | 206                  | 10,765                |
| Del.....    | 3.1                | 1,120                 | 1.6                         | 18                   | 1,090                 | N.C.....    | 33.8               | 4,845                 | 14.4                        | 116                  | 4,489                 |
| D.C.....    | 1.1                | 705                   | .5                          | 11                   | 677                   | N. Dak..... | 5.3                | 797                   | 2.1                         | 15                   | 745                   |
| Fla.....    | 50.7               | 10,185                | 21.9                        | 197                  | 9,345                 | Ohio.....   | 54.8               | 10,725                | 20.8                        | 180                  | 9,893                 |
| Ga.....     | 28.0               | 4,822                 | 10.9                        | 101                  | 4,379                 | Okla.....   | 24.1               | 2,899                 | 7.0                         | 52                   | 2,469                 |
| Hawaii..... | 3.2                | 1,509                 | 1.7                         | 21                   | 1,435                 | Oreg.....   | 18.6               | 3,073                 | 7.3                         | 45                   | 2,698                 |
| Idaho.....  | 9.4                | 1,297                 | 2.8                         | 19                   | 1,113                 | Pa.....     | 57.7               | 11,451                | 24.3                        | 217                  | 10,606                |
| Ill.....    | 51.4               | 13,374                | 21.0                        | 210                  | 12,338                | R.I.....    | 5.0                | 804                   | 2.5                         | 15                   | 749                   |
| Ind.....    | 30.5               | 5,352                 | 11.3                        | 99                   | 4,905                 | S.C.....    | 14.4               | 3,311                 | 6.5                         | 65                   | 3,104                 |
| Iowa.....   | 22.8               | 3,099                 | 8.3                         | 56                   | 2,829                 | S. Dak..... | 6.1                | 648                   | 2.2                         | 12                   | 570                   |
| Kans.....   | 18.4               | 2,703                 | 8.3                         | 53                   | 2,438                 | Tenn.....   | 27.3               | 4,130                 | 9.4                         | 85                   | 3,708                 |
| Ky.....     | 23.5               | 2,807                 | 7.4                         | 56                   | 2,493                 | Tex.....    | 88.7               | 22,523                | 31.5                        | 408                  | 20,577                |
| La.....     | 18.4               | 4,908                 | 7.5                         | 107                  | 4,579                 | Utah.....   | 9.9                | 2,025                 | 4.4                         | 35                   | 1,829                 |
| Maine.....  | 8.9                | 810                   | 3.3                         | 20                   | 736                   | Vt.....     | 4.6                | 390                   | 1.7                         | 9                    | 347                   |
| Md.....     | 20.4               | 5,885                 | 9.7                         | 105                  | 5,549                 | Va.....     | 28.7               | 5,519                 | 13.1                        | 117                  | 5,110                 |
| Mass.....   | 29.2               | 4,611                 | 11.7                        | 87                   | 4,210                 | Wash.....   | 24.7               | 5,616                 | 11.4                        | 85                   | 5,201                 |
| Mich.....   | 40.8               | 8,411                 | 16.4                        | 128                  | 7,760                 | W. Va.....  | 8.6                | 1,254                 | 3.7                         | 31                   | 1,171                 |
| Minn.....   | 26.6               | 5,136                 | 9.7                         | 83                   | 4,716                 | Wis.....    | 27.0               | 4,739                 | 11.0                        | 81                   | 4,362                 |
| Miss.....   | 11.4               | 1,497                 | 4.3                         | 34                   | 1,352                 | Wyo.....    | 4.3                | 722                   | 1.8                         | 13                   | 650                   |

Source: U.S. Bureau of the Census, *Census of Construction Industries, 1977*, area series CC77-A.

## NO. 1395. NEW HOUSING UNITS AUTHORIZED BY STATES: 1978 AND 1979

[Includes public housing contract awards. Based on about 16,000 places in U.S. having building permit systems]

| STATE       | HOUSING UNITS             |                  |  | VALUATION              |                        | STATE       | HOUSING UNITS             |                  |  | VALUATION              |                        |
|-------------|---------------------------|------------------|--|------------------------|------------------------|-------------|---------------------------|------------------|--|------------------------|------------------------|
|             | 1978,<br>total<br>(1,000) | 1979             |  | 1978<br>(mil.<br>dol.) | 1979<br>(mil.<br>dol.) |             | 1978,<br>total<br>(1,000) | 1979             |  | 1978<br>(mil.<br>dol.) | 1979<br>(mil.<br>dol.) |
|             |                           | Total<br>(1,000) | Percent<br>single<br>unit <sup>1</sup> |                        |                        |             |                           | Total<br>(1,000) | Percent<br>single<br>unit <sup>1</sup> |                        |                        |
| U.S.....    | 1,801.5                   | 1,552.9          | 63                                     | 58,938                 | 56,372                 | Mo.....     | 29.1                      | 19.4             | 72                                     | 886                    | 657                    |
| Ala.....    | 21.0                      | 17.6             | 58                                     | 496                    | 439                    | Mont.....   | 4.8                       | 3.1              | 66                                     | 129                    | 90                     |
| Alaska..... | 4.8                       | 2.7              | 61                                     | 234                    | 151                    | Nebr.....   | 10.9                      | 8.8              | 75                                     | 290                    | 277                    |
| Ariz.....   | 62.1                      | 53.8             | 67                                     | 1,621                  | 1,493                  | Nev.....    | 25.6                      | 19.0             | 61                                     | 602                    | 700                    |
| Ark.....    | 9.9                       | 8.5              | 71                                     | 297                    | 289                    | N.H.....    | 7.2                       | 6.8              | 71                                     | 247                    | 241                    |
| Calif.....  | 245.3                     | 211.7            | 61                                     | 9,589                  | 9,736                  | N.J.....    | 38.2                      | 34.6             | 67                                     | 1,231                  | 1,251                  |
| Colo.....   | 46.3                      | 42.8             | 71                                     | 1,519                  | 1,589                  | N. Mex..... | 15.4                      | 13.1             | 69                                     | 519                    | 463                    |
| Conn.....   | 15.9                      | 14.8             | 64                                     | 543                    | 536                    | N.Y.....    | 43.1                      | 33.8             | 59                                     | 1,228                  | 1,068                  |
| Del.....    | 3.0                       | 3.0              | 75                                     | 94                     | 97                     | N.C.....    | 42.9                      | 41.6             | 71                                     | 1,260                  | 1,270                  |
| D.C.....    | 2.2                       | 1.7              | 23                                     | 49                     | 59                     | N. Dak..... | 6.0                       | 4.8              | 51                                     | 194                    | 185                    |
| Fla.....    | 163.9                     | 175.7            | 59                                     | 4,947                  | 5,858                  | Ohio.....   | 59.9                      | 48.0             | 59                                     | 2,145                  | 1,917                  |
| Ga.....     | 37.5                      | 40.7             | 73                                     | 1,064                  | 1,239                  | Okla.....   | 21.2                      | 18.8             | 72                                     | 770                    | 761                    |
| Hawaii..... | 9.5                       | 11.0             | 55                                     | 389                    | 542                    | Oreg.....   | 38.6                      | 28.3             | 63                                     | 1,269                  | 1,058                  |
| Idaho.....  | 10.6                      | 9.0              | 74                                     | 332                    | 300                    | Pa.....     | 54.0                      | 42.8             | 75                                     | 1,685                  | 1,461                  |
| Ill.....    | 72.2                      | 45.8             | 50                                     | 2,736                  | 1,653                  | R.I.....    | 5.4                       | 5.3              | 61                                     | 141                    | 151                    |
| Ind.....    | 35.1                      | 26.8             | 68                                     | 1,279                  | 1,077                  | S.C.....    | 27.0                      | 26.8             | 71                                     | 605                    | 823                    |
| Iowa.....   | 17.2                      | 13.3             | 58                                     | 554                    | 466                    | S. Dak..... | 5.3                       | 3.9              | 65                                     | 154                    | 120                    |
| Kans.....   | 15.9                      | 13.3             | 64                                     | 578                    | 520                    | Tenn.....   | 28.8                      | 23.3             | 66                                     | 813                    | 729                    |
| Ky.....     | 16.1                      | 13.1             | 63                                     | 469                    | 437                    | Texas.....  | 169.7                     | 150.0            | 51                                     | 4,943                  | 4,981                  |
| La.....     | 27.1                      | 23.6             | 65                                     | 812                    | 782                    | Utah.....   | 21.2                      | 16.6             | 76                                     | 715                    | 631                    |
| Maine.....  | 5.8                       | 4.3              | 68                                     | 178                    | 136                    | Vt.....     | 3.6                       | 3.2              | 61                                     | 101                    | 104                    |
| Md.....     | 30.4                      | 26.7             | 77                                     | 970                    | 925                    | Va.....     | 52.1                      | 44.6             | 78                                     | 1,671                  | 1,586                  |
| Mass.....   | 21.5                      | 21.4             | 59                                     | 638                    | 712                    | Wash.....   | 61.6                      | 51.8             | 59                                     | 2,123                  | 1,932                  |
| Mich.....   | 61.1                      | 49.3             | 69                                     | 2,107                  | 1,902                  | W. Va.....  | 4.4                       | 3.8              | 51                                     | 125                    | 120                    |
| Minn.....   | 37.8                      | 29.4             | 69                                     | 1,439                  | 1,230                  | Wis.....    | 37.7                      | 26.5             | 64                                     | 1,303                  | 981                    |
| Miss.....   | 10.8                      | 8.9              | 62                                     | 278                    | 242                    | Wyo.....    | 5.1                       | 5.2              | 68                                     | 168                    | 188                    |

<sup>1</sup> Privately owned structures.Source: U.S. Bureau of the Census, *Construction Reports*, series C40, annual, and December issues.

## NO. 1396. NEW HOUSING UNITS STARTED: 1960 TO 1980

[Minus sign (—) denotes decrease. See also *Historical Statistics, Colonial Times to 1970*, series N 156-159]

| YEAR       | Total<br>(1,000) | Per-<br>cent<br>change | PRIVATELY<br>OWNED (1,000) |                           | Pub-<br>licly<br>owned<br>(1,000) | YEAR AND<br>MONTH | Total<br>(1,000) | Per-<br>cent<br>change | PRIVATELY<br>OWNED (1,000) |                           | Pub-<br>licly<br>owned<br>(1,000) |
|------------|------------------|------------------------|----------------------------|---------------------------|-----------------------------------|-------------------|------------------|------------------------|----------------------------|---------------------------|-----------------------------------|
|            |                  |                        | Total                      | 1-unit<br>struc-<br>tures |                                   |                   |                  |                        | Total                      | 1-unit<br>struc-<br>tures |                                   |
| 1960 ..... | 1,296            | <sup>1</sup> -16.6     | 1,252                      | 995                       | 44                                | 1975 .....        | 1,171            | -13.4                  | 1,160                      | 892                       | 11                                |
| 1961 ..... | 1,365            | 5.3                    | 1,313                      | 974                       | 52                                | 1976 .....        | 1,548            | 32.2                   | 1,538                      | 1,162                     | 10                                |
| 1962 ..... | 1,492            | 9.3                    | 1,463                      | 991                       | 30                                | 1977 .....        | 1,990            | 28.6                   | 1,987                      | 1,451                     | 3                                 |
| 1963 ..... | 1,635            | 9.6                    | 1,603                      | 1,012                     | 32                                | 1978 .....        | 2,023            | 1.7                    | 2,020                      | 1,433                     | 3                                 |
| 1964 ..... | 1,561            | -4.5                   | 1,529                      | 970                       | 32                                | 1979 .....        | 1,749            | -13.5                  | 1,745                      | 1,194                     | 4                                 |
| 1965 ..... | 1,510            | -3.3                   | 1,473                      | 964                       | 37                                | 1980: Jan.....    | (NA)             | (NA)                   | <sup>3</sup> 1,419         | <sup>3</sup> 1,002        | (NA)                              |
| 1966 ..... | 1,196            | -20.8                  | 1,165                      | 779                       | 31                                | Feb.....          | (NA)             | (NA)                   | <sup>3</sup> 1,330         | <sup>3</sup> 786          | (NA)                              |
| 1967 ..... | 1,322            | 10.5                   | 1,292                      | 844                       | 30                                | Mar.....          | (NA)             | (NA)                   | <sup>3</sup> 1,041         | <sup>3</sup> 617          | (NA)                              |
| 1968 ..... | 1,545            | 16.9                   | 1,508                      | 899                       | 38                                | Apr.....          | (NA)             | (NA)                   | <sup>3</sup> 1,030         | <sup>3</sup> 628          | (NA)                              |
| 1969 ..... | 1,500            | -2.9                   | 1,467                      | 811                       | 33                                | May.....          | (NA)             | (NA)                   | <sup>3</sup> 906           | <sup>3</sup> 628          | (NA)                              |
| 1970 ..... | 1,469            | -2.1                   | 1,434                      | 813                       | 35                                | June.....         | (NA)             | (NA)                   | <sup>3</sup> 1,223         | <sup>3</sup> 757          | (NA)                              |
| 1971 ..... | 2,085            | 41.9                   | 2,052                      | 1,151                     | 32                                | July.....         | (NA)             | (NA)                   | <sup>3</sup> 1,265         | <sup>3</sup> 869          | (NA)                              |
| 1972 ..... | 2,379            | 14.1                   | 2,357                      | 1,309                     | 22                                | Aug. 2.....       | (NA)             | (NA)                   | <sup>3</sup> 1,416         | <sup>3</sup> 1,000        | (NA)                              |
| 1973 ..... | 2,057            | -13.5                  | 2,045                      | 1,132                     | 12                                | Sept. 2 ...       | (NA)             | (NA)                   | <sup>3</sup> 1,544         | <sup>3</sup> 1,050        | (NA)                              |
| 1974 ..... | 1,352            | 34.3                   | 1,336                      | 886                       | 15                                |                   |                  |                        |                            |                           |                                   |

NA Not available. <sup>1</sup> Change from 1959. <sup>2</sup> Preliminary. <sup>3</sup> Seasonally adjusted annual rate.Source: U.S. Bureau of the Census, *Construction Reports*, series C20.

## NO. 1397. NEW HOUSING UNITS STARTED—SELECTED CHARACTERISTICS: 1970 TO 1979

[In thousands. See also *Historical Statistics, Colonial Times to 1970*, series N 156-163]

| CHARACTERISTIC                          | 1970         | 1971         | 1972             | 1973             | 1974            | 1975            | 1976             | 1977             | 1978             | 1979             |
|---|--------------|--------------|------------------|------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| <b>Total</b> .....                      | <b>1,469</b> | <b>2,085</b> | <b>2,379</b>     | <b>2,057</b>     | <b>1,352</b>    | <b>1,171</b>    | <b>1,548</b>     | <b>1,990</b>     | <b>2,023</b>     | <b>1,749</b>     |
| Northeast <sup>1</sup> .....            | 224          | 271          | 334              | 278              | 183             | 150             | 170              | 202              | 201              | 178              |
| North Central <sup>1</sup> .....        | 301          | 440          | 445              | 442              | 320             | 295             | 401              | 465              | 451              | 350              |
| South <sup>1</sup> .....                | 629          | 884          | 1,068            | 906              | 561             | 448             | 575              | 784              | 824              | 748              |
| West <sup>1</sup> .....                 | 315          | 490          | 532              | 431              | 288             | 278             | 402              | 539              | 547              | 473              |
| Units inside SMSA's <sup>2</sup> .....  | 1,034        | 1,519        | 1,733            | 1,502            | 932             | 767             | 1,048            | 1,378            | 1,433            | 1,242            |
| Units outside SMSA's <sup>2</sup> ..... | 435          | 566          | 646              | 556              | 420             | 405             | 499              | 612              | 590              | 507              |
| Publicly owned .....                    | 35           | 32           | 22               | 12               | 15              | 11              | 10               | 3                | 3                | 4                |
| Privately owned .....                   | 1,434        | 2,052        | 2,357            | 2,045            | 1,338           | 1,160           | 1,538            | 1,987            | 2,020            | 1,745            |
| With FHA aid .....                      | 421          | 528          | <sup>3</sup> 371 | <sup>3</sup> 163 | <sup>3</sup> 95 | <sup>3</sup> 98 | <sup>3</sup> 144 | <sup>3</sup> 178 | <sup>3</sup> 178 | <sup>3</sup> 178 |
| With VA aid .....                       | 61           | 94           | <sup>3</sup> 104 | <sup>3</sup> 66  | <sup>3</sup> 73 | <sup>3</sup> 77 | <sup>3</sup> 100 | <sup>3</sup> 131 | <sup>3</sup> 127 | <sup>3</sup> 122 |
| In structures with:                     |              |              |                  |                  |                 |                 |                  |                  |                  |                  |
| 1 unit.....                             | 815          | 1,153        | 1,311            | 1,133            | 899             | 896             | 1,166            | 1,452            | 1,436            | 1,196            |
| 2-4 units.....                          | 96           | 133          | 151              | 124              | 77              | 68              | 89               | 122              | 125              | 123              |
| 5 units or more.....                    | 558          | 799          | 917              | 800              | 367             | 208             | 292              | 415              | 463              | 430              |

<sup>1</sup> For composition of regions, see fig. 1, inside front cover. <sup>2</sup> For definition of standard metropolitan statistical area (SMSA), see text, Appendix II. 1970-1975 based on 1967 definitions as amended through 1974; thereafter, on 1974 definitions as amended through 1975. <sup>3</sup> Source: U.S. Dept. of Housing and Urban Development, *HUD Statistical Yearbook*.Source: Except as noted, U.S. Bureau of the Census, *Construction Reports*, series C20, and unpublished data. Includes data from U.S. Federal Housing Administration and U.S. Veterans Administration.

## NO. 1398. NEW MOBILE HOMES PLACED FOR RESIDENTIAL USE AND AVERAGE SALES PRICE, BY REGION: 1974 TO 1979

[A mobile home is a moveable dwelling, 10 feet or more wide and 35 feet or more long, designed to be towed on its own chassis and without need of a permanent foundation. Excluded are travel trailers, motor homes, and modular housing. Based on a probability sample and subject to sampling variability; see source. For composition of regions, see fig. 1, inside front cover]

| REGION             | UNITS (1,000) |              |              |              |              |              | AVERAGE SALES PRICE (\$1,000) |             |             |             |             |             |
|--------------------|---------------|--------------|--------------|--------------|--------------|--------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|
|                    | 1974          | 1975         | 1976         | 1977         | 1978         | 1979         | 1974                          | 1975        | 1976        | 1977        | 1978        | 1979        |
| <b>U.S.</b> .....  | <b>332.0</b>  | <b>229.3</b> | <b>249.6</b> | <b>257.5</b> | <b>279.9</b> | <b>279.9</b> | <b>9.3</b>                    | <b>10.6</b> | <b>12.3</b> | <b>14.2</b> | <b>15.9</b> | <b>17.6</b> |
| Northeast.....     | 23.3          | 14.7         | 16.8         | 16.7         | 17.4         | 16.9         | 9.4                           | 10.5        | 11.6        | 12.9        | 14.3        | 15.8        |
| North Central..... | 67.5          | 48.5         | 51.5         | 50.7         | 49.5         | 47.3         | 8.3                           | 10.7        | 11.6        | 13.5        | 15.1        | 16.1        |
| South.....         | 170.8         | 110.8        | 114.8        | 112.5        | 135.3        | 145.2        | 8.3                           | 9.0         | 10.6        | 12.1        | 13.7        | 15.6        |
| West.....          | 70.4          | 55.2         | 66.5         | 77.7         | 77.7         | 70.5         | 11.6                          | 13.6        | 16.0        | 18.1        | 20.6        | 23.1        |

Source: U.S. Bureau of the Census, *Construction Reports*, series C20.

## NO. 1399. PRIVATE HOUSING STARTS, BY REGION, AND MOBILE HOMES: 1970 TO 1979

[In thousands of units, except percent. For composition of regions, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series N 157 and N 170]

| ITEM   | 1970         | 1971         | 1972         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978         | 1979         |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Private housing starts <sup>1</sup></b>                     | <b>1,434</b> | <b>2,052</b> | <b>2,357</b> | <b>2,045</b> | <b>1,338</b> | <b>1,160</b> | <b>1,538</b> | <b>1,987</b> | <b>2,020</b> | <b>1,745</b> |
| Single family .....  | 813          | 1,151        | 1,309        | 1,132        | 888          | 892          | 1,162        | 1,451        | 1,433        | 1,194        |
| Condominiums <sup>2</sup> .....                                | (NA)         | (NA)         | (NA)         | 69           | 46           | 20           | 30           | 41           | 42           | 43           |
| Northeast .....  | 113          | 145          | 170          | 155          | 119          | 112          | 127          | 156          | 147          | 123          |
| North Central .....  | 166          | 238          | 256          | 269          | 225          | 222          | 294          | 337          | 325          | 243          |
| South .....  | 377          | 526          | 612          | 478          | 367          | 366          | 464          | 588          | 604          | 522          |
| West .....   | 157          | 242          | 272          | 230          | 176          | 192          | 277          | 370          | 358          | 306          |
| Multifamily .....  | 621          | 901          | 1,047        | 919          | 450          | 268          | 375          | 536          | 587          | 551          |
| Percent of total .....   | 43.3         | 43.9         | 44.4         | 44.6         | 33.6         | 33.0         | 24.4         | 27.0         | 29.1         | 31.8         |
| Condominiums <sup>2</sup> .....                                | (NA)         | (NA)         | (NA)         | 172          | 130          | 45           | 64           | 77           | 113          | 156          |
| Northeast .....  | 105          | 119          | 159          | 122          | 64           | 37           | 43           | 46           | 53           | 55           |
| North Central .....  | 128          | 196          | 187          | 171          | 92           | 72           | 106          | 128          | 126          | 106          |
| South .....  | 235          | 343          | 445          | 421          | 186          | 76           | 104          | 195          | 220          | 225          |
| West .....   | 154          | 244          | 255          | 199          | 108          | 83           | 122          | 168          | 168          | 165          |
| <b>MOBILE HOMES <sup>3</sup></b>                               |              |              |              |              |              |              |              |              |              |              |
| Shipments to dealers .....                                     | 401          | 497          | 576          | 567          | 329          | 213          | 246          | 277          | 276          | 277          |
| Percent of total private starts and mobile homes .....         | 21.9         | 19.5         | 19.6         | 21.7         | 19.7         | 15.5         | 13.8         | 12.2         | 12.0         | 13.7         |
| Percent of single-family private starts and mobile homes ..... | 33.0         | 30.1         | 30.5         | 33.4         | 27.0         | 19.3         | 17.5         | 16.0         | 16.1         | 18.8         |

NA Not available. <sup>1</sup> Includes farm housing. <sup>2</sup> Type of ownership under which the owners of the individual housing units are also joint owners of the common areas of the building or community. Includes a small number of cooperatively owned units. <sup>3</sup> A mobile home is a vehicular portable structure built on a chassis and designed to be used without a permanent foundation as a year-round dwelling when connected to utilities. The homes are defined as units more than 8 feet wide or 32 feet in length.

Source: U.S. Bureau of the Census, *Construction Reports*, series C20. Mobile home shipments data provided by Manufactured Housing Institute, Arlington, Va., through 1977; for 1978 and 1979, by the National Conference of States and Building Codes and Standards.

## NO. 1400. PERCENT OF NEW PRIVATELY OWNED COMPLETED ONE-FAMILY HOUSES WITH VARIOUS CHARACTERISTICS: 1970 TO 1979

[Percent distribution, except total houses. Data beginning 1975 show percent distribution of characteristics for all houses completed (includes new houses completed, houses built for sale completed, contractor-built and owner-built houses completed, and houses completed for rent). Data for 1970 cover contractor-built, owner-built, and houses for rent for year construction started and houses sold for year of sale. Percents exclude houses for which characteristics specified were not reported. See also headnote, table 1424]

| CHARACTERISTIC                    | 1970       | 1975       | 1977       | 1978       | 1979       | CHARACTERISTIC                     | 1970       | 1975       | 1977       | 1978       | 1979       |
|-----------------------------------|------------|------------|------------|------------|------------|------------------------------------|------------|------------|------------|------------|------------|
| Total houses (1,000) .....        | 793        | 875        | 1,258      | 1,369      | 1,301      | Bathrooms .....                    | 100        | 100        | 100        | 100        | 100        |
| <b>Financing</b> .....            | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | 1 or less .....                    | 32         | 24         | 17         | 15         | 16         |
| Mortgage .....                    | 84         | 82         | 86         | 86         | 84         | 1½ .....                           | 20         | 17         | 13         | 11         | 11         |
| FHA-insured .....                 | 30         | 9          | 7          | 8          | 11         | 2 .....                            | 32         | 40         | 47         | 48         | 48         |
| VA-guaranteed .....               | 7          | 8          | 8          | 7          | 7          | 2½ or more .....                   | 16         | 20         | 23         | 25         | 26         |
| Conventional .....                |            | 58         | 68         | 69         | 63         | <b>Foundation</b> .....            | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> |
| Farmers' Home .....               | 47         |            |            |            |            | Full or partial base-              |            |            |            |            |            |
| Admin .....                       |            | 7          | 4          | 3          | 3          | ment .....                         | 37         | 45         | 44         | 42         | 42         |
| Cash or equivalent .....          | 16         | 18         | 14         | 13         | 15         | Slab .....                         | 36         | 35         | 38         | 40         | 39         |
| <b>Floor area (sq. ft.)</b> ..... | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | Crawl space .....                  | 27         | 20         | 18         | 18         | 19         |
| Under 1,200 .....                 | 36         | 25         | 20         | 18         | 19         | <b>Heating fuel</b> .....          | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> |
| 1,200-1,599 .....                 | 28         | 28         | 30         | 28         | 28         | Electricity .....                  | 28         | 49         | 50         | 52         | 51         |
| 1,600-1,999 .....                 | 16         |            | 34         | 38         | 24         | Gas .....                          | 62         | 40         | 38         | 37         | 39         |
| 2,000-2,399 .....                 |            |            |            |            | 16         | Oil .....                          | 8          | 9          | 9          | 8          | 7          |
| 2,400 and over .....              | 21         | 11         | 13         | 14         | 15         | Other .....                        | 1          | 2          | 2          | 3          | 3          |
| <b>Number of stories</b> .....    | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>Central air-condition</b> ..... | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> |
| 1 .....                           | 74         | 65         | 63         | 61         | 59         | With .....                         | 34         | 46         | 54         | 58         | 60         |
| 2 or more .....                   | 17         | 23         | 26         | 28         | 31         | Without .....                      | 66         | 54         | 46         | 42         | 40         |
| Split level .....                 | 10         | 12         | 11         | 11         | 11         | <b>Parking facilities</b> .....    | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> |
| <b>Bedrooms</b> .....             | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> | Garage .....                       | 58         | 67         | 73         | 74         | 73         |
| 2 or less .....                   | 13         | 14         | 11         | 12         | 14         | Carport .....                      | 17         | 9          | 7          | 7          | 7          |
| 3 .....                           | 63         | 65         | 66         | 64         | 64         | No garage or carport .....         | 25         | 24         | 19         | 18         | 20         |
| 4 or more .....                   | 24         | 21         | 23         | 24         | 23         |                                    |            |            |            |            |            |

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing* (a joint publication).

## NO. 1401. GROSS HOUSING PRODUCT—SUMMARY: 1960 TO 1978

[In billions of dollars. For definition of current and constant dollars, see text, p. 437]

| ITEM  | 1960 | 1965 | 1970 | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  |
|---|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| CURRENT DOLLARS                                       |      |      |      |       |       |       |       |       |       |       |
| Total value of housing output <sup>1</sup> .....      | 46.7 | 63.3 | 90.3 | 108.2 | 118.6 | 131.6 | 144.7 | 159.9 | 180.5 | 204.4 |
| Percent of GNP <sup>2</sup> .....                     | 9.2  | 9.2  | 9.2  | 9.2   | 9.1   | 9.3   | 9.5   | 9.4   | 9.6   | 9.7   |
| Nonfarm housing.....                                  | 44.6 | 60.8 | 87.3 | 104.8 | 114.7 | 126.9 | 139.2 | 153.9 | 173.4 | 196.7 |
| Owner-occupied.....                                   | 31.3 | 42.7 | 61.3 | 74.0  | 81.3  | 90.5  | 100.1 | 110.9 | 125.7 | 142.9 |
| Tenant-occupied.....                                  | 13.3 | 18.2 | 26.0 | 30.8  | 33.4  | 36.3  | 39.1  | 43.0  | 47.7  | 53.7  |
| Farm housing.....                                     | 2.1  | 2.5  | 3.0  | 3.5   | 3.9   | 4.7   | 5.4   | 6.0   | 7.2   | 7.7   |
| Less: Intermediate goods and services consumed.....   | 7.8  | 8.8  | 12.2 | 16.0  | 17.8  | 19.6  | 21.3  | 24.7  | 28.5  | 31.8  |
| Equals: Gross housing product.....                    | 38.9 | 54.5 | 78.1 | 92.2  | 100.9 | 112.0 | 123.4 | 135.2 | 154.0 | 172.6 |
| CONSTANT (1972) DOLLARS                               |      |      |      |       |       |       |       |       |       |       |
| Total value of housing output <sup>1</sup> .....      | 61.9 | 78.7 | 98.1 | 108.2 | 113.3 | 119.1 | 124.0 | 129.8 | 137.6 | 145.7 |
| Nonfarm housing.....                                  | 57.9 | 74.8 | 94.5 | 104.8 | 110.0 | 115.8 | 120.8 | 126.7 | 134.7 | 142.9 |
| Owner-occupied.....                                   | 40.6 | 52.5 | 66.3 | 74.0  | 78.0  | 82.6  | 86.9  | 91.3  | 97.6  | 103.8 |
| Tenant-occupied.....                                  | 17.2 | 22.3 | 28.1 | 30.8  | 32.0  | 33.2  | 33.9  | 35.4  | 37.1  | 39.1  |
| Farm housing.....                                     | 4.1  | 3.9  | 3.7  | 3.5   | 3.3   | 3.3   | 3.2   | 3.1   | 2.9   | 2.8   |
| * Less: Intermediate goods and services consumed..... | 10.3 | 11.0 | 13.3 | 16.0  | 17.0  | 17.8  | 18.3  | 20.1  | 20.3  | 22.8  |
| Equals: Gross housing product.....                    | 51.7 | 67.7 | 84.9 | 92.2  | 96.3  | 101.3 | 105.8 | 109.6 | 117.3 | 122.9 |

<sup>1</sup> Equals personal consumption expenditures (see text, pages 779 and 780) for housing less expenditures for transient hotels, motels, clubs, schools, and institutions. <sup>2</sup> GNP-Gross national product.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-74*, and *Survey of Current Business*, July issues.

## NO. 1402. RESIDENTIAL CAPITAL—STOCKS AND AVERAGE AGE: 1960 TO 1979

[As of Dec. 31. Data based on fixed residential capital formation components of the gross national product; see text, p. 435. For nonresidential business capital, see table 936. See *Historical Statistics, Colonial Times to 1970*, series F 528-534 and N 200-223 for related data]

| ITEM   | 1960 | 1965  | 1970  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979  |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CAPITAL IN CURRENT DOLLARS (bil. dol.)         |      |       |       |       |       |       |       |       |       |       |
| Gross stocks <sup>1</sup> .....                | 717  | 847   | 1,233 | 1,655 | 1,862 | 2,044 | 2,290 | 2,649 | 3,071 | 3,519 |
| Private nonfarm: 1-4 units.....                | 588  | 682   | 971   | 1,274 | 1,425 | 1,565 | 1,759 | 2,043 | 2,376 | 2,725 |
| 5 or more units.....                           | 48   | 72    | 127   | 200   | 232   | 254   | 283   | 327   | 378   | 435   |
| Farm (1-4 units).....                          | 44   | 43    | 54    | 64    | 70    | 75    | 81    | 91    | 103   | 114   |
| Private nonhousekeeping.....                   | 14   | 20    | 30    | 42    | 47    | 52    | 57    | 64    | 73    | 83    |
| Mobile homes.....                              | 5    | 7     | 17    | 29    | 35    | 40    | 45    | 52    | 59    | 68    |
| Public: Federal, State and local.....          | 13   | 17    | 27    | 37    | 42    | 45    | 50    | 58    | 66    | 75    |
| Net stocks <sup>1 2</sup> .....                | 450  | 546   | 797   | 1,085 | 1,216 | 1,328 | 1,483 | 1,717 | 1,991 | 2,278 |
| Private nonfarm: 1-4 units.....                | 380  | 445   | 629   | 827   | 922   | 1,009 | 1,134 | 1,321 | 1,541 | 1,766 |
| 5 or more units.....                           | 28   | 48    | 91    | 150   | 174   | 189   | 208   | 238   | 274   | 314   |
| Farm (1-4 units).....                          | 20   | 19    | 23    | 26    | 28    | 30    | 33    | 37    | 42    | 47    |
| Private nonhousekeeping.....                   | 7    | 12    | 20    | 28    | 32    | 34    | 37    | 41    | 46    | 51    |
| Mobile homes.....                              | 3    | 5     | 11    | 20    | 24    | 26    | 28    | 31    | 35    | 40    |
| Public: Federal, State and local.....          | 10   | 13    | 20    | 27    | 30    | 33    | 36    | 40    | 46    | 51    |
| CAPITAL IN CONSTANT (1972) DOLLARS (bil. dol.) |      |       |       |       |       |       |       |       |       |       |
| Gross stocks <sup>1</sup> .....                | 956  | 1,120 | 1,277 | 1,419 | 1,451 | 1,477 | 1,510 | 1,552 | 1,596 | 1,636 |
| Private nonfarm: 1-4 units.....                | 787  | 904   | 1,007 | 1,090 | 1,109 | 1,129 | 1,157 | 1,192 | 1,228 | 1,259 |
| 5 or more units.....                           | 65   | 96    | 132   | 172   | 180   | 183   | 186   | 191   | 195   | 201   |
| Public: Federal, State and local.....          | 17   | 22    | 28    | 31    | 32    | 33    | 34    | 34    | 34    | 35    |
| Farm (1-4 units).....                          | 59   | 58    | 56    | 55    | 54    | 54    | 54    | 53    | 53    | 53    |
| Private nonhousekeeping.....                   | 19   | 26    | 31    | 36    | 37    | 37    | 37    | 38    | 38    | 38    |
| Mobile homes.....                              | 5    | 8     | 16    | 26    | 29    | 30    | 32    | 34    | 36    | 38    |
| Net stocks <sup>1 2</sup> .....                | 601  | 721   | 826   | 930   | 948   | 959   | 978   | 1,006 | 1,034 | 1,058 |
| Private nonfarm: 1-4 units.....                | 509  | 580   | 652   | 708   | 717   | 728   | 746   | 771   | 796   | 816   |
| 5 or more units.....                           | 37   | 64    | 94    | 129   | 135   | 136   | 137   | 139   | 142   | 145   |
| Farm (1-4 units).....                          | 26   | 25    | 24    | 23    | 22    | 22    | 22    | 22    | 22    | 22    |
| Private nonhousekeeping.....                   | 10   | 16    | 21    | 24    | 25    | 25    | 24    | 24    | 24    | 24    |
| Mobile homes.....                              | 3    | 5     | 11    | 18    | 20    | 20    | 20    | 21    | 21    | 22    |
| Public: Federal, State and local.....          | 14   | 18    | 21    | 23    | 24    | 24    | 23    | 24    | 24    | 24    |
| AVERAGE AGE <sup>3</sup> (years)               |      |       |       |       |       |       |       |       |       |       |
| Gross stocks.....                              | 27.9 | 26.4  | 25.8  | 24.8  | 24.9  | 25.0  | 25.1  | 24.9  | 24.8  | 24.8  |
| Private nonfarm: 1-4 units.....                | 27.5 | 26.7  | 26.8  | 26.4  | 26.6  | 26.7  | 26.6  | 26.4  | 26.2  | 26.2  |
| 5 or more units.....                           | 27.9 | 21.4  | 18.4  | 16.0  | 16.0  | 16.4  | 16.9  | 17.2  | 17.5  | 17.7  |
| Farm (1-4 units).....                          | 45.0 | 45.5  | 45.9  | 46.2  | 46.4  | 46.4  | 46.4  | 46.2  | 46.1  | 45.9  |
| Private nonhousekeeping.....                   | 21.2 | 16.0  | 14.3  | 13.6  | 13.6  | 13.9  | 14.3  | 14.8  | 15.2  | 15.5  |
| Mobile homes.....                              | 5.4  | 6.1   | 5.4   | 4.9   | 5.1   | 5.6   | 6.0   | 6.3   | 6.6   | 6.8   |
| Federal.....                                   | 14.7 | 16.0  | 19.7  | 20.1  | 20.4  | 21.1  | 21.8  | 22.5  | 23.2  | 24.0  |
| State and local.....                           | 9.8  | 11.7  | 13.1  | 14.4  | 15.0  | 15.7  | 16.5  | 17.1  | 17.7  | 18.3  |

<sup>1</sup> Includes other, not shown separately. <sup>2</sup> Represents net value of structures at preceding year end plus net investment based on straight-line depreciation for year shown. <sup>3</sup> Constant-dollar stocks.

Source: U.S. Bureau of Economic Analysis, *Fixed Nonresidential Business and Residential Capital in the United States, 1925-75*, and unpublished data.



## NO. 1403. ESTIMATES OF THE HOUSING INVENTORY AND CHANGE: 1970 TO 1978

(Minus sign (-) denotes decrease. For explanation of percent change, see Guide to Tabular Presentation)

| TENURE, RACE, AND<br>VACANCY STATUS   | TOTAL UNITS,<br>1970 |              | TOTAL UNITS,<br>1978 |              | Percent<br>average<br>annual<br>change,<br>1970-<br>1978 | NEW UNITS<br>CONSTRUCTED,<br>1970-1978 <sup>1</sup> |              | UNITS REMOVED,<br>1973-1978 <sup>2</sup> |              |
|---------------------------------------|----------------------|--------------|----------------------|--------------|--|---|--------------|--|--------------|
|                                       | Number<br>(1,000)    | Per-<br>cent | Number<br>(1,000)    | Per-<br>cent |  | Number<br>(1,000)                                   | Per-<br>cent | Number<br>(1,000)                        | Per-<br>cent |
|                                       |                      |              |                      |              |  |   |              |  |              |
| All housing units .....               | 68,672               | 100.0        | 84,618               | 100.0        | 2.6  | 16,532  | 100.0        | 3,781                                    | 100.0        |
| All year-round units.....             | 67,699               | 98.6         | 82,833               | 97.9         | 2.6  | 16,357  | 98.9         | 3,746                                    | 99.1         |
| Occupied units.....                   | 63,445               | 92.4         | 77,167               | 91.2         | 2.5  | 15,192  | 91.9         | 3,084                                    | 81.6         |
| Owner occupied <sup>3</sup> .....     | 39,886               | 58.1         | 50,283               | 59.4         | 2.9  | 10,576  | 64.0         | 1,280                                    | 33.9         |
| White.....                            | 37,005               | 53.9         | 46,076               | 54.5         | 2.8  | 9,870   | 59.7         | 1,141                                    | 30.2         |
| Black.....                            | 2,568                | 3.7          | 3,583                | 4.2          | 4.3  | 518   | 3.1          | 129                                      | 3.4          |
| Renter occupied <sup>3</sup> .....    | 23,560               | 34.3         | 26,884               | 31.8         | 1.7  | 4,616   | 27.9         | 1,805                                    | 47.7         |
| White.....                            | 19,601               | 28.5         | 21,588               | 25.5         | 1.2  | 3,980   | 24.1         | 1,303                                    | 34.5         |
| Black.....                            | 3,607                | 5.3          | 4,597                | 5.4          | 3.1  | 534   | 3.2          | 467                                      | 12.4         |
| Vacant year-round.....                | 4,254                | 6.2          | 5,667                | 6.7          | 3.7  | 1,165   | 7.0          | 662                                      | 17.5         |
| For sale only.....                    | 501                  | .7           | 624                  | .7           | 2.8  | 205   | 1.2          | 44                                       | 1.2          |
| For rent.....                         | 1,666                | 2.4          | 1,545                | 1.8          | .9   | 321   | 1.9          | 212                                      | 5.6          |
| Other vacant.....                     | 2,087                | 3.0          | 3,498                | 4.1          | 6.7  | 638   | 3.9          | 406                                      | 10.7         |
| Vacant or seasonal <sup>4</sup> ..... | 973                  | 1.4          | 1,785                | 2.1          | 7.9  | 174   | 1.1          | 34                                       | .9           |

<sup>1</sup> Apr. 1, 1970, to Oct. 31, 1978. <sup>2</sup> Removed between Oct. 1973 and Oct. 31, 1978, by demolition, disaster, or other means. <sup>3</sup> Includes races not shown separately. <sup>4</sup> Includes migratory.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-78, Annual Housing Survey: 1978, part A, *General Housing Characteristics for the United States and Regions*.

## NO. 1404. HOUSING UNITS—SUMMARY OF CHARACTERISTICS: 1960 TO 1978

(In thousands, except as indicated. Refers to 243 standard metropolitan statistical areas (SMSA's) as defined in 1970 census reports. For definition of SMSA, see text, Appendix II. For information on methodology, see Appendix III. For definition of median, see Guide to Tabular Presentation)

| CHARACTERISTIC                      | 1960          | 1970          |               |                   |                | 1978          |               |                   |                |
|-------------------------------------|---------------|---------------|---------------|-------------------|----------------|---------------|---------------|-------------------|----------------|
|                                     |               | Total         | Inside SMSA's |                   | Outside SMSA's | Total         | Inside SMSA's |                   | Outside SMSA's |
|                                     |               |               | Total         | In central cities |                |               | Total         | In central cities |                |
| <b>All housing units</b> .....      | <b>58,326</b> | <b>68,672</b> | <b>46,289</b> | <b>22,608</b>     | <b>22,383</b>  | <b>84,618</b> | <b>56,384</b> | <b>25,213</b>     | <b>28,235</b>  |
| All year-round units.....           | 56,584        | 67,699        | 46,083        | 22,584            | 21,616         | 82,833        | 56,049        | 25,182            | 26,785         |
| Occupied units.....                 | 53,024        | 63,445        | 43,859        | 21,395            | 19,586         | 77,167        | 52,722        | 23,436            | 24,445         |
| Owner occupied.....                 | 32,797        | 39,886        | 26,090        | 10,300            | 13,796         | 50,283        | 32,390        | 11,830            | 17,892         |
| Percent of all occupied.....        | 61.9          | 62.9          | 59.5          | 48.1              | 70.4           | 65.2          | 61.4          | 49.8              | 73.2           |
| Renter occupied.....                | 20,227        | 23,560        | 17,769        | 11,095            | 5,790          | 26,884        | 20,332        | 11,806            | 6,552          |
| Vacant year-round.....              | 3,560         | 4,254         | 2,224         | 1,189             | 2,030          | 5,667         | 3,326         | 1,746             | 2,340          |
| For sale only.....                  | 522           | 501           | 298           | 130               | 203            | 624           | 369           | 172               | 255            |
| Homeowner vacancy rate.....         | 1.6           | 1.2           | 1.1           | 1.2               | 1.5            | 1.2           | 1.1           | 1.4               | 1.4            |
| For rent.....                       | 1,453         | 1,666         | 1,142         | 745               | 524            | 1,545         | 1,143         | 755               | 401            |
| Rental vacancy rate.....            | 6.7           | 6.6           | 6.0           | 6.3               | 8.3            | 5.4           | 5.3           | 6.0               | 5.7            |
| Other vacant.....                   | 1,084         | 2,087         | 784           | 314               | 1,303          | 3,498         | 1,814         | 820               | 1,684          |
| Vacant, seasonal and migratory..... | 1,742         | 973           | 206           | 24                | 766            | 1,785         | 335           | 31                | 1,450          |
| Urban.....                          | 40,764        | 50,145        | (NA)          | (NA)              | (NA)           | (NA)          | (NA)          | (NA)              | (NA)           |
| Rural.....                          | 17,562        | 18,527        | (NA)          | (NA)              | (NA)           | (NA)          | (NA)          | (NA)              | (NA)           |
| Cooperatives and condominiums:      |               |               |               |                   |                |               |               |                   |                |
| Owner occupied.....                 | (NA)          | (NA)          | (NA)          | (NA)              | (NA)           | 1,213         | 1,118         | 465               | 95             |
| Cooperatives.....                   | (NA)          | (NA)          | (NA)          | (NA)              | (NA)           | 348           | 318           | 219               | 31             |
| Condominiums.....                   | (NA)          | (NA)          | (NA)          | (NA)              | (NA)           | 865           | 800           | 245               | 65             |
| Vacant for sale only.....           | (NA)          | (NA)          | (NA)          | (NA)              | (NA)           | 51            | 41            | 17                | 10             |
| Units in structure <sup>1</sup> —   |               |               |               |                   |                |               |               |                   |                |
| 1-unit.....                         | 43,758        | 46,791        | 29,033        | 11,430            | 17,758         | 55,523        | 34,366        | 12,395            | 21,157         |
| Percent of total units.....         | 77.3          | 69.1          | 63.0          | 50.6              | 82.2           | 67.0          | 61.3          | 49.2              | 79.0           |
| 2-4 units.....                      | 7,552         | 9,007         | 7,164         | 4,753             | 1,823          | 10,754        | 8,570         | 5,339             | 2,185          |
| 5 or more units.....                | 6,238         | 9,829         | 8,934         | 6,225             | 895            | 12,865        | 11,558        | 7,233             | 1,327          |
| Mobile home or trailer.....         | 767           | 2,073         | 933           | 176               | 1,140          | 3,671         | 1,555         | 215               | 2,117          |
| Year structure built: <sup>1</sup>  |               |               |               |                   |                |               |               |                   |                |
| April 1970 or later.....            | (X)           | (X)           | (X)           | (X)               | (X)            | 16,357        | 10,559        | 3,228             | 5,798          |
| 1960-March 1970.....                | (X)           | 16,956        | 11,849        | 4,172             | 5,106          | 17,497        | 12,264        | 4,406             | 5,233          |
| 1950-1959.....                      | 16,046        | 14,499        | 10,708        | 4,304             | 3,791          | 13,845        | 10,093        | 3,926             | 3,793          |
| 1940-1949.....                      | 8,640         | 8,786         | 6,147         | 1,108             | 2,639          | 8,007         | 5,484         | 2,712             | 2,523          |
| 1939 or earlier.....                | 33,632        | 27,458        | 17,378        | (NA)              | 10,080         | 27,127        | 17,649        | 10,910            | 9,478          |
| Percent built prior to 1940.....    | 57.7          | 40.6          | 37.7          | (NA)              | 46.6           | 32.7          | 31.5          | 43.3              | 35.4           |

See footnotes at end of table.

## NO. 1404. HOUSING UNITS—SUMMARY OF CHARACTERISTICS: 1960 TO 1978—Continued

[In thousands, except as indicated. See headnote, p. 790]

| CHARACTERISTIC   | 1960   | 1970   |               |                   |                | 1978              |                   |                   |                   |
|--|--------|--------|---------------|-------------------|----------------|-------------------|-------------------|-------------------|-------------------|
|  |        | Total  | Inside SMSA's |                   | Outside SMSA's | Total             | Inside SMSA's     |                   | Outside SMSA's    |
|  |        |        | Total         | In central cities |                |                   | Total             | In central cities |                   |
| Units with <sup>1</sup> —  |        |        |               |                   |                |                   |                   |                   |                   |
| 1-3 rooms.....   | 11,400 | 11,028 | 8,305         | 5,461             | 2,725          | 12,791            | 9,732             | 6,097             | 3,058             |
| 4 rooms.....   | 12,435 | 14,113 | 9,230         | 4,904             | 4,883          | 16,564            | 11,081            | 5,278             | 5,482             |
| 5 rooms.....   | 14,323 | 16,998 | 11,233        | 5,286             | 5,765          | 19,668            | 12,623            | 5,544             | 7,045             |
| 6 rooms.....   | 11,141 | 13,609 | 9,271         | 4,078             | 4,338          | 16,628            | 11,054            | 4,633             | 5,574             |
| 7 or more rooms.....   | 9,020  | 11,950 | 8,044         | 2,856             | 3,906          | 17,184            | 11,558            | 3,629             | 5,625             |
| Median number of rooms.....                                      | 4.9    | 5.0    | 5.0           | 4.7               | 5.1            | 5.1               | 5.1               | 4.7               | 5.2               |
| Persons per unit (median):                                       |        |        |               |                   |                |                   |                   |                   |                   |
| Owner occupied.....  | 3.1    | 3.0    | 3.1           | 2.8               | 2.7            | 2.7               | 2.7               | 2.5               | 2.5               |
| Renter occupied.....   | 2.6    | 2.3    | 2.2           | 2.1               | 2.6            | 2.0               | 2.0               | 1.9               | 2.1               |
| Units lacking some or all plumbing facilities <sup>1</sup> ..... | 7,699  | 4,398  | 1,494         | 716               | 2,904          | 2,503             | 909               | 468               | 1,594             |
| Percent.....   | 13.2   | 6.5    | 3.2           | 3.2               | 13.4           | 3.0               | 1.6               | 1.9               | 6.0               |
| Percent of units with—   |        |        |               |                   |                |                   |                   |                   |                   |
| Telephone <sup>2</sup> .....                                     | 78.5   | 87.0   | 89.1          | 86.5              | 82.2           | 91.0              | 92.2              | 89.3              | 88.6              |
| Air conditioning <sup>1</sup> .....                              | 12.4   | 36.7   | 39.7          | 38.2              | 30.0           | 53.5              | 55.1              | 51.0              | 50.2              |
| Central system <sup>1</sup> .....                                | 1.9    | 10.7   | 12.3          | 11.0              | 7.5            | 24.0              | 25.5              | 20.9              | 20.6              |
| One or more automobiles <sup>3</sup> .....                       | 78.4   | 82.5   | 81.4          | 71.6              | 85.0           | <sup>a</sup> 84.0 | <sup>a</sup> 83.0 | <sup>a</sup> 73.4 | <sup>a</sup> 86.1 |
| Public sewer <sup>1</sup> .....                                  | (NA)   | 70.2   | 82.1          | 98.2              | 47.9           | 73.4              | 84.7              | 97.5              | 49.7              |
| Public or pvt company water <sup>1</sup> .....                   | (NA)   | 81.7   | 91.0          | 99.0              | 61.7           | 83.9              | 92.0              | 99.2              | 66.8              |
| Basement <sup>1</sup> .....                                      | 54.0   | 50.9   | 55.5          | 58.3              | 41.1           | <sup>a</sup> 47.4 | <sup>a</sup> 51.5 | <sup>a</sup> 55.0 | <sup>a</sup> 38.9 |
| Second home owner <sup>2</sup> .....                             | (NA)   | 4.6    | 4.5           | 4.2               | 4.7            | <sup>a</sup> 4.1  | 4.1               | <sup>a</sup> 3.3  | <sup>a</sup> 4.1  |
| Percent of units with <sup>1</sup> —                             |        |        |               |                   |                |                   |                   |                   |                   |
| Storm windows or other protective covering <sup>5</sup> .....    | (NA)   | (NA)   | (NA)          | (NA)              | (NA)           | <sup>a</sup> 59.1 | <sup>a</sup> 57.7 | <sup>a</sup> 51.2 | <sup>a</sup> 61.4 |
| Storm doors <sup>5</sup> .....                                   | (NA)   | (NA)   | (NA)          | (NA)              | (NA)           | <sup>a</sup> 61.3 | <sup>a</sup> 60.3 | <sup>a</sup> 56.3 | <sup>a</sup> 62.9 |
| Attic or roof insulation.....                                    | (NA)   | (NA)   | (NA)          | (NA)              | (NA)           | <sup>a</sup> 77.3 | <sup>a</sup> 78.6 | <sup>a</sup> 71.6 | <sup>a</sup> 75.4 |

NA Not available. X Not applicable. <sup>1</sup> For 1960, all housing units, based on a complete count, but tabulated on a 20-percent sample basis. For 1970 and 1978, all year-round units. <sup>2</sup> Occupied housing units. <sup>3</sup> 1977 data. <sup>4</sup> Covers only occupied 1-family homes and mobile homes and trailers. <sup>5</sup> Some or all covered.

Source: U.S. Bureau of the Census, *U.S. Census of Housing: 1960*, vol. I, and *Current Housing Reports*, series H-150-78, Annual Housing Survey, part A, *General Housing Characteristics for the United States and Regions*.

## NO. 1405. HOUSING UNITS, BY GEOGRAPHIC REGIONS: 1960 TO 1978

[In thousands, except percent. See headnote, table 1404. For composition of regions, see fig. 1, inside front cover]

| YEAR AND LOCATION          | TOTAL         |               |               |               |               | PERCENT DISTRIBUTION |              |               |              |              |
|----------------------------|---------------|---------------|---------------|---------------|---------------|----------------------|--------------|---------------|--------------|--------------|
|                            | U.S.          | North-east    | North Central | South         | West          | U.S.                 | North-east   | North Central | South        | West         |
| <b>1960, total</b> .....   | <b>58,326</b> | <b>14,798</b> | <b>16,798</b> | <b>17,173</b> | <b>9,556</b>  | <b>100.0</b>         | <b>100.0</b> | <b>100.0</b>  | <b>100.0</b> | <b>100.0</b> |
| Inside SMSA's.....         | 38,633        | 11,834        | 10,514        | 9,052         | 7,233         | 66.2                 | 80.0         | 62.6          | 52.7         | 75.7         |
| Central cities.....        | 20,440        | 6,005         | 5,695         | 5,208         | 3,531         | 35.0                 | 40.6         | 33.9          | 30.3         | 36.9         |
| Not in central cities..... | 18,193        | 5,829         | 4,818         | 3,844         | 3,701         | 31.2                 | 39.4         | 28.7          | 22.4         | 38.7         |
| Outside SMSA's.....        | 19,693        | 2,964         | 6,284         | 8,121         | 2,325         | 33.8                 | 20.0         | 37.4          | 47.3         | 24.3         |
| <b>1970, total</b> .....   | <b>68,672</b> | <b>16,642</b> | <b>18,971</b> | <b>21,030</b> | <b>12,029</b> | <b>100.0</b>         | <b>100.0</b> | <b>100.0</b>  | <b>100.0</b> | <b>100.0</b> |
| Inside SMSA's.....         | 46,289        | 13,038        | 12,206        | 11,651        | 9,395         | 67.4                 | 78.3         | 64.3          | 55.4         | 78.1         |
| Central cities.....        | 22,608        | 6,212         | 5,978         | 6,166         | 4,252         | 32.9                 | 37.3         | 31.5          | 29.3         | 35.3         |
| Not in central cities..... | 23,681        | 6,824         | 6,228         | 5,486         | 5,143         | 34.5                 | 41.0         | 32.8          | 28.1         | 42.8         |
| Outside SMSA's.....        | 22,383        | 3,606         | 6,765         | 9,379         | 2,634         | 32.6                 | 21.7         | 35.7          | 44.6         | 21.9         |
| <b>1975, total</b> .....   | <b>79,087</b> | <b>18,053</b> | <b>21,035</b> | <b>25,364</b> | <b>14,635</b> | <b>100.0</b>         | <b>100.0</b> | <b>100.0</b>  | <b>100.0</b> | <b>100.0</b> |
| Inside SMSA's.....         | 53,031        | 13,873        | 13,503        | 14,221        | 11,434        | 67.1                 | 76.8         | 64.2          | 56.1         | 78.1         |
| Central cities.....        | 24,245        | 6,226         | 6,107         | 6,975         | 4,937         | 30.7                 | 34.5         | 29.0          | 27.5         | 33.7         |
| Not in central cities..... | 28,785        | 7,647         | 7,395         | 7,247         | 6,497         | 36.4                 | 42.4         | 35.2          | 28.6         | 44.4         |
| Outside SMSA's.....        | 26,057        | 4,180         | 7,532         | 11,143        | 3,201         | 32.9                 | 23.2         | 35.8          | 43.9         | 21.9         |
| <b>1978, total</b> .....   | <b>84,618</b> | <b>18,772</b> | <b>22,028</b> | <b>27,601</b> | <b>16,218</b> | <b>100.0</b>         | <b>100.0</b> | <b>100.0</b>  | <b>100.0</b> | <b>100.0</b> |
| Inside SMSA's.....         | 56,384        | 14,300        | 14,053        | 15,364        | 12,657        | 66.6                 | 76.2         | 63.8          | 55.7         | 78.0         |
| Central cities.....        | 25,213        | 6,345         | 6,187         | 7,359         | 5,322         | 29.8                 | 33.8         | 28.1          | 28.7         | 32.8         |
| Not in central cities..... | 31,171        | 7,954         | 7,876         | 8,006         | 7,335         | 36.8                 | 42.4         | 35.8          | 29.0         | 45.2         |
| Outside SMSA's.....        | 28,235        | 4,472         | 7,965         | 12,236        | 3,561         | 33.4                 | 23.8         | 36.2          | 44.3         | 22.0         |

Source: U.S. Bureau of the Census, *Census of Housing, 1960*, vol. I; and *Current Housing Reports*, series H-150-78, Annual Housing Survey, part A, *General Housing Characteristics for the United States and Regions*.

**NO. 1406. YEAR-ROUND HOUSING UNITS—TENURE AND RACE, (INSIDE AND OUTSIDE SMSA'S:  
1960 TO 1978**

(in thousands. See headnote, table 1404)

| ITEM                              | Total         | OWNER OCCUPIED |              |                 | RENTER OCCUPIED |              |                 | VACANT YEAR-ROUND |              |
|-----------------------------------|---------------|----------------|--------------|-----------------|-----------------|--------------|-----------------|-------------------|--------------|
|                                   |               | Total          | Black        | White and other | Total           | Black        | White and other | Total             | For rent     |
| <b>1960, total</b> .....          | <b>56,551</b> | <b>32,795</b>  | <b>1,811</b> | <b>30,984</b>   | <b>20,226</b>   | <b>2,979</b> | <b>17,246</b>   | <b>3,531</b>      | <b>1,592</b> |
| Lacking some or all plumbing..... | 8,992         | 3,470          | 644          | 2,826           | 4,315           | 1,363        | 2,952           | 1,208             | 469          |
| Inside SMSA's.....                | 37,939        | 21,311         | 1,186        | 20,125          | 14,556          | 2,182        | 12,374          | 2,072             | 1,088        |
| In central cities.....            | 20,147        | 9,141          | 852          | 8,289           | 9,942           | 1,862        | 8,080           | 1,064             | 720          |
| Outside central cities.....       | 17,792        | 12,170         | 334          | 11,836          | 4,614           | 320          | 4,295           | 1,008             | 368          |
| Outside SMSA's.....               | 18,612        | 11,484         | 625          | 10,858          | 5,670           | 797          | 4,872           | 1,459             | 504          |
| <b>1970, total</b> .....          | <b>67,899</b> | <b>39,886</b>  | <b>2,568</b> | <b>37,319</b>   | <b>23,560</b>   | <b>3,607</b> | <b>19,953</b>   | <b>4,254</b>      | <b>1,666</b> |
| Lacking some or all plumbing..... | 4,672         | 1,809          | 386          | 1,423           | 1,963           | 656          | 1,308           | 900               | 236          |
| Inside SMSA's.....                | 46,083        | 26,090         | 1,825        | 24,265          | 17,769          | 2,913        | 14,856          | 2,224             | 1,142        |
| In central cities.....            | 22,584        | 10,300         | 1,335        | 8,965           | 11,095          | 2,498        | 8,597           | 1,189             | 745          |
| Outside central cities.....       | 23,499        | 15,790         | 490          | 15,300          | 6,674           | 416          | 6,259           | 1,035             | 397          |
| Outside SMSA's.....               | 21,616        | 13,796         | 742          | 13,054          | 5,790           | 693          | 5,097           | 2,030             | 524          |
| <b>1978, total</b> .....          | <b>82,833</b> | <b>50,283</b>  | <b>3,583</b> | <b>46,700</b>   | <b>26,884</b>   | <b>4,597</b> | <b>22,287</b>   | <b>5,667</b>      | <b>1,545</b> |
| Lacking some or all plumbing..... | 2,503         | 718            | 181          | 537             | 1,073           | 391          | 682             | 712               | 127          |
| Inside SMSA's.....                | 56,049        | 32,390         | 2,547        | 29,843          | 20,332          | 3,829        | 16,503          | 3,326             | 1,143        |
| In central cities.....            | 25,182        | 11,630         | 1,789        | 9,841           | 11,806          | 3,055        | 8,751           | 1,746             | 755          |
| Outside central cities.....       | 30,867        | 20,760         | 757          | 20,003          | 8,526           | 775          | 7,751           | 1,580             | 388          |
| Outside SMSA's.....               | 26,785        | 17,892         | 1,036        | 16,856          | 6,552           | 767          | 5,785           | 2,340             | 401          |

Source: U.S. Bureau of the Census, *Census of Housing, 1970*, vol. VI and *Current Housing Reports*, series H-150, Annual Housing Survey: 1978, part A, *General Housing Characteristics for the United States and Regions*.

**NO. 1407. HOUSING UNITS—SELECTED CHARACTERISTICS, BY STATES: 1970**

| REGION AND STATE    | All year-round units (1,000) | Occu-<br>pied units (1,000) | PERCENT—       |                                |  | REGION AND STATE    | All year-round units (1,000) | Occu-<br>pied units (1,000) | PERCENT—       |                                |  |
|---------------------|------------------------------|-----------------------------|----------------|--------------------------------|--|---------------------|------------------------------|-----------------------------|----------------|--------------------------------|--|
|                     |                              |                             | Owner occupied | With all plumbing <sup>1</sup> | 1.01 or more persons per room <sup>2</sup> |                     |                              |                             | Owner occupied | With all plumbing <sup>1</sup> | 1.01 or more persons per room <sup>2</sup> |
| <b>U.S.</b> .....   | <b>67,657</b>                | <b>63,450</b>               | <b>62.9</b>    | <b>94.0</b>                    | <b>7.0</b>                                 | <b>S.A.—Con</b>     |                              |                             |                |                                |  |
| <b>N.E.</b> .....   | <b>3,844</b>                 | <b>3,645</b>                | <b>60.9</b>    | <b>96.0</b>                    | <b>5.8</b>                                 | Va.....             | 1,484                        | 1,391                       | 62.0           | 87.9                           | 5.2  |
| Maine.....          | 337                          | 303                         | 70.1           | 87.7                           | 5.7  | W. Va.....          | 592                          | 547                         | 58.9           | 83.7                           | 5.6  |
| N.H.....            | 247                          | 225                         | 68.2           | 94.6                           | 6.0  | N.C.....            | 1,518                        | 1,510                       | 65.4           | 85.6                           | 6.5  |
| Vt.....             | 149                          | 132                         | 69.1           | 94.1                           | 5.7  | S.C.....            | 805                          | 734                         | 66.1           | 82.6                           | 6.1  |
| Mass.....           | 1,836                        | 1,760                       | 57.5           | 96.7                           | 5.8  | Ga.....             | 1,466                        | 1,369                       | 61.1           | 87.7                           | 7.3  |
| R.I.....            | 306                          | 292                         | 57.9           | 97.2                           | 5.8  | Fla.....            | 2,489                        | 2,285                       | 68.6           | 95.1                           | 7.9  |
| Conn.....           | 968                          | 933                         | 62.5           | 97.5                           | 6.0  | <b>E.S.C.</b> ..... | <b>4,169</b>                 | <b>3,668</b>                | <b>66.7</b>    | <b>83.0</b>                    | <b>6.9</b>                                 |
| <b>M.A.</b> .....   | <b>12,331</b>                | <b>11,837</b>               | <b>56.6</b>    | <b>96.8</b>                    | <b>6.3</b>                                 | Ky.....             | 1,060                        | 984                         | 66.9           | 81.1                           | 6.5  |
| N.Y.....            | 6,152                        | 5,914                       | 47.3           | 97.2                           | 7.3  | Tenn.....           | 1,297                        | 1,213                       | 66.7           | 86.4                           | 6.7  |
| N.J.....            | 2,303                        | 2,218                       | 60.9           | 97.7                           | 5.9  | Ala.....            | 1,115                        | 1,034                       | 66.7           | 84.3                           | 6.7  |
| Pa.....             | 3,876                        | 3,705                       | 68.8           | 95.6                           | 5.1  | Miss.....           | 697                          | 637                         | 66.3           | 77.3                           | 7.9  |
| <b>E.N.C.</b> ..... | <b>13,108</b>                | <b>12,383</b>               | <b>67.5</b>    | <b>95.7</b>                    | <b>6.9</b>                                 | <b>W.S.C.</b> ..... | <b>6,565</b>                 | <b>5,952</b>                | <b>65.3</b>    | <b>91.8</b>                    | <b>9.0</b>                                 |
| Ohio.....           | 3,447                        | 3,289                       | 67.7           | 95.5                           | 6.0  | Ark.....            | 673                          | 615                         | 66.7           | 83.2                           | 5.8  |
| Ind.....            | 1,712                        | 1,609                       | 71.7           | 94.5                           | 7.3  | La.....             | 1,146                        | 1,052                       | 63.1           | 89.4                           | 11.3                                       |
| Ill.....            | 3,693                        | 3,502                       | 59.4           | 95.9                           | 7.4  | Okl.....            | 938                          | 851                         | 69.2           | 94.0                           | 6.2  |
| Mich.....           | 2,842                        | 2,653                       | 74.4           | 96.8                           | 7.3  | Tex.....            | 3,808                        | 3,432                       | 64.7           | 93.5                           | 9.4  |
| Wis.....            | 1,414                        | 1,329                       | 69.1           | 94.5                           | 6.7  | <b>Mt.</b> .....    | <b>2,718</b>                 | <b>2,518</b>                | <b>65.5</b>    | <b>95.5</b>                    | <b>8.8</b>                                 |
| <b>W.N.C.</b> ..... | <b>5,559</b>                 | <b>5,154</b>                | <b>69.3</b>    | <b>93.5</b>                    | <b>6.4</b>                                 | Mont.....           | 240                          | 217                         | 55.7           | 93.4                           | 8.5  |
| Minn.....           | 1,219                        | 1,154                       | 71.5           | 93.5                           | 6.8  | Idaho.....          | 238                          | 219                         | 70.1           | 96.2                           | 8.6  |
| Iowa.....           | 955                          | 896                         | 71.7           | 93.9                           | 5.4  | Wyo.....            | 114                          | 105                         | 66.4           | 95.8                           | 8.1  |
| Mo.....             | 1,664                        | 1,521                       | 67.2           | 92.3                           | 7.0  | Colo.....           | 742                          | 691                         | 63.4           | 96.4                           | 6.4  |
| N. Dak.....         | 200                          | 182                         | 68.4           | 89.9                           | 7.9  | N. Mex.....         | 322                          | 289                         | 66.4           | 91.1                           | 11.3                                       |
| S. Dak.....         | 222                          | 201                         | 69.6           | 90.0                           | 7.2  | Ariz.....           | 578                          | 539                         | 65.3           | 95.3                           | 10.4                                       |
| Nebr.....           | 512                          | 474                         | 66.4           | 95.6                           | 5.9  | Utah.....           | 312                          | 298                         | 69.3           | 97.9                           | 10.2                                       |
| Kans.....           | 787                          | 727                         | 69.1           | 95.8                           | 5.6  | Nev.....            | 172                          | 160                         | 58.5           | 97.3                           | 8.4  |
| <b>S.A.</b> .....   | <b>10,142</b>                | <b>9,438</b>                | <b>63.5</b>    | <b>90.0</b>                    | <b>6.8</b>                                 | <b>Pac.</b> .....   | <b>9,220</b>                 | <b>8,653</b>                | <b>57.1</b>    | <b>97.9</b>                    | <b>7.5</b>                                 |
| Del.....            | 175                          | 165                         | 68.0           | 95.5                           | 4.8  | Wash.....           | 1,204                        | 1,106                       | 66.8           | 97.4                           | 5.2  |
| Md.....             | 1,235                        | 1,175                       | 58.8           | 95.9                           | 5.9  | Oreg.....           | 735                          | 692                         | 66.1           | 97.0                           | 5.3  |
| D.C.....            | 278                          | 263                         | 28.2           | 97.9                           | 11.9                                       | Calif.....          | 6,977                        | 6,574                       | 54.9           | 98.3                           | 7.7  |
|                     |                              |                             |                |                                |  | Alaska.....         | 88                           | 79                          | 50.3           | 86.2                           | 12.2                                       |
|                     |                              |                             |                |                                |  | Hawaii.....         | 216                          | 203                         | 46.9           | 94.7                           | 18.6                                       |

<sup>1</sup> Includes hot and cold piped water, as well as a flush toilet and bathtub or shower inside the structure for exclusive use of the people in the unit. <sup>2</sup> For units with all plumbing facilities.

Source: U.S. Bureau of the Census, *Census of Housing, 1970*, vol. I.

**NO. 1408. OCCUPIED HOUSING UNITS—TENURE, AND POPULATION PER OCCUPIED UNIT, BY RACE OF HOUSEHOLD HEAD AND BY RESIDENCE: 1920 TO 1978**

[In thousands, except as indicated. Prior to 1960, excludes Alaska and Hawaii. Tenure allocated for housing units which did not report. Minus sign (—) denotes decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series N 238-245]

| YEAR, RACE, AND RESIDENCE | OCCUPIED UNITS <sup>1</sup> |                |         |                 |         | AVERAGE ANNUAL PERCENT CHANGE <sup>2</sup> |                               | Population per occupied unit <sup>4</sup> |
|---------------------------|-----------------------------|----------------|---------|-----------------|---------|--|-------------------------------|---|
|                           | Total                       | Owner occupied |         | Renter occupied |         | Total occupied units                       | Total population <sup>3</sup> |   |
|                           |                             | Number         | Percent | Number          | Percent |  |                               |   |
| TOTAL                     |                             |                |         |                 |         |  |                               |   |
| 1920.....                 | 24,352                      | 11,114         | 45.6    | 13,238          | 54.4    | 1.9  | 1.4                           | 4.3                                       |
| 1930.....                 | 29,905                      | 14,280         | 47.8    | 15,624          | 52.2    | 2.1  | 1.5                           | 4.1                                       |
| 1940.....                 | 34,855                      | 15,196         | 43.6    | 19,659          | 56.4    | 1.5  | .7                            | 3.8                                       |
| 1950.....                 | 42,826                      | 23,560         | 55.0    | 19,266          | 45.0    | 2.1  | 1.4                           | 3.5                                       |
| 1960.....                 | 53,024                      | 32,797         | 61.9    | 20,227          | 38.1    | 2.2  | 1.7                           | 3.4                                       |
| 1970.....                 | 63,445                      | 39,886         | 62.9    | 23,560          | 37.1    | 1.8  | 1.2                           | 3.2                                       |
| 1975.....                 | 72,523                      | 46,867         | 64.6    | 25,656          | 35.4    | 2.7  | .9                            | (NA)                                      |
| 1976.....                 | 74,005                      | 47,904         | 64.7    | 26,101          | 35.3    | 2.0  | .8                            | (NA)                                      |
| 1977.....                 | 75,280                      | 48,765         | 64.8    | 26,515          | 35.2    | 1.7  | .8                            | (NA)                                      |
| 1978.....                 | 77,167                      | 50,283         | 65.2    | 26,884          | 34.8    | 2.5  | .8                            | (NA)                                      |
| RACE                      |                             |                |         |                 |         |  |                               |   |
| White:                    |                             |                |         |                 |         |  |                               |   |
| 1920.....                 | 21,826                      | 10,511         | 48.2    | 11,315          | 51.8    | (NA)                                       | 1.5                           | 4.3                                       |
| 1930.....                 | 26,983                      | 13,544         | 50.2    | 13,439          | 49.8    | 2.1  | 1.5                           | 4.1                                       |
| 1940.....                 | 31,561                      | 14,418         | 45.7    | 17,143          | 54.3    | 1.6  | .7                            | 3.7                                       |
| 1950.....                 | 39,044                      | 22,241         | 57.0    | 16,803          | 43.0    | 2.2  | 1.3                           | 3.3                                       |
| 1960.....                 | 47,880                      | 30,823         | 64.4    | 17,057          | 35.6    | 2.1  | 1.6                           | 3.2                                       |
| 1970.....                 | 56,529                      | 36,979         | 65.4    | 19,551          | 34.6    | 1.7  | 1.2                           | 3.1                                       |
| 1975.....                 | 63,860                      | 43,072         | 67.4    | 20,788          | 32.6    | 2.5  | .8                            | (NA)                                      |
| 1976.....                 | 65,114                      | 44,024         | 67.6    | 21,090          | 32.4    | 2.0  | .6                            | (NA)                                      |
| 1977.....                 | 66,111                      | 44,762         | 67.7    | 21,349          | 32.3    | 1.5  | .6                            | (NA)                                      |
| 1978.....                 | 67,664                      | 46,076         | 68.1    | 21,588          | 31.9    | 2.4  | .7                            | (NA)                                      |
| Black and other:          |                             |                |         |                 |         |  |                               |   |
| 1920.....                 | 2,526                       | 603            | 23.9    | 1,923           | 76.1    | (NA)                                       | .6                            | 4.3                                       |
| 1930.....                 | 2,922                       | 737            | 25.2    | 2,185           | 74.8    | 1.5  | 1.4                           | 4.3                                       |
| 1940.....                 | 3,293                       | 778            | 23.6    | 2,516           | 76.4    | 1.2  | .7                            | 4.1                                       |
| 1950.....                 | 3,783                       | 1,319          | 34.9    | 2,464           | 65.1    | 1.4  | 1.6                           | 3.9                                       |
| 1960.....                 | 5,144                       | 1,974          | 38.4    | 3,171           | 61.6    | 3.1  | 2.4                           | 3.9                                       |
| 1970.....                 | 6,920                       | 2,907          | 42.0    | 4,014           | 58.0    | 3.0  | 2.3                           | 3.5                                       |
| 1975.....                 | 8,663                       | 3,795          | 43.8    | 4,868           | 56.2    | 4.6  | 2.1                           | (NA)                                      |
| 1976.....                 | 8,891                       | 3,880          | 43.6    | 5,011           | 56.4    | 2.6  | 2.0                           | (NA)                                      |
| 1977.....                 | 9,169                       | 4,003          | 43.7    | 5,166           | 56.3    | 3.1  | 1.9                           | (NA)                                      |
| 1978.....                 | 9,503                       | 4,207          | 44.3    | 5,296           | 55.7    | 3.6  | 2.0                           | (NA)                                      |
| RESIDENCE                 |                             |                |         |                 |         |  |                               |   |
| Nonfarm:                  |                             |                |         |                 |         |  |                               |   |
| 1920.....                 | 17,600                      | 7,189          | 40.8    | 10,411          | 59.2    | 2.2  | (NA)                          | 4.2                                       |
| 1930.....                 | 23,300                      | 10,721         | 46.0    | 12,579          | 54.0    | 2.8  | 2.3                           | 4.0                                       |
| 1940.....                 | 27,748                      | 11,413         | 41.1    | 16,335          | 58.9    | 1.8  | .9                            | 3.7                                       |
| 1950.....                 | 37,105                      | 19,802         | 53.4    | 17,304          | 46.6    | 2.9  | 2.4                           | 3.3                                       |
| 1960 <sup>a</sup> .....   | 49,458                      | 30,164         | 61.0    | 19,294          | 39.1    | 2.9  | 2.5                           | 3.3                                       |
| 1970 <sup>b</sup> .....   | 60,351                      | 37,393         | 62.0    | 22,957          | 38.0    | 2.0  | 1.7                           | 3.1                                       |
| 1975 <sup>c</sup> .....   | 69,880                      | 44,714         | 64.0    | 25,166          | 36.0    | 3.0  | (NA)                          | (NA)                                      |
| 1976 <sup>d</sup> .....   | 71,335                      | 45,711         | 64.1    | 25,624          | 35.9    | 2.1  | (NA)                          | (NA)                                      |
| 1977 <sup>e</sup> .....   | 72,661                      | 46,602         | 64.1    | 26,060          | 35.9    | 1.9  | (NA)                          | (NA)                                      |
| Farm:                     |                             |                |         |                 |         |  |                               |   |
| 1920 <sup>a</sup> .....   | 6,751                       | 3,925          | 58.1    | 2,827           | 41.9    | 1.0  | (NA)                          | 4.7                                       |
| 1930.....                 | 6,605                       | 3,560          | 53.9    | 3,045           | 46.1    | —2   | —5                            | 4.6                                       |
| 1940.....                 | 7,107                       | 3,783          | 53.2    | 3,324           | 46.8    | .7   | (2)                           | 4.3                                       |
| 1950.....                 | 5,721                       | 3,758          | 65.7    | 1,963           | 34.3    | —2.1                                       | —2.8                          | 4.0                                       |
| 1960 <sup>a</sup> .....   | 3,566                       | 2,633          | 73.8    | 933             | 26.2    | —4.6                                       | —3.8                          | 3.8                                       |
| 1970 <sup>b</sup> .....   | 3,095                       | 2,492          | 80.5    | 603             | 19.5    | —1.4                                       | —4.7                          | 3.4                                       |
| 1975 <sup>c</sup> .....   | 2,644                       | 2,154          | 81.5    | 490             | 18.5    | —3.1                                       | (NA)                          | (NA)                                      |
| 1976 <sup>d</sup> .....   | 2,670                       | 2,193          | 82.1    | 477             | 17.9    | —1.0                                       | (NA)                          | (NA)                                      |
| 1977 <sup>e</sup> .....   | 2,618                       | 2,164          | 82.7    | 455             | 17.4    | —2.0                                       | (NA)                          | (NA)                                      |

NA Not available. Z Less than .05 percent. <sup>1</sup> Statistics on the number of occupied units are essentially comparable although identified by various terms—the term "family" applies to figures for 1920 and 1930; "occupied dwelling unit," 1940 and 1950; and "occupied housing unit," 1960, 1970, 1975, 1976, 1977, and 1978. For 1920, includes the small number of quasi-families; for 1930, represents private families only. <sup>2</sup> For 1920, change from 1910. <sup>3</sup> Based on total resident population; see tables 1, 2, and 31. <sup>4</sup> From 1950 to 1970, population in occupied housing units was determined by dividing population in housing units by number of occupied housing units. Population data exclude persons in institutions and other group quarters (see table 79). <sup>5</sup> Not comparable with data for earlier censuses because of a basic change in definition of farm residence. For definitions used in 1960 and 1970, see text, p. 684. <sup>6</sup> Includes a small proportion of urban-farm families in addition to rural-farm.

Source: U.S. Bureau of the Census, *Census of Population and Housing: 1960 and 1970*; and *Current Housing Reports*, series H-150, Annual Housing Survey, part A, *General Characteristics for the United States and Regions*.

**NO. 1409. OCCUPIED HOUSING UNITS—PERCENT OF HOME OWNERSHIP, BY RACE OF HOUSEHOLD HEAD, INSIDE AND OUTSIDE SMSA'S, BY REGION: 1960 TO 1978**

[See headnote, table 1404. For composition of regions, see fig. 1 inside front cover]

| YEAR AND REGION                 | TOTAL |                    | INSIDE SMSA'S |                    |                   |                    |                |                    | OUTSIDE SMSA'S |                    |
|---------------------------------|-------|--------------------|---------------|--------------------|-------------------|--------------------|----------------|--------------------|----------------|--------------------|
|                                 | White | Black <sup>1</sup> | Total         |                    | In central cities |                    | SMSA remainder |                    | White          | Black <sup>1</sup> |
|                                 |       |                    | White         | Black <sup>1</sup> | White             | Black <sup>1</sup> | White          | Black <sup>1</sup> |                |                    |
| <b>1960: United States.....</b> | 64.4  | 38.4               | 62.1          | 35.7               | 51.1              | 31.7               | 73.4           | 51.6               | 69.0           | 44.8               |
| Northeast.....                  | 58.1  | 27.0               | 55.5          | 26.4               | 37.5              | 22.3               | 72.6           | 46.7               | 70.0           | 42.0               |
| North Central.....              | 69.1  | 35.8               | 67.3          | 34.2               | 56.0              | 31.4               | 79.2           | 56.5               | 72.0           | 54.3               |
| South.....                      | 66.4  | 41.6               | 65.9          | 39.7               | 60.5              | 35.9               | 72.3           | 51.3               | 67.1           | 43.6               |
| West.....                       | 62.5  | 44.6               | 61.6          | 42.5               | 55.0              | 38.4               | 67.7           | 54.0               | 65.5           | 54.6               |
| <b>1970: United States.....</b> | 65.4  | 41.6               | 62.3          | 38.5               | 51.3              | 34.8               | 71.1           | 54.1               | 72.1           | 51.7               |
| Northeast.....                  | 60.4  | 28.6               | 57.4          | 28.1               | 38.8              | 24.2               | 71.7           | 47.3               | 72.1           | 42.6               |
| North Central.....              | 70.2  | 42.0               | 67.8          | 41.3               | 56.5              | 38.9               | 76.5           | 58.8               | 74.4           | 56.3               |
| South.....                      | 68.2  | 46.9               | 65.3          | 43.4               | 59.5              | 39.1               | 70.7           | 57.3               | 71.9           | 52.0               |
| West.....                       | 60.2  | 40.1               | 58.6          | 40.0               | 52.0              | 36.6               | 63.6           | 49.6               | 66.1           | 42.1               |
| <b>1978: United States.....</b> | 68.1  | 43.8               | 64.8          | 39.9               | 53.5              | 36.9               | 72.3           | 49.4               | 74.6           | 57.5               |
| Northeast.....                  | 63.4  | 30.0               | 60.4          | 28.8               | 41.9              | 25.0               | 72.1           | 44.6               | 73.5           | 48.0               |
| North Central.....              | 72.5  | 45.8               | 71.1          | 44.9               | 60.2              | 42.6               | 77.8           | 56.2               | 74.9           | 58.3               |
| South.....                      | 71.1  | 49.2               | 66.7          | 43.6               | 58.3              | 40.1               | 72.9           | 52.4               | 76.7           | 58.5               |
| West.....                       | 62.6  | 38.6               | 60.9          | 38.8               | 53.5              | 38.9               | 65.8           | 38.6               | 68.9           | 35.9               |

<sup>1</sup> For 1960, represents Black and other races.

Source: U.S. Bureau of the Census, Census of Population and Housing: 1970, PHC(2), *General Demographic Trends for Metropolitan Areas, 1960 to 1970*; and *Current Housing Reports*, series H-150-78, Annual Housing Survey: 1978, part A.

**NO. 1410. OCCUPIED HOUSING UNITS—FINANCIAL SUMMARY: 1970 AND 1978**

[In thousands, except as indicated. See headnote, table 1404. For definition of median, see Guide to Tabular Presentation]

| CHARACTERISTIC                                     | 1970          |               |                   |                       |                | 1978          |               |                   |                       |                |
|--|---------------|---------------|-------------------|-----------------------|----------------|---------------|---------------|-------------------|-----------------------|----------------|
|  | Total         | Inside SMSA's |                   |                       | Outside SMSA's | Total         | Inside SMSA's |                   |                       | Outside SMSA's |
|  |               | Total         | In central cities | Not in central cities |                |               | Total         | In central cities | Not in central cities |                |
| <b>Occupied units, total.....</b>                  | <b>63,445</b> | <b>43,859</b> | <b>21,395</b>     | <b>22,464</b>         | <b>19,586</b>  | <b>77,167</b> | <b>52,722</b> | <b>23,436</b>     | <b>29,286</b>         | <b>24,445</b>  |
| Median income:                                     |               |               |                   |                       |                |               |               |                   |                       |                |
| Owner occupied (\$1,000).....                      | 9.7           | 11.0          | 10.1              | 11.6                  | 7.5            | 16.8          | 18.6          | 18.5              | 19.8                  | 14.0           |
| Renter occupied (\$1,000).....                     | 6.3           | 6.7           | 6.1               | 7.7                   | 5.3            | 9.3           | 9.7           | 8.5               | 11.1                  | 8.2            |
| <b>Specified owner occupied <sup>1</sup>.....</b>  | <b>31,726</b> | <b>22,059</b> | <b>8,543</b>      | <b>13,516</b>         | <b>9,667</b>   | <b>40,054</b> | <b>26,994</b> | <b>9,607</b>      | <b>17,387</b>         | <b>13,061</b>  |
| With value of—                                     |               |               |                   |                       |                |               |               |                   |                       |                |
| Less than \$20,000.....                            | 19,556        | 11,963        | 5,608             | 6,356                 | 7,594          | 5,240         | 2,465         | 1,468             | 998                   | 2,772          |
| \$20,000–\$24,999.....                             | 4,680         | 3,740         | 1,214             | 2,525                 | 940            | 2,691         | 1,485         | 785               | 700                   | 1,206          |
| \$25,000–\$34,999.....                             | 4,444         | 3,709         | 1,044             | 2,665                 | 736            | 7,066         | 4,281         | 1,931             | 2,350                 | 2,784          |
| \$35,000–\$49,999.....                             | 2,050         | 1,760         | 444               | 1,316                 | 289            | 10,387        | 7,050         | 2,327             | 4,722                 | 3,338          |
| \$50,000 and over.....                             | 997           | 887           | 234               | 653                   | 110            | 14,672        | 11,711        | 3,095             | 8,619                 | 2,959          |
| Median—  |               |               |                   |                       |                |               |               |                   |                       |                |
| Value (\$1,000).....                               | 17.1          | 19.0          | 16.4              | 20.8                  | 12.2           | 41.5          | 45.9          | 38.4              | 49.7                  | 34.2           |
| Real estate taxes <sup>2</sup> .....               | (NA)          | (NA)          | (NA)              | (NA)                  | (NA)           | \$450         | \$571         | \$450             | \$647                 | \$244          |
| Units monthly costs <sup>3</sup> —                 |               |               |                   |                       |                |               |               |                   |                       |                |
| With mortgages.....                                | (NA)          | (NA)          | (NA)              | (NA)                  | (NA)           | \$310         | \$327         | \$290             | \$347                 | \$272          |
| Owned clear.....                                   | (NA)          | (NA)          | (NA)              | (NA)                  | (NA)           | \$109         | \$121         | \$110             | \$129                 | \$93           |
| <b>Specified renter occupied <sup>4</sup>.....</b> | <b>22,334</b> | <b>17,433</b> | <b>11,033</b>     | <b>6,401</b>          | <b>4,900</b>   | <b>26,247</b> | <b>20,189</b> | <b>11,803</b>     | <b>8,386</b>          | <b>6,058</b>   |
| With gross rent of—                                |               |               |                   |                       |                |               |               |                   |                       |                |
| Less than \$80.....                                | 5,466         | 3,499         | 2,619             | 879                   | 1,968          | 1,760         | 1,155         | 890               | 265                   | 605            |
| \$80–\$99.....                                     | 3,701         | 2,879         | 2,099             | 779                   | 822            | 1,028         | 616           | 446               | 170                   | 413            |
| \$100–\$119.....                                   | 3,332         | 2,739         | 1,845             | 894                   | 592            | 3,999         | 2,714         | 1,961             | 753                   | 1,285          |
| \$120–\$149.....                                   | 3,772         | 3,283         | 1,957             | 1,316                 | 485            | 5,666         | 4,265         | 2,850             | 1,406                 | 1,401          |
| \$150–\$199.....                                   | 3,304         | 2,986         | 1,525             | 1,461                 | 318            | 9,005         | 7,638         | 4,031             | 3,606                 | 1,369          |
| \$200–\$299.....                                   | 1,194         | 1,110         | 547               | 563                   | 84             | 3,503         | 3,159         | 1,344             | 1,814                 | 343            |
| \$300 and over.....                                | 265           | 254           | 145               | 108                   | 12             | 1,285         | 642           | 271               | 371                   | 643            |
| No cash rent.....                                  | 1,300         | 685           | 284               | 400                   | 615            | 2,200         | 1,193         | 519               | 674                   | 1,527          |
| Median rent.....                                   | \$108         | \$114         | \$107             | \$130                 | \$84           | \$200         | \$210         | \$193             | \$235                 | \$163          |

NA Not available. <sup>1</sup> Includes only 1-family homes on less than 10 acres and no business on the property. <sup>2</sup> Taxes paid previous year. <sup>3</sup> Covers real estate taxes, property insurance, utilities, fuel, water, garbage and trash collection, and mortgage. <sup>4</sup> Excludes 1-family homes on 10 acres or more.

Source: U.S. Bureau of the Census, *Current Housing Reports*, H-150-78, Annual Housing Survey: 1978, part A, *General Housing Characteristics for the United States and Regions*.

## NO. 1411. SELECTED CHARACTERISTICS OF OCCUPIED UNITS: 1960 TO 1979

[Percent distribution. Annual averages]

| CHARACTERISTIC                    | OCCUPIED, 1960 <sup>1</sup> |       |         | OCCUPIED, 1970 |       |         | OCCUPIED, 1978 |       |         | OCCUPIED, 1979 |       |         |
|-----------------------------------|-----------------------------|-------|---------|----------------|-------|---------|----------------|-------|---------|----------------|-------|---------|
|                                   | Total                       | Owner | Rent-er | Total          | Owner | Rent-er | Total          | Owner | Rent-er | Total          | Owner | Rent-er |
| Rooms in unit:                    |                             |       |         |                |       |         |                |       |         |                |       |         |
| 1-2 rooms.....                    | 13                          | 23    | 14      | 4              | 17    | 10      | 5              | 15    | 12      | 4              | 14    | 10      |
| 3-4 rooms.....                    | 32                          |       | 51      | 28             |       | 51      | 28             |       | 55      | 29             |       | 58      |
| 5 rooms.....                      | 26                          | 29    | 19      | 26             | 28    | 21      | 23             | 25    | 18      | 23             | 25    | 18      |
| 6 rooms.....                      | 20                          | 26    | 10      | 22             | 27    | 11      | 21             | 27    | 9       | 20             | 27    | 8       |
| 7 rooms or more.....              | 15                          | 22    | 6       | 20             | 28    | 7       | 23             | 33    | 6       | 24             | 34    | 6       |
| Units in structure:               |                             |       |         |                |       |         |                |       |         |                |       |         |
| 1 unit.....                       | 73                          | 94    | 48      | 74             | 94    | 38      | 72             | 94    | 32      | 73             | 95    | 32      |
| 2-4 units.....                    | 13                          |       | 25      | 14             |       | 29      | 14             |       | 29      | 11             |       | 25      |
| 5-9 units.....                    |                             | 6     | 9       | 4              | 6     | 11      | 4              | 6     | 12      | 5              | 5     | 13      |
| 10 units or more.....             | 11                          |       | 18      | 8              |       | 22      | 10             |       | 27      | 11             |       | 30      |
| With all plumbing facilities..... | 84                          | 89    | 77      | 95             | 97    | 91      | 97             | 99    | 96      | 98             | 99    | 97      |
| Year structure built:             |                             |       |         |                |       |         |                |       |         |                |       |         |
| 1965 or later.....                | (x)                         | (x)   | (x)     | 12             | 13    | 9       | 28             | 31    | 24      | 30             | 32    | 27      |
| 1960-1964.....                    | (x)                         | (x)   | (x)     | 12             | 13    | 10      | 8              | 9     | 7       | 9              | 10    | 7       |
| 1950-1959.....                    | 27                          | 34    | 16      | 19             | 24    | 12      | 19             | 21    | 14      | 18             | 20    | 15      |
| 1940-1949.....                    | 15                          | 16    | 13      | 14             | 14    | 13      | 11             | 10    | 12      | 10             | 11    | 9       |
| 1939 or earlier.....              | 58                          | 50    | 71      | 43             | 36    | 56      | 34             | 29    | 43      | 33             | 27    | 42      |

X Not applicable. <sup>1</sup> As of April 1.Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-111.

## NO. 1412. CHARACTERISTICS OF HOMEOWNERS AND RENTERS, BY INCOME: 1978

[Income data refer to the 12 months prior to interviews, which were conducted between October and December]

| CHARACTERISTIC                               | OWNER OCCUPIED UNITS WITH INCOME OF— |                      |                      |                   | RENTER OCCUPIED UNITS WITH INCOME OF— |                      |                      |                   |
|--|--------------------------------------|----------------------|----------------------|-------------------|---------------------------------------|----------------------|----------------------|-------------------|
|  | Under \$10,000                       | \$10,000 to \$14,999 | \$15,000 to \$24,999 | \$25,000 and over | Under \$10,000                        | \$10,000 to \$14,999 | \$15,000 to \$24,999 | \$25,000 and over |
| Occupied units, total (1,000).....           | 13,340                               | 8,754                | 14,980               | 13,209            | 14,372                                | 5,748                | 4,990                | 1,774             |
|  | PERCENT                              |                      |                      |                   |                                       |                      |                      |                   |
| Male head, wife present, no relatives.....   | 44.6                                 | 70.4                 | 82.9                 | 90.4              | 22.6                                  | 43.9                 | 63.0                 | 71.6              |
| Female head (2 or more persons).....         | 13.9                                 | 11.8                 | 7.1                  | 3.1               | 25.7                                  | 15.6                 | 8.4                  | 6.1               |
| One-person household.....                    | 38.3                                 | 13.0                 | 6.2                  | 3.0               | 44.9                                  | 31.6                 | 20.8                 | 15.3              |
| Household head 65 years and over.....        | 59.2                                 | 21.7                 | 9.5                  | 6.0               | 26.0                                  | 7.6                  | 5.5                  | 6.7               |
| Own children under 18 years.....             | 19.6                                 | 41.6                 | 53.3                 | 54.0              | 30.1                                  | 36.2                 | 38.0                 | 37.5              |
| Lacking some or all plumbing facilities..... | 3.9                                  | 1.2                  | .4                   | .2                | 6.3                                   | 1.8                  | 1.2                  | .5                |
| With 1.01 persons or more per room.....      | 2.5                                  | 4.2                  | 3.7                  | 3.1               | 6.4                                   | 5.5                  | 5.2                  | 4.5               |
| Built 1960 or later.....                     | 30.5                                 | 41.0                 | 46.4                 | 53.7              | 32.1                                  | 40.5                 | 45.0                 | 52.5              |
| With units inside SMSA's <sup>1</sup> .....  | 54.4                                 | 60.3                 | 66.3                 | 75.1              | 72.9                                  | 76.4                 | 80.4                 | 81.9              |
| In central cities.....                       | 23.7                                 | 23.3                 | 22.9                 | 22.7              | 47.1                                  | 41.7                 | 39.8                 | 36.9              |
| Owned second home.....                       | <sup>2</sup> 2.9                     | <sup>2</sup> 3.5     | <sup>2</sup> 4.8     | <sup>2</sup> 8.8  | <sup>2</sup> 1.4                      | <sup>2</sup> 4.4     | <sup>2</sup> 3.5     | <sup>2</sup> 9.7  |
| With air-conditioning <sup>3</sup> .....     | 47.6                                 | 56.8                 | 60.7                 | 66.7              | 36.0                                  | 49.5                 | 57.8                 | 65.3              |

<sup>1</sup> For definition, see text, Appendix II.<sup>2</sup> 1977 data.<sup>3</sup> Covers room units and central systems.

## NO. 1413. OCCUPIED UNITS—SELECTED STRUCTURAL DEFICIENCIES, BY RESIDENCE: 1978

[Data based on respondent's opinion of his/her unit. See headnote, table 1404]

| ITEM                            | U.S. total | Total in SMSA's | In central cities of SMSA's | Not in central cities of SMSA's | Outside SMSA's | North-east | North Central | South  | West   |
|---------------------------------|------------|-----------------|-----------------------------|---------------------------------|----------------|------------|---------------|--------|--------|
| Occupied units (1,000).....     | 77,167     | 52,722          | 23,436                      | 29,286                          | 24,445         | 16,952     | 20,171        | 25,094 | 14,950 |
| Percent of units with—          |            |                 |                             |                                 |                |            |               |        |        |
| Some or all wiring exposed..... | 3.2        | 2.7             | 3.0                         | 2.5                             | 4.1            | 2.8        | 3.0           | 3.6    | 3.2    |
| Signs of water leakage—         |            |                 |                             |                                 |                |            |               |        |        |
| In roof.....                    | 6.1        | 5.6             | 6.3                         | 5.1                             | 7.2            | 5.8        | 5.5           | 7.1    | 5.8    |
| In basement.....                | 11.0       | 10.5            | 9.1                         | 11.7                            | 12.0           | 18.4       | 18.0          | 4.8    | 3.6    |
| Cracks or holes in walls.....   | 5.9        | 5.9             | 8.1                         | 4.2                             | 6.0            | 7.1        | 4.8           | 6.7    | 4.9    |
| Broken plaster.....             | 3.7        | 3.8             | 5.5                         | 2.4                             | 3.6            | 5.2        | 3.5           | 3.6    | 2.4    |
| Peeling paint.....              | 4.5        | 4.7             | 6.7                         | 3.0                             | 4.0            | 6.6        | 3.8           | 4.2    | 3.4    |
| Holes in floor.....             | 1.9        | 1.7             | 2.4                         | 1.2                             | 2.2            | 2.1        | 1.1           | 2.7    | 1.3    |

Source of tables 1412 and 1413: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-78, Annual Housing Survey: 1978, part B and part C.

## NO. 1414. HEATING EQUIPMENT AND FUELS FOR OCCUPIED UNITS: 1950 TO 1978

[In thousands, except percent]

| ITEM  | 1950                | 1960                | 1970          | 1975          | 1978                | PERCENT DISTRIBUTION |                  |              |              |                   |
|---|---------------------|---------------------|---------------|---------------|---------------------|----------------------|------------------|--------------|--------------|-------------------|
|   |                     |                     |               |               |                     | 1950                 | 1960             | 1970         | 1975         | 1978              |
| <b>Occupied units, total.....</b>                 | <b>42,826</b>       | <b>53,024</b>       | <b>63,445</b> | <b>72,523</b> | <b>77,167</b>       | <b>100.0</b>         | <b>100.0</b>     | <b>100.0</b> | <b>100.0</b> | <b>100.0</b>      |
| Warm air furnace.....                             | 11,508              | 17,378              | 27,515        | 36,999        | <sup>a</sup> 40,973 | 26.9                 | 32.8             | 43.4         | 51.0         | <sup>a</sup> 53.1 |
| Steam or hot water.....                           | 10,071              | 11,990              | 13,211        | 13,792        | 13,925              | 23.5                 | 22.6             | 20.8         | 19.0         | 18.0              |
| Floor, wall, or pipeless furnace.....             | ( <sup>1</sup> )    | 6,088               | 5,552         | 5,890         | 6,173               | ( <sup>1</sup> )     | 11.5             | 8.8          | 9.1          | 8.0               |
| Built-in electric units.....                      | -                   | 664                 | 3,236         | 4,625         | 5,599               | -                    | 1.3              | 5.1          | 6.4          | 7.3               |
| Room heaters with flue.....                       | <sup>a</sup> 15,399 | <sup>a</sup> 11,183 | 7,209         | 4,747         | 4,477               | 36.0                 | 21.1             | 11.4         | 6.5          | 5.8               |
| Room heaters without flue.....                    | 5,268               | 5,218               | 3,558         | 3,330         | 3,150               | 12.3                 | 9.8              | 5.6          | 4.6          | 4.1               |
| Fireplaces, stoves, or heaters <sup>4</sup> ..... | ( <sup>2</sup> )    | ( <sup>2</sup> )    | 2,766         | 1,982         | 2,274               | ( <sup>2</sup> )     | ( <sup>2</sup> ) | 4.4          | 2.7          | 2.9               |
| None.....   | 581                 | 503                 | 398           | 468           | 597                 | 1.4                  | .9               | .6           | .6           | .8                |
| <b>House heating fuel:</b>                        |                     |                     |               |               |                     |                      |                  |              |              |                   |
| Utility gas.....                                  | 11,387              | 22,851              | 35,014        | 40,933        | 42,521              | 26.6                 | 43.1             | 55.2         | 56.4         | 55.1              |
| Fuel oil, kerosene, etc.....                      | 9,686               | 17,158              | 16,473        | 16,299        | 16,071              | 22.6                 | 32.4             | 26.0         | 22.5         | 20.8              |
| Electricity.....                                  | 283                 | 933                 | 4,876         | 9,173         | 12,258              | .7                   | 1.9              | 7.7          | 12.6         | 15.9              |
| Bottled, tank, or LP gas.....                     | 787                 | 2,686               | 3,807         | 4,146         | 4,130               | 1.8                  | 5.1              | 6.0          | 5.7          | 5.4               |
| Wood and other fuel.....                          | 4,855               | 2,460               | 1,060         | 930           | 1,187               | 11.3                 | 4.6              | 1.7          | 1.3          | 1.5               |
| Coal or coke.....                                 | 14,828              | 6,456               | 1,821         | 573           | 402                 | 34.6                 | 12.2             | 2.9          | .8           | .5                |
| None.....   | 999                 | 478                 | 395           | 468           | 597                 | 2.3                  | .9               | .6           | .6           | .8                |
| <b>Cooking fuel:</b>                              |                     |                     |               |               |                     |                      |                  |              |              |                   |
| Electricity.....                                  | 6,403               | 16,351              | 25,768        | 33,944        | <sup>a</sup> 37,042 | 15.0                 | 30.8             | 40.6         | 46.8         | <sup>a</sup> 49.2 |
| Utility gas.....                                  | 22,084              | 27,296              | 31,244        | 32,493        | <sup>a</sup> 32,207 | 51.6                 | 51.5             | 49.2         | 44.8         | <sup>a</sup> 42.8 |
| Bottled, tank, or LP gas.....                     | 3,417               | 6,491               | 5,314         | 5,440         | <sup>a</sup> 5,503  | 8.0                  | 12.2             | 8.4          | 7.5          | <sup>a</sup> 7.3  |
| Other fuel.....                                   | 10,796              | 2,603               | 908           | 332           | <sup>a</sup> 262    | 25.2                 | 4.9              | 1.4          | .5           | <sup>a</sup> .3   |
| None.....   | 124                 | 280                 | 213           | 315           | <sup>a</sup> 266    | .3                   | .5               | .3           | .4           | <sup>a</sup> .4   |

- Represents zero.

<sup>1</sup> "Floor, wall, or pipeless furnace" included in "Warm air furnace."<sup>2</sup> Includes heat pumps.<sup>3</sup> "Fireplaces, stoves, or portable heaters" included in "Room heaters with flue."<sup>4</sup> Portable heaters.<sup>a</sup> 1977 data.Source: U.S. Bureau of the Census, *Census of Housing, 1960*, vol. I, No. 1; *Census of Housing, 1970*, vol. I; and *Current Housing Reports*, series H-150, Annual Housing Survey, part A, *General Housing Characteristics for the United States and Regions*.

## NO. 1415. SELECTED ELECTRICAL APPLIANCES—NUMBER AND PERCENT OF HOMES WITH APPLIANCES: 1960 TO 1979

[As of December 31. Percentages based on total number of homes wired for electricity. See also table 1490]

| ITEM                              | HOMES WITH APPLIANCES (mill.) |             |             |             |             |             | PERCENT WITH APPLIANCES |      |      |      |      |      |
|-----------------------------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------------------|------|------|------|------|------|
|                                   | 1960                          | 1965        | 1970        | 1975        | 1978        | 1979        | 1960                    | 1965 | 1970 | 1975 | 1978 | 1979 |
| <b>Number of wired homes.....</b> | <b>51.7</b>                   | <b>57.6</b> | <b>64.0</b> | <b>72.7</b> | <b>77.8</b> | <b>79.4</b> | (x)                     | (x)  | (x)  | (x)  | (x)  | (x)  |
| Air-conditioners, room.....       | 7.8                           | 13.9        | 26.0        | 38.4        | 43.1        | 44.1        | 15.1                    | 24.2 | 40.6 | 52.8 | 55.4 | 55.5 |
| Bed coverings.....                | 12.2                          | 20.0        | 31.7        | 41.4        | 48.1        | 51.0        | 23.6                    | 34.7 | 49.5 | 57.0 | 61.8 | 64.2 |
| Blenders.....                     | 4.2                           | 7.5         | 23.4        | 32.9        | 39.9        | 41.6        | 8.0                     | 13.0 | 36.5 | 45.2 | 51.2 | 52.4 |
| Can openers.....                  | 2.5                           | 14.2        | 29.1        | 39.7        | 47.3        | 50.5        | 4.8                     | 24.7 | 45.5 | 54.6 | 60.7 | 63.6 |
| Coffeemakers.....                 | 30.2                          | 41.3        | 56.7        | 71.0        | 77.7        | 79.3        | 58.3                    | 71.7 | 88.6 | 97.7 | 99.8 | 99.9 |
| Dishwashers.....                  | 3.7                           | 7.8         | 17.0        | 27.9        | 32.6        | 34.2        | 7.1                     | 13.5 | 26.5 | 38.3 | 41.9 | 43.0 |
| Disposers, food waste.....        | 5.4                           | 7.8         | 16.3        | 26.2        | 33.4        | 34.1        | 10.5                    | 13.6 | 25.5 | 38.8 | 42.9 | 43.0 |
| Dryers, clothes (incl. gas).....  | 10.1                          | 15.2        | 28.6        | 42.0        | 46.9        | 48.8        | 19.6                    | 26.4 | 44.6 | 57.7 | 60.3 | 61.5 |
| Freezers.....                     | 12.1                          | 15.7        | 20.0        | 31.6        | 34.9        | 35.5        | 23.4                    | 27.2 | 31.2 | 43.5 | 44.9 | 44.7 |
| Frypans.....                      | 22.5                          | 28.3        | 36.0        | 45.8        | 53.2        | 54.0        | 43.4                    | 49.2 | 56.2 | 63.0 | 68.3 | 68.0 |
| Hotplates and buffet ranges.....  | 12.5                          | 13.1        | 15.7        | 19.1        | 20.4        | 20.7        | 24.2                    | 22.7 | 24.5 | 26.2 | 26.3 | 26.0 |
| Irons, total.....                 | 45.7                          | 57.1        | 63.8        | 72.6        | 77.1        | 79.3        | 88.4                    | 99.1 | 99.7 | 99.9 | 99.9 | 99.9 |
| Steam and steam/spray.....        | 30.6                          | 43.5        | 56.5        | 70.7        | 76.7        | 79.2        | 59.2                    | 75.5 | 88.2 | 97.2 | 99.0 | 99.8 |
| Microwave ovens.....              | (NA)                          | (NA)        | (NA)        | 2.3         | 5.5         | 6.1         | (NA)                    | (NA) | (NA) | 3.2  | 7.1  | 7.6  |
| Mixers, food.....                 | 29.0                          | 41.9        | 52.8        | 65.6        | 71.8        | 73.7        | 56.0                    | 72.8 | 82.4 | 90.2 | 92.2 | 92.8 |
| Radios.....                       | 50.3                          | 57.3        | 63.9        | 72.6        | 77.8        | 79.3        | 94.3                    | 99.5 | 99.8 | 99.9 | 99.9 | 99.9 |
| Ranges: Free-standing.....        | 16.0                          | 18.5        | 25.9        | 35.8        | 39.5        | 39.7        | 30.9                    | 32.1 | 40.5 | 49.2 | 50.8 | 50.0 |
| Built-in.....                     | 3.3                           | 5.9         | 9.6         | 14.0        | 15.4        | 15.4        | 6.4                     | 10.3 | 15.0 | 19.3 | 19.8 | 19.4 |
| Refrigerators.....                | 50.8                          | 57.3        | 68.9        | 72.6        | 77.6        | 79.2        | 98.2                    | 99.1 | 99.8 | 99.9 | 99.7 | 99.8 |
| Television: Black and white.....  | 46.2                          | 55.9        | 63.2        | 72.6        | 77.8        | 79.3        | 89.4                    | 97.1 | 98.7 | 99.9 | 99.9 | 99.9 |
| Color.....                        | (NA)                          | 5.5         | 27.2        | 54.1        | 66.3        | 71.3        | (NA)                    | 9.5  | 42.5 | 74.4 | 85.2 | 89.8 |
| Toasters.....                     | 37.2                          | 48.1        | 59.3        | 71.7        | 77.8        | 79.3        | 72.0                    | 83.6 | 92.6 | 96.6 | 99.9 | 99.9 |
| Vacuum cleaners.....              | 38.4                          | 48.1        | 58.9        | 72.1        | 77.7        | 79.3        | 74.3                    | 83.5 | 92.0 | 99.2 | 99.9 | 99.9 |
| Washers.....                      | 28.6                          | 83.1        | 89.8        | 50.8        | 58.5        | 61.4        | 55.4                    | 57.4 | 62.1 | 69.9 | 75.2 | 77.3 |

NA Not available. X Not applicable.

<sup>1</sup> Based on 53,300,000 homes in 1960, and 58,586,000 in 1965.Source: Gralla Publications, Inc., New York, N.Y., *Merchandising*, annual statistical issues. (Copyright.)

**NO. 1416. OCCUPIED UNITS—SELECTED NEIGHBORHOOD CHARACTERISTICS OF HOMEOWNERS AND RENTERS, 1975 AND 1977, AND INSIDE AND OUTSIDE SMSA'S, 1977**

(In thousands of units, except percent. Data based on respondent's opinion of his/her neighborhood. See headnote, table 1404)

| CHARACTERISTIC                            | 1975          | 1977          |                      |               |                |                |               |                       |                |                |
|---|---------------|---------------|----------------------|---------------|----------------|----------------|---------------|-----------------------|----------------|----------------|
|   |               | Total         | Owner occupied units |               |                |                |               | Renter occupied units |                |                |
|   |               |               | Total                | Inside SMSA's |                | Outside SMSA's | Total         | Inside SMSA's         |                | Outside SMSA's |
|   |               |               |                      | Total         | Central cities |                |               | Total                 | Central cities |                |
| <b>Occupied units, total</b> <sup>1</sup> | <b>72,523</b> | <b>75,280</b> | <b>48,765</b>        | <b>31,286</b> | <b>11,346</b>  | <b>17,479</b>  | <b>26,515</b> | <b>20,028</b>         | <b>11,805</b>  | <b>6,487</b>   |
| <b>NEIGHBORHOOD CONDITIONS</b>            |               |               |                      |               |                |                |               |                       |                |                |
| No undesirable conditions.....            | 16,809        | 17,992        | 12,144               | 7,606         | 2,665          | 4,537          | 5,848         | 4,159                 | 2,275          | 1,690          |
| Undesirable conditions <sup>2</sup> ..... | 55,634        | 57,119        | 36,537               | 23,622        | 8,658          | 12,916         | 20,582        | 15,802                | 9,490          | 4,781          |
| Percent.....                              | 76.7          | 75.9          | 74.9                 | 75.5          | 76.3           | 73.9           | 77.6          | 78.9                  | 80.4           | 73.7           |
| Street noise.....                         | 25,069        | 23,715        | 14,276               | 9,503         | 3,795          | 4,773          | 9,439         | 7,404                 | 4,557          | 2,035          |
| Heavy traffic.....                        | 21,883        | 21,904        | 13,050               | 8,219         | 3,450          | 4,830          | 8,854         | 6,947                 | 4,435          | 1,906          |
| Inadequate street lighting.....           | 18,106        | 18,681        | 13,557               | 8,206         | 1,894          | 5,351          | 5,124         | 3,598                 | 1,787          | 1,526          |
| Commercial or industrial.....             | 12,366        | 15,490        | 7,313                | 4,867         | 2,267          | 2,445          | 8,177         | 6,544                 | 4,190          | 1,633          |
| Streets need repair.....                  | 12,378        | 13,747        | 9,572                | 5,306         | 1,942          | 4,266          | 4,175         | 2,972                 | 1,806          | 1,203          |
| Crime.....                                | 13,330        | 12,703        | 7,311                | 5,811         | 2,595          | 1,499          | 5,392         | 4,751                 | 3,286          | 641            |
| Airplane noise.....                       | 11,864        | 12,670        | 8,342                | 6,882         | 2,603          | 1,660          | 4,328         | 3,761                 | 2,148          | 567            |
| Litter.....                               | 10,413        | 12,010        | 7,372                | 4,705         | 2,130          | 2,867          | 4,638         | 3,671                 | 2,607          | 967            |
| Roads impassable.....                     | 7,725         | 9,205         | 6,267                | 3,768         | 1,496          | 2,489          | 2,938         | 2,138                 | 1,266          | 800            |
| Rundown housing.....                      | 6,864         | 7,641         | 4,523                | 3,058         | 1,389          | 1,465          | 3,118         | 2,409                 | 1,739          | 709            |
| Odors.....                                | 6,412         | 6,454         | 4,109                | 2,780         | 1,148          | 1,328          | 2,345         | 1,868                 | 1,185          | 477            |
| Abandoned buildings.....                  | 4,962         | 5,242         | 2,744                | 1,709         | 885            | 1,035          | 2,498         | 2,014                 | 1,582          | 485            |
| <b>NEIGHBORHOOD SERVICES</b>              |               |               |                      |               |                |                |               |                       |                |                |
| Adequate services.....                    | 36,649        | 33,910        | 20,026               | 14,674        | 5,354          | 5,352          | 13,884        | 11,394                | 7,069          | 2,490          |
| Inadequate services <sup>2</sup> .....    | 35,562        | 41,206        | 28,653               | 16,554        | 4,967          | 12,099         | 12,553        | 8,575                 | 4,699          | 3,978          |
| Percent.....                              | 49.0          | 54.7          | 58.8                 | 52.9          | 43.8           | 69.2           | 47.3          | 42.8                  | 39.8           | 61.3           |
| Public transportation.....                | 26,140        | 26,044        | 19,672               | 10,449        | 1,989          | 9,223          | 6,372         | 3,513                 | 1,153          | 2,859          |
| Hospitals or health clinics.....          | 8,570         | 10,995        | 7,738                | 4,187         | 1,105          | 3,551          | 3,257         | 2,118                 | 1,067          | 1,139          |
| Shopping.....                             | 9,618         | 9,652         | 6,748                | 3,693         | 1,224          | 3,055          | 2,904         | 2,043                 | 1,303          | 861            |
| Police protection.....                    | 6,117         | 6,883         | 4,531                | 2,535         | 993            | 1,996          | 2,352         | 1,754                 | 1,221          | 598            |
| Schools.....                              | 2,592         | 3,324         | 2,317                | 1,491         | 553            | 835            | 1,007         | 736                   | 459            | 272            |
| Fire protection.....                      | 3,092         | (NA)          | (NA)                 | (NA)          | (NA)           | (NA)           | (NA)          | (NA)                  | (NA)           | (NA)           |

NA Not available. <sup>1</sup> Includes respondents who did not report conditions or services. <sup>2</sup> Figures will not add to total because more than one condition or service may be reported for the same unit.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150, Annual Housing Survey, part B, *Indicators of Housing and Neighborhood Quality for the United States and Regions*.

**NO. 1417. EXPENDITURES BY RESIDENTIAL PROPERTY OWNERS FOR IMPROVEMENTS AND MAINTENANCE AND REPAIRS: 1970 TO 1979**

(In millions of dollars, except averages)

| YEAR AND TYPE OF EXPENDITURE                    | All properties | 1-unit properties with owner occupant | Other properties | ADDITIONS AND ALTERATIONS |               |                | Major construction replacements | Maintenance and repairs |
|---|----------------|---------------------------------------|------------------|---------------------------|---------------|----------------|---------------------------------|-------------------------|
|   |                |                                       |                  | Total                     | Residential   | Other property |                                 |                         |
| <b>1970: All properties</b> <sup>1</sup>        | <b>14,770</b>  | <b>9,469</b>                          | <b>5,301</b>     | <b>6,246</b>              | <b>4,950</b>  | <b>1,296</b>   | <b>2,829</b>                    | <b>5,895</b>            |
| Average per property.....                       | \$297          | \$265                                 | (NA)             | (NA)                      | (NA)          | (NA)           | (NA)                            | (NA)                    |
| <b>1975: All properties</b> <sup>1</sup>        | <b>25,239</b>  | <b>15,684</b>                         | <b>9,556</b>     | <b>10,997</b>             | <b>8,815</b>  | <b>2,182</b>   | <b>4,484</b>                    | <b>9,758</b>            |
| Average per property.....                       | \$459          | \$382                                 | \$685            | \$200                     | \$160         | \$40           | \$82                            | \$178                   |
| <b>1978: All properties</b> <sup>1</sup>        | <b>37,461</b>  | <b>24,189</b>                         | <b>13,272</b>    | <b>16,458</b>             | <b>12,156</b> | <b>4,302</b>   | <b>8,094</b>                    | <b>12,909</b>           |
| Average per property.....                       | \$646          | \$562                                 | \$893            | \$284                     | \$210         | \$74           | \$140                           | \$222                   |
| Heating and air-conditioning <sup>2</sup> ..... | 2,868          | 1,934                                 | 934              | 793                       | 793           | (NA)           | 1,332                           | 743                     |
| Plumbing.....                                   | 3,587          | 2,066                                 | 1,521            | 791                       | 791           | (NA)           | 1,292                           | 1,504                   |
| Roofing.....                                    | 3,422          | 2,251                                 | 1,171            | (NA)                      | (NA)          | (NA)           | 2,376                           | 1,046                   |
| Painting.....                                   | 4,783          | 2,636                                 | 2,147            | (NA)                      | (NA)          | (NA)           | (NA)                            | 4,783                   |
| <b>1979: All properties</b> <sup>1</sup>        | <b>42,231</b>  | <b>28,280</b>                         | <b>13,951</b>    | <b>18,285</b>             | <b>12,922</b> | <b>5,363</b>   | <b>8,996</b>                    | <b>14,950</b>           |
| Average per property.....                       | \$712          | \$638                                 | \$954            | \$310                     | \$219         | \$91           | \$153                           | \$253                   |
| Heating and air-conditioning <sup>2</sup> ..... | 3,405          | 2,251                                 | 1,154            | 710                       | 710           | (NA)           | 1,845                           | 850                     |
| Plumbing.....                                   | 3,715          | 2,055                                 | 1,680            | 673                       | 673           | (NA)           | 1,466                           | 1,576                   |
| Roofing.....                                    | 3,976          | 2,536                                 | 1,440            | (NA)                      | (NA)          | (NA)           | 2,604                           | 1,372                   |
| Painting.....                                   | 5,306          | 3,141                                 | 2,165            | (NA)                      | (NA)          | (NA)           | (NA)                            | 5,306                   |

NA Not available. <sup>1</sup> Includes types of expenditures not separately specified. <sup>2</sup> Central air-conditioning.

Source: U.S. Bureau of the Census, *Construction Reports*, series C50.



## NO. 1418. LOW RENT PUBLIC HOUSING—FAMILIES MOVING IN: 1974 TO 1977

[For years ending Sept. 30. See headnote, table 1419. For definition of median, see Guide to Tabular Presentation.]

| CHARACTERISTIC                 | All families <sup>1</sup> | White (non-minority) | Black  | Spanish American | American Indian | Oriental | Percent elderly | Percent receiving aid <sup>2</sup> | Percent with no workers |
|--------------------------------|---------------------------|----------------------|--------|------------------|-----------------|----------|-----------------|------------------------------------|-------------------------|
| Number moving in during—       |                           |                      |        |                  |                 |          |                 |                                    |                         |
| 1974.....                      | 163,235                   | 73,824               | 69,764 | 16,216           | 1,197           | 539      | 32              | 87                                 | 63                      |
| 1975.....                      | 137,036                   | 64,090               | 57,777 | 11,863           | 1,105           | 548      | 36              | 72                                 | 68                      |
| 1976.....                      | 74,175                    | 29,758               | 32,849 | 9,941            | 739             | 416      | 34              | 74                                 | 70                      |
| 1977.....                      | 139,667                   | 61,376               | 60,720 | 13,279           | 1,416           | 1,124    | 33              | 73                                 | 66                      |
| Median:                        |                           |                      |        |                  |                 |          |                 |                                    |                         |
| Age of family head (yr.).....  | 34                        | 48                   | 30     | 33               | 33              | 38       | (x)             | (x)                                | (x)                     |
| Annual income (dol.).....      | 3,651                     | 3,625                | 3,522  | 4,168            | 4,445           | 4,172    | (x)             | (x)                                | (x)                     |
| Monthly gross rent (dol.)..... | 62                        | 63                   | 59     | 71               | 69              | 71       | (x)             | (x)                                | (x)                     |
| Average number of minors.....  | 1.49                      | 1.07                 | 1.78   | 1.98             | 2.07            | 1.94     | (x)             | (x)                                | (x)                     |

X Not applicable. <sup>1</sup> Includes families not shown separately. <sup>2</sup> Includes families receiving benefits.

## NO. 1419. LOW-RENT PUBLIC HOUSING UNITS, BY PROGRESS STAGE: 1960 TO 1979

[In thousands. As of Dec. 31. Includes Puerto Rico and Virgin Islands. Covers units subsidized by HUD under annual contributions contracts. See also *Historical Statistics, Colonial Times to 1970*, series N 186-191]

| YEAR AND PROGRAM           | Total   | Occupied units <sup>1</sup> | Under construction | Other <sup>2</sup> | YEAR AND PROGRAM                  | Total   | Occupied units <sup>1</sup> | Under construction | Other <sup>2</sup> |
|----------------------------|---------|-----------------------------|--------------------|--------------------|-----------------------------------|---------|-----------------------------|--------------------|--------------------|
| 1960.....                  | 593.3   | 478.2                       | 36.4               | 78.8               | 1978.....                         | 1,224.8 | 1,206.8                     | 9.4                | 8.6                |
| Elderly <sup>3</sup> ..... | 18.9    | 1.1                         | 4.1                | 13.7               | Elderly <sup>3</sup> .....        | 309.0   | 304.7                       | 2.3                | 2.0                |
| 1965.....                  | 735.7   | 604.9                       | 42.4               | 88.4               | New construction.....             | 1,065.7 | 1,052.1                     | 7.8                | 5.8                |
| Elderly <sup>3</sup> ..... | 97.7    | 36.2                        | 21.6               | 40.0               | Conventional <sup>4</sup> .....   | 854.0   | 846.3                       | 5.0                | 2.7                |
| 1970.....                  | 1,155.3 | 893.5                       | 126.8              | 135.0              | Turnkey <sup>5</sup> .....        | 211.7   | 205.8                       | 2.8                | 3.1                |
| Elderly <sup>3</sup> ..... | 249.4   | 143.4                       | 65.7               | 40.3               | Acquisition <sup>6</sup> .....    | 41.0    | 36.7                        | 1.6                | 2.7                |
| 1972.....                  | 1,260.2 | 1,055.0                     | 105.9              | 99.3               | Leased housing <sup>7</sup> ..... | 118.1   | 118.0                       | -                  | .1                 |
| Elderly <sup>3</sup> ..... | 316.7   | 232.0                       | 49.1               | 35.6               | New.....                          | 45.2    | 45.1                        | -                  | .1                 |
| 1973.....                  | 1,323.6 | 1,109.1                     | 96.7               | 117.8              | 1979.....                         | 1,332.9 | 1,252.0                     | 22.8               | 58.1               |
| Elderly <sup>3</sup> ..... | 333.9   | 261.8                       | 35.8               | 36.3               | Elderly <sup>3</sup> .....        | 324.0   | 308.6                       | 6.8                | 8.6                |
| 1974.....                  | 1,314.0 | 1,151.0                     | 64.8               | 98.2               | New construction.....             | 1,096.6 | 1,061.3                     | 17.0               | 18.3               |
| Elderly <sup>3</sup> ..... | 327.3   | 265.1                       | 32.3               | 29.9               | Conventional <sup>4</sup> .....   | 863.6   | 851.2                       | 5.6                | 6.8                |
| 1975.....                  | 1,316.7 | 1,180.4                     | 52.9               | 83.4               | Turnkey <sup>5</sup> .....        | 233.0   | 210.1                       | 11.4               | 11.5               |
| Elderly <sup>3</sup> ..... | 336.3   | 288.3                       | 24.3               | 23.7               | Acquisition <sup>6</sup> .....    | 117.0   | 71.4                        | 5.8                | 39.8               |
| 1976.....                  | 1,305.4 | 1,181.5                     | 63.4               | 60.5               | Leased housing <sup>7</sup> ..... | 119.3   | 119.3                       | -                  | -                  |
| Elderly <sup>3</sup> ..... | 321.3   | 293.0                       | 14.9               | 13.4               | New.....                          | 46.4    | 46.4                        | -                  | -                  |
| 1977.....                  | 1,308.8 | 1,187.7                     | 63.6               | 57.5               |                                   |         |                             |                    |                    |
| Elderly <sup>3</sup> ..... | 322.3   | 295.0                       | 15.3               | 12.0               |                                   |         |                             |                    |                    |

- Represents zero. <sup>1</sup> Under management or available for occupancy. <sup>2</sup> To be constructed or to go directly "under management" because no rehabilitation needed. <sup>3</sup> Designed for persons 62 years old or over, disabled, or handicapped. <sup>4</sup> New housing constructed on the Local Housing Authority (LHA) site pursuant to a contract let by the LHA. <sup>5</sup> New housing purchased by the LHA from a private developer upon completion of construction pursuant to an earlier agreement. <sup>6</sup> Existing housing acquired by the LHA. <sup>7</sup> Existing housing leased by LHA from an owner under a contract permitting LHA to sub-lease the units.

Source of tables 1418 and 1419: U.S. Dept. of Housing and Urban Development, *HUD Statistical Yearbook*, and unpublished data.

## NO. 1420. VACANT HOUSING UNITS—PERCENT, BY STATUS: 1975 TO 1979

[Annual averages. See headnote, table 1421. See also *Historical Statistics, Colonial Times to 1970*, series N 247-248]

| STATUS                            | TOTAL |       |       |       | INSIDE SMSA'S |       |       |       | OUTSIDE SMSA'S |       |       |       |
|-----------------------------------|-------|-------|-------|-------|---------------|-------|-------|-------|----------------|-------|-------|-------|
|                                   | 1975  | 1977  | 1978  | 1979  | 1975          | 1977  | 1978  | 1979  | 1975           | 1977  | 1978  | 1979  |
| All units.....                    | 100.0 | 100.0 | 100.0 | 100.0 | 100.0         | 100.0 | 100.0 | 100.0 | 100.0          | 100.0 | 100.0 | 100.0 |
| Occupied.....                     | 91.3  | 91.6  | 91.7  | 91.6  | 92.8          | 93.2  | 93.2  | 93.1  | 88.1           | 88.3  | 88.6  | 88.6  |
| Vacant, seasonal.....             | 2.1   | 2.0   | 2.0   | 2.0   | .9            | .8    | .7    | .7    | 4.6            | 4.5   | 4.7   | 4.6   |
| Vacant, year-round.....           | 6.6   | 6.4   | 6.3   | 6.4   | 6.3           | 6.0   | 6.1   | 6.2   | 7.3            | 7.2   | 6.7   | 6.8   |
| For rent.....                     | 2.1   | 1.8   | 1.7   | 1.7   | 2.4           | 2.1   | 2.0   | 1.9   | 1.5            | 1.3   | 1.1   | 1.2   |
| For sale only.....                | .7    | .7    | .6    | .7    | .8            | .6    | .5    | .6    | .7             | .9    | .8    | .8    |
| Rented or sold <sup>1</sup> ..... | .7    | .8    | .8    | .8    | .7            | .9    | .9    | .9    | .5             | .6    | .6    | .6    |
| Held off market.....              | 3.1   | 3.1   | 3.2   | 3.2   | 2.4           | 2.4   | 2.7   | 2.8   | 4.6            | 4.4   | 4.2   | 4.2   |
| Occasional use.....               | .8    | .9    | .8    | .8    | .5            | .5    | .6    | .6    | 1.6            | 1.6   | 1.4   | 1.4   |

<sup>1</sup> Awaiting occupancy.Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-111.

## NO. 1421. VACANCY RATES FOR HOUSING UNITS—CHARACTERISTICS: 1975 TO 1979

[In percent. Annual averages. Based on Current Population Survey and Quarterly Household Survey. Rate is relationship between vacant housing for rent or for sale and the total rental and homeowner supply, which comprises occupied units, units rented or sold and awaiting occupancy; and vacant units available for rent or sale. For composition of regions, see fig. 1, inside front cover. See headnote, table 1404 concerning SMSA's. See also *Historical Statistics, Colonial Times to 1970*, series N 249-258]

| RENTAL UNITS                       |            |            |            |            | HOMEOWNER UNITS                    |            |            |            |            |
|------------------------------------|------------|------------|------------|------------|------------------------------------|------------|------------|------------|------------|
|                                    | 1975       | 1977       | 1978       | 1979       |                                    | 1975       | 1977       | 1978       | 1979       |
| <b>Total rental units.....</b>     | <b>6.0</b> | <b>5.2</b> | <b>5.0</b> | <b>5.0</b> | <b>Total homeowner units.....</b>  | <b>1.2</b> | <b>1.2</b> | <b>1.0</b> | <b>1.1</b> |
| Inside SMSA's.....                 | 6.1        | 5.3        | 5.2        | 5.0        | Inside SMSA's.....                 | 1.3        | 1.0        | 1.0        | 1.1        |
| Outside SMSA's.....                | 5.7        | 5.2        | 4.5        | 4.9        | Outside SMSA's.....                | 1.1        | 1.4        | 1.2        | 1.1        |
| Northeast.....                     | 4.1        | 5.1        | 4.8        | 4.0        | Northeast.....                     | 1.0        | .9         | .8         | .9         |
| North Central.....                 | 5.7        | 5.1        | 4.8        | 5.1        | North Central.....                 | 1.0        | .9         | 1.0        | 1.1        |
| South.....                         | 7.7        | 5.7        | 5.5        | 5.8        | South.....                         | 1.5        | 1.7        | 1.3        | 1.1        |
| West.....                          | 6.2        | 5.0        | 4.8        | 4.9        | West.....                          | 1.5        | .9         | 1.0        | 1.3        |
| Units in structure: 1 unit.....    | 3.6        | 3.1        | 3.1        | 3.1        | Units in structure: 1 unit.....    | 1.0        | .9         | .9         | 1.0        |
| 2 or more.....                     | 7.3        | 6.4        | 6.1        | 5.9        | 2 or more.....                     | 5.4        | 5.4        | 3.2        | 3.8        |
| 5 or more.....                     | 8.3        | 7.1        | 6.7        | 6.6        | 5 or more.....                     | 14.4       | 16.3       | 9.2        | 6.1        |
| Units with: 3 rooms or less.....   | 8.4        | 7.7        | 6.9        | 7.0        | Units with: 3 rooms or less.....   | 3.5        | 5.1        | 3.0        | 4.0        |
| 4 rooms.....                       | 5.8        | 4.7        | 4.8        | 4.6        | 4 rooms.....                       | 2.1        | 2.2        | 1.3        | 1.4        |
| 5 rooms.....                       | 4.6        | 4.6        | 3.8        | 3.9        | 5 rooms.....                       | 1.1        | 1.0        | 1.1        | 1.2        |
| 6 rooms or more.....               | 3.3        | 2.8        | 3.2        | 3.0        | 6 rooms or more.....               | 1.0        | .9         | .9         | 1.0        |
| Monthly rent: Less than \$60.....  | 5.5        | 4.4        | 4.0        | 3.9        | Value: Less than \$10,000.....     | 1.4        | 1.2        | 1.5        | 1.8        |
| \$60-\$79.....                     | 5.7        | 5.5        | 5.0        | 3.7        | \$10,000-\$19,999.....             | 1.0        | .9         | .9         | .9         |
| \$80-\$99.....                     | 4.6        | 5.3        | 5.0        | 4.5        | \$20,000-\$24,999.....             | .9         | .6         | .7         | .8         |
| \$100 or more.....                 | 6.7        | 5.4        | 5.2        | 5.1        | \$25,000 or more.....              | 1.4        | .9         | .9         | 1.0        |
| Year built: 1960 or later.....     | 8.3        | 5.6        | 6.0        | 5.8        | Year built: 1960 or later.....     | 2.2        | 1.6        | 1.2        | 1.4        |
| 1965 or later.....                 | 9.0        | 5.8        | 6.2        | 6.0        | 1965 or later.....                 | 2.7        | 2.0        | 1.4        | 1.6        |
| 1940-1959.....                     | 4.8        | 4.2        | 3.5        | 4.1        | 1940-1959.....                     | .5         | .7         | .6         | .6         |
| 1939 or earlier.....               | 5.4        | 5.7        | 5.5        | 5.0        | 1939 or earlier.....               | 1.1        | 1.2        | 1.3        | 1.4        |
| Plumbing: With all facilities..... | 5.9        | 5.0        | 4.8        | 4.7        | Plumbing: With all facilities..... | 1.3        | 1.1        | 1.0        | 1.1        |
| Lacking facilities.....            | 11.2       | 12.4       | 12.0       | 12.9       | Lacking facilities.....            | 2.0        | 3.4        | 2.9        | 4.6        |

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-111.

## NO. 1422. NEW APARTMENTS COMPLETED AND RENTED IN 3 MONTHS: 1974 TO 1979

[1979 data are preliminary. Structures with 5 or more units, privately financed, nonsubsidized, unfurnished apartments. Based on sample and subject to sampling variability. For definition of median, see Guide to Tabular Presentation]

| CHARACTERISTIC             | NUMBER (1,000) |            |            |            |            |            | PERCENT RENTED IN 3 MONTHS |           |           |           |           |           |
|----------------------------|----------------|------------|------------|------------|------------|------------|----------------------------|-----------|-----------|-----------|-----------|-----------|
|                            | 1974           | 1975       | 1976       | 1977       | 1978       | 1979       | 1974                       | 1975      | 1976      | 1977      | 1978      | 1979      |
| <b>Total.....</b>          | <b>406</b>     | <b>223</b> | <b>157</b> | <b>196</b> | <b>229</b> | <b>240</b> | <b>68</b>                  | <b>70</b> | <b>80</b> | <b>80</b> | <b>82</b> | <b>82</b> |
| Rent: Under \$150.....     | 33.6           | 14.7       | 6.8        | 6.4        | 3.6        | 2.6        | 83                         | 79        | 84        | 85        | 89        | 93        |
| \$150-\$174.....           | 81.7           | 34.7       | 14.4       | 14.5       | 13.1       | 6.3        | 75                         | 77        | 82        | 75        | 82        | 96        |
| \$175-\$199.....           | 101.6          | 47.6       | 35.0       | 30.4       | 25.2       | 15.1       | 70                         | 74        | 82        | 84        | 81        | 85        |
| \$200-\$249.....           | 111.4          | 63.8       | 56.9       | 72.5       | 71.6       | 66.1       | 65                         | 73        | 80        | 83        | 84        | 84        |
| \$250 or more.....         | 77.4           | 62.1       | 43.9       | 71.8       | 115.2      | 149.9      | 56                         | 58        | 79        | 77        | 80        | 80        |
| Bedrooms: Less than 2..... | 184.5          | 101.3      | 75.1       | 87.8       | 112.6      | 119.4      | 72                         | 73        | 86        | 83        | 84        | 84        |
| 2.....                     | 197.0          | 109.0      | 74.5       | 100.6      | 107.8      | 112.0      | 65                         | 68        | 77        | 79        | 80        | 84        |
| 3 or more.....             | 24.2           | 12.7       | 7.4        | 7.3        | 8.3        | 8.6        | 57                         | 63        | 59        | 77        | 77        | 86        |

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-130, and unpublished data.

## NO. 1423. EXISTING ONE-FAMILY HOUSES SOLD AND PRICE, BY REGION: 1970 TO 1979

[Based on data (adjusted and aggregated to regional and national totals) reported by participating real estate multiple listing services. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. 1, inside front cover]

| REGION                              | Unit                | 1970         | 1971         | 1972         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978         | 1979         |
|-------------------------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Houses sold, U.S.....</b>        | <b>1,000.....</b>   | <b>1,612</b> | <b>2,018</b> | <b>2,252</b> | <b>2,334</b> | <b>2,272</b> | <b>2,452</b> | <b>3,002</b> | <b>3,547</b> | <b>3,863</b> | <b>3,701</b> |
| Northeast.....                      | 1,000.....          | 251          | 311          | 361          | 367          | 354          | 377          | 458          | 480          | 494          | 504          |
| North Central.....                  | 1,000.....          | 501          | 583          | 630          | 674          | 645          | 685          | 843          | 1,110        | 1,132        | 1,050        |
| South.....                          | 1,000.....          | 568          | 735          | 788          | 847          | 839          | 899          | 1,110        | 1,254        | 1,495        | 1,427        |
| West.....                           | 1,000.....          | 292          | 389          | 473          | 446          | 434          | 491          | 591          | 703          | 741          | 720          |
| <b>Median sales price, U.S.....</b> | <b>\$1,000.....</b> | <b>23.0</b>  | <b>24.8</b>  | <b>26.7</b>  | <b>28.9</b>  | <b>32.0</b>  | <b>35.3</b>  | <b>38.1</b>  | <b>42.5</b>  | <b>48.7</b>  | <b>55.7</b>  |
| Northeast.....                      | \$1,000.....        | 25.2         | 27.1         | 29.8         | 32.8         | 35.8         | 39.3         | 41.8         | 44.4         | 47.9         | 53.6         |
| North Central.....                  | \$1,000.....        | 20.1         | 22.1         | 23.9         | 25.3         | 27.7         | 30.1         | 32.9         | 36.7         | 42.2         | 47.8         |
| South.....                          | \$1,000.....        | 22.2         | 24.3         | 26.4         | 29.0         | 32.3         | 34.8         | 36.5         | 39.8         | 45.1         | 51.3         |
| West.....                           | \$1,000.....        | 24.3         | 26.5         | 28.4         | 31.0         | 34.8         | 39.6         | 46.1         | 57.3         | 66.7         | 77.4         |

Source: National Association of REALTORS®, Washington, D.C., *Existing Home Sales*, monthly. (Copyright.)

**NO. 1424. NEW PRIVATE ONE-FAMILY HOUSES SOLD, BY REGION, TYPE OF FINANCING, AND  
SALES PRICE: 1970 TO 1979**

(In thousands. Based on a national probability sample of monthly interviews with builders or owners of 1-family houses for which building permits have been issued or, for nonpermit areas, on which construction has started. For details, see source. For composition of regions, see fig. 1, inside front cover)

| YEAR AND SALES PRICE GROUP | NUMBER SOLD        |            |               |            |            | PERCENT SOLD       |            |               |            |            | FINANCING TYPE            |            |
|----------------------------|--------------------|------------|---------------|------------|------------|--------------------|------------|---------------|------------|------------|---------------------------|------------|
|                            | Total <sup>1</sup> | North-east | North Central | South      | West       | Total <sup>1</sup> | North-east | North Central | South      | West       | Conventional <sup>2</sup> | FHA and VA |
| <b>1970</b> .....          | <b>485</b>         | <b>61</b>  | <b>100</b>    | <b>203</b> | <b>121</b> | <b>100</b>         | <b>100</b> | <b>100</b>    | <b>100</b> | <b>100</b> | <b>202</b>                | <b>232</b> |
| Under \$35,000.....        | 394                | 38         | 77            | 178        | 100        | 81                 | 62         | 77            | 88         | 83         | 127                       | 224        |
| Under \$20,000.....        | 169                | 10         | 20            | 99         | 38         | 35                 | 16         | 20            | 49         | 31         | 31                        | 122        |
| \$20,000-\$29,999.....     | 178                | 20         | 47            | 62         | 49         | 37                 | 33         | 47            | 31         | 40         | 65                        | 92         |
| \$30,000-\$34,999.....     | 47                 | 8          | 9             | 17         | 13         | 10                 | 13         | 9             | 8          | 11         | 31                        | 10         |
| \$35,000 and over.....     | 92                 | 23         | 22            | 26         | 21         | 19                 | 38         | 22            | 13         | 17         | 75                        | 7          |
| \$35,000-\$39,999.....     | 35                 | 7          | 8             | 10         | 9          | 7                  | 11         | 8             | 5          | 7          | (NA)                      | (NA)       |
| \$40,000-\$49,999.....     | 37                 | 10         | 9             | 10         | 7          | 8                  | 16         | 9             | 5          | 6          | (NA)                      | (NA)       |
| \$50,000 and over.....     | 20                 | 5          | 5             | 5          | 5          | 4                  | 8          | 5             | 2          | 4          | (NA)                      | (NA)       |
| <b>1975</b> .....          | <b>549</b>         | <b>71</b>  | <b>106</b>    | <b>222</b> | <b>150</b> | <b>100</b>         | <b>100</b> | <b>100</b>    | <b>100</b> | <b>100</b> | <b>363</b>                | <b>122</b> |
| Under \$35,000.....        | 190                | 18         | 35            | 93         | 45         | 35                 | 25         | 33            | 42         | 30         | 72                        | 57         |
| Under \$20,000.....        | 110                | 9          | 17            | 60         | 24         | 20                 | 13         | 16            | 27         | 16         | 29                        | 37         |
| \$20,000-\$29,999.....     | 80                 | 9          | 18            | 33         | 21         | 15                 | 13         | 17            | 15         | 14         | 42                        | 30         |
| \$30,000-\$34,999.....     | 359                | 52         | 72            | 128        | 106        | 65                 | 73         | 68            | 58         | 71         | 291                       | 54         |
| \$35,000 and over.....     | 98                 | 10         | 20            | 40         | 28         | 18                 | 14         | 19            | 18         | 19         | 67                        | 28         |
| \$35,000-\$39,999.....     | 127                | 18         | 25            | 47         | 37         | 23                 | 25         | 24            | 21         | 25         | 101                       | 22         |
| \$40,000-\$49,999.....     | 65                 | 12         | 13            | 20         | 20         | 12                 | 17         | 12            | 9          | 13         | 59                        | 3          |
| \$50,000-\$59,999.....     | 69                 | 12         | 14            | 21         | 21         | 13                 | 17         | 13            | 9          | 14         | 64                        | (s)        |
| \$60,000 and over.....     |                    |            |               |            |            |                    |            |               |            |            |                           |            |
| <b>1977</b> .....          | <b>619</b>         | <b>86</b>  | <b>162</b>    | <b>317</b> | <b>255</b> | <b>100</b>         | <b>100</b> | <b>100</b>    | <b>100</b> | <b>100</b> | <b>592</b>                | <b>166</b> |
| Under \$35,000.....        | 130                | 13         | 18            | 72         | 28         | 16                 | 15         | 11            | 23         | 11         | 51                        | 50         |
| \$35,000 and over.....     | 689                | 73         | 143           | 244        | 228        | 84                 | 85         | 88            | 77         | 89         | 542                       | 117        |
| \$35,000-\$39,999.....     | 102                | 8          | 17            | 50         | 27         | 12                 | 9          | 10            | 16         | 11         | 61                        | 36         |
| \$40,000-\$49,999.....     | 200                | 19         | 40            | 84         | 57         | 24                 | 22         | 25            | 26         | 22         | 140                       | 51         |
| \$50,000-\$59,999.....     | 149                | 18         | 34            | 50         | 47         | 18                 | 21         | 21            | 16         | 18         | 123                       | 19         |
| \$60,000-\$74,999.....     | 123                | 16         | 31            | 35         | 40         | 15                 | 19         | 19            | 11         | 16         | 109                       | 9          |
| \$75,000 and over.....     | 115                | 12         | 21            | 25         | 57         | 14                 | 14         | 13            | 8          | 22         | 108                       | 3          |
| <b>1978</b> .....          | <b>617</b>         | <b>78</b>  | <b>145</b>    | <b>331</b> | <b>262</b> | <b>100</b>         | <b>100</b> | <b>100</b>    | <b>100</b> | <b>100</b> | <b>575</b>                | <b>173</b> |
| Under \$35,000.....        | 65                 | 5          | 8             | 42         | 11         | 8                  | 6          | 5             | 13         | 4          | 21                        | 20         |
| \$35,000 and over.....     | 751                | 73         | 138           | 289        | 251        | 92                 | 94         | 95            | 87         | 96         | 554                       | 153        |
| \$35,000-\$39,999.....     | 76                 | 8          | 10            | 38         | 21         | 9                  | 10         | 7             | 11         | 9          | 37                        | 31         |
| \$40,000-\$49,999.....     | 175                | 14         | 28            | 84         | 48         | 21                 | 18         | 20            | 25         | 18         | 107                       | 56         |
| \$50,000-\$59,999.....     | 156                | 14         | 29            | 66         | 47         | 19                 | 18         | 20            | 20         | 18         | 110                       | 39         |
| \$60,000-\$74,999.....     | 157                | 18         | 34            | 54         | 52         | 19                 | 23         | 23            | 16         | 20         | 128                       | 22         |
| \$75,000-\$99,999.....     | 119                | 13         | 25            | 33         | 48         | 15                 | 17         | 17            | 10         | 18         | 109                       | 5          |
| \$100,000 and over.....    | 69                 | 6          | 11            | 15         | 37         | 8                  | 8          | 8             | 4          | 14         | 64                        | (s)        |
| <b>1979</b> .....          | <b>709</b>         | <b>67</b>  | <b>112</b>    | <b>304</b> | <b>225</b> | <b>100</b>         | <b>100</b> | <b>100</b>    | <b>100</b> | <b>100</b> | <b>469</b>                | <b>186</b> |
| Under \$35,000.....        | 33                 | (s)        | 3             | 27         | 2          | 5                  | (s)        | 3             | 9          | 1          | 9                         | 9          |
| \$35,000 and over.....     | 675                | 66         | 109           | 277        | 222        | 95                 | 98         | 97            | 91         | 99         | 460                       | 177        |
| \$35,000-\$39,999.....     | 41                 | 4          | 5             | 23         | 9          | 6                  | 6          | 4             | 7          | 4          | 15                        | 20         |
| \$40,000-\$49,999.....     | 110                | 11         | 18            | 55         | 28         | 16                 | 16         | 16            | 18         | 13         | 55                        | 48         |
| \$50,000-\$59,999.....     | 135                | 12         | 22            | 64         | 37         | 19                 | 17         | 19            | 21         | 17         | 76                        | 50         |
| \$60,000-\$74,999.....     | 158                | 16         | 28            | 64         | 50         | 22                 | 24         | 25            | 21         | 22         | 109                       | 43         |
| \$75,000-\$99,999.....     | 132                | 16         | 20            | 45         | 50         | 19                 | 23         | 18            | 15         | 22         | 112                       | 14         |
| \$100,000 and over.....    | 100                | 8          | 17            | 26         | 48         | 14                 | 13         | 15            | 9          | 22         | 92                        | 2          |

NA Not available. S Estimate does not meet publication standards. <sup>1</sup> Includes types of financing not shown separately. <sup>2</sup> 1970 includes houses financed by Farmers Home Administration. <sup>3</sup> VA only.

**NO. 1425. MEDIAN SALES PRICE OF NEW PRIVATE ONE-FAMILY HOUSES SOLD, BY REGION: 1965  
TO 1979**

(In dollars. See headnote, table 1424. For definition of median, see Guide to Tabular Presentation)

| YEAR      | U.S.   | North-east | North Central | South  | West   | YEAR                    | U.S.   | North-east | North Central | South  | West   |
|-----------|--------|------------|---------------|--------|--------|-------------------------|--------|------------|---------------|--------|--------|
| 1965..... | 20,000 | 21,500     | 21,600        | 17,500 | 21,600 | 1973.....               | 32,500 | 37,100     | 32,900        | 30,900 | 32,400 |
| 1967..... | 22,700 | 25,400     | 25,100        | 19,400 | 24,100 | 1974.....               | 35,900 | 40,100     | 36,100        | 34,500 | 35,800 |
| 1968..... | 24,700 | 27,700     | 27,400        | 21,500 | 25,100 | 1975.....               | 39,300 | 44,000     | 39,600        | 37,300 | 40,600 |
| 1969..... | 25,600 | 31,600     | 27,600        | 22,800 | 25,300 | 1976.....               | 44,200 | 47,300     | 44,800        | 40,500 | 47,200 |
| 1970..... | 23,400 | 30,300     | 24,400        | 20,300 | 24,000 | 1977.....               | 48,800 | 51,600     | 51,500        | 44,100 | 53,500 |
| 1971..... | 25,200 | 30,600     | 27,200        | 22,500 | 25,500 | 1978.....               | 55,700 | 58,100     | 59,200        | 50,300 | 61,300 |
| 1972..... | 27,600 | 31,400     | 29,300        | 25,800 | 27,500 | 1979 <sup>1</sup> ..... | 62,900 | 65,500     | 63,900        | 57,300 | 66,600 |

<sup>1</sup> 1980, U.S. total: 1st qtr., \$63,500, 2d qtr., \$64,600.

Source of tables 1424 and 1425: U.S. Bureau of the Census, *Construction Reports*, series C25, *Characteristics of New Housing*, annual, and *New One-Family Houses Sold and For Sale*, monthly.

## NO. 1426. PRICE INDEX—NEW ONE-FAMILY HOUSES SOLD, BY REGION: 1965 TO 1980

[1972 = 100. Based on fixed proportions of ten characteristics of new houses sold in 1974. For composition of regions, see fig. 1, inside front cover]

| YEAR      | U.S.  | North-east | North Central | South | West  | YEAR AND QUARTER   | U.S.  | North-east | North Central | South | West  |
|-----------|-------|------------|---------------|-------|-------|--------------------|-------|------------|---------------|-------|-------|
| 1965..... | 71.2  | 62.2       | 70.6          | 71.1  | 75.9  | 1974.....          | 119.1 | 118.3      | 115.8         | 115.2 | 126.3 |
| 1966..... | 74.2  | 66.8       | 74.7          | 74.3  | 78.2  | 1975.....          | 131.0 | 128.3      | 126.8         | 125.7 | 141.7 |
| 1967..... | 76.4  | 69.1       | 77.7          | 75.8  | 79.4  | 1976.....          | 142.0 | 133.5      | 138.1         | 134.6 | 157.3 |
| 1968..... | 80.3  | 75.8       | 82.4          | 79.0  | 81.7  | 1977.....          | 159.6 | 142.2      | 153.8         | 147.7 | 186.7 |
| 1969..... | 86.5  | 82.7       | 90.5          | 84.5  | 88.9  | 1978.....          | 182.1 | 157.3      | 175.8         | 165.3 | 221.6 |
| 1970..... | 89.1  | 88.2       | 90.7          | 87.5  | 90.3  | 1979.....          | 207.3 | 179.1      | 194.1         | 189.7 | 254.7 |
| 1971..... | 93.9  | 93.6       | 94.1          | 94.2  | 93.3  | 1980, 1st qtr..... | 220.5 | (NA)       | (NA)          | (NA)  | (NA)  |
| 1973..... | 108.9 | 108.4      | 107.7         | 106.9 | 112.7 | 2d qtr.....        | 228.5 | (NA)       | (NA)          | (NA)  | (NA)  |

NA Not available.

Source: U.S. Bureau of the Census, *Construction Reports*, series C27, quarterly.

## NO. 1427. MORTGAGE STATUS OF NONFARM DWELLING UNITS: 1940 TO 1978

[In millions, except percent. Prior to 1960, excludes Alaska and Hawaii. For 1940 and 1950, mortgage data are for owner-occupied dwelling units in 1- to 4-dwelling unit structures without business; for 1960, for properties with 1- to 4-dwelling units, and for 1971-1978, for properties with 1 housing unit. See also *Historical Statistics, Colonial Times to 1970*, series N 302-307]

| ITEM                           | 1940 | 1950 | 1960 | 1971 | 1974 | 1975 | 1976 | 1977 | 1978 |
|--------------------------------|------|------|------|------|------|------|------|------|------|
| Owner occupied units.....      | 11.4 | 19.8 | 27.9 | 33.2 | 36.2 | 37.2 | 37.9 | 38.8 | 40.1 |
| Reporting mortgage status..... | 10.6 | 17.8 | 27.9 | 33.2 | 36.2 | 37.2 | 37.9 | 38.8 | 40.1 |
| Mortgaged.....                 | 4.8  | 7.8  | 15.8 | 20.1 | 23.0 | 23.4 | 24.1 | 24.9 | 25.6 |
| Percent.....                   | 45.3 | 44.0 | 56.8 | 60.6 | 63.5 | 63.0 | 63.5 | 64.2 | 63.9 |
| Not mortgaged.....             | 5.8  | 10.0 | 12.0 | 13.1 | 13.2 | 13.8 | 13.8 | 13.9 | 14.5 |

Source: U.S. Bureau of the Census, *Census of Housing: 1950*, vol. I; *1960 and 1970*, vol. V; and *Current Housing Reports*, series H-150, Annual Housing Survey, part C, *Financial Characteristics of the Housing Inventory for the United States and Regions*.

## NO. 1428. VOLUME OF LONG-TERM MORTGAGE LOANS ORIGINATED, BY TYPE OF PROPERTY, 1970 TO 1979, AND BY LENDER, 1979

[In billions of dollars. Covers credit extended in primary mortgage markets for financing real estate acquisitions]

| TYPE OF PROPERTY             | 1970        | 1974         | 1975         | 1976         | 1977         | 1978         | 1979, BY LENDER    |                  |                    |                |                        |                  |
|------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------------|------------------|--------------------|----------------|------------------------|------------------|
|                              |             |              |              |              |              |              | Total <sup>1</sup> | Savings and loan | Com-mer-cial banks | Mort-gage cos. | Fed'l credit agen-cies | Mut-ual sav-ings |
| <b>Loans, total.....</b>     | <b>59.8</b> | <b>111.4</b> | <b>120.7</b> | <b>161.6</b> | <b>229.2</b> | <b>257.2</b> | <b>257.5</b>       | <b>92.3</b>      | <b>62.1</b>        | <b>53.4</b>    | <b>17.2</b>            | <b>11.1</b>      |
| 1-4 unit family home.....    | 35.6        | 67.5         | 77.9         | 112.8        | 162.0        | 185.0        | 187.1              | 82.8             | 41.4               | 45.2           | 4.4                    | 9.0              |
| New units.....               | 12.6        | 24.1         | 24.6         | 32.2         | 46.4         | 58.0         | 60.7               | 28.1             | 11.6               | 16.3           | 1.9                    | 1.6              |
| Existing units.....          | 23.0        | 43.4         | 53.3         | 80.6         | 115.6        | 127.0        | 126.4              | 54.7             | 29.8               | 28.9           | 2.5                    | 7.4              |
| Multifamily residential..... | 8.8         | 12.3         | 10.7         | 12.3         | 15.8         | 16.4         | 15.2               | 4.9              | 2.0                | 2.0            | 2.6                    | .9               |
| New units.....               | 7.0         | 8.4          | 5.8          | 4.5          | 5.6          | 6.8          | 7.8                | 1.7              | .7                 | 1.0            | 2.4                    | .3               |
| Existing units.....          | 1.8         | 3.9          | 4.9          | 7.8          | 10.2         | 9.6          | 7.4                | 3.2              | 1.3                | 1.0            | .2                     | .6               |
| Non-residential.....         | 12.5        | 24.0         | 24.2         | 27.1         | 39.1         | 42.7         | 40.4               | 4.5              | 16.5               | 6.1            | .7                     | 1.2              |
| Farm properties.....         | 3.0         | 7.7          | 7.9          | 9.5          | 12.3         | 13.1         | 14.8               | .1               | 2.2                | -              | 9.4                    | -                |

- Represents zero. <sup>1</sup> Includes life insurance companies and other lenders not shown separately.

Source: U.S. Dept. of Housing and Urban Development, *The Survey of Mortgage Lending Activity, 1970-1979*.

## NO. 1429. RESIDENTIAL LOANS UNDERWRITTEN BY FHA: 1960 TO 1979

[In millions of dollars. Figures are gross amount of insurance written; do not take account of principal repayments on previously insured loans. See also *Historical Statistics, Colonial Times to 1970*, series N 291-297]

| LOAN  | 1960         | 1965         | 1970             | 1973             | 1974             | 1975             | 1976               | 1977               | 1978               | 1979               |
|---|--------------|--------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|
| <b>FHA-insured loans.....</b>                 | <b>6,293</b> | <b>8,689</b> | <b>11,982</b>    | <b>7,592</b>     | <b>5,903</b>     | <b>7,941</b>     | <b>9,746</b>       | <b>13,000</b>      | <b>16,098</b>      | <b>22,848</b>      |
| Home mortgages: New properties.....           | 2,197        | 1,705        | 2,667            | 1,675            | 752              | 1,149            | 1,087              | 1,664              | 1,881              | 3,409              |
| Existing properties.....                      | 2,403        | 5,760        | 5,447            | 2,798            | 3,182            | 5,017            | 5,275              | 7,177              | 9,259              | 14,758             |
| Project type mortgages.....                   | 711          | 591          | 3,251            | 2,286            | 1,213            | 976              | 2,315              | 2,818              | 3,270              | 2,719              |
| Property improvement loans <sup>1</sup> ..... | 982          | 634          | <sup>2</sup> 617 | <sup>2</sup> 832 | <sup>2</sup> 756 | <sup>2</sup> 799 | <sup>2</sup> 1,071 | <sup>2</sup> 1,341 | <sup>2</sup> 1,688 | <sup>2</sup> 1,962 |

<sup>1</sup> Not ordinarily secured by mortgages.

<sup>2</sup> Includes mobile home loans.

Source: U.S. Dept. of Housing and Urban Development, *HUD Statistical Yearbook*.

### NO. 1430. CHARACTERISTICS OF CONVENTIONAL FIRST MORTGAGE LOANS FOR PURCHASE OF SINGLE-FAMILY HOMES: 1975 TO 1980

[Annual averages, except as indicated. Refers to loans originated directly (rather than through correspondents) by savings and loan associations, mortgage companies, commercial banks, and mutual savings banks]

| LOAN CHARACTERISTIC                      | Unit         | NEW HOMES |      |      |      |      |            | EXISTING HOMES |      |      |      |      |            |
|--|--------------|-----------|------|------|------|------|------------|----------------|------|------|------|------|------------|
|  |              | 1975      | 1976 | 1977 | 1978 | 1979 | 1980, June | 1975           | 1976 | 1977 | 1978 | 1979 | 1980, June |
| Contract interest rate.....              | Percent..... | 8.75      | 8.76 | 8.80 | 9.30 | 11.3 | 12.2       | 9.01           | 8.92 | 8.83 | 9.37 | 11.6 | 12.9       |
| Initial fees, charges <sup>1</sup> ..... | Percent..... | 1.54      | 1.44 | 1.33 | 1.39 | 1.85 | 2.21       | 1.19           | 1.17 | 1.17 | 1.26 | 1.64 | 2.05       |
| Term to maturity.....                    | Years.....   | 26.8      | 27.2 | 27.9 | 28.0 | 28.8 | 28.4       | 24.0           | 24.5 | 25.8 | 26.4 | 26.9 | 26.5       |
| Loan to price ratio.....                 | Percent..... | 76.1      | 75.8 | 76.3 | 75.3 | 72.9 | 58.0       | 73.4           | 73.8 | 75.1 | 75.1 | 73.6 | 71.8       |
| Purchase price.....                      | \$1,000..... | 44.6      | 48.4 | 54.3 | 62.6 | 79.4 | 81.3       | 38.2           | 41.3 | 47.5 | 54.2 | 64.7 | 64.2       |

<sup>1</sup> Rate applies to any general or specific charges paid by borrower or seller, in order to obtain a loan, except those for mortgage, credit, life, or property insurance; for property transfer; and for title search and insurance.

Source: U.S. Federal Home Loan Bank Board, monthly news releases.

### NO. 1431. ONE-FAMILY HOMES, FHA-INSURED MORTGAGES: 1974 TO 1979

[Data for sec. 203(b) of National Housing Act only. For definition of median, see Guide to Tabular Presentation]

| CHARACTERISTIC                            | Unit         | NEW HOMES |      |      |      |      |      | EXISTING HOMES |      |      |      |      |      |
|---|--------------|-----------|------|------|------|------|------|----------------|------|------|------|------|------|
|   |              | 1974      | 1975 | 1976 | 1977 | 1978 | 1979 | 1974           | 1975 | 1976 | 1977 | 1978 | 1979 |
| Avg. mo., occupant expenses:              |              |           |      |      |      |      |      |                |      |      |      |      |      |
| Real estate taxes.....                    | Dol.....     | 40        | 49   | 54   | 56   | 56   | 57   | 35             | 40   | 40   | 41   | 44   | 43   |
| Maintenance and repair.....               | Dol.....     | 19        | 22   | 24   | 24   | 23   | 29   | 16             | 20   | 21   | 22   | 24   | 28   |
| Heating and utilities.....                | Dol.....     | 36        | 42   | 46   | 54   | 61   | 68   | 36             | 43   | 48   | 53   | 60   | 68   |
| Avg. purchase transactions:               |              |           |      |      |      |      |      |                |      |      |      |      |      |
| Total acquisition cost <sup>1</sup> ..... | \$1,000..... | 27.4      | 33.0 | 35.3 | 37.2 | 41.5 | 50.3 | 22.2           | 26.9 | 27.4 | 29.2 | 34.0 | 39.4 |
| Closing costs.....                        | Dol.....     | 584       | 672  | 706  | 701  | 772  | 856  | 538            | 606  | 614  | 660  | 761  | 846  |
| Market price of site <sup>2</sup> .....   | \$1,000..... | 5.5       | 6.4  | 7.0  | 7.3  | 7.7  | 9.8  | 4.5            | 5.5  | 5.6  | 5.8  | 6.9  | 8.1  |
| Median value and cost:                    |              |           |      |      |      |      |      |                |      |      |      |      |      |
| Amount of mortgage.....                   | \$1,000..... | 24.1      | 29.7 | 32.2 | 34.0 | 37.3 | 45.0 | 20.2           | 24.6 | 25.4 | 27.1 | 30.9 | 35.4 |
| Estimated value.....                      | \$1,000..... | 26.8      | 32.5 | 35.2 | 37.2 | 41.1 | 50.4 | 22.0           | 26.2 | 26.8 | 28.9 | 33.0 | 39.4 |
| Loan/value ratio.....                     | Percent..... | 91.5      | 92.8 | 92.9 | 92.0 | 93.0 | 93.5 | 93.7           | 94.9 | 95.1 | 94.8 | 95.5 | 95.1 |
| Income of occupant <sup>3</sup> .....     | \$1,000..... | 13.9      | 17.1 | 18.2 | 18.8 | 20.4 | 24.3 | 13.2           | 15.5 | 15.9 | 16.6 | 18.3 | 21.2 |
| Mo. mortgage payment.....                 | Dol.....     | 236       | 284  | 318  | 329  | 369  | 469  | 202            | 245  | 255  | 280  | 300  | 368  |
| Term of mortgage.....                     | Years.....   | 30.0      | 30.0 | 30.0 | 29.9 | 29.9 | 29.9 | 29.0           | 29.3 | 29.4 | 29.4 | 29.5 | 29.5 |

<sup>1</sup> Sales price plus closing costs.

if any, for site. <sup>3</sup> Annual.

<sup>2</sup> Includes street improvements or utilities, rough grading, terracing and retaining walls.

Source: U.S. Dept. of Housing and Urban Development, HUD Statistical Yearbook.

### NO. 1432. HOME LOANS GUARANTEED AND INSURED BY VA: 1974 TO 1979

[Based on complete count of primary loans closed for conventionally built homes. See also table 651]

| LOAN CHARACTERISTICS        | NEW HOMES |      |      |      |      |      | EXISTING HOMES |      |      |      |      |      |
|-----------------------------|-----------|------|------|------|------|------|----------------|------|------|------|------|------|
|                             | 1974      | 1975 | 1976 | 1977 | 1978 | 1979 | 1974           | 1975 | 1976 | 1977 | 1978 | 1979 |
| Average loan (\$1,000)..... | 29.4      | 32.9 | 35.7 | 39.6 | 44.0 | 51.5 | 25.7           | 28.6 | 30.6 | 34.6 | 38.3 | 44.8 |
| PERCENT OF HOME LOANS       |           |      |      |      |      |      |                |      |      |      |      |      |
| Loan amount:                |           |      |      |      |      |      |                |      |      |      |      |      |
| Less than \$20,000.....     | 5.8       | 2.3  | 1.7  | .9   | .6   | .3   | 28.4           | 21.2 | 16.7 | 10.7 | 7.6  | 4.2  |
| \$20,000-\$24,999.....      | 21.1      | 9.9  | 5.8  | 2.8  | 1.3  | .6   | 23.7           | 19.3 | 16.8 | 12.5 | 9.7  | 6.3  |
| \$25,000-\$29,999.....      | 31.2      | 23.8 | 17.6 | 11.0 | 5.6  | 1.9  | 21.0           | 20.5 | 20.2 | 16.8 | 15.1 | 10.8 |
| \$30,000-\$34,999.....      | 24.2      | 31.2 | 24.6 | 19.5 | 13.0 | 6.0  | 12.8           | 15.7 | 16.2 | 16.6 | 15.3 | 12.4 |
| \$35,000-\$39,999.....      | 10.6      | 19.5 | 25.4 | 23.1 | 19.6 | 11.7 | 6.8            | 10.2 | 12.3 | 15.0 | 14.3 | 13.1 |
| \$40,000-\$49,999.....      |           |      |      |      | 34.4 | 30.8 |                |      |      |      | 18.3 | 20.2 |
| \$50,000-\$59,999.....      |           |      |      |      | 16.2 | 24.6 |                |      |      |      | 9.8  | 13.3 |
| \$60,000-\$69,999.....      | 7.1       | 13.3 | 24.9 | 42.7 | 6.6  | 13.7 | 7.3            | 13.1 | 17.8 | 28.4 | 6.4  | 9.9  |
| \$70,000 and over.....      |           |      |      |      | 2.7  | 10.4 |                |      |      |      | 3.5  | 10.4 |
| Mortgage maturity:          |           |      |      |      |      |      |                |      |      |      |      |      |
| Less than 25 years.....     | .4        | .3   | .3   | .3   | .3   | .3   | 3.0            | 2.9  | 2.7  | 2.1  | 1.7  | 1.4  |
| 25 years.....               | .5        | .5   | .6   | .5   | .3   | .2   | 6.7            | 6.1  | 5.8  | 4.5  | 4.0  | 2.9  |
| 26-29 years.....            | 5.6       | 4.9  | 2.9  | 1.8  | 3.9  | 2.6  | 3.2            | 1.2  | .5   | .5   | 1.4  | .9   |
| 30 years.....               | 93.5      | 94.3 | 96.2 | 97.4 | 95.5 | 96.9 | 87.1           | 89.8 | 91.0 | 92.9 | 92.9 | 94.8 |
| Downpayment status:         |           |      |      |      |      |      |                |      |      |      |      |      |
| With downpayment.....       | 39.0      | 42.9 | 27.6 | 44.5 | 46.3 | 47.4 | 26.3           | 26.5 | 24.3 | 26.4 | 26.2 | 28.0 |
| With no downpayment.....    | 61.0      | 57.1 | 72.4 | 55.5 | 53.7 | 52.6 | 73.7           | 73.5 | 75.7 | 73.6 | 73.8 | 72.0 |

Source: U.S. Veterans Administration, unpublished data.

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101st EDITION

## Section 29

# Manufactures

This section presents summary data for manufacturing as a whole and more detailed information for major industry groups and selected specific products. The types of measures shown at the different levels include data for establishments; employment and wages; raw materials, fuels, and electricity consumed; plant and equipment expenditures; value and quantity of production and shipments; value added by manufacture; inventories; and various indicators of financial status.

The principal sources of these data are Bureau of the Census reports of the censuses of manufactures conducted every five years; the *Annual Survey of Manufactures*; and the *Current Industrial Reports* series, which presents monthly, quarterly, or annual data on production, shipments, and stocks for particular commodities. Indexes of industrial production are presented monthly in the Federal Reserve Board's *Federal Reserve Bulletin*. Reports on current activities of industries, or current movements of individual commodities, are also compiled by such government agencies as the Bureau of Labor Statistics; the Economics, Statistics, and Cooperatives Service of the Department of Agriculture; and the International Trade Administration; and by private research or trade associations such as The Conference Board, Inc., New York, and the American Iron and Steel Institute, Washington, D.C.

Data on financial aspects of manufacturing industries are collected from time to time by the Bureau of Economic Analysis (BEA) and the Federal Trade Commission (FTC). Industry aggregates in the form of balance sheets, profit and loss statements, analyses of sales and expenses, lists of subsidiaries, and types and amounts of security issues are published for leading manufacturing corporations registered with the SEC. The BEA issues data on capital in manufacturing industries and capacity utilization rates in manufacturing. The FTC has made several comprehensive studies of individual industries. See also Section 18, Business Enterprise in this edition.

**Censuses and annual surveys.**—The first census of manufactures covered the year 1809. Between 1809 and 1963, a census was conducted at periodic intervals. Since 1967 it has been taken every 5 years (for years ending in "2" and "7"). Census data, either direct reports or estimates from administrative records, are obtained for every manufacturing plant with one employee or more.

The Annual Survey of Manufactures, conducted for the first time in 1949, collects data for the years between censuses for the more general measures of manufacturing activity covered in detail by the censuses. The annual survey data are estimates derived from a scientifically selected sample of companies. The most recent, 1976, annual survey is based on a sample of about 70,000 of an approximate total of 340,000 establishments. It comprises all large plants, which account for approximately two-thirds of total U.S. manufacturing employment, and a representative selection of the more numerous small plants. Government-owned and -operated establishments are excluded.

The basic statistical measures of manufacturing activity, such as employment, payrolls, value added, etc., are defined in essentially the same way for both the annual surveys and the census of manufactures. However, the bases for computing average employment vary for different years. For example, beginning with 1949, average employment was calculated from the figures reported for the pay periods ending nearest the 15th of March, May, August, and November, whereas for 1947 such averages were based on 12 monthly employment figures. In

1967, the average employment calculation was revised to the pay periods which include the 12th of March, May, August, and November to provide data more comparable with other statistical series.

**Establishments and classification.**—The censuses of manufactures for 1947 through 1977 cover operating manufacturing establishments as defined in the *Standard Industrial Classification Manual (SIC)*, issued by the U.S. Office of Management and Budget (see text 392). The *Manual* is also used for classifying establishments in the annual surveys. The comparability of manufactures data over time is affected by changes in the official definitions of industries as presented in the *Manual*. It is important to note therefore that the 1972 edition of the *Manual* was used for the 1972 and 1977 censuses while the 1967 *Manual* was used for the 1967 census. For the censuses from 1947 to 1963, reports were required from all establishments employing one or more persons at any time during the census year. For the 1967 and 1972 censuses, reports were required only from establishments with 10 or more employees and establishments operated by multi-establishment companies. Data for single unit companies with less than 10 employees were estimated on the basis of government administrative records and industry averages. In the 1977 Census, data were based on administrative records for all establishments with fewer than 5 employees; and, depending on the industry, for those with fewer than 20. Each of the establishments tabulated was classified in one of the more than 450 manufacturing industries as defined by the *SIC Manual* in 1972 and 1977, as compared to 400 industries in the 1967 census. The *Manual* defines an industry as a number of establishments producing a single product or a closely related group of products. In the main, an establishment is classified in a particular industry if its production of a product or product group exceeds in value added its production of any other product group. While some establishments produce only the products of the industry in which they are classified, few within an industry specialize to that extent. The statistics on employment, payrolls, value added, inventories, and expenditures, therefore, reflect both the primary and secondary activities of the establishments in that industry. For this reason care should be exercised in relating such statistics to the total shipments figures of products primary to the industry.

The censuses for 1947 through 1977 were conducted on an establishment basis. The term "establishment" signifies a single physical plant site or factory. It is not necessarily identical with the business unit or company, which may consist of one or more establishments. A company operating establishments at more than one location is required to submit a separate report for each location. An establishment engaged in distinctly different lines of activity and maintaining separate payroll and inventory records is also required to submit separate reports.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

#### NO. 1433. NATIONAL INCOME ORIGINATING IN MANUFACTURING: 1947 TO 1979

(In billions of dollars, except percent. Prior to 1963, excludes Alaska and Hawaii. For definition of national income, see text, p. 435. Refers to national income without capital consumption adjustment. Data represent net value added at factor costs. See *Historical Statistics, Colonial Times to 1970*, series F 230, for single-year figures prior to minor revisions issued in 1976.)

| ITEM                            | 1947 | 1954 | 1958 | 1963 | 1967 | 1970 | 1972 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 |
|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Total manufacturing .....       | 60   | 95   | 108  | 143  | 193  | 215  | 252  | 298  | 312  | 363  | 409  | 460  | 511  |
| Percent of national income..... | 30   | 31   | 29   | 30   | 29   | 27   | 26   | 26   | 25   | 26   | 26   | 26   | 26   |
| Durable goods .....             | 32   | 55   | 62   | 86   | 119  | 127  | 154  | 179  | 185  | 215  | 248  | 284  | 312  |
| Percent of total.....           | 53   | 58   | 58   | 60   | 61   | 59   | 61   | 60   | 59   | 59   | 61   | 62   | 61   |
| Nondurable goods.....           | 28   | 40   | 46   | 57   | 75   | 88   | 98   | 119  | 128  | 148  | 162  | 176  | 200  |

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-74*, and *Survey of Current Business*, July issues and March 1980.

## No. 1434. MANUFACTURES—SUMMARY: 1947 TO 1977

[Prior to 1958, excludes Alaska and Hawaii. Census data, except as noted. For establishment coverage, see text, p. 804.  
See also *Historical Statistics, Colonial Times to 1970*, series P 1-12]

| ITEM  | Unit          | 1947             | 1954             | 1958 | 1963 | 1967 | 1972  | 1975 <sup>1</sup> | 1976 <sup>1</sup> | 1977  |
|---|---------------|------------------|------------------|------|------|------|-------|-------------------|-------------------|-------|
| Number of establishments <sup>2</sup> .....                   | 1,000.....    | <sup>3</sup> 241 | <sup>3</sup> 287 | 303  | 312  | 311  | 321   | (NA)              | (NA)              | 360   |
| With 20 or more employees.....                                | 1,000.....    | (NA)             | <sup>3</sup> 90  | 95   | 102  | 107  | 114   | (NA)              | (NA)              | 119   |
| All employees, <sup>4</sup> annual average <sup>5</sup> ..... | Mil.....      | 14.3             | 16.1             | 16.0 | 17.0 | 19.3 | 19.0  | 18.3              | 18.8              | 19.6  |
| Payroll, all employees.....                                   | Bil. dol..... | <sup>3</sup> 40  | 66               | 78   | 100  | 132  | 174   | 210               | 233               | 264   |
| Payroll per employee.....                                     | \$1,000.....  | <sup>3</sup> 2.8 | 4.1              | 4.9  | 5.9  | 6.8  | 9.2   | 11.5              | 12.4              | 13.5  |
| Production workers, annual average.....                       | Mil.....      | 11.9             | 12.4             | 11.7 | 12.2 | 14.0 | 13.5  | 12.6              | 13.1              | 13.7  |
| Percent of all employees.....                                 | Percent.....  | 83.2             | 77.0             | 73.1 | 71.8 | 72.5 | 71.1  | 68.9              | 69.7              | 69.9  |
| Man-hours, production workers.....                            | Bil.....      | 24.3             | 24.3             | 22.7 | 24.5 | 27.8 | 26.7  | 24.1              | 25.4              | 26.7  |
| Man-hours per worker.....                                     | 1,000.....    | 2.0              | 2.0              | 1.9  | 2.0  | 2.0  | 2.0   | 1.9               | 1.9               | 2.0   |
| Wages, production workers.....                                | Bil. dol..... | 30               | 45               | 50   | 62   | 81   | 106   | 121               | 138               | 157   |
| Percent of payroll for all employees.....                     | Percent.....  | 75.0             | 68.2             | 64.1 | 62.0 | 61.4 | 60.9  | 57.6              | 59.2              | 59.5  |
| Wages per worker.....   | \$1,000.....  | 2.5              | 3.6              | 4.3  | 5.1  | 5.8  | 7.8   | 9.8               | 10.5              | 11.5  |
| Wages per worker man-hour.....                                | Dol.....      | 1.24             | 1.83             | 2.19 | 2.53 | 2.92 | 3.95  | 5.02              | 5.43              | 5.89  |
| Value added by manufacture <sup>6</sup> .....                 | Bil. dol..... | 74               | 117              | 142  | 192  | 262  | 354   | 442               | 511               | 585   |
| Per production worker.....                                    | \$1,000.....  | 6.2              | 9.5              | 12.1 | 15.7 | 18.8 | 26.2  | 35.1              | 39.0              | 42.7  |
| Per production worker man-hour.....                           | Dol.....      | 3.04             | 4.81             | 6.25 | 7.83 | 9.42 | 13.25 | 18.34             | 20.12             | 21.91 |
| Per dollar of workers' wages.....                             | Dol.....      | 2.47             | 2.60             | 2.84 | 2.90 | 3.23 | 3.34  | 3.65              | 3.70              | 3.73  |
| Cost of materials.....  | Bil. dol..... | (NA)             | (NA)             | (NA) | 230  | 299  | 407   | 597               | 681               | 782   |
| Value of shipments <sup>7</sup> .....                         | Bil. dol..... | (NA)             | (NA)             | (NA) | 421  | 557  | 757   | 1,039             | 1,186             | 1,359 |
| Per production worker.....                                    | \$1,000.....  | (NA)             | (NA)             | (NA) | 34.4 | 39.9 | 55.9  | 82.5              | 90.5              | 99.9  |
| End-of-year inventories.....                                  | Bil. dol..... | 26               | 40               | 49   | 60   | 84   | 108   | 158               | 170               | 188   |
| Capital expenditures, new <sup>8</sup> .....                  | Bil. dol..... | 6.0              | 8.2              | 9.5  | 11.4 | 21.5 | 24.1  | 37.3              | 40.7              | 47.5  |
| Indexes:  |               |                  |                  |      |      |      |       |                   |                   |       |
| Employment.....   | 1967=100      | 74               | 83               | 83   | 88   | 100  | 98    | 95                | 97                | 101   |
| Value added.....  | 1967=100      | 29               | 45               | 54   | 73   | 100  | 135   | 169               | 195               | 222   |
| Shipments.....  | 1967=100      | (NA)             | (NA)             | (NA) | 76   | 100  | 136   | 187               | 213               | 242   |
| Ratios:   |               |                  |                  |      |      |      |       |                   |                   |       |
| Value added to shipments.....                                 | Ratio.....    | (NA)             | (NA)             | (NA) | 45.6 | 47.0 | 46.7  | 42.5              | 43.1              | 42.9  |
| Inventories to shipments.....                                 | Ratio.....    | (NA)             | (NA)             | (NA) | 14.2 | 15.0 | 14.2  | 15.2              | 14.3              | 13.8  |
| Payroll to value added.....                                   | Ratio.....    | 54.0             | 56.4             | 54.9 | 52.0 | 50.3 | 49.1  | 47.5              | 45.6              | 45.2  |
| Gross book value of depreciable assets.....                   | Bil. dol..... | (NA)             | (NA)             | (NA) | 158  | 218  | 301   | 369               | 395               | 439   |
| Machinery and equipment.....                                  | Bil. dol..... | (NA)             | (NA)             | (NA) | (NA) | 157  | 218   | 271               | 292               | (NA)  |
| Assets per employee.....                                      | \$1,000.....  | (NA)             | (NA)             | (NA) | 9.3  | 11.3 | 16.4  | 20.2              | 21.0              | 22.4  |

NA. Not available. <sup>1</sup> Estimated data based on *Annual Survey of Manufactures*; see text, p. 803. <sup>2</sup> Includes administrative and auxiliary units, except as noted. <sup>3</sup> Excludes administrative offices and auxiliary units. <sup>4</sup> Includes data for employees of manufacturing establishments engaged in distribution and construction work. <sup>5</sup> Data for most industries in 1954 and for all industries since 1954 are based on pay periods ending nearest 15th of March, May, August, and November. For 1947, and industries of a seasonal type in 1954, data represent average of 12 monthly figures.

<sup>6</sup> Unadjusted for 1947; thereafter, adjusted. Unadjusted value added is obtained by subtracting cost of materials, supplies, containers, fuel, purchased electric energy, and contract work from value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations (that is, difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) net change in finished goods and work-in-process inventories between beginning and end of year.

<sup>7</sup> Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification. <sup>8</sup> Beginning 1954, includes plants under construction and not yet in operation. See table 1442 for capital expenditures in establishments by employee size-class.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1947, 1954, 1958, 1963, 1967, 1972, and 1977* final reports; and *Annual Survey of Manufactures*.

## No. 1435. FINANCES OF MANUFACTURING CORPORATIONS: 1960 TO 1979

[In billions of dollars. See tables 966 and 967 for individual industry data]

| ITEM                                    | 1960 | 1965 | 1967 | 1970 | 1972 | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979  |
|---|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Net sales.....                          | 346  | 492  | 575  | 709  | 850  | 1,017 | 1,061 | 1,065 | 1,203 | 1,328 | 1,496 | 1,741 |
| Net operating profit.....               | 26   | 46   | 48   | 50   | 66   | 86    | 84    | 77    | 97    | 107   | 122   | 135   |
| Net profit:                             |      |      |      |      |      |       |       |       |       |       |       |       |
| Before Federal taxes <sup>1</sup> ..... | 28   | 47   | 48   | 48   | 63   | 81    | 97    | 80    | 105   | 115   | 133   | 154   |
| After Federal and State taxes.....      | 15   | 28   | 29   | 29   | 36   | 48    | 59    | 49    | 65    | 70    | 81    | 99    |
| Cash dividends.....                     | 8    | 12   | 13   | 15   | 16   | 18    | 19    | 20    | 23    | 27    | 29    | 33    |
| Retained earnings.....                  | 7    | 16   | 16   | 14   | 20   | 30    | 39    | 29    | 42    | 44    | 52    | 66    |

<sup>1</sup> Beginning 1974, data include State as well as Federal taxes.

Source: U.S. Federal Trade Commission, *Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations*, fourth quarter reports.



## NO. 1436. INDUSTRIAL PRODUCTION INDEXES, BY INDUSTRY: 1950 TO 1980

(1967 = 100. Based on 1967 *Standard Industrial Classification Manual* (see text, p. 804). See also *Historical Statistics, Colonial Times to 1970*, series P 13 and P 18-39)

| MAJOR INDUSTRY GROUP             | 1950 | 1955 | 1960 | 1965 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980,<br>Jan.-<br>June |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------|
| Industrial production.....       | 45   | 59   | 66   | 90   | 108  | 110  | 120  | 130  | 129  | 118  | 131  | 138  | 146  | 153  | 149                    |
| Manufacturing.....               | 45   | 58   | 65   | 90   | 106  | 108  | 119  | 130  | 129  | 116  | 130  | 138  | 147  | 154  | 148                    |
| Durable goods.....               | 44   | 59   | 63   | 89   | 102  | 102  | 114  | 127  | 126  | 109  | 122  | 130  | 140  | 146  | 139                    |
| Primary metals.....              | 70   | 83   | 72   | 102  | 107  | 100  | 112  | 127  | 123  | 96   | 110  | 111  | 120  | 121  | 106                    |
| Fabricated metal products.....   | 58   | 68   | 71   | 91   | 102  | 104  | 112  | 125  | 124  | 110  | 124  | 131  | 142  | 149  | 139                    |
| Electrical machinery.....        | 30   | 40   | 52   | 82   | 108  | 108  | 122  | 143  | 144  | 117  | 135  | 145  | 159  | 175  | 176                    |
| Nonelectrical machinery.....     | 38   | 51   | 57   | 85   | 104  | 100  | 116  | 134  | 140  | 125  | 135  | 144  | 154  | 164  | 164                    |
| Transportation equipment.....    | 42   | 68   | 65   | 95   | 90   | 98   | 108  | 118  | 109  | 97   | 111  | 122  | 133  | 135  | 118                    |
| Instruments.....                 | 26   | 44   | 58   | 83   | 112  | 110  | 120  | 138  | 144  | 132  | 147  | 156  | 167  | 175  | 173                    |
| Stone, clay, glass products..... | 57   | 70   | 79   | 98   | 106  | 111  | 121  | 134  | 133  | 118  | 136  | 146  | 157  | 164  | 151                    |
| Lumber and products.....         | 66   | 76   | 75   | 96   | 106  | 114  | 121  | 126  | 116  | 108  | 123  | 131  | 136  | 137  | 118                    |
| Furniture and fixtures.....      | 53   | 67   | 72   | 95   | 108  | 116  | 131  | 144  | 138  | 118  | 137  | 145  | 156  | 162  | 155                    |
| Miscellaneous.....               | 51   | 68   | 71   | 94   | 111  | 112  | 127  | 138  | 138  | 128  | 145  | 149  | 151  | 154  | 150                    |
| Nondurable goods.....            | 47   | 57   | 69   | 91   | 112  | 117  | 127  | 134  | 135  | 126  | 142  | 151  | 157  | 164  | 162                    |
| Textile mill products.....       | 60   | 65   | 69   | 93   | 112  | 117  | 133  | 143  | 133  | 122  | 135  | 134  | 138  | 145  | 140                    |
| Apparel products.....            | 64   | 73   | 82   | 97   | 101  | 105  | 109  | 117  | 114  | 108  | 126  | 134  | 134  | 134  | 132                    |
| Leather and products.....        | 84   | 91   | 90   | 98   | 90   | 87   | 88   | 83   | 78   | 77   | 77   | 74   | 74   | 72   | 72                     |
| Paper and products.....          | 46   | 57   | 68   | 92   | 115  | 120  | 129  | 137  | 135  | 116  | 133  | 138  | 145  | 151  | 151                    |
| Printing and publishing.....     | 49   | 60   | 71   | 88   | 107  | 107  | 113  | 118  | 118  | 113  | 123  | 128  | 132  | 137  | 138                    |
| Chemicals and products.....      | 26   | 40   | 56   | 88   | 120  | 126  | 144  | 155  | 159  | 147  | 171  | 186  | 197  | 212  | 208                    |
| Petroleum products.....          | 48   | 66   | 77   | 92   | 113  | 117  | 122  | 129  | 125  | 124  | 134  | 143  | 145  | 144  | 139                    |
| Rubber and plastics prod.....    | 29   | 41   | 52   | 86   | 132  | 148  | 172  | 184  | 195  | 167  | 200  | 232  | 254  | 272  | 258                    |
| Foods.....                       | 58   | 66   | 79   | 92   | 109  | 113  | 117  | 121  | 124  | 123  | 133  | 139  | 143  | 148  | 149                    |
| Tobacco products.....            | 69   | 74   | 91   | 100  | 102  | 101  | 106  | 112  | 110  | 112  | 117  | 113  | 118  | 118  | 119                    |
| Mining.....                      | 64   | 78   | 80   | 93   | 112  | 110  | 113  | 115  | 115  | 113  | 114  | 118  | 124  | 126  | 133                    |
| Utilities.....                   | 27   | 44   | 63   | 89   | 125  | 131  | 139  | 145  | 144  | 146  | 152  | 157  | 161  | 166  | 169                    |
| Energy <sup>1</sup> .....        | (NA) | 59   | 70   | 89   | 117  | 120  | 125  | 128  | 126  | 126  | 129  | 133  | 135  | 138  | 139                    |

NA Not available. <sup>1</sup> Production of energy is represented by output of primary energy, such as crude oil, natural gas, and coal mining, and by the conversion of primary energy to other energy forms for final consumption.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 1437. CAPACITY UTILIZATION RATES IN MANUFACTURING: 1965 TO 1979

[In percent. Annual figures are averages of quarterly data, except yearend 1965. Capacity represents maximum practical amount of output that can be produced with current stock of plant and equipment]

| INDUSTRY                                    | 1965 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| All manufacturers.....                      | 86   | 85   | 81   | 80   | 83   | 86   | 83   | 77   | 81   | 83   | 84   | 82   |
| Firms with assets of—                       |      |      |      |      |      |      |      |      |      |      |      |      |
| \$100 million and over.....                 | 89   | 87   | 83   | 83   | 86   | 88   | 85   | 78   | 84   | 85   | 86   | 85   |
| \$10 million–\$99.9 million.....            | 85   | 83   | 79   | 78   | 81   | 83   | 81   | 75   | 78   | 80   | 81   | 81   |
| Under \$10 million.....                     | 80   | 77   | 73   | 73   | 77   | 79   | 77   | 72   | 76   | 78   | 78   | 76   |
| Durable goods.....                          | 88   | 84   | 78   | 78   | 82   | 85   | 82   | 76   | 81   | 84   | 84   | 83   |
| Electrical machinery.....                   | 83   | 80   | 76   | 76   | 81   | 82   | 83   | 73   | 80   | 82   | 83   | 82   |
| Machinery, except electrical.....           | 95   | 92   | 86   | 81   | 84   | 87   | 88   | 83   | 86   | 89   | 91   | 91   |
| Transportation equipment <sup>1</sup> ..... | 89   | 84   | 75   | 81   | 85   | 87   | 78   | 76   | 82   | 86   | 85   | 80   |
| Motor vehicles.....                         | 96   | 90   | 81   | 92   | 97   | 100  | 83   | 83   | 93   | 99   | 95   | 84   |
| Aircraft.....                               | 79   | 77   | 68   | 65   | 69   | 69   | 71   | 65   | 65   | 68   | 70   | 76   |
| Primary metals.....                         | (NA) | 87   | 82   | 75   | 86   | 88   | 88   | 73   | 78   | 80   | 84   | 84   |
| Stone, clay, and glass.....                 | 84   | 80   | 76   | 80   | 83   | 83   | 79   | 70   | 77   | 79   | 80   | 80   |
| Nondurable goods <sup>1</sup> .....         | 85   | 86   | 83   | 83   | 85   | 86   | 84   | 79   | 82   | 82   | 82   | 82   |
| Food, including beverages.....              | 75   | 82   | 82   | 81   | 81   | 81   | 80   | 77   | 77   | 78   | 79   | 79   |
| Textiles.....                               | 93   | 84   | 82   | 84   | 89   | 90   | 81   | 78   | 85   | 86   | 85   | 83   |
| Paper.....                                  | 95   | 93   | 88   | 88   | 90   | 94   | 91   | 79   | 87   | 86   | 88   | 91   |
| Chemicals.....                              | 86   | 84   | 82   | 81   | 84   | 88   | 85   | 74   | 80   | 78   | 80   | 83   |
| Petroleum.....                              | 95   | 98   | 95   | 94   | 94   | 97   | 89   | 89   | 93   | 92   | 90   | 88   |
| Rubber.....                                 | 83   | 89   | 82   | 86   | 89   | 88   | 85   | 74   | 80   | 85   | 83   | 77   |

NA Not available. <sup>1</sup> Includes items not shown separately.

Source: U.S. Bureau of Economic Analysis. Quarterly data in *Survey of Current Business*, monthly.

# NO. 1438. INDEX OF MANUFACTURING CAPACITY AND RELATION OF OUTPUT TO CAPACITY: 1950 TO 1980

[1967 output=100. Annual figures are averages of quarterly data. Capacity represents estimated quantity of output, relative to output in 1967, which the current stock of plant and equipment in manufacturing industries was capable of producing. Primary processing industries comprise textiles, lumber, paper and pulp, petroleum, rubber, stone, clay, glass, primary metals, fabricated metals, and a portion of chemicals. Advanced processing industries comprise chemical products, food, beverages, tobacco, apparel, furniture, printing and publishing, leather, machinery, transportation equipment, instruments, ordnance, and miscellaneous industry groups]

| YEAR      | Index of capacity | RELATION OF OUTPUT TO CAPACITY (percent) |                    |                     | YEAR                | Index of capacity | RELATION OF OUTPUT TO CAPACITY (percent) |                    |                     |
|-----------|-------------------|--|--------------------|---------------------|---------------------|-------------------|--|--------------------|---------------------|
|           |                   | All manufacturing                        | Primary processing | Advanced processing |                     |                   | All manufacturing                        | Primary processing | Advanced processing |
| 1950..... | 54                | 83                                       | 89                 | 80                  | 1973.....           | 148               | 88                                       | 93                 | 85                  |
| 1955..... | 67                | 87                                       | 92                 | 84                  | 1974.....           | 154               | 84                                       | 88                 | 82                  |
| 1960..... | 82                | 80                                       | 80                 | 81                  | 1975.....           | 160               | 73                                       | 74                 | 73                  |
| 1965..... | 100               | 90                                       | 91                 | 89                  | 1976.....           | 164               | 80                                       | 82                 | 78                  |
| 1967..... | 115               | 87                                       | 86                 | 88                  | 1977.....           | 169               | 82                                       | 84                 | 81                  |
| 1968..... | 122               | 87                                       | 88                 | 87                  | 1978.....           | 174               | 84                                       | 87                 | 83                  |
| 1969..... | 129               | 86                                       | 89                 | 85                  | 1979.....           | 179               | 86                                       | 88                 | 84                  |
| 1970..... | 134               | 79                                       | 83                 | 77                  | 1980: 1st qtr.....  | 183               | 83                                       | 85                 | 83                  |
| 1971..... | 138               | 78                                       | 82                 | 76                  | 2nd qtr.....        | 185               | 78                                       | 76                 | 79                  |
| 1972..... | 142               | 84                                       | 88                 | 81                  | 3d qtr, prel.,..... | 186               | 75                                       | 72                 | 77                  |

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, November 1976, and *Capacity Utilization in Manufacturing and Materials*, G.3., monthly. (Based on data from Federal Reserve Board, U.S. Dept. of Commerce, U.S. Bureau of Labor Statistics, and McGraw-Hill Information Systems Company, New York, N.Y.)

## NO. 1439. MANUFACTURES—SUMMARY, BY TYPE OF OPERATION: 1947 TO 1972

[A multiunit company operates establishments at more than one location. See text, p. 804]

| ITEM                                       | Unit          | 1947  | 1954  | 1958  | 1963  | 1967  | 1972  |
|--|---------------|-------|-------|-------|-------|-------|-------|
| Multiunit companies: Establishments.....   | 1,000.....    | 35.2  | 31.8  | 41.9  | 45.9  | 51.7  | 70.2  |
| Employees.....                             | Million.....  | 8.0   | 9.5   | 10.1  | 11.0  | 13.3  | 14.3  |
| Production workers.....                    | Million.....  | 6.7   | 7.4   | 7.2   | 8.1   | 9.8   | 9.8   |
| Payroll, all employees.....                | Bil. dol..... | 22.8  | 40.6  | 51.8  | 68.2  | 93.8  | 138.8 |
| Wages, production workers.....             | Bil. dol..... | 17.8  | 29.0  | 33.5  | 44.7  | 60.9  | 81.9  |
| Value added by manufacture.....            | Bil. dol..... | 43.9  | 79.6  | 105.3 | 146.6 | 206.4 | 286.1 |
| Capital expenditures, new.....             | Bil. dol..... | (NA)  | 6.5   | 7.5   | 8.9   | 18.6  | 20.0  |
| Single unit companies: Establishments..... | 1,000.....    | 205.6 | 255.0 | 256.3 | 260.8 | 254.0 | 250.5 |
| Employees.....                             | Million.....  | 6.3   | 6.2   | 5.3   | 5.2   | 5.2   | 4.8   |
| Payroll, all employees.....                | Bil. dol..... | 16.9  | 22.3  | 21.9  | 25.1  | 30.2  | 35.4  |
| Value added by manufacture.....            | Bil. dol..... | 30.3  | 37.4  | 37.9  | 45.5  | 55.5  | 67.9  |

NA Not available. <sup>1</sup> Includes data obtained from Federal administrative records.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1967*, vol. I, and special report, *Type of Organization*, MC72(SR)-3.

## NO. 1440. MANUFACTURERS SHIPMENTS, INVENTORIES, AND ORDERS: 1960 TO 1979

[In billions of dollars, except ratios. See also *Historical Statistics, Colonial Times to 1970*, series P 74-92]

| ITEM   | 1960  | 1965  | 1970  | 1972  | 1973  | 1974    | 1975    | 1976    | 1977    | 1978    | 1979    |
|--|-------|-------|-------|-------|-------|---------|---------|---------|---------|---------|---------|
| Shipments.....                                   | 370.5 | 491.9 | 634.0 | 758.5 | 875.4 | 1,017.9 | 1,039.4 | 1,185.7 | 1,330.1 | 1,496.6 | 1,692.0 |
| Durable goods.....                               | 190.6 | 266.7 | 338.6 | 408.5 | 476.4 | 531.0   | 524.1   | 608.4   | 696.1   | 798.1   | 887.8   |
| Nondurable goods.....                            | 179.9 | 225.3 | 295.4 | 348.0 | 399.0 | 486.8   | 515.3   | 577.4   | 634.0   | 698.5   | 804.2   |
| Inventories (Dec. 31).....                       | 53.6  | 68.0  | 101.3 | 108.0 | 124.4 | 157.8   | 158.2   | 170.4   | 180.1   | 198.0   | 227.7   |
| Durable goods.....                               | 32.0  | 42.0  | 66.3  | 69.8  | 80.8  | 101.1   | 101.1   | 108.5   | 114.9   | 128.4   | 150.3   |
| Nondurable goods.....                            | 21.5  | 26.0  | 35.0  | 38.2  | 43.6  | 56.7    | 57.1    | 61.9    | 65.3    | 69.6    | 77.3    |
| Ratio of inventories to sales <sup>1</sup> ..... | 1.79  | 1.58  | 1.91  | 1.58  | 1.63  | 1.86    | 1.74    | 1.63    | 1.53    | 1.48    | 1.56    |
| Durable goods.....                               | 2.13  | 1.78  | 2.35  | 1.90  | 2.01  | 2.33    | 2.24    | 2.00    | 1.88    | 1.77    | 2.04    |
| Nondurable goods.....                            | 1.44  | 1.34  | 1.40  | 1.21  | 1.20  | 1.37    | 1.24    | 1.22    | 1.16    | 1.13    | 1.06    |
| New orders.....                                  | 362.8 | 505.2 | 624.8 | 769.9 | 914.2 | 1,045.9 | 1,021.0 | 1,190.2 | 1,349.4 | 1,541.9 | 1,732.0 |
| Durable goods.....                               | 183.6 | 279.3 | 329.0 | 420.7 | 514.2 | 560.9   | 503.5   | 612.6   | 714.7   | 841.7   | 926.6   |
| Nondurable goods.....                            | 179.2 | 225.9 | 295.8 | 349.2 | 400.0 | 485.0   | 517.5   | 577.6   | 634.7   | 700.1   | 805.4   |
| Unfilled orders (Dec. 31).....                   | 44.9  | 79.2  | 105.4 | 119.7 | 158.4 | 186.5   | 168.0   | 172.5   | 191.8   | 237.1   | 277.2   |
| Durable goods.....                               | 42.4  | 75.4  | 100.9 | 113.5 | 151.3 | 181.1   | 180.5   | 164.7   | 183.3   | 227.0   | 265.8   |
| Nondurable goods.....                            | 2.5   | 3.8   | 4.6   | 6.2   | 7.2   | 5.3     | 7.6     | 7.9     | 8.5     | 10.2    | 11.4    |

<sup>1</sup> Seasonally adjusted.

Source: U.S. Bureau of the Census, *Manufacturers Shipments, Inventories & Orders, 1958-1977*, M31.7; *1967-1978*, M31.8; and *Current Industrial Reports*, M3-1(79)—1 thru 12.

# NO. 1441. OPERATING MANUFACTURING ESTABLISHMENTS—SELECTED DATA, BY LEGAL FORM OF ORGANIZATION: 1954 TO 1977

[1954 excludes Alaska and Hawaii. For establishment coverage, see text, p. 804. See also *Historical Statistics, Colonial Times to 1970*, series P 205-211]

| FORM OF ORGANIZATION AND YEAR     | Estab-lish-ments <sup>1</sup><br>(1,000) | ALL EMPLOYEES                 |                        | PRODUCTION WORKERS            |                      | Value added by manu-facture <sup>3</sup><br>(mil. dol.) | Capital expendi-tures, new<br>(mil. dol.) |
|-----------------------------------|--|-------------------------------|------------------------|-------------------------------|----------------------|---|---|
|                                   |  | Total <sup>2</sup><br>(1,000) | Payroll<br>(mil. dol.) | Total <sup>2</sup><br>(1,000) | Wages<br>(mil. dol.) |   |   |
| Corporate:                        |  |                               |                        |                               |                      |   |   |
| 1954.....                         | 148.5                                    | 14,273                        | 59,051                 | 11,206                        | 41,480               | 109,669   | 7,752                                     |
| 1963.....                         | 176.2                                    | 15,245                        | 89,356                 | 11,426                        | 59,064               | 184,100   | 10,791                                    |
| 1967 <sup>4</sup> .....           | 153.9                                    | 17,697                        | 119,530                | 13,260                        | 78,429               | 253,261   | 20,988                                    |
| 1972.....                         | 233.2                                    | 18,545                        | 171,143                | 13,118                        | 103,254              | 347,086   | 23,620                                    |
| 1977.....                         | 284.2                                    | 19,114                        | 259,306                | 13,302                        | 153,691              | 574,044   | 46,474                                    |
| Noncorporate, total: <sup>5</sup> |  |                               |                        |                               |                      |   |   |
| 1954.....                         | 138.4                                    | 1,372                         | 3,912                  | 1,166                         | 3,111                | 7,363   | 449                                       |
| 1963.....                         | 130.4                                    | 990                           | 3,932                  | 806                           | 3,030                | 8,002   | 580                                       |
| 1967 <sup>4</sup> .....           | 33.2                                     | 530                           | 2,709                  | 433                           | 2,008                | 5,636   | 370                                       |
| 1972.....                         | 87.5                                     | 482                           | 3,043                  | 408                           | 2,237                | 6,908   | 453                                       |
| 1977.....                         | 75.7                                     | 476                           | 4,707                  | 389                           | 3,273                | 11,052  | 1,210                                     |
| Individual proprietorship:        |  |                               |                        |                               |                      |   |   |
| 1954.....                         | 88.2                                     | 593                           | 1,527                  | 507                           | 1,237                | 2,735   | 176                                       |
| 1963.....                         | 99.2                                     | 536                           | 2,033                  | 440                           | 1,595                | 3,916   | 315                                       |
| 1967 <sup>4</sup> .....           | 24.9                                     | 243                           | 1,187                  | 210                           | 933                  | 2,361   | 141                                       |
| 1972.....                         | 42.5                                     | 213                           | 1,303                  | 183                           | 963                  | 2,885   | 186                                       |
| 1977.....                         | 52.3                                     | 202                           | 1,840                  | 174                           | 1,322                | 3,961   | 300                                       |
| Partnership:                      |  |                               |                        |                               |                      |   |   |
| 1954.....                         | 47.9                                     | 703                           | 2,108                  | 602                           | 1,684                | 4,054   | 216                                       |
| 1963.....                         | 27.7                                     | 334                           | 1,034                  | 277                           | 1,062                | 2,726   | 141                                       |
| 1967 <sup>4</sup> .....           | 6.7                                      | 193                           | 971                    | 157                           | 730                  | 1,895   | 114                                       |
| 1972.....                         | 17.7                                     | 167                           | 1,067                  | 139                           | 792                  | 2,413   | 150                                       |
| 1977.....                         | 18.3                                     | 123                           | 1,213                  | 100                           | 829                  | 2,661   | 206                                       |

<sup>1</sup> Beginning 1963, includes administrative offices and auxiliary units. <sup>2</sup> For method of calculation, see text, p. 803.

<sup>3</sup> For definition, see footnote 6, table 1434. <sup>4</sup> Excludes establishments with fewer than 10 employees. <sup>5</sup> Includes forms of organization not shown separately.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1967 and 1977*, vol. I, and special report, *Type of Organization*, MC 77(SR)-3.

## NO. 1442. MANUFACTURES—SUMMARY, BY EMPLOYEE SIZE-CLASS: 1954 TO 1977

| ITEM AND YEAR  | All estab-lish-ments | ESTABLISHMENTS WITH TOTAL EMPLOYEES— |         |         |         |                | PERCENT DISTRIBUTION |       |         |         |                |
|--|----------------------|--------------------------------------|---------|---------|---------|----------------|----------------------|-------|---------|---------|----------------|
|  |                      | Under 20                             | 20-99   | 100-249 | 250-999 | 1,000 and over | Under 20             | 20-99 | 100-249 | 250-999 | 1,000 and over |
| Establishments (1,000): <sup>1</sup>                 |                      |                                      |         |         |         |                |                      |       |         |         |                |
| 1954.....  | 287                  | 196                                  | 64      | 16      | 9       | 2              | 68.4                 | 22.3  | 5.5     | 3.1     | .7             |
| 1963.....  | 307                  | 207                                  | 70      | 18      | 10      | 2              | 67.6                 | 22.9  | 5.7     | 3.2     | .6             |
| 1967.....  | 306                  | 199                                  | 74      | 20      | 11      | 2              | 65.0                 | 24.2  | 6.5     | 3.6     | .7             |
| 1972.....  | 313                  | 203                                  | 76      | 21      | 12      | 2              | 64.9                 | 24.3  | 6.7     | 3.8     | .6             |
| 1977.....  | 351                  | 237                                  | 78      | 22      | 12      | 2              | 67.5                 | 22.3  | 6.1     | 3.4     | .6             |
| Employees (1,000): <sup>1</sup>                      |                      |                                      |         |         |         |                |                      |       |         |         |                |
| 1954.....  | 15,646               | 1,196                                | 2,835   | 2,430   | 4,082   | 5,103          | 7.7                  | 18.1  | 15.5    | 26.0    | 32.6           |
| 1963.....  | 16,235               | 1,175                                | 3,072   | 2,727   | 4,312   | 4,951          | 7.3                  | 18.9  | 16.8    | 26.5    | 30.5           |
| 1967.....  | 18,492               | 1,042                                | 3,276   | 3,069   | 5,042   | 6,062          | 5.6                  | 17.7  | 16.6    | 27.3    | 32.8           |
| 1972.....  | 18,032               | 1,114                                | 3,356   | 3,232   | 5,155   | 5,175          | 6.2                  | 18.6  | 17.9    | 28.6    | 28.7           |
| 1977.....  | 18,515               | 1,206                                | 3,490   | 3,336   | 5,393   | 5,091          | 6.5                  | 18.8  | 18.0    | 29.1    | 27.5           |
| Payroll (mil. dol.): <sup>1</sup>                    |                      |                                      |         |         |         |                |                      |       |         |         |                |
| 1954.....  | 62,963               | 3,765                                | 10,246  | 9,171   | 16,264  | 23,516         | 6.0                  | 16.3  | 14.6    | 25.9    | 37.3           |
| 1963.....  | 93,289               | 5,502                                | 15,191  | 13,926  | 23,740  | 34,772         | 6.0                  | 16.3  | 15.0    | 25.5    | 37.3           |
| 1967.....  | 123,481              | 6,080                                | 19,205  | 18,172  | 31,688  | 48,335         | 4.9                  | 15.6  | 14.7    | 26.7    | 39.1           |
| 1972.....  | 160,414              | 8,645                                | 25,787  | 25,348  | 43,348  | 57,286         | 5.4                  | 16.1  | 15.8    | 27.0    | 35.7           |
| 1977.....  | 242,022              | 13,712                               | 38,685  | 37,768  | 66,166  | 85,692         | 5.7                  | 16.0  | 15.6    | 27.3    | 35.4           |
| Value added by manufacture (mil. dol.): <sup>3</sup> |                      |                                      |         |         |         |                |                      |       |         |         |                |
| 1954.....  | 116,848              | 7,207                                | 16,013  | 17,143  | 31,286  | 43,199         | 6.1                  | 15.4  | 14.7    | 26.8    | 37.0           |
| 1963.....  | 192,102              | 11,310                               | 30,073  | 28,826  | 51,054  | 71,056         | 5.9                  | 15.6  | 15.0    | 26.5    | 36.9           |
| 1967.....  | 261,984              | 13,271                               | 39,138  | 38,922  | 71,036  | 99,617         | 5.1                  | 14.9  | 14.9    | 27.1    | 38.0           |
| 1972.....  | 353,973              | 19,127                               | 54,870  | 56,467  | 99,923  | 123,586        | 5.4                  | 15.5  | 16.0    | 28.2    | 34.9           |
| 1977.....  | 585,063              | 30,077                               | 89,810  | 92,212  | 172,537 | 200,408        | 5.1                  | 15.4  | 15.8    | 29.5    | 34.3           |
| Value of shipments (mil. dol.): <sup>4</sup>         |                      |                                      |         |         |         |                |                      |       |         |         |                |
| 1954.....  | 420,528              | 24,684                               | 69,329  | 65,438  | 110,736 | 149,654        | 5.9                  | 16.5  | 15.8    | 26.3    | 35.6           |
| 1963.....  | 557,398              | 27,461                               | 87,481  | 87,367  | 150,770 | 204,319        | 4.9                  | 15.7  | 15.7    | 27.0    | 36.7           |
| 1967.....  | 756,534              | 38,584                               | 120,972 | 127,206 | 212,151 | 257,622        | 5.1                  | 16.0  | 16.8    | 28.0    | 34.1           |
| 1977.....  | 1,359,359            | 29,922                               | 211,417 | 220,453 | 404,627 | 456,586        | 2.2                  | 15.6  | 16.2    | 29.8    | 33.6           |

<sup>1</sup> Excludes administrative offices and auxiliary units.

<sup>2</sup> Individual size-class data do not add to total because they were derived from separate tabulations. <sup>3</sup> For definition, see footnote 6, table 1434. <sup>4</sup> See footnote 7, table 1434.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1967, Size of Establishments*, MC67(1)-2, and *Census of Manufactures, 1954, 1963, 1967, 1972, and 1977, General Summary*, MC77(1)-1.

**NO. 1443. MANUFACTURING EMPLOYMENT AND VALUE ADDED—PERCENT DISTRIBUTION, BY  
GEOGRAPHIC DIVISIONS: 1950 TO 1977**

[For composition of divisions, see fig. 1, inside front cover. For definition of "value added," see table 1434]

| GEOGRAPHIC DIVISION     | 1950 | 1954 | 1958 | 1963 | 1965 | 1967 | 1970 | 1972 | 1975 | 1976 | 1977 |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| <b>EMPLOYMENT</b>       |      |      |      |      |      |      |      |      |      |      |      |
| New England.....        | 9.8  | 9.0  | 8.7  | 8.4  | 8.2  | 8.1  | 7.6  | 7.2  | 7.1  | 7.1  | 7.1  |
| Middle Atlantic.....    | 26.9 | 26.6 | 25.7 | 24.0 | 23.4 | 22.6 | 21.8 | 20.7 | 19.5 | 18.5 | 18.7 |
| East North Central..... | 30.0 | 28.6 | 26.6 | 26.4 | 27.2 | 26.7 | 26.0 | 25.9 | 25.5 | 25.4 | 25.3 |
| West North Central..... | 5.6  | 6.0  | 6.0  | 6.0  | 6.0  | 6.2  | 6.2  | 6.3  | 6.8  | 6.6  | 6.6  |
| South Atlantic.....     | 11.1 | 11.0 | 11.8 | 12.5 | 12.7 | 12.9 | 13.6 | 14.4 | 14.3 | 14.4 | 14.3 |
| East South Central..... | 4.4  | 4.5  | 4.9  | 5.2  | 5.6  | 5.7  | 6.1  | 6.6  | 7.0  | 6.8  | 6.7  |
| West South Central..... | 4.0  | 4.5  | 5.0  | 5.1  | 5.3  | 5.6  | 6.1  | 6.5  | 7.0  | 7.4  | 7.3  |
| Mountain.....           | 1.1  | 1.1  | 1.4  | 1.7  | 1.6  | 1.6  | 1.8  | 2.0  | 2.2  | 2.4  | 2.4  |
| Pacific.....            | 7.0  | 8.8  | 10.0 | 10.6 | 10.0 | 10.6 | 10.3 | 10.4 | 10.9 | 11.5 | 11.5 |
| <b>VALUE ADDED</b>      |      |      |      |      |      |      |      |      |      |      |      |
| New England.....        | 8.3  | 7.8  | 7.4  | 7.1  | 7.1  | 7.2  | 6.8  | 6.4  | 6.2  | 6.1  | 6.2  |
| Middle Atlantic.....    | 26.2 | 26.0 | 24.6 | 22.7 | 22.5 | 21.9 | 21.4 | 19.9 | 18.5 | 17.6 | 17.7 |
| East North Central..... | 33.2 | 31.2 | 28.9 | 29.3 | 30.2 | 28.6 | 27.5 | 28.2 | 26.9 | 27.4 | 27.3 |
| West North Central..... | 5.7  | 6.1  | 6.3  | 6.1  | 6.2  | 6.4  | 6.9  | 6.7  | 7.0  | 7.0  | 6.8  |
| South Atlantic.....     | 9.4  | 9.1  | 10.1 | 11.0 | 11.1 | 11.2 | 11.8 | 12.5 | 12.1 | 12.4 | 12.3 |
| East South Central..... | 3.8  | 4.0  | 4.5  | 4.8  | 5.1  | 5.2  | 5.7  | 6.0  | 6.1  | 6.2  | 6.1  |
| West South Central..... | 4.3  | 4.9  | 5.5  | 5.7  | 5.8  | 6.3  | 6.7  | 7.0  | 8.9  | 8.9  | 8.9  |
| Mountain.....           | 1.2  | 1.2  | 1.6  | 1.8  | 1.6  | 1.7  | 1.9  | 2.1  | 2.4  | 2.3  | 2.4  |
| Pacific.....            | 7.9  | 9.7  | 11.1 | 11.5 | 10.7 | 11.3 | 11.1 | 11.3 | 11.9 | 12.2 | 12.2 |

Source: U.S. Bureau of the Census, *Census of Manufactures, 1963, 1967, 1972, 1977: General Summary*, MC77(1)-1; and *Annual Survey of Manufactures*.

**NO. 1444. CAPITAL IN MANUFACTURING ESTABLISHMENTS: 1960 TO 1979**

[In billions of dollars. Minus sign (—) denotes loss. Data refer to privately owned manufacturing establishments and are based on the capital expenditures data from the census of manufactures, the Annual Survey of Manufactures, and the inventory investment component of GNP. For details, see source. See *Historical Statistics, Colonial Times to 1970*, series P 107-122, for single-year figures prior to minor revisions issued in 1976]

| ITEM  | 1960  | 1965  | 1970  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>In current dollars:</b>                      |       |       |       |       |       |       |       |       |       |       |
| Purchases.....                                  | 10.3  | 16.8  | 22.4  | 27.9  | 32.8  | 31.3  | 39.2  | 45.3  | 50.6  | 60.1  |
| Equipment.....                                  | 7.4   | 12.5  | 16.5  | 21.7  | 25.0  | 23.4  | 32.0  | 37.6  | 39.7  | 45.7  |
| Structures.....                                 | 2.9   | 4.3   | 5.9   | 6.2   | 7.7   | 7.9   | 7.2   | 7.7   | 10.9  | 14.4  |
| Depreciation (straight-line) <sup>1</sup> ..... | 9.5   | 11.3  | 18.2  | 22.4  | 26.0  | 30.5  | 32.6  | 35.7  | 40.0  | 45.3  |
| Equipment.....                                  | 7.0   | 8.3   | 13.3  | 16.3  | 18.8  | 22.5  | 24.6  | 27.4  | 30.5  | 34.8  |
| Structures.....                                 | 2.5   | 3.0   | 4.8   | 6.1   | 7.2   | 8.0   | 8.0   | 8.4   | 9.3   | 10.6  |
| Net investment <sup>2</sup> .....               | .8    | 5.5   | 4.2   | 5.5   | 6.8   | .8    | 6.6   | 9.6   | 10.6  | 14.8  |
| Equipment.....                                  | .4    | 4.2   | 3.2   | 5.4   | 6.2   | .9    | 7.4   | 10.2  | 9.2   | 10.9  |
| Structures.....                                 | .4    | 1.3   | 1.1   | .1    | .5    | —     | —     | —     | 1.6   | 3.8   |
| Net value <sup>3</sup> .....                    | 148.7 | 182.3 | 286.9 | 363.6 | 444.0 | 468.3 | 505.0 | 551.0 | 626.0 | 734.3 |
| Equipment and structures.....                   | 90.6  | 108.6 | 176.1 | 220.0 | 257.6 | 280.4 | 301.1 | 331.8 | 372.3 | 424.6 |
| Equipment.....                                  | 51.4  | 62.6  | 101.1 | 123.5 | 147.4 | 165.3 | 184.2 | 207.4 | 232.6 | 264.5 |
| Structures.....                                 | 39.2  | 46.0  | 75.0  | 96.5  | 110.2 | 115.1 | 116.9 | 124.4 | 139.6 | 160.1 |
| Inventories (end of year).....                  | 58.1  | 73.7  | 110.8 | 143.6 | 186.4 | 187.9 | 203.9 | 219.2 | 253.7 | 309.7 |
| <b>In 1972 dollars:</b>                         |       |       |       |       |       |       |       |       |       |       |
| Purchases.....                                  | 15.0  | 22.6  | 24.2  | 26.9  | 28.8  | 27.5  | 28.1  | 30.7  | 31.8  | 34.9  |
| Equipment.....                                  | 9.8   | 15.8  | 17.5  | 21.1  | 22.3  | 17.9  | 22.9  | 25.4  | 25.0  | 26.9  |
| Structures.....                                 | 5.1   | 6.8   | 6.7   | 5.7   | 6.5   | 5.6   | 5.2   | 5.3   | 6.8   | 8.0   |
| Depreciation.....                               | 13.5  | 15.2  | 19.6  | 21.5  | 22.4  | 23.0  | 23.4  | 24.2  | 25.2  | 26.3  |
| Equipment.....                                  | 9.2   | 10.5  | 14.1  | 15.9  | 16.7  | 17.3  | 17.7  | 18.5  | 19.4  | 20.4  |
| Structures.....                                 | 4.3   | 4.7   | 5.4   | 5.6   | 5.6   | 5.7   | 5.7   | 5.7   | 5.8   | 5.9   |
| Net investment.....                             | 1.5   | 7.4   | 4.6   | 5.4   | 6.4   | .5    | 4.7   | 6.5   | 6.6   | 8.6   |
| Equipment.....                                  | .6    | 5.3   | 3.4   | 5.2   | 5.6   | .6    | 5.2   | 6.9   | 5.6   | 6.5   |
| Structures.....                                 | .8    | 2.1   | 1.3   | .1    | .9    | —     | —     | —     | 1.0   | 2.1   |
| Real net value <sup>3</sup> .....               | 207.1 | 237.4 | 303.6 | 318.9 | 330.2 | 326.4 | 333.6 | 344.3 | 356.2 | 372.1 |
| Equipment and structures <sup>4</sup> .....     | 134.7 | 148.3 | 186.5 | 195.3 | 201.6 | 202.2 | 206.8 | 213.3 | 219.9 | 228.6 |
| Equipment.....                                  | 68.5  | 78.2  | 105.0 | 113.9 | 119.4 | 120.0 | 125.2 | 132.0 | 137.6 | 144.1 |
| Structures.....                                 | 66.2  | 70.1  | 81.5  | 81.4  | 82.2  | 82.2  | 81.7  | 81.2  | 82.3  | 84.4  |
| Inventories (end of year).....                  | 72.4  | 89.1  | 117.1 | 123.6 | 128.6 | 124.2 | 126.8 | 131.0 | 136.3 | 143.5 |

<sup>1</sup> Estimates derived by using perpetual inventory method and assuming, in general, service lives of 85 percent of those shown in Internal Revenue Service's Bulletin F. <sup>2</sup> Represents the difference between purchases and depreciation. <sup>3</sup> End of year. <sup>4</sup> Represents real net value of equipment and structures at preceding year end plus net investment based on straight-line depreciation for year shown.

Source: U.S. Bureau of Economic Analysis, *Fixed Nonresidential Business and Residential Capital in the United States, 1925-1975; Survey of Current Business*, July issues; and unpublished data.

## No. 1445. MANUFACTURES SUMMARY,

[Sum of State totals may not add to U.S. total]

| 1  | STATE   | 1967                        |                           |                             |                     |   | 1972                        |                           |                            |                     |   |
|----|---------|-----------------------------|---------------------------|-----------------------------|---------------------|---|-----------------------------|---------------------------|----------------------------|---------------------|---|
|    |         | Establishments <sup>1</sup> |                           | All employees <sup>2</sup>  |                     | Value added by manufacture <sup>4</sup> (mil. dol.) | Establishments <sup>1</sup> |                           | All employees <sup>2</sup> |                     | Value added by manufacture <sup>4</sup> (mil. dol.) |
|    |         | Total                       | With 20 or more employees | Number <sup>3</sup> (1,000) | Payroll (mil. dol.) |   | Total                       | With 20 or more employees | Number <sup>3</sup>        | Payroll (mil. dol.) |   |
| 1  | U.S.    | 311,140                     | 110,256                   | 19,323                      | 132,209             | 261,984   | 320,701                     | 114,195                   | 19,027                     | 174,187             | 353,973   |
| 2  | N.E.    | 24,286                      | 9,164                     | 1,562                       | 10,190              | 18,972  | 23,731                      | 8,718                     | 1,362                      | 11,905              | 22,501  |
| 3  | Maine   | 2,385                       | 615                       | 111                         | 577                 | 1,070   | 2,075                       | 590                       | 100                        | 696                 | 1,376   |
| 4  | N.H.    | 1,481                       | 566                       | 95                          | 513                 | 932   | 1,434                       | 566                       | 90                         | 663                 | 1,279   |
| 5  | Vt.     | 925                         | 281                       | 43                          | 259                 | 515   | 860                         | 274                       | 37                         | 311                 | 576   |
| 6  | Mass.   | 10,963                      | 4,471                     | 714                         | 4,646               | 8,715   | 10,770                      | 4,153                     | 619                        | 5,486               | 10,678  |
| 7  | R.I.    | 2,703                       | 922                       | 122                         | 700                 | 1,351   | 2,756                       | 904                       | 118                        | 888                 | 1,764   |
| 8  | Conn.   | 5,829                       | 2,309                     | 478                         | 3,494               | 6,390   | 5,836                       | 2,231                     | 399                        | 3,860               | 6,828   |
| 9  | M.A.    | 76,422                      | 29,002                    | 4,360                       | 30,527              | 57,262  | 71,808                      | 26,983                    | 3,933                      | 37,120              | 70,330  |
| 10 | N.Y.    | 42,911                      | 14,730                    | 1,929                       | 13,852              | 25,247  | 38,341                      | 12,995                    | 1,679                      | 16,219              | 30,402  |
| 11 | N.J.    | 14,740                      | 5,903                     | 881                         | 6,325               | 12,738  | 15,069                      | 5,918                     | 836                        | 8,107               | 16,409  |
| 12 | Pa.     | 18,771                      | 8,369                     | 1,550                       | 10,350              | 18,277  | 18,398                      | 8,070                     | 1,418                      | 12,794              | 23,519  |
| 13 | E.N.C.  | 63,062                      | 24,563                    | 5,151                       | 38,495              | 75,016  | 64,673                      | 24,761                    | 4,933                      | 50,958              | 99,949  |
| 14 | Ohio    | 15,428                      | 6,285                     | 1,397                       | 10,523              | 20,435  | 16,390                      | 6,487                     | 1,345                      | 13,810              | 27,171  |
| 15 | Ind.    | 6,920                       | 2,917                     | 710                         | 5,023               | 10,308  | 7,354                       | 3,049                     | 704                        | 6,882               | 14,112  |
| 16 | Ill.    | 18,536                      | 7,477                     | 1,397                       | 10,014              | 20,017  | 18,617                      | 7,345                     | 1,306                      | 12,800              | 25,847  |
| 17 | Mich.   | 14,340                      | 5,157                     | 1,134                       | 8,357               | 17,242  | 14,467                      | 5,019                     | 1,076                      | 12,745              | 23,376  |
| 18 | Wis.    | 7,838                       | 2,727                     | 512                         | 3,578               | 7,014   | 7,845                       | 2,861                     | 501                        | 4,722               | 9,443   |
| 19 | W.N.C.  | 20,623                      | 6,893                     | 1,206                       | 8,165               | 16,773  | 21,467                      | 7,393                     | 1,202                      | 10,923              | 23,585  |
| 20 | Minn.   | 5,409                       | 1,778                     | 300                         | 2,107               | 4,080   | 5,598                       | 1,930                     | 302                        | 2,889               | 5,524   |
| 21 | Iowa    | 3,388                       | 1,092                     | 210                         | 1,435               | 3,251   | 3,387                       | 1,170                     | 216                        | 2,039               | 4,758   |
| 22 | Mo.     | 6,545                       | 2,457                     | 452                         | 3,049               | 5,895   | 6,732                       | 2,470                     | 434                        | 3,897               | 8,169   |
| 23 | N. Dak. | 454                         | 92                        | 8                           | 42                  | 113   | 482                         | 117                       | 10                         | 79                  | 201   |
| 24 | S. Dak. | 604                         | 137                       | 16                          | 93                  | 171   | 606                         | 151                       | 17                         | 135                 | 285   |
| 25 | Nebr.   | 1,672                       | 525                       | 77                          | 476                 | 1,150   | 1,723                       | 598                       | 85                         | 704                 | 1,733   |
| 26 | Kans.   | 2,551                       | 812                       | 144                         | 965                 | 2,112   | 2,839                       | 957                       | 137                        | 1,181               | 2,915   |
| 27 | S.A.    | 37,961                      | 13,138                    | 2,502                       | 14,014              | 29,313  | 41,534                      | 14,981                    | 2,739                      | 20,638              | 44,349  |
| 28 | Del.    | 528                         | 253                       | 71                          | 588                 | 958   | 567                         | 243                       | 69                         | 755                 | 1,292   |
| 29 | Md.     | 3,401                       | 1,463                     | 288                         | 1,956               | 3,781   | 3,579                       | 1,437                     | 256                        | 2,386               | 4,707   |
| 30 | D.C.    | 593                         | 155                       | 23                          | 179                 | 333   | 564                         | 135                       | 19                         | 220                 | 389   |
| 31 | Va.     | 4,938                       | 1,820                     | 340                         | 1,905               | 4,068   | 4,837                       | 1,768                     | 375                        | 2,826               | 6,178   |
| 32 | W. Va.  | 1,844                       | 569                       | 124                         | 832                 | 2,170   | 1,734                       | 607                       | 121                        | 1,098               | 2,647   |
| 33 | N.C.    | 8,266                       | 3,379                     | 643                         | 3,066               | 6,607   | 8,632                       | 3,794                     | 744                        | 4,929               | 11,015  |
| 34 | S.C.    | 3,465                       | 1,251                     | 304                         | 1,502               | 3,030   | 3,719                       | 1,441                     | 345                        | 2,345               | 4,966   |
| 35 | Ga.     | 6,976                       | 2,268                     | 423                         | 2,231               | 4,684   | 7,627                       | 2,663                     | 467                        | 3,330               | 7,370   |
| 36 | Fla.    | 7,950                       | 2,186                     | 285                         | 1,755               | 3,683   | 10,275                      | 2,893                     | 343                        | 2,750               | 5,787   |
| 37 | E.S.C.  | 15,746                      | 5,528                     | 1,092                       | 5,909               | 13,718  | 16,525                      | 6,246                     | 1,249                      | 9,211               | 21,234  |
| 38 | Ky.     | 2,994                       | 1,135                     | 225                         | 1,352               | 3,636   | 3,167                       | 1,259                     | 259                        | 2,160               | 5,682   |
| 39 | Tenn.   | 5,040                       | 2,022                     | 418                         | 2,190               | 4,921   | 5,647                       | 2,291                     | 467                        | 3,352               | 7,682   |
| 40 | Ala.    | 4,951                       | 1,446                     | 289                         | 1,603               | 3,526   | 4,984                       | 1,630                     | 323                        | 2,397               | 5,085   |
| 41 | Miss.   | 2,761                       | 925                       | 160                         | 764                 | 1,635   | 2,727                       | 1,066                     | 200                        | 1,302               | 2,825   |
| 42 | W.S.C.  | 21,883                      | 6,727                     | 1,083                       | 6,855               | 16,617  | 24,018                      | 7,873                     | 1,239                      | 10,281              | 24,596  |
| 43 | Ark.    | 2,911                       | 927                       | 144                         | 666                 | 1,558   | 2,897                       | 1,053                     | 181                        | 1,152               | 2,800   |
| 44 | La.     | 3,639                       | 1,016                     | 165                         | 1,084               | 2,790   | 3,657                       | 1,133                     | 179                        | 1,601               | 4,273   |
| 45 | Okla.   | 2,611                       | 745                       | 118                         | 764                 | 1,346   | 3,042                       | 897                       | 143                        | 1,188               | 2,270   |
| 46 | Tex.    | 12,722                      | 4,039                     | 658                         | 4,340               | 10,922  | 14,422                      | 4,790                     | 736                        | 6,340               | 15,253  |
| 47 | Mt.     | 8,679                       | 2,243                     | 315                         | 2,123               | 4,522   | 10,119                      | 2,831                     | 388                        | 3,469               | 7,446   |
| 48 | Mont.   | 923                         | 191                       | 20                          | 130                 | 312   | 943                         | 206                       | 21                         | 185                 | 463   |
| 49 | Idaho   | 1,131                       | 303                       | 37                          | 220                 | 503   | 1,190                       | 350                       | 43                         | 340                 | 821   |
| 50 | Wyo.    | 331                         | 65                        | 6                           | 37                  | 86  | 377                         | 78                        | 7                          | 57                  | 144   |
| 51 | Colo.   | 2,461                       | 664                       | 104                         | 731                 | 1,509   | 2,841                       | 834                       | 133                        | 1,298               | 2,504   |
| 52 | N. Mex. | 749                         | 169                       | 17                          | 99                  | 205   | 926                         | 227                       | 24                         | 157                 | 358   |
| 53 | Ariz.   | 1,630                       | 424                       | 77                          | 543                 | 995   | 2,037                       | 597                       | 94                         | 855                 | 1,880   |
| 54 | Utah    | 1,124                       | 353                       | 47                          | 315                 | 778   | 1,356                       | 430                       | 57                         | 486                 | 1,069   |
| 55 | Nev.    | 330                         | 74                        | 7                           | 50                  | 134   | 447                         | 109                       | 10                         | 92                  | 208   |
| 56 | Pac.    | 42,433                      | 12,972                    | 2,050                       | 15,911              | 29,675  | 46,826                      | 14,400                    | 1,982                      | 19,682              | 39,968  |
| 57 | Wash.   | 5,014                       | 1,375                     | 271                         | 2,119               | 3,764   | 5,345                       | 1,463                     | 226                        | 2,308               | 4,721   |
| 58 | Oreg.   | 4,437                       | 1,275                     | 163                         | 1,083               | 2,061   | 4,670                       | 1,461                     | 179                        | 1,627               | 3,490   |
| 59 | Calif.  | 31,962                      | 10,012                    | 1,584                       | 12,515              | 23,394  | 35,699                      | 11,149                    | 1,545                      | 15,478              | 31,173  |
| 60 | Alaska  | 323                         | 95                        | 8                           | 56                  | 130   | 342                         | 91                        | 8                          | 77                  | 171   |
| 61 | Hawaii  | 697                         | 215                       | 25                          | 140                 | 326   | 770                         | 236                       | 25                         | 191                 | 410   |

X Not applicable. <sup>1</sup> Includes central administrative offices and auxiliary units. <sup>2</sup> Includes employment and payroll at administrative offices and auxiliary units. <sup>3</sup> "All employees" represents the average of "production workers" plus all other employees for the payroll period ended nearest the 12th of March. "Production workers" represents the average of the employment for the payroll periods ended nearest the 12th of March, May, August, and November.

BY STATES: 1967 TO 1977

because U.S. and State figures were independently derived]

| 1977                        |                            |                              |                     |                                 |                   |   | Leading major industry groups ranked by value added by manufacture |    |
|-----------------------------|----------------------------|------------------------------|---------------------|---------------------------------|-------------------|---|--|----|
| Establishments <sup>1</sup> |                            | All employees                |                     | Production workers <sup>2</sup> |                   | Value added by manufacture <sup>4</sup> (mil. dol.) |  |    |
| Total                       | With 20 or more employ-ees | Num-ber <sup>3</sup> (1,000) | Payroll (mil. dol.) | Num-ber <sup>3</sup> (1,000)    | Wages (mil. dol.) |   |  |    |
| 359,928                     | 118,699                    | 19,597                       | 264,013             | 13,691                          | 157,156           | 585,096   | Mach. exc. electrical; trans. equip.; chemicals.                   | 1  |
| 25,737                      | 8,881                      | 1,390                        | 17,602              | 943                             | 9,623             | 35,587  | (X)  | 2  |
| 2,157                       | 595                        | 103                          | 1,078               | 84                              | 781               | 2,343   | Paper; Leather; lumber.  | 3  |
| 1,825                       | 623                        | 95                           | 1,029               | 72                              | 645               | 2,175   | Elec. equip.; mach. exc. elec.; paper.                             | 4  |
| 1,030                       | 298                        | 42                           | 498                 | 29                              | 270               | 1,050   | Elec. equip.; mach. exc. elec.; fabricated metal.                  | 5  |
| 11,133                      | 4,054                      | 613                          | 7,819               | 408                             | 4,199             | 16,349  | Mach. exc. elec.; elec. equip.; instruments.                       | 6  |
| 3,107                       | 945                        | 125                          | 1,327               | 95                              | 825               | 2,737   | Misc. mfg.; fabricated metal; primary metal.                       | 7  |
| 6,485                       | 2,366                      | 412                          | 5,852               | 255                             | 2,902             | 10,934  | Fabricated metal; mach. exc. elec.; trans. equip.                  | 8  |
| 71,009                      | 24,904                     | 3,617                        | 49,843              | 2,382                           | 26,929            | 103,160   | (X)  | 9  |
| 36,578                      | 11,425                     | 1,510                        | 20,876              | 958                             | 10,419            | 44,290  | Print. and publish.; instru'ts; mach. exc. elec.                   | 10 |
| 15,696                      | 5,775                      | 778                          | 10,924              | 490                             | 5,562             | 22,853  | Chemicals; food; elec. equip.                                      | 11 |
| 18,735                      | 7,704                      | 1,329                        | 18,043              | 934                             | 10,949            | 36,017  | Primary metal; mach. exc. electrical; food.                        | 12 |
| 69,237                      | 25,941                     | 4,974                        | 76,908              | 3,475                           | 48,128            | 160,223   | (X)  | 13 |
| 17,354                      | 6,728                      | 1,331                        | 20,356              | 924                             | 12,908            | 43,055  | Trans. equip.; mach. exc. elec.; primary metal.                    | 14 |
| 8,061                       | 3,229                      | 706                          | 10,439              | 522                             | 7,047             | 22,718  | Elec. equip.; trans. equip.; primary metal.                        | 15 |
| 19,517                      | 7,441                      | 1,286                        | 18,741              | 858                             | 10,757            | 40,279  | Mach. exc. elec.; food; elec. equip.                               | 16 |
| 15,627                      | 5,380                      | 1,116                        | 20,054              | 789                             | 12,721            | 37,566  | Trans. equip.; mach. exc. elec.; fab. metal.                       | 17 |
| 8,678                       | 3,163                      | 535                          | 7,318               | 381                             | 4,697             | 16,806  | Mach. exc. elec.; food; paper.                                     | 18 |
| 24,321                      | 7,804                      | 1,297                        | 17,389              | 891                             | 10,331            | 40,666  | (X)  | 19 |
| 6,637                       | 2,126                      | 332                          | 4,693               | 211                             | 2,413             | 9,605   | Mach. exc. elec.; food; elec. equip.                               | 20 |
| 3,783                       | 1,245                      | 240                          | 3,383               | 171                             | 2,191             | 8,684   | Mach. exc. elec.; food; chemicals.                                 | 21 |
| 7,354                       | 2,429                      | 433                          | 5,704               | 299                             | 3,405             | 13,042  | Trans. equip.; food; chemicals.                                    | 22 |
| 571                         | 145                        | 14                           | 162                 | 9                               | 97                | 473   | Food; mach. exc. elec.; print. and publishing.                     | 23 |
| 740                         | 195                        | 23                           | 251                 | 17                              | 169               | 612   | Food; mach. exc. electrical; lumber.                               | 24 |
| 1,965                       | 626                        | 88                           | 1,075               | 63                              | 691               | 2,867   | Food; mach. exc. elec.; elec. equip.                               | 25 |
| 3,270                       | 1,037                      | 168                          | 2,115               | 122                             | 1,371             | 5,338   | Trans. equip.; mach. exc. elec.; food.                             | 26 |
| 47,692                      | 15,560                     | 2,823                        | 31,502              | 2,131                           | 19,996            | 72,304  | (X)  | 27 |
| 619                         | 231                        | 67                           | 1,141               | 32                              | 410               | 1,596   | Chemicals; food; petroleum.  | 28 |
| 3,937                       | 1,351                      | 244                          | 3,420               | 163                             | 1,976             | 7,116   | Food; electronic equip; primary metal.                             | 29 |
| 555                         | 130                        | 19                           | 298                 | 8                               | 102               | 610   | Print. and publishing; food; fabricated metal.                     | 30 |
| 5,519                       | 1,879                      | 395                          | 4,442               | 302                             | 2,917             | 10,882  | Chemicals; food; tobacco.  | 31 |
| 1,857                       | 583                        | 117                          | 1,621               | 89                              | 1,124             | 3,880   | Chem.; prim. metal; stone, clay, glass prod.                       | 32 |
| 9,954                       | 4,005                      | 765                          | 7,519               | 611                             | 5,086             | 18,231  | Textiles; tobacco; chemicals.                                      | 33 |
| 4,229                       | 1,560                      | 374                          | 3,805               | 300                             | 2,640             | 8,186   | Textiles; chemicals; mach. exc. elec.                              | 34 |
| 8,623                       | 2,906                      | 485                          | 5,125               | 376                             | 3,404             | 12,549  | Textiles; trans. equipment; food.                                  | 35 |
| 12,399                      | 2,915                      | 358                          | 4,133               | 250                             | 2,336             | 9,255   | Food; elec. equip.; chemicals.                                     | 36 |
| 19,187                      | 6,797                      | 1,328                        | 14,506              | 1,036                           | 9,959             | 36,234  | (X)  | 37 |
| 3,548                       | 1,318                      | 278                          | 3,452               | 209                             | 2,303             | 9,546   | Mach. exc. elec.; chemicals, elec. equip.                          | 38 |
| 6,487                       | 2,477                      | 490                          | 5,219               | 376                             | 3,481             | 12,663  | Chemicals; food; mach. exc. elec.                                  | 39 |
| 5,863                       | 1,855                      | 341                          | 3,773               | 273                             | 2,698             | 8,406   | Primary metals; paper; chemicals.                                  | 40 |
| 3,289                       | 1,147                      | 219                          | 2,062               | 178                             | 1,477             | 5,619   | Trans. equip.; lumber; elec. equip.                                | 41 |
| 29,796                      | 9,048                      | 1,442                        | 18,319              | 1,017                           | 10,990            | 52,043  | (X)  | 42 |
| 3,595                       | 1,101                      | 197                          | 1,932               | 161                             | 1,401             | 4,882   | Food; electronic equip.; paper.                                    | 43 |
| 4,276                       | 1,236                      | 195                          | 2,683               | 145                             | 1,799             | 9,418   | Chemicals; petroleum; food.  | 44 |
| 3,818                       | 1,067                      | 164                          | 2,051               | 110                             | 1,164             | 4,662   | Mach. exc. elec.; fabricated metal; petroleum.                     | 45 |
| 18,107                      | 5,644                      | 886                          | 11,653              | 601                             | 6,626             | 33,150  | Chemicals, petroleum; mach. exc. electrical                        | 46 |
| 13,808                      | 3,220                      | 461                          | 5,991               | 312                             | 3,483             | 13,620  | (X)  | 47 |
| 1,169                       | 203                        | 24                           | 317                 | 19                              | 240               | 847   | Lumber; food; petroleum.   | 48 |
| 1,495                       | 379                        | 52                           | 625                 | 40                              | 432               | 1,430   | Lumber; food; chemicals.   | 49 |
| 505                         | 102                        | 9                            | 111                 | 6                               | 74                | 381   | Petroleum; chemicals; stone, glass, clay.                          | 50 |
| 3,948                       | 961                        | 153                          | 2,125               | 98                              | 1,143             | 4,472   | Food; instruments; mach. exc. elec.                                | 51 |
| 1,323                       | 258                        | 29                           | 297                 | 21                              | 184               | 734   | Food; electronic equip.; stone, clay, glass.                       | 52 |
| 2,892                       | 677                        | 111                          | 1,463               | 70                              | 781               | 3,333   | Mach. exc. elec.; elec. equip.; trans. equip.                      | 53 |
| 1,748                       | 494                        | 70                           | 867                 | 49                              | 522               | 1,974   | Mach. exc. electrical; food; trans. equip.                         | 54 |
| 729                         | 147                        | 15                           | 192                 | 10                              | 113               | 495   | Food; stone, clay, glass; elec. equip.                             | 55 |
| 59,106                      | 16,534                     | 2,255                        | 31,929              | 1,505                           | 17,720            | 71,245  | (X)  | 56 |
| 6,723                       | 1,712                      | 265                          | 4,054               | 181                             | 2,385             | 8,955   | Trans. equipment; lumber; food.                                    | 57 |
| 5,716                       | 1,580                      | 202                          | 2,760               | 155                             | 1,902             | 6,138   | Lumber; food; paper.   | 58 |
| 45,289                      | 12,883                     | 1,752                        | 24,672              | 1,143                           | 13,151            | 54,862  | Trans. equip.; elec. equip.; food.                                 | 59 |
| 429                         | 128                        | 11                           | 166                 | 9                               | 123               | 504   | Food; lumber; printing and publishing.                             | 60 |
| 949                         | 231                        | 25                           | 277                 | 17                              | 161               | 786   | Food; petroleum; print. and publishing.                            | 61 |

<sup>4</sup> For definition, see footnote 6, table 1434.Source: U.S. Bureau of the Census, *Census of Manufactures, 1967 and 1972, General Summary*, MC 67(1)-1 and MC 72(1)-1; and *Census of Manufactures, 1977*, vol. III, Area Statistics.

**NO. 1446. LARGE MANUFACTURING COMPANIES—ADEQUACY OF CAPITAL FACILITIES TO MEET  
CURRENT DEMAND: 1965 TO 1979**

[Percent distribution. As of July. Number of companies weighted by company assets. Based on replies to the question: In view of the current rate of order bookings and customer inquiries, are your plant-and-equipment facilities now inadequate, Sufficient, or More than adequate? as part of a quarterly survey conducted among the 1,000 largest manufacturing companies as listed by total assets]

| YEAR      | Inadequate | Sufficient | More than adequate | YEAR      | Inadequate | Sufficient | More than adequate |
|-----------|------------|------------|--------------------|-----------|------------|------------|--------------------|
| 1965..... | 31         | 67         | 2                  | 1973..... | 45         | 53         | 2                  |
| 1966..... | 47         | 51         | 2                  | 1974..... | 57         | 40         | 3                  |
| 1967..... | 33         | 62         | 5                  | 1975..... | 19         | 43         | 38                 |
| 1968..... | 26         | 72         | 2                  | 1976..... | 18         | 65         | 17                 |
| 1969..... | 37         | 59         | 4                  | 1977..... | 20         | 66         | 14                 |
| 1970..... | 28         | 60         | 12                 | 1978..... | 20         | 62         | 18                 |
| 1971..... | 18         | 59         | 23                 | 1979..... | 20         | 69         | 11                 |
| 1972..... | 16         | 71         | 13                 |           |            |            |                    |

Source: The Conference Board, New York, N.Y., *Quarterly Survey of Capital Investment and Supply Conditions in Manufacturing*. (Copyright.)

**NO. 1447. LARGE MANUFACTURING COMPANIES—CAPITAL APPROPRIATIONS AND EXPENDITURES,  
BY INDUSTRY: 1970 TO 1978**

[In millions of dollars, except percent. Based on reports submitted by companies responding to The Conference Board's *Quarterly Survey of Capital Appropriations*. This survey is conducted among the 1,000 largest manufacturing companies as listed by total assets. Appropriations: Authorizations by management to spend funds for new plant and equipment; Expenditures: Cost of new plant and equipment]

| YEAR AND ITEM                  | Total  | Food and beverages | Paper and allied products | Chemicals and allied products | Petroleum and coal products | Primary iron and steel | Electrical machinery and equip. | Machinery, except electrical | Motor vehicles and equipment | Other manufacturing |
|--------------------------------|--------|--------------------|---------------------------|-------------------------------|-----------------------------|------------------------|---------------------------------|------------------------------|------------------------------|---------------------|
| 1970: Appropriations.....      | 25,337 | 1,587              | 1,034                     | 3,036                         | 5,704                       | 1,534                  | 2,584                           | 3,098                        | 1,276                        | 5,484               |
| Expenditures.....              | 26,321 | 1,598              | 1,046                     | 3,143                         | 5,559                       | 1,746                  | 2,408                           | 3,093                        | 1,589                        | 6,039               |
| Percent of appropriations..... | 103.9  | 100.7              | 101.2                     | 103.5                         | 97.5                        | 113.8                  | 93.2                            | 99.8                         | 132.4                        | 110.1               |
| 1973: Appropriations.....      | 42,909 | 3,005              | 1,870                     | 5,700                         | 7,886                       | 1,945                  | 3,149                           | 4,280                        | 3,945                        | 11,129              |
| Expenditures.....              | 28,510 | 1,958              | 1,206                     | 3,673                         | 4,787                       | 1,358                  | 2,485                           | 3,428                        | 2,123                        | 7,492               |
| Percent of appropriations..... | 66.4   | 65.2               | 64.5                      | 64.4                          | 60.7                        | 69.8                   | 78.9                            | 80.1                         | 53.8                         | 67.3                |
| 1974: Appropriations.....      | 53,707 | 3,014              | 3,041                     | 7,625                         | 12,885                      | 5,128                  | 2,730                           | 5,849                        | 1,697                        | 11,758              |
| Expenditures.....              | 39,985 | 2,560              | 1,802                     | 5,834                         | 7,410                       | 2,077                  | 2,798                           | 4,605                        | 2,515                        | 10,364              |
| Percent of appropriations..... | 74.5   | 84.9               | 59.3                      | 76.5                          | 57.6                        | 40.5                   | 102.5                           | 78.7                         | 148.2                        | 88.3                |
| 1975: Appropriations.....      | 45,034 | 3,573              | 1,902                     | 7,466                         | 13,986                      | 3,102                  | 1,978                           | 3,748                        | 1,015                        | 8,264               |
| Expenditures.....              | 45,557 | 3,081              | 1,905                     | 7,172                         | 11,907                      | 3,552                  | 2,227                           | 4,014                        | 1,808                        | 9,891               |
| Percent of appropriations..... | 101.2  | 86.2               | 100.2                     | 96.1                          | 85.1                        | 114.5                  | 112.6                           | 107.1                        | 178.1                        | 119.7               |
| 1976: Appropriations.....      | 50,034 | 3,634              | 1,585                     | 7,906                         | 11,231                      | 2,897                  | 2,853                           | 5,001                        | 3,517                        | 11,210              |
| Expenditures.....              | 47,055 | 3,686              | 2,073                     | 7,486                         | 12,551                      | 3,552                  | 2,445                           | 4,442                        | 1,701                        | 9,139               |
| Percent of appropriations..... | 94.0   | 95.6               | 130.8                     | 94.7                          | 111.8                       | 122.6                  | 85.7                            | 88.8                         | 48.4                         | 81.5                |
| 1977: Appropriations.....      | 63,420 | 4,866              | 2,648                     | 7,854                         | 17,527                      | 2,516                  | 3,189                           | 5,105                        | 5,268                        | 14,347              |
| Expenditures.....              | 52,498 | 3,882              | 1,825                     | 7,545                         | 14,350                      | 3,048                  | 3,064                           | 4,747                        | 3,321                        | 10,716              |
| Percent of appropriations..... | 82.8   | 78.2               | 68.9                      | 96.1                          | 81.9                        | 121.1                  | 96.1                            | 93.0                         | 63.0                         | 74.7                |
| 1978: Appropriations.....      | 67,156 | 4,898              | 2,795                     | 7,759                         | 15,142                      | 3,083                  | 4,421                           | 6,306                        | 6,981                        | 15,771              |
| Expenditures.....              | 58,356 | 4,217              | 2,140                     | 7,797                         | 14,495                      | 2,671                  | 3,668                           | 5,445                        | 4,508                        | 13,415              |
| Percent of appropriations..... | 86.9   | 86.1               | 76.6                      | 100.5                         | 95.7                        | 86.6                   | 83.0                            | 86.3                         | 64.6                         | 85.1                |

Source: The Conference Board, New York, N.Y., *Quarterly Survey of Capital Appropriations*. (Copyright.)

**NO. 1448. EXPORTS AND EXPORT-RELATED EMPLOYMENT OF MANUFACTURING  
ESTABLISHMENTS: 1960 TO 1976**

[Includes only direct exports and products shipped to exporters or others for export. Excludes output of the supplying establishments that furnish parts or materials to the manufacturer producing the product exported. Therefore, estimates tend to understate the importance of the export trade for the domestic economy when compared to the total value of shipments of all manufacturers]

| ITEM   | Unit          | 1960   | 1963   | 1966   | 1969   | 1971   | 1972   | 1976    |
|--|---------------|--------|--------|--------|--------|--------|--------|---------|
| Value of shipments, total.....                     | Bil. dol..... | (NA)   | 420.5  | 538.7  | 642.6  | 671.0  | 756.5  | 1,185.7 |
| For export.....                                    | Bil. dol..... | 14.5   | 16.5   | 21.3   | 29.2   | 33.1   | 38.7   | 83.1    |
| Percent of total.....                              | Percent.....  | (NA)   | 3.9    | 4.0    | 4.5    | 4.9    | 4.8    | 7.0     |
| Manufacturing employment, total <sup>1</sup> ..... | 1,000.....    | 16,763 | 16,858 | 19,024 | 20,036 | 18,363 | 19,027 | 18,753  |
| Export related.....                                | 1,000.....    | (NA)   | (NA)   | (NA)   | 779    | 746    | 770    | 1,173   |
| Percent of total.....                              | Percent.....  | (NA)   | (NA)   | (NA)   | 3.9    | 4.1    | 4.0    | 6.3     |

NA Not available. <sup>1</sup> Includes employees of central administrative and auxiliary offices.

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, 1976*, M76(SA)-8.

**NO. 1449. EXPORTS SHIPMENTS AND EXPORT-RELATED EMPLOYMENT OF MANUFACTURING  
ESTABLISHMENTS, BY STATES: 1976**

[See headnote, table 1448 and footnote 1 of same table concerning employment figures]

| STATE             | VALUE OF SHIP-<br>MENTS (mil. dol.) |                | EMPLOYMENT <sup>1</sup><br>(1,000) |                   | STATE       | VALUE OF SHIP-<br>MENTS (mil. dol.) |                | EMPLOYMENT <sup>1</sup><br>(1,000) |                   |
|-------------------|-------------------------------------|----------------|------------------------------------|-------------------|-------------|-------------------------------------|----------------|------------------------------------|-------------------|
|                   | Total                               | For<br>exports | Total                              | Export<br>related |             | Total                               | For<br>exports | Total                              | Export<br>related |
| <b>U.S.</b> ..... | <b>1,185,733</b>                    | <b>83,098</b>  | <b>18,753</b>                      | <b>1,173</b>      | Mo.....     | 27,469                              | 1,622          | 424                                | 23                |
| Ala.....          | 17,988                              | 832            | 330                                | 13                | Mont.....   | 2,525                               | 44             | 22                                 | (2)               |
| Alaska.....       | 992                                 | 233            | 8                                  | 2                 | Nebr.....   | 8,773                               | 309            | 88                                 | 4                 |
| Ariz.....         | 6,233                               | 639            | 99                                 | 12                | Nev.....    | 725                                 | 27             | 14                                 | (2)               |
| Ark.....          | 10,605                              | 651            | 188                                | 7                 | N.H.....    | 3,495                               | 291            | 88                                 | 7                 |
| Calif.....        | 102,041                             | 8,072          | 1,600                              | 124               | N.J.....    | 45,711                              | 2,660          | 736                                | 35                |
| Colo.....         | 9,536                               | 616            | 143                                | 9                 | N. Mex..... | 1,534                               | 69             | 30                                 | 1                 |
| Conn.....         | 18,229                              | 1,958          | 405                                | 37                | N.Y.....    | 76,087                              | 5,320          | 1,455                              | 84                |
| Del.....          | 5,043                               | 188            | 66                                 | 2                 | N.C.....    | 35,819                              | 2,202          | 739                                | 32                |
| D.C.....          | 932                                 | 7              | 18                                 | (2)               | N. Dak..... | 1,236                               | 85             | 14                                 | 1                 |
| Fla.....          | 18,091                              | 1,363          | 331                                | 20                | Ohio.....   | 83,600                              | 5,794          | 1,283                              | 84                |
| Ga.....           | 28,391                              | 1,364          | 469                                | 21                | Okla.....   | 10,126                              | 579            | 150                                | 9                 |
| Hawaii.....       | 1,855                               | 183            | 24                                 | 3                 | Oreg.....   | 12,299                              | 824            | 188                                | 13                |
| Idaho.....        | 3,448                               | 169            | 53                                 | 2                 | Pa.....     | 71,919                              | 4,706          | 1,310                              | 82                |
| Ill.....          | 82,351                              | 6,660          | 1,256                              | 87                | R.I.....    | 4,533                               | 269            | 115                                | 6                 |
| Ind.....          | 45,181                              | 2,828          | 677                                | 40                | S.C.....    | 16,610                              | 935            | 371                                | 16                |
| Iowa.....         | 20,772                              | 1,500          | 231                                | 20                | S. Dak..... | 1,609                               | 68             | 22                                 | 1                 |
| Kans.....         | 14,658                              | 635            | 168                                | 10                | Tenn.....   | 24,756                              | 1,253          | 479                                | 19                |
| Ky.....           | 20,269                              | 1,137          | 277                                | 12                | Tex.....    | 77,120                              | 5,201          | 825                                | 59                |
| La.....           | 25,225                              | 1,383          | 190                                | 9                 | Utah.....   | 4,641                               | 224            | 71                                 | 4                 |
| Maine.....        | 4,423                               | 255            | 99                                 | 4                 | Vt.....     | 2,056                               | 200            | 41                                 | 4                 |
| Md.....           | 14,762                              | 641            | 243                                | 11                | Va.....     | 20,471                              | 1,545          | 375                                | 21                |
| Mass.....         | 26,918                              | 2,502          | 591                                | 48                | Wash.....   | 18,843                              | 3,235          | 244                                | 30                |
| Mich.....         | 80,327                              | 6,888          | 1,050                              | 74                | W. Va.....  | 7,938                               | 447            | 120                                | 5                 |
| Minn.....         | 20,440                              | 1,567          | 321                                | 23                | Wis.....    | 35,427                              | 2,209          | 520                                | 32                |
| Miss.....         | 10,868                              | 698            | 210                                | 10                | Wyo.....    | 833                                 | 10             | 7                                  | (s)               |

S Withheld, estimate did not meet publication standards. Z Fewer than 500. <sup>1</sup> Total State data do not add to U.S. totals because figures were independently derived.

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, 1976*, M76(AS)-8.1.

**NO. 1450. U.S. SHARE OF WORLD EXPORTS OF MANUFACTURES: 1960 TO 1979**

[World exports=exports from 15 major trading countries: U.S., Austria, Belgium-Luxembourg, Canada, Denmark, France, Fed. Rep. of Germany, Italy, Japan, Netherlands, Norway, Sweden, Switzerland, and U.K. Percents are calculated from the values of exports of the six commodity groups from each of the 15 countries. Incorporated in the calculations are the changing relationships between each supplier's currency and the currencies of its trading partners. For this purpose, export-weighted exchange rate indices are calculated for each supplier, using official rates of exchange in 67 principal markets]

| YEAR      | U.S.<br>MANUFACTURES<br>EXPORTS   |                        | EXPORT                                | U.S. MANUFACTURES EXPORTS      |              |                  |             |
|-----------|-----------------------------------|------------------------|---------------------------------------|--------------------------------|--------------|------------------|-------------|
|           | Total <sup>1</sup><br>(bil. dol.) | Percent<br>of<br>world |                                       | Total <sup>1</sup> (bil. dol.) |              | Percent of world |             |
|           |                                   |                        |                                       | 1978                           | 1979         | 1978             | 1979        |
|           |                                   |                        | <b>Total</b> .....                    | <b>94.5</b>                    | <b>116.7</b> | <b>17.0</b>      | <b>17.4</b> |
| 1960..... | 12.7                              | 25.3                   | Nonelectrical machinery .....         | 27.4                           | 33.2         | 23.0             | 23.9        |
| 1965..... | 17.3                              | 22.5                   | Transport equipment.....              | 22.2                           | 25.8         | 22.4             | 22.7        |
| 1970..... | 29.4                              | 21.1                   | Chemicals .....                       | 12.6                           | 17.3         | 17.3             | 17.9        |
| 1975..... | 71.0                              | 19.1                   | Electrical machinery .....            | 9.7                            | 11.6         | 17.8             | 18.5        |
| 1976..... | 77.2                              | 18.8                   | Basic manufactures <sup>2</sup> ..... | 12.5                           | 16.2         | 8.7              | 9.2         |
| 1977..... | 80.2                              | 17.3                   | Misc. articles <sup>3</sup> .....     | 10.2                           | 12.6         | 15.0             | 15.1        |

<sup>1</sup> Excludes mineral fuel products, processed food, fats, oils, firearms of war, and ammunition. <sup>2</sup> Includes semimanufactures of various materials, such as metals, fibers, wood, glass, leather, rubber, and certain finished products of metal.

<sup>3</sup> Includes mainly nondurable consumer goods and professional and scientific instruments.

Source: U.S. Dept. of Commerce, International Trade Administration, *Business America*, biweekly.



## NO. 1451. MANUFACTURES SUMMARY

[Data based on various editions of the *Standard Industrial Classification Manual*, published by the Office of

| Industry<br>code <sup>1</sup> | INDUSTRY GROUP   | 1967                                      |                                     |                                |   | 1972                                      |                                     |                                |   |
|-------------------------------|--|---|-------------------------------------|--------------------------------|---|---|-------------------------------------|--------------------------------|---|
|                               |  | Estab-<br>lish-<br>ments<br>(num-<br>ber) | All employees                       |                                | Value<br>added<br>by<br>manu-<br>facture <sup>3</sup><br>(mil.<br>dol.) | Estab-<br>lish-<br>ments<br>(num-<br>ber) | All employees                       |                                | Value<br>added<br>by<br>manu-<br>facture <sup>3</sup><br>(mil.<br>dol.) |
|                               |  |   | Num-<br>ber <sup>2</sup><br>(1,000) | Pay-<br>roll<br>(mil.<br>dol.) |   |   | Num-<br>ber <sup>2</sup><br>(1,000) | Pay-<br>roll<br>(mil.<br>dol.) |   |
| (X)                           | All manufacturing estab-<br>lishments, incl. central<br>administrative offices ... | 311,140                                   | 19,323                              | 132,208                        | 261,984   | 320,701                                   | 19,027                              | 174,187                        | 353,973   |
| 20                            | Food and kindred<br>products .....   | 32,518                                    | 1,650                               | 10,077                         | 26,621  | 28,183                                    | 1,569                               | 12,920                         | 35,615  |
| 201                           | Meat products .....  | 4,914                                     | 310                                 | 1,954                          | 3,551   | 4,437                                     | 308                                 | 2,544                          | 4,981   |
| 202                           | Dairy products .....   | 6,188                                     | 232                                 | 1,449                          | 3,466   | 4,580                                     | 189                                 | 1,596                          | 4,054   |
| 203                           | Preserved fruits and vegetables ...  | 3,528                                     | 223                                 | 1,084                          | 3,238   | 2,557                                     | 233                                 | 1,534                          | 4,514   |
| 204                           | Grain mill products .....  | 3,202                                     | 112                                 | 758                            | 2,882   | 3,080                                     | 111                                 | 1,013                          | 3,689   |
| 205                           | Bakery products .....  | 4,300                                     | 264                                 | 1,665                          | 3,495   | 3,633                                     | 235                                 | 2,029                          | 4,537   |
| 206                           | Sugar and confectionery<br>products .....  | 182                                       | 114                                 | 644                            | 1,900   | 1,249                                     | 107                                 | 832                            | 2,473   |
| 207                           | Fats and oils .....  | (NA)                                      | 44                                  | 297                            | 919   | 860                                       | 40                                  | 366                            | 1,291   |
| 208                           | Beverages .....  | 4,376                                     | 221                                 | 1,525                          | 4,790   | 3,624                                     | 212                                 | 2,033                          | 6,889   |
| 209                           | Misc. foods and kindred products ..  | 4,498                                     | 130                                 | 700                            | 2,375   | 4,153                                     | 134                                 | 974                            | 3,397   |
| 21                            | Tobacco products .....   | 329                                       | 75                                  | 377                            | 2,032   | 272                                       | 66                                  | 502                            | 2,537   |
| 211                           | Cigarettes .....   | 16  | 37                                  | 221                            | 1,640   | 20  | 38                                  | 345                            | 2,188   |
| 212                           | Cigars .....   | 148                                       | 19                                  | 71                             | 619   | 124                                       | 14                                  | 68                             | 192   |
| 213                           | Chewing and smoking tobacco .....  | 46  | 4                                   | 18                             | 64  | 37  | 3                                   | 23                             | 103   |
| 214                           | Tobacco stemming and redrying ...  | 119                                       | 16                                  | 66                             | 133   | 91  | 11                                  | 66                             | 154   |
| 22                            | Textile mill products .....  | 7,080                                     | 929                                 | 4,391                          | 8,153   | 7,201                                     | 953                                 | 6,051                          | 11,716  |
| 221                           | Weaving mills, cotton .....  | 393                                       | 203                                 | 938                            | 1,624   | 307                                       | 121                                 | 745                            | 1,256   |
| 222                           | Weaving mills, manmade fiber .....   | 396                                       | 109                                 | 529                            | 922   | 412                                       | 150                                 | 979                            | 1,832   |
| 223                           | Weaving, finishing mills, wool .....   | 310                                       | 42                                  | 216                            | 429   | 198                                       | 19                                  | 132                            | 239   |
| 224                           | Narrow fabric mills .....  | 384                                       | 26                                  | 121                            | 214   | 376                                       | 27                                  | 162                            | 289   |
| 225                           | Knitting mills .....   | 2,698                                     | 241                                 | 1,036                          | 1,914   | 2,723                                     | 277                                 | 1,647                          | 3,181   |
| 226                           | Textile finishing, except wool .....   | 641                                       | 74                                  | 416                            | 710   | 655                                       | 80                                  | 564                            | 1,114   |
| 227                           | Floor covering mills .....   | 385                                       | 44                                  | 228                            | 599   | 527                                       | 60                                  | 415                            | 1,076   |
| 228                           | Yarn and thread mills .....  | 768                                       | 119                                 | 505                            | 946   | 807                                       | 148                                 | 866                            | 1,580   |
| 229                           | Misc. textile goods .....  | 1,105                                     | 72                                  | 401                            | 795   | 1,196                                     | 72                                  | 540                            | 1,149   |
| 23                            | Apparel, other textile<br>products .....   | 26,393                                    | 1,357                               | 5,582                          | 10,064  | 24,438                                    | 1,368                               | 7,212                          | 13,488  |
| 231                           | Men's and boys' suits and coats .....  | 1,003                                     | 136                                 | 642                            | 1,048   | 856                                       | 125                                 | 770                            | 1,342   |
| 232                           | Men's and boys' furnishings .....  | 2,853                                     | 345                                 | 1,212                          | 2,181   | 2,787                                     | 363                                 | 1,692                          | 3,242   |
| 233                           | Women's and misses' outerwear ...  | 9,416                                     | 409                                 | 1,756                          | 3,183   | 9,526                                     | 433                                 | 2,270                          | 4,102   |
| 234                           | Women's, children's undergar-<br>ments .....                                       | 1,213                                     | 114                                 | 444                            | 867   | 1,002                                     | 105                                 | 525                            | 1,049   |
| 235                           | Hats, caps, and millinery .....  | 843                                       | 24                                  | 102                            | 164   | 496                                       | 15                                  | 73                             | 133   |
| 236                           | Children's outerwear .....   | 1,334                                     | 78                                  | 298                            | 538   | 1,061                                     | 75                                  | 368                            | 709   |
| 237                           | Fur goods .....  | 1,304                                     | 9                                   | 59                             | 117   | 797                                       | 5                                   | 41                             | 86  |
| 238                           | Misc. apparel and accessories .....  | 1,397                                     | 71                                  | 285                            | 510   | 1,302                                     | 62                                  | 335                            | 596   |
| 239                           | Misc. fabricated textile products ...  | 7,030                                     | 173                                 | 785                            | 1,457   | 6,811                                     | 186                                 | 1,139                          | 2,188   |
| 24                            | Lumber and wood<br>products <sup>1</sup> .....                                     | 36,795                                    | 554                                 | 2,799                          | 4,973   | 33,949                                    | 691                                 | 4,986                          | 10,310  |
| 241                           | Logging camps, log contractors .....   | 16,334                                    | 71                                  | 339                            | 695   | 13,238                                    | 80                                  | 524                            | 1,163   |
| 242                           | Sawmills and planing mills .....   | 11,461                                    | 216                                 | 1,028                          | 1,784   | 9,452                                     | 204                                 | 1,488                          | 3,259   |
| 243                           | Millwork, plywood, and structural<br>members <sup>1</sup> .....                    | 4,558                                     | 154                                 | 896                            | 1,505   | 5,506                                     | 191                                 | 1,474                          | 2,908   |
| 244                           | Wood containers <sup>1</sup> .....   | 905                                       | 31                                  | 135                            | 239   | 1,160                                     | 37                                  | 204                            | 359   |
| 245                           | Wood buildings and mobile<br>homes .....   | (NA)                                      | (NA)                                | (NA)                           | (NA)  | 993                                       | 97                                  | 745                            | 1,491   |
| 249                           | Misc. wood products <sup>1</sup> .....   | 3,537                                     | 83                                  | 401                            | 750   | 3,600                                     | 82                                  | 550                            | 1,129   |
| 25                            | Furniture and fixtures .....   | 10,008                                    | 425                                 | 2,258                          | 4,170   | 9,233                                     | 462                                 | 3,205                          | 6,097   |
| 251                           | Household furniture <sup>1</sup> .....   | 6,306                                     | 298                                 | 1,456                          | 2,850   | 5,389                                     | 317                                 | 2,024                          | 3,861   |
| 252                           | Office furniture .....   | 365                                       | 35                                  | 225                            | 478   | 433                                       | 39                                  | 330                            | 680   |
| 253                           | Public bldg., related furniture .....  | 438                                       | 23                                  | 132                            | 234   | 422                                       | 21                                  | 158                            | 296   |
| 254                           | Partitions and fixtures .....  | 1,970                                     | 48                                  | 324                            | 587   | 2,010                                     | 57                                  | 484                            | 871   |
| 259                           | Misc. furniture and fixtures .....   | 929                                       | 22                                  | 121                            | 221   | 999                                       | 27                                  | 210                            | 410   |
| 26                            | Paper and allied products .....  | 5,890                                     | 639                                 | 4,436                          | 9,756   | 6,038                                     | 633                                 | 5,992                          | 13,064  |
| 261                           | Pulpmills .....  | 61  | 15                                  | 126                            | 334   | 60  | 11                                  | 126                            | 307   |
| 262                           | Papermills, except building paper ..   | 354                                       | 140                                 | 1,121                          | 2,356   | 349                                       | 130                                 | 1,440                          | 2,809   |
| 263                           | Paperboard mills .....   | 283                                       | 67                                  | 534                            | 1,509   | 273                                       | 69                                  | 778                            | 1,894   |
| 264                           | Misc. converted paper products .....   | 2,492                                     | 167                                 | 1,187                          | 2,833   | 2,525                                     | 189                                 | 1,630                          | 4,008   |
| 265                           | Paperboard containers and<br>boxes .....   | 2,606                                     | 219                                 | 1,387                          | 2,541   | 2,739                                     | 224                                 | 1,907                          | 3,599   |
| 266                           | Building paper and board mills .....   | 94  | 12                                  | 83                             | 184   | 92  | 12                                  | 112                            | 247   |

For footnotes, see pp. 618 and 619.

## FOR INDUSTRY GROUPS: 1967 TO 1977

Management and Budget; see text, p. 804. See also *Historical Statistics, Colonial Times to 1970*, series P 58-67]

| 1975                                |                           |  |  | 1977           |   |                                     |                           |                                     |                         |  |  |
|-------------------------------------|---------------------------|--|--|----------------|---|-------------------------------------|---------------------------|-------------------------------------|-------------------------|--|--|
| All employees                       |                           | Value added by manu-<br>facture <sup>a</sup><br>(mil.<br>dol.) | Capital<br>expendi-<br>tures,<br>new <sup>4</sup> (mil.<br>dol.) | Establishments |   | All employees                       |                           | Production<br>workers               |                         | Value<br>added by<br>manu-<br>facture <sup>a</sup><br>(mil.<br>dol.) | Capital<br>expendi-<br>tures,<br>new <sup>4</sup> (mil.<br>dol.) |
| Num-<br>ber <sup>2</sup><br>(1,000) | Payroll<br>(mil.<br>dol.) |  |  | Total          | With<br>20 or<br>more<br>em-<br>ployees | Num-<br>ber <sup>2</sup><br>(1,000) | Payroll<br>(mil.<br>dol.) | Num-<br>ber <sup>2</sup><br>(1,000) | Wages<br>(mil.<br>dol.) |  |  |
| <b>18,302</b>                       | <b>209,519</b>            | <b>442,485</b>   | <b>37,262</b>  | <b>359,928</b> | <b>118,669</b>                          | <b>19,590</b>                       | <b>284,013</b>            | <b>13,691</b>                       | <b>157,164</b>          | <b>585,166</b>   | <b>47,459</b>  |
| <b>1,525</b>                        | <b>15,856</b>             | <b>48,095</b>  | <b>3,434</b>   | <b>26,656</b>  | <b>11,038</b>                           | <b>1,520</b>                        | <b>18,544</b>             | <b>1,072</b>                        | <b>11,731</b>           | <b>56,062</b>  | <b>4,215</b>   |
| 308                                 | 3,161                     | 7,169  | 423  | 4,534          | 1,715                                   | 309                                 | 3,702                     | 254                                 | 2,817                   | 7,478  | 533  |
| 170                                 | 1,823                     | 4,942  | 294  | 3,731          | 1,617                                   | 154                                 | 1,939                     | 85                                  | 988                     | 5,648  | 389  |
| 223                                 | 1,918                     | 6,041  | 430  | 2,379          | 1,263                                   | 235                                 | 2,336                     | 199                                 | 1,793                   | 7,685  | 471  |
| 114                                 | 1,329                     | 5,644  | 452  | 3,043          | 1,076                                   | 113                                 | 1,576                     | 79                                  | 1,034                   | 6,626  | 620  |
| 237                                 | 2,584                     | 6,288  | 270  | 3,386          | 1,289                                   | 222                                 | 2,866                     | 131                                 | 1,525                   | 7,073  | 365  |
| 103                                 | 988                       | 3,677  | 283  | 1,198          | 518                                     | 105                                 | 1,206                     | 84                                  | 868                     | 4,151  | 313  |
| 41                                  | 472                       | 1,649  | 232  | 869            | 458                                     | 41                                  | 561                       | 30                                  | 365                     | 1,905  | 208  |
| 204                                 | 2,417                     | 8,110  | 755  | 3,104          | 1,689                                   | 195                                 | 2,849                     | 100                                 | 1,369                   | 9,901  | 994  |
| 126                                 | 1,165                     | 4,576  | 296  | 4,412          | 1,413                                   | 146                                 | 1,509                     | 111                                 | 972                     | 5,596  | 322  |
| <b>66</b>                           | <b>655</b>                | <b>3,722</b>   | <b>145</b>   | <b>228</b>     | <b>123</b>                              | <b>61</b>                           | <b>751</b>                | <b>50</b>                           | <b>571</b>              | <b>4,334</b>   | <b>182</b>   |
| 40                                  | 477                       | 3,203  | 102  | 14             | 13                                      | 39                                  | 568                       | 33                                  | 442                     | 3,803  | 118  |
| 10                                  | 58                        | 166  | 3  | 101            | 34                                      | 8                                   | 55                        | 7                                   | 44                      | 126  | 3  |
| 3                                   | 27                        | 143  | 3  | 35             | 19                                      | 3                                   | 32                        | 3                                   | 22                      | 189  | 7  |
| 13                                  | 92                        | 210  | 37   | 78             | 57                                      | 11                                  | 96                        | 8                                   | 63                      | 217  | 53   |
| <b>835</b>                          | <b>6,397</b>              | <b>12,044</b>  | <b>997</b>   | <b>7,202</b>   | <b>4,131</b>                            | <b>876</b>                          | <b>7,881</b>              | <b>765</b>                          | <b>6,203</b>            | <b>16,105</b>  | <b>1,224</b>   |
| 107                                 | 769                       | 1,337  | 133  | 314            | 192                                     | 117                                 | 1,047                     | 107                                 | 902                     | 1,945  | 187  |
| 152                                 | 1,150                     | 1,965  | 192  | 449            | 351                                     | 151                                 | 1,429                     | 135                                 | 1,169                   | 2,791  | 260  |
| 14                                  | 112                       | 198  | 11   | 165            | 84                                      | 15                                  | 137                       | 13                                  | 106                     | 313  | 15   |
| 19                                  | 140                       | 259  | 12   | 335            | 182                                     | 21                                  | 172                       | 18                                  | 131                     | 351  | 16   |
| 231                                 | 1,686                     | 3,301  | 228  | 2,617          | 1,511                                   | 236                                 | 1,911                     | 206                                 | 1,470                   | 3,863  | 245  |
| 66                                  | 612                       | 1,151  | 92   | 678            | 395                                     | 72                                  | 740                       | 60                                  | 554                     | 1,417  | 125  |
| 49                                  | 416                       | 1,040  | 53   | 592            | 285                                     | 56                                  | 557                       | 44                                  | 380                     | 1,530  | 83   |
| 131                                 | 915                       | 1,567  | 161  | 798            | 608                                     | 141                                 | 1,184                     | 127                                 | 994                     | 2,255  | 180  |
| 64                                  | 596                       | 1,227  | 115  | 1,254          | 523                                     | 68                                  | 706                       | 55                                  | 498                     | 1,641  | 112  |
| <b>1,214</b>                        | <b>7,700</b>              | <b>14,749</b>  | <b>381</b>   | <b>26,505</b>  | <b>11,932</b>                           | <b>1,334</b>                        | <b>9,859</b>              | <b>1,157</b>                        | <b>7,253</b>            | <b>19,671</b>  | <b>457</b>   |
| 96                                  | 738                       | 1,250  | 16   | 737            | 467                                     | 99                                  | 822                       | 86                                  | 646                     | 1,574  | 26   |
| 333                                 | 1,842                     | 3,654  | 76   | 3,013          | 2,129                                   | 365                                 | 2,340                     | 323                                 | 1,863                   | 4,935  | 118  |
| 402                                 | 2,511                     | 4,786  | 127  | 11,834         | 5,556                                   | 448                                 | 3,153                     | 387                                 | 2,304                   | 6,430  | 134  |
| 87                                  | 514                       | 973  | 24   | 878            | 595                                     | 92                                  | 613                       | 79                                  | 449                     | 1,250  | 23   |
| 15                                  | 99                        | 158  | 3  | 409            | 169                                     | 15                                  | 105                       | 13                                  | 79                      | 186  | 4  |
| 64                                  | 364                       | 708  | 13   | 1,002          | 686                                     | 71                                  | 459                       | 61                                  | 349                     | 879  | 14   |
| 4                                   | 38                        | 86   | 3  | 620            | 48                                      | 4                                   | 52                        | 3                                   | 36                      | 113  | 1  |
| 55                                  | 363                       | 683  | 16   | 1,284          | 593                                     | 56                                  | 408                       | 48                                  | 288                     | 845  | 21   |
| 156                                 | 1,232                     | 2,451  | 103  | 6,728          | 1,689                                   | 185                                 | 1,707                     | 156                                 | 1,238                   | 3,459  | 116  |
| <b>588</b>                          | <b>5,231</b>              | <b>10,356</b>  | <b>1,264</b>   | <b>37,302</b>  | <b>7,056</b>                            | <b>692</b>                          | <b>7,425</b>              | <b>595</b>                          | <b>5,795</b>            | <b>16,223</b>  | <b>1,563</b>   |
| 67                                  | 664                       | 1,713  | 378  | 15,469         | 708                                     | 83                                  | 1,009                     | 75                                  | 840                     | 2,419  | 387  |
| 194                                 | 1,642                     | 3,041  | 472  | 9,000          | 2,273                                   | 211                                 | 2,228                     | 188                                 | 1,849                   | 4,975  | 585  |
| 159                                 | 1,526                     | 2,836  | 187  | 6,149          | 1,878                                   | 197                                 | 2,216                     | 167                                 | 1,715                   | 4,701  | 273  |
| 31                                  | 233                       | 472  | 37   | 1,949          | 540                                     | 38                                  | 300                       | 33                                  | 234                     | 540  | 30   |
| 58                                  | 540                       | 1,050  | 36   | 1,165          | 752                                     | 80                                  | 858                       | 63                                  | 576                     | 1,789  | 110  |
| 78                                  | 626                       | 1,243  | 155  | 3,570          | 905                                     | 83                                  | 813                       | 69                                  | 581                     | 1,800  | 180  |
| <b>396</b>                          | <b>3,310</b>              | <b>6,290</b>   | <b>252</b>   | <b>10,235</b>  | <b>3,588</b>                            | <b>464</b>                          | <b>4,448</b>              | <b>384</b>                          | <b>3,192</b>            | <b>8,922</b>   | <b>389</b>   |
| 266                                 | 2,036                     | 3,801  | 149  | 6,161          | 2,224                                   | 310                                 | 2,669                     | 265                                 | 1,999                   | 5,213  | 211  |
| 37                                  | 370                       | 756  | 30   | 523            | 233                                     | 45                                  | 543                       | 35                                  | 376                     | 1,236  | 68   |
| 20                                  | 174                       | 331  | 16   | 420            | 185                                     | 20                                  | 214                       | 15                                  | 133                     | 415  | 22   |
| 48                                  | 492                       | 940  | 36   | 2,134          | 666                                     | 57                                  | 675                       | 44                                  | 454                     | 1,311  | 59   |
| 25                                  | 239                       | 462  | 21   | 997            | 280                                     | 32                                  | 347                       | 24                                  | 230                     | 747  | 29   |
| <b>589</b>                          | <b>6,990</b>              | <b>17,944</b>  | <b>2,718</b>   | <b>6,545</b>   | <b>3,999</b>                            | <b>629</b>                          | <b>8,943</b>              | <b>486</b>                          | <b>6,323</b>            | <b>22,171</b>  | <b>3,295</b>   |
| 13                                  | 191                       | 821  | 294  | 45             | 42                                      | 16                                  | 293                       | 13                                  | 221                     | 906  | 301  |
| 121                                 | 1,668                     | 3,973  | 832  | 339            | 287                                     | 127                                 | 2,167                     | 100                                 | 1,632                   | 5,407  | 1,115  |
| 65                                  | 911                       | 2,832  | 807  | 249            | 232                                     | 68                                  | 1,176                     | 53                                  | 888                     | 3,081  | 934  |
| 193                                 | 2,075                     | 5,729  | 412  | 2,994          | 1,435                                   | 207                                 | 2,608                     | 158                                 | 1,771                   | 7,263  | 507  |
| 188                                 | 2,040                     | 4,351  | 347  | 2,860          | 1,950                                   | 204                                 | 2,602                     | 157                                 | 1,733                   | 5,296  | 421  |
| 9                                   | 106                       | 238  | 26   | 58             | 53                                      | 7                                   | 97                        | 6                                   | 78                      | 218  | 17   |

## NO. 1451. MANUFACTURES SUMMARY

[See headnote.]

| Industry<br>code <sup>1</sup> | INDUSTRY GROUP   | 1967                                      |                                     |                                |   | 1972                                      |                                     |                                |   |
|-------------------------------|--|---|-------------------------------------|--------------------------------|---|---|-------------------------------------|--------------------------------|---|
|                               |  | Estab-<br>lish-<br>ments<br>(num-<br>ber) | All employees                       |                                | Value<br>added<br>by<br>manu-<br>facture <sup>3</sup><br>(mil.<br>dol.) | Estab-<br>lish-<br>ments<br>(num-<br>ber) | All employees                       |                                | Value<br>added<br>by<br>manu-<br>facture <sup>3</sup><br>(mil.<br>dol.) |
|                               |  |   | Num-<br>ber <sup>2</sup><br>(1,000) | Pay-<br>roll<br>(mil.<br>dol.) |   |   | Num-<br>ber <sup>2</sup><br>(1,000) | Pay-<br>roll<br>(mil.<br>dol.) |   |
| 27                            | <b>Printing and publishing .....</b>                                     | <b>37,989</b>                             | <b>1,031</b>                        | <b>7,152</b>                   | <b>14,355</b>   | <b>42,103</b>                             | <b>1,057</b>                        | <b>9,831</b>                   | <b>20,210</b>   |
| 271                           | Newspapers .....   | 8,094                                     | 336                                 | 2,224                          | 4,185   | 8,118                                     | 349                                 | 3,168                          | 6,220   |
| 272                           | Periodicals .....  | 2,510                                     | 79                                  | 634                            | 1,869   | 2,534                                     | 67                                  | 709                            | 2,110   |
| 273                           | Books .....  | 1,766                                     | 97                                  | 688                            | 1,967   | 1,905                                     | 98                                  | 919                            | 2,540   |
| 274                           | Misc. publishing .....   | 19,497                                    | 331                                 | 2,358                          | 3,944   | 22,282                                    | 344                                 | 3,277                          | 776   |
| 275                           | Commercial printing <sup>1</sup> .....                                   | 19,497                                    | 331                                 | 2,358                          | 3,944   | 22,282                                    | 344                                 | 3,277                          | 5,695   |
| 276                           | Manifold business forms .....  | 542                                       | 34                                  | 240                            | 551   | 667                                       | 39                                  | 344                            | 824   |
| 277                           | Greeting card publishing <sup>1</sup> .....                              | 222                                       | 28                                  | 151                            | 372   | 199                                       | 24                                  | 192                            | 527   |
| 278                           | Blankbooks and bookbinding .....   | 1,462                                     | 54                                  | 294                            | 506   | 1,465                                     | 52                                  | 372                            | 687   |
| 279                           | Printing trades services <sup>1</sup> .....                              | 2,403                                     | 42                                  | 366                            | 544   | 2,894                                     | 47                                  | 521                            | 831   |
| 28                            | <b>Chemicals and allied products <sup>1</sup> .....</b>                  | <b>11,799</b>                             | <b>841</b>                          | <b>6,443</b>                   | <b>23,550</b>   | <b>11,425</b>                             | <b>837</b>                          | <b>8,731</b>                   | <b>32,414</b>   |
| 281                           | Industrial inorganic chemicals <sup>1</sup> .....                        | 2,032                                     | 248                                 | 2,090                          | 7,737   | 1,049                                     | 100                                 | 1,079                          | 3,343   |
| 282                           | Plastics materials, synthetics <sup>1</sup> .....                        | 771                                       | 172                                 | 1,292                          | 3,799   | 461                                       | 162                                 | 1,666                          | 4,935   |
| 283                           | Drugs .....  | 1,129                                     | 118                                 | 942                            | 4,073   | 1,078                                     | 130                                 | 1,413                          | 6,131   |
| 284                           | Soap, cleaners, toilet goods <sup>1</sup> .....                          | 2,508                                     | 97                                  | 684                            | 3,930   | 2,573                                     | 112                                 | 1,058                          | 6,201   |
| 285                           | Paints and allied products .....   | 1,701                                     | 66                                  | 492                            | 1,319   | 1,599                                     | 66                                  | 647                            | 1,792   |
| 286                           | Industrial organic chemicals .....                                       | (NA)                                      | 13                                  | 1,130                          | 4,406   | 827                                       | 137                                 | 1,614                          | 6,073   |
| 287                           | Agricultural chemicals <sup>1</sup> .....                                | 1,279                                     | 46                                  | 281                            | 1,006   | 1,233                                     | 48                                  | 438                            | 1,737   |
| 289                           | Misc. chemical products <sup>1</sup> .....                               | 2,196                                     | 88                                  | 628                            | 1,587   | 2,605                                     | 83                                  | 814                            | 2,203   |
| 29                            | <b>Petroleum and coal products .....</b>                                 | <b>1,880</b>                              | <b>142</b>                          | <b>1,218</b>                   | <b>5,426</b>  | <b>2,016</b>                              | <b>140</b>                          | <b>1,638</b>                   | <b>5,793</b>  |
| 291                           | Petroleum refining .....   | 437                                       | 107                                 | 965                            | 4,745   | 323                                       | 101                                 | 1,247                          | 4,595   |
| 295                           | Paving and roofing materials .....                                       | 1,098                                     | 27                                  | 186                            | 456   | 1,199                                     | 30                                  | 297                            | 846   |
| 299                           | Misc. petroleum and coal products .....                                  | 345                                       | 8                                   | 65                             | 225   | 494                                       | 9                                   | 94                             | 352   |
| 30                            | <b>Rubber and miscellaneous<br/>plastics products <sup>1</sup> .....</b> | <b>6,456</b>                              | <b>517</b>                          | <b>3,287</b>                   | <b>6,800</b>  | <b>9,237</b>                              | <b>618</b>                          | <b>5,165</b>                   | <b>11,653</b>   |
| 301                           | Tires and inner tubes .....  | 182                                       | 93                                  | 775                            | 1,823   | 206                                       | 108                                 | 1,214                          | 3,071   |
| 302                           | Rubber and plastics footwear <sup>1</sup> .....                          | 65  | 29                                  | 141                            | 245   | 107                                       | 32                                  | 183                            | 370   |
| 303                           | Reclaimed rubber .....   | 24  | 2                                   | 12                             | 23  | 20  | 1                                   | 9                              | 16  |
| 304                           | Rubber and plastics hose, belting .....                                  | (NA)                                      | (NA)                                | (NA)                           | (NA)  | 90  | 32                                  | 309                            | 619   |
| 306                           | Fabricated rubber products, n.e.c. <sup>1</sup> .....                    | 1,189                                     | 142                                 | 923                            | 1,741   | 1,116                                     | 99                                  | 809                            | 1,573   |
| 307                           | Misc. plastics products <sup>1</sup> .....                               | 4,996                                     | 252                                 | 1,436                          | 2,968   | 7,698                                     | 347                                 | 2,642                          | 6,005   |
| 31                            | <b>Leather and leather products .....</b>                                | <b>3,685</b>                              | <b>329</b>                          | <b>1,459</b>                   | <b>2,627</b>  | <b>3,201</b>                              | <b>273</b>                          | <b>1,589</b>                   | <b>2,917</b>  |
| 311                           | Leather tanning and finishing .....                                      | 519                                       | 31                                  | 186                            | 319   | 517                                       | 26                                  | 200                            | 368   |
| 313                           | Boot, shoe cut stock, findings .....                                     | 379                                       | 14                                  | 60                             | 109   | 248                                       | 9                                   | 50                             | 86  |
| 314                           | Footwear, except rubber .....  | 1,083                                     | 211                                 | 889                            | 1,620   | 917                                       | 176                                 | 973                            | 1,796   |
| 315                           | Leather gloves and mittens .....   | 147                                       | 6                                   | 22                             | 36  | 106                                       | 5                                   | 22                             | 43  |
| 316                           | Luggage .....  | 333                                       | 21                                  | 97                             | 186   | 277                                       | 17                                  | 107                            | 194   |
| 317                           | Women's handbags and purses .....  | 792                                       | 37                                  | 163                            | 279   | 688                                       | 34                                  | 195                            | 345   |
| 319                           | Leather goods, n.e.c. <sup>1</sup> .....                                 | 365                                       | 6                                   | 26                             | 46  | 448                                       | 7                                   | 43                             | 84  |
| 32                            | <b>Stone, clay, and glass products ....</b>                              | <b>15,580</b>                             | <b>590</b>                          | <b>3,826</b>                   | <b>8,333</b>  | <b>16,015</b>                             | <b>623</b>                          | <b>5,547</b>                   | <b>12,587</b>   |
| 321                           | Flat glass .....   | 64  | 24                                  | 197                            | 423   | 32  | 21                                  | 242                            | 662   |
| 322                           | Glass, pressed or blown .....  | 305                                       | 109                                 | 688                            | 1,501   | 369                                       | 119                                 | 1,058                          | 2,341   |
| 323                           | Products of purchased glass .....  | 887                                       | 29                                  | 182                            | 394   | 913                                       | 34                                  | 296                            | 669   |
| 324                           | Cement, hydraulic .....  | 197                                       | 33                                  | 248                            | 812   | 198                                       | 30                                  | 349                            | 1,154   |
| 325                           | Structural clay products .....   | 851                                       | 60                                  | 344                            | 612   | 775                                       | 52                                  | 391                            | 771   |
| 326                           | Pottery and related products .....                                       | 619                                       | 43                                  | 247                            | 419   | 620                                       | 45                                  | 335                            | 601   |
| 327                           | Concrete, gypsum, plaster products .....                                 | 10,004                                    | 169                                 | 1,103                          | 2,478   | 10,115                                    | 193                                 | 1,741                          | 3,840   |
| 328                           | Cut stone and stone products .....                                       | 811                                       | 17                                  | 91                             | 148   | 908                                       | 15                                  | 109                            | 191   |
| 329                           | Misc. nonmetallic mineral prod. <sup>1</sup> .....                       | 1,842                                     | 106                                 | 726                            | 1,547   | 2,085                                     | 115                                 | 1,025                          | 2,359   |
| 33                            | <b>Primary metal industries <sup>1</sup> .....</b>                       | <b>6,837</b>                              | <b>1,281</b>                        | <b>9,851</b>                   | <b>19,978</b>   | <b>6,792</b>                              | <b>1,143</b>                        | <b>12,167</b>                  | <b>23,258</b>   |
| 331                           | Blast furnace and basic steel products .....                             | 861                                       | 617                                 | 5,022                          | 10,170  | 970                                       | 553                                 | 6,389                          | 12,116  |
| 332                           | Iron and steel foundries .....   | 1,438                                     | 233                                 | 1,641                          | 2,631   | 1,400                                     | 219                                 | 2,155                          | 3,481   |
| 333                           | Primary nonferrous metals .....  | 144                                       | 53                                  | 405                            | 1,382   | 177                                       | 59                                  | 627                            | 1,706   |
| 334                           | Secondary nonferrous metals .....  | 403                                       | 17                                  | 123                            | 271   | 381                                       | 18                                  | 170                            | 411   |
| 335                           | Nonferrous rolling and drawing .....                                     | 833                                       | 195                                 | 1,438                          | 3,325   | 903                                       | 188                                 | 1,871                          | 3,800   |
| 336                           | Nonferrous foundries .....   | 1,886                                     | 90                                  | 609                            | 1,068   | 1,841                                     | 81                                  | 722                            | 1,269   |
| 339                           | Misc. primary metal products <sup>1</sup> .....                          | 1,272                                     | 76                                  | 613                            | 1,132   | 1,120                                     | 25                                  | 233                            | 476   |

For footnotes, see pp. 818 and 819.

## FOR INDUSTRY GROUPS: 1967 TO 1977—Continued

pp. 814 and 815]

| 1975                           |                           |   |  | 1977           |                                      |                                |                           |                                |                         |   |   |
|--------------------------------|---------------------------|---|--|----------------|--------------------------------------|--------------------------------|---------------------------|--------------------------------|-------------------------|---|---|
| All employees                  |                           | Value added by manu-<br>facture <sup>a</sup><br>(mil. dol.) | Capital ex-<br>pendi-<br>tures,<br>new <sup>a</sup><br>(mil. dol.) | Establishments |                                      | All employees                  |                           | Production workers             |                         | Value added by manu-<br>facture <sup>a</sup><br>(mil. dol.) | Capital ex-<br>pendi-<br>tures,<br>new<br>(mil. dol.) |
| Number <sup>2</sup><br>(1,000) | Payroll<br>(mil.<br>dol.) |   |  | Total          | With 20<br>or more<br>employ-<br>ees | Number <sup>2</sup><br>(1,000) | Payroll<br>(mil.<br>dol.) | Number <sup>2</sup><br>(1,000) | Wages<br>(mil.<br>dol.) |   |   |
| 1,070                          | 11,655                    | 24,641  | 1,175  | 49,767         | 9,132                                | 1,092                          | 14,025                    | 626                            | 7,322                   | 31,980  | 1,598   |
| 360                            | 3,770                     | 7,578   | 363  | 8,867          | 2,147                                | 350                            | 4,306                     | 147                            | 1,805                   | 9,519   | 478   |
| 73                             | 880                       | 2,652   | 62   | 2,994          | 525                                  | 70                             | 1,020                     | 11                             | 116                     | 3,763   | 79  |
| 99                             | 1,131                     | 3,187   | 138  | 2,694          | 716                                  | 106                            | 1,379                     | 51                             | 544                     | 4,291   | 134   |
| 34                             | 362                       | 862   | 38   | 2,352          | 335                                  | 42                             | 503                       | 15                             | 150                     | 1,291   | 39  |
| 355                            | 3,900                     | 6,890   | 413  | 26,815         | 3,637                                | 356                            | 4,702                     | 275                            | 3,275                   | 8,551   | 640   |
| 40                             | 440                       | 1,156   | 75   | 795            | 477                                  | 45                             | 575                       | 33                             | 391                     | 1,492   | 82  |
| 19                             | 195                       | 559   | 16   | 166            | 52                                   | 18                             | 227                       | 11                             | 106                     | 656   | 19  |
| 47                             | 417                       | 856   | 33   | 1,492          | 576                                  | 56                             | 579                       | 46                             | 419                     | 1,149   | 55  |
| 43                             | 560                       | 901   | 37   | 3,592          | 667                                  | 48                             | 735                       | 36                             | 516                     | 1,268   | 72  |
| 842                            | 11,227                    | 44,976  | 6,353  | 12,173         | 4,602                                | 880                            | 13,839                    | 544                            | 7,446                   | 56,721  | 8,199   |
| 109                            | 1,538                     | 5,213   | 721  | 1,282          | 490                                  | 110                            | 1,847                     | 68                             | 1,033                   | 6,487   | 1,056   |
| 150                            | 1,985                     | 5,525   | 1,439  | 551            | 408                                  | 157                            | 2,471                     | 111                            | 1,558                   | 7,843   | 1,316   |
| 150                            | 2,039                     | 8,030   | 475  | 1,243          | 482                                  | 156                            | 2,460                     | 80                             | 997                     | 9,940   | 579   |
| 108                            | 1,278                     | 7,248   | 255  | 2,528          | 739                                  | 112                            | 1,526                     | 71                             | 823                     | 9,407   | 334   |
| 60                             | 737                       | 2,126   | 122  | 1,579          | 653                                  | 61                             | 883                       | 33                             | 394                     | 2,821   | 167   |
| 137                            | 2,079                     | 9,511   | 2,120  | 879            | 510                                  | 153                            | 2,794                     | 98                             | 1,625                   | 12,875  | 3,353   |
| 52                             | 653                       | 4,546   | 960  | 1,325          | 482                                  | 54                             | 784                       | 35                             | 455                     | 3,808   | 1,107   |
| 75                             | 919                       | 2,777   | 261  | 2,786          | 838                                  | 77                             | 1,075                     | 47                             | 561                     | 3,539   | 287   |
| 141                            | 2,147                     | 10,500  | 2,418  | 2,206          | 773                                  | 147                            | 2,696                     | 101                            | 1,765                   | 16,378  | 2,261   |
| 101                            | 1,666                     | 8,927   | 2,275  | 349            | 279                                  | 103                            | 2,055                     | 71                             | 1,366                   | 14,424  | 2,106   |
| 30                             | 345                       | 1,065   | 85   | 1,297          | 328                                  | 32                             | 461                       | 24                             | 319                     | 1,272   | 113   |
| 11                             | 137                       | 507   | 57   | 560            | 166                                  | 12                             | 180                       | 6                              | 80                      | 682   | 40  |
| 585                            | 5,923                     | 13,599  | 1,140  | 11,943         | 5,294                                | 721                            | 8,536                     | 564                            | 5,842                   | 19,740  | 1,645   |
| 106                            | 1,332                     | 3,463   | 272  | 200            | 126                                  | 114                            | 1,832                     | 88                             | 1,366                   | 4,347   | 289   |
| 25                             | 176                       | 320   | 10   | 84             | 50                                   | 20                             | 159                       | 16                             | 116                     | 272   | 11  |
| 1                              | 9                         | 16  | 1  | 21             | 9                                    | 1                              | 12                        | 1                              | 8                       | 25  | 1   |
| 27                             | 307                       | 695   | 80   | 146            | 103                                  | 34                             | 457                       | 23                             | 275                     | 974   | 55  |
| 90                             | 884                       | 1,748   | 86   | 1,280          | 621                                  | 99                             | 1,164                     | 77                             | 795                     | 2,352   | 135   |
| 335                            | 3,214                     | 7,357   | 691  | 10,212         | 4,385                                | 454                            | 4,912                     | 358                            | 3,281                   | 11,770  | 1,154   |
| 240                            | 1,651                     | 3,187   | 78   | 3,075          | 1,486                                | 243                            | 1,860                     | 212                            | 1,408                   | 3,719   | 96  |
| 23                             | 220                       | 444   | 23   | 465            | 191                                  | 23                             | 255                       | 20                             | 192                     | 535   | 31  |
| 8                              | 53                        | 74  | 3  | 190            | 96                                   | 9                              | 65                        | 7                              | 49                      | 109   | 3   |
| 146                            | 934                       | 1,826   | 35   | 811            | 603                                  | 146                            | 1,032                     | 129                            | 822                     | 2,070   | 37  |
| 6                              | 32                        | 55  | 1  | 101            | 66                                   | 6                              | 34                        | 5                              | 26                      | 68  | 2   |
| 17                             | 125                       | 245   | 4  | 298            | 130                                  | 19                             | 164                       | 16                             | 106                     | 328   | 8   |
| 34                             | 231                       | 427   | 6  | 678            | 283                                  | 32                             | 242                       | 28                             | 170                     | 472   | 11  |
| 7                              | 57                        | 117   | 5  | 532            | 117                                  | 9                              | 68                        | 7                              | 44                      | 137   | 4   |
| 589                            | 6,390                     | 14,849  | 1,581  | 17,744         | 5,201                                | 614                            | 7,943                     | 484                            | 5,767                   | 19,130  | 1,881   |
| 21                             | 298                       | 654   | 57   | 62             | 32                                   | 22                             | 401                       | 19                             | 328                     | 931   | 81  |
| 111                            | 1,219                     | 2,931   | 278  | 508            | 249                                  | 117                            | 1,548                     | 101                            | 1,269                   | 3,592   | 365   |
| 33                             | 341                       | 665   | 49   | 1,101          | 325                                  | 36                             | 429                       | 29                             | 306                     | 960   | 73  |
| 29                             | 411                       | 1,333   | 355  | 201            | 160                                  | 28                             | 485                       | 22                             | 380                     | 1,672   | 297   |
| 47                             | 411                       | 834   | 64   | 711            | 471                                  | 45                             | 486                       | 37                             | 360                     | 1,058   | 82  |
| 44                             | 389                       | 733   | 44   | 934            | 241                                  | 43                             | 460                       | 36                             | 342                     | 894   | 45  |
| 178                            | 1,958                     | 4,419   | 433  | 10,844         | 2,711                                | 184                            | 2,367                     | 134                            | 1,559                   | 5,391   | 605   |
| 15                             | 121                       | 234   | 8  | 993            | 164                                  | 13                             | 132                       | 11                             | 99                      | 238   | 10  |
| 113                            | 1,241                     | 3,047   | 294  | 2,390          | 848                                  | 126                            | 1,635                     | 97                             | 1,124                   | 4,395   | 323   |
| 1,089                          | 14,994                    | 30,367  | 4,165  | 7,375          | 3,980                                | 1,114                          | 18,745                    | 885                            | 14,065                  | 37,568  | 4,497   |
| 532                            | 8,106                     | 15,783  | 2,288  | 1,216          | 740                                  | 530                            | 10,086                    | 418                            | 7,631                   | 18,318  | 2,443   |
| 221                            | 2,713                     | 4,976   | 520  | 1,465          | 1,033                                | 222                            | 3,329                     | 184                            | 2,583                   | 6,251   | 659   |
| 58                             | 844                       | 2,411   | 599  | 160            | 99                                   | 57                             | 1,032                     | 45                             | 768                     | 3,619   | 587   |
| 17                             | 208                       | 576   | 62   | 460            | 200                                  | 19                             | 270                       | 14                             | 170                     | 769   | 114   |
| 162                            | 2,008                     | 4,590   | 473  | 1,002          | 711                                  | 177                            | 2,640                     | 136                            | 1,902                   | 5,902   | 461   |
| 76                             | 816                       | 1,435   | 165  | 1,892          | 805                                  | 82                             | 1,044                     | 69                             | 783                     | 1,960   | 164   |
| 24                             | 299                       | 596   | 59   | 1,180          | 392                                  | 26                             | 345                       | 20                             | 229                     | 763   | 70  |

## No. 1451. MANUFACTURES SUMMARY

[See headnote,

| Industry code <sup>1</sup> | INDUSTRY GROUP                                       | 1967                    |                             |                     |  | 1972                    |                             |                     |   |
|----------------------------|--|-------------------------|-----------------------------|---------------------|--|-------------------------|-----------------------------|---------------------|---|
|                            |  | Establishments (number) | All employees               |                     | Value added by manufacture (mil. dol.) | Establishments (number) | All employees               |                     | Value added by manufacture (mil. dol.) <sup>3</sup> |
|                            |  |                         | Number <sup>2</sup> (1,000) | Payroll (mil. dol.) |  |                         | Number <sup>2</sup> (1,000) | Payroll (mil. dol.) |   |
| 34                         | <b>Fabricated metal products<sup>1</sup></b>         | <b>27,418</b>           | <b>1,342</b>                | <b>9,320</b>        | <b>18,043</b>                          | <b>29,525</b>           | <b>1,493</b>                | <b>13,821</b>       | <b>26,946</b>                                       |
| 341                        | Metal cans, shipping containers <sup>1</sup>         | 299                     | 60                          | 474                 | 1,142                                  | 553                     | 79                          | 840                 | 2,005   |
| 342                        | Cutlery, handtools, hardware                         | 1,939                   | 156                         | 1,043               | 2,318                                  | 1,904                   | 159                         | 1,405               | 3,253   |
| 343                        | Plumbing and heating, ex. electric <sup>1</sup>      | 838                     | 65                          | 428                 | 872                                    | 757                     | 61                          | 524                 | 1,132   |
| 344                        | Fabricated structural metal prod.                    | 10,151                  | 388                         | 2,687               | 4,934                                  | 10,351                  | 395                         | 3,532               | 6,743   |
| 345                        | Screw machine products, bolts, etc.                  | 2,536                   | 116                         | 847                 | 1,621                                  | 2,482                   | 101                         | 948                 | 1,845   |
| 346                        | Metal forgings, stampings <sup>1</sup>               | 2,710                   | 226                         | 1,886               | 3,031                                  | 3,186                   | 264                         | 2,791               | 5,057   |
| 347                        | Metal services, n.e.c.                               | 4,684                   | 81                          | 481                 | 864                                    | 4,761                   | 82                          | 624                 | 1,120   |
| 348                        | Ordnance and accessories, n.e.c. <sup>1</sup>        | (NA)                    | (NA)                        | (NA)                | (NA)                                   | 315                     | 110                         | 1,015               | 1,507   |
| 349                        | Misc. fabricated metal products <sup>1</sup>         | 2,711                   | 169                         | 1,309               | 2,591                                  | 5,214                   | 244                         | 2,142               | 4,283   |
| 35                         | <b>Machinery, exc. electrical</b>                    | <b>37,892</b>           | <b>1,865</b>                | <b>14,226</b>       | <b>27,836</b>                          | <b>40,792</b>           | <b>1,828</b>                | <b>18,523</b>       | <b>37,563</b>                                       |
| 351                        | Engines and turbines                                 | 182                     | 100                         | 820                 | 1,598                                  | 253                     | 116                         | 1,320               | 2,900   |
| 352                        | Farm and garden machinery                            | 1,618                   | 136                         | 947                 | 2,042                                  | 1,658                   | 125                         | 1,211               | 2,701   |
| 353                        | Construction and related machinery                   | 2,305                   | 273                         | 2,041               | 4,130                                  | 2,517                   | 275                         | 2,856               | 5,962   |
| 354                        | Metalworking machinery                               | 9,439                   | 337                         | 2,860               | 5,091                                  | 9,652                   | 268                         | 2,859               | 4,902   |
| 355                        | Special industry machinery                           | 3,312                   | 207                         | 1,570               | 2,880                                  | 3,685                   | 190                         | 1,854               | 3,732   |
| 356                        | General industrial machinery                         | 3,760                   | 279                         | 2,137               | 4,107                                  | 3,863                   | 262                         | 2,585               | 5,020   |
| 357                        | Office and computing machines                        | 594                     | 190                         | 1,462               | 3,332                                  | 995                     | 208                         | 2,277               | 4,905   |
| 358                        | Refrigeration, service machinery                     | 1,573                   | 140                         | 947                 | 2,125                                  | 1,769                   | 198                         | 1,864               | 4,427   |
| 359                        | Misc. machinery, except electrical <sup>1</sup>      | 15,109                  | 203                         | 1,443               | 2,531                                  | 16,400                  | 184                         | 1,697               | 3,016   |
| 36                         | <b>Electric and electronic equipment<sup>1</sup></b> | <b>10,706</b>           | <b>1,875</b>                | <b>12,968</b>       | <b>24,487</b>                          | <b>12,270</b>           | <b>1,662</b>                | <b>15,189</b>       | <b>30,558</b>                                       |
| 361                        | Electric distributing equipment <sup>1</sup>         | 1,218                   | 176                         | 1,230               | 2,509                                  | 784                     | 116                         | 1,040               | 2,060   |
| 362                        | Electrical industrial apparatus                      | 1,316                   | 207                         | 1,420               | 2,792                                  | 1,510                   | 188                         | 1,665               | 3,218   |
| 363                        | Household appliances                                 | 637                     | 169                         | 1,101               | 2,540                                  | 645                     | 163                         | 1,369               | 3,563   |
| 364                        | Electric lighting and wiring equip.                  | 1,868                   | 157                         | 950                 | 2,214                                  | 1,897                   | 177                         | 1,414               | 3,277   |
| 365                        | Radio and TV receiving equipment                     | 661                     | 130                         | 720                 | 1,587                                  | 939                     | 107                         | 798                 | 2,183   |
| 366                        | Communication equipment                              | 1,402                   | 525                         | 4,397               | 6,993                                  | 1,976                   | 454                         | 4,912               | 8,453   |
| 367                        | Electronic components, accessories                   | 2,439                   | 403                         | 2,435               | 4,359                                  | 2,867                   | 336                         | 2,869               | 5,306   |
| 369                        | Misc. electrical equipment, supplies                 | 1,165                   | 107                         | 715                 | 1,494                                  | 1,652                   | 120                         | 1,121               | 2,498   |
| 37                         | <b>Transportation equipment<sup>1</sup></b>          | <b>7,483</b>            | <b>1,834</b>                | <b>15,174</b>       | <b>28,174</b>                          | <b>8,802</b>            | <b>1,719</b>                | <b>19,880</b>       | <b>39,799</b>                                       |
| 371                        | Motor vehicles and equipment <sup>1</sup>            | 2,675                   | 739                         | 5,930               | 13,666                                 | 3,391                   | 808                         | 9,461               | 22,056  |
| 372                        | Aircraft and parts <sup>4</sup>                      | 1,273                   | 802                         | 7,209               | 11,327                                 | 1,094                   | 439                         | 5,282               | 9,124   |
| 373                        | Ship and boat building and repairing                 | 2,011                   | 169                         | 1,239               | 1,705                                  | 2,232                   | 185                         | 1,704               | 2,398   |
| 374                        | Railroad equipment                                   | 123                     | 57                          | 427                 | 788                                    | 163                     | 51                          | 529                 | 1,113   |
| 375                        | Motorcycles, bicycles, parts                         | 91                      | 12                          | 70                  | 136                                    | 222                     | 18                          | 140                 | 315   |
| 376                        | Guided missiles, space vehicles                      | (NA)                    | (NA)                        | (NA)                | (NA)                                   | 147                     | 160                         | 2,317               | 3,969   |
| 379                        | Misc. transportation equipment <sup>1</sup>          | 1,310                   | 55                          | 298                 | 551                                    | 1,553                   | 59                          | 448                 | 824   |
| 38                         | <b>Instruments and related products<sup>1</sup></b>  | <b>4,453</b>            | <b>394</b>                  | <b>2,822</b>        | <b>5,418</b>                           | <b>5,983</b>            | <b>453</b>                  | <b>4,286</b>        | <b>10,580</b>                                       |
| 381                        | Engineering, scientific instruments                  | 677                     | 46                          | 327                 | 617                                    | 743                     | 37                          | 365                 | 691   |
| 382                        | Measuring and control devices <sup>1</sup>           | 766                     | 104                         | 732                 | 1,392                                  | 1,611                   | 153                         | 1,437               | 2,724   |
| 383                        | Optical instruments and lenses <sup>1</sup>          | 303                     | 21                          | 163                 | 284                                    | 494                     | 19                          | 193                 | 384   |
| 384                        | Medical instruments and supplies                     | 1,466                   | 67                          | 427                 | 966                                    | 1,607                   | 91                          | 758                 | 1,821   |
| 385                        | Ophthalmic goods                                     | 461                     | 26                          | 143                 | 284                                    | 499                     | 27                          | 183                 | 416   |
| 386                        | Photographic equip. and supplies                     | 557                     | 95                          | 820                 | 2,481                                  | 627                     | 96                          | 1,120               | 4,088   |
| 387                        | Watches, clocks, and watchcases                      | 223                     | 35                          | 209                 | 393                                    | 202                     | 31                          | 230                 | 466   |
| 39                         | <b>Misc. manufacturing<sup>1</sup></b>               | <b>14,489</b>           | <b>824</b>                  | <b>5,819</b>        | <b>10,189</b>                          | <b>15,187</b>           | <b>446</b>                  | <b>3,180</b>        | <b>6,769</b>  |
| 391                        | Jewelry, silverware, and plated ware                 | 2,212                   | 52                          | 320                 | 641                                    | 2,296                   | 53                          | 425                 | 851   |
| 393                        | Musical instruments                                  | 343                     | 25                          | 144                 | 238                                    | 344                     | 25                          | 173                 | 339   |
| 394                        | Toys and sporting goods                              | 2,435                   | 116                         | 559                 | 1,205                                  | 2,460                   | 133                         | 881                 | 1,999   |
| 395                        | Pens, office and art goods                           | 959                     | 35                          | 200                 | 412                                    | 966                     | 32                          | 244                 | 557   |
| 396                        | Costume jewelry and notions                          | 1,608                   | 52                          | 252                 | 528                                    | 1,482                   | 50                          | 323                 | 720   |
| 399                        | Misc. manufactures <sup>1</sup>                      | 6,932                   | 544                         | 4,345               | 7,163                                  | 7,639                   | 153                         | 1,134               | 2,303   |
| (X)                        | <b>Administrative and auxiliary<sup>5</sup></b>      | <b>5,460</b>            | <b>831</b>                  | <b>8,728</b>        | <b>(X)</b>                             | <b>8,039</b>            | <b>994</b>                  | <b>13,772</b>       | <b>(X)</b>  |

NA Not available. X Not applicable. <sup>1</sup> Standard Industrial Classification Code; see text, p. 804. <sup>2</sup> "All employees" represents the average of "production workers" plus all other employees for the payroll period ended nearest the 15th of March. <sup>3</sup> See footnote 6, table 1434. <sup>4</sup> Includes expenditures for plants in operation and plants under construction but not yet in operation. <sup>5</sup> Includes industries not shown separately.

## FOR INDUSTRY GROUPS: 1967 TO 1977—Continued

pp. 814 and 815]

| 1975                           |                        |   |   | 1977           |                                      |                                |                        |                                |                      |   |       | Capital ex-<br>penditures,<br>new <sup>4</sup><br>(mil. dol.) |
|--------------------------------|------------------------|---|---|----------------|--------------------------------------|--------------------------------|------------------------|--------------------------------|----------------------|---|-------|---|
| All employees                  |                        | Value added by<br>manufacture <sup>3</sup><br>(mil. dol.) | Capital ex-<br>penditures,<br>new <sup>4</sup><br>(mil. dol.) | Establishments |                                      | All employees                  |                        | Production workers             |                      | Value added by<br>manufacture <sup>3</sup><br>(mil. dol.) |       |   |
| Number <sup>2</sup><br>(1,000) | Payroll<br>(mil. dol.) |   |   | Total          | With 20<br>or more<br>employ-<br>ees | Number <sup>2</sup><br>(1,000) | Payroll<br>(mil. dol.) | Number <sup>2</sup><br>(1,000) | Wages<br>(mil. dol.) |   |       |   |
| 1,417                          | 16,334                 | 34,203  | 2,074   | 33,712         | 12,739                               | 1,556                          | 21,036                 | 1,192                          | 14,429               | 45,512  | 2,606 |   |
| 74                             | 1,040                  | 2,826   | 249   | 587            | 413                                  | 72                             | 1,247                  | 60                             | 1,000                | 3,644   | 209   |   |
| 147                            | 1,619                  | 3,602   | 205   | 2,137          | 877                                  | 169                            | 2,179                  | 133                            | 1,553                | 5,177   | 299   |   |
| 53                             | 551                    | 1,162   | 75  | 1,015          | 341                                  | 53                             | 637                    | 41                             | 423                  | 1,574   | 74    |   |
| 397                            | 4,488                  | 9,257   | 483   | 11,817         | 4,279                                | 426                            | 5,492                  | 309                            | 3,467                | 11,785  | 580   |   |
| 97                             | 1,085                  | 2,255   | 122   | 2,627          | 1,102                                | 105                            | 1,414                  | 82                             | 983                  | 2,864   | 184   |   |
| 241                            | 3,077                  | 6,039   | 415   | 3,715          | 1,875                                | 288                            | 4,511                  | 236                            | 3,419                | 8,913   | 604   |   |
| 81                             | 774                    | 1,431   | 104   | 5,095          | 1,373                                | 94                             | 1,009                  | 77                             | 706                  | 1,963   | 121   |   |
| 82                             | 994                    | 1,635   | 63  | 346            | 151                                  | 70                             | 992                    | 47                             | 559                  | 1,737   | 83    |   |
| 246                            | 2,705                  | 5,997   | 359   | 6,373          | 2,328                                | 279                            | 3,556                  | 208                            | 2,318                | 7,855   | 452   |   |
| 1,967                          | 24,555                 | 51,044  | 3,355   | 48,200         | 12,446                               | 2,083                          | 30,558                 | 1,414                          | 18,298               | 67,223  | 4,402 |   |
| 121                            | 1,677                  | 3,434   | 339   | 315            | 168                                  | 130                            | 2,238                  | 90                             | 1,405                | 4,960   | 330   |   |
| 150                            | 1,872                  | 4,365   | 347   | 2,159          | 756                                  | 151                            | 2,197                  | 111                            | 1,456                | 5,490   | 371   |   |
| 318                            | 4,178                  | 9,473   | 804   | 3,229          | 1,518                                | 333                            | 5,097                  | 226                            | 3,185                | 11,836  | 932   |   |
| 290                            | 3,671                  | 6,862   | 295   | 10,630         | 2,680                                | 298                            | 4,514                  | 218                            | 2,863                | 8,747   | 439   |   |
| 199                            | 2,394                  | 4,871   | 200   | 4,090          | 1,487                                | 185                            | 2,616                  | 118                            | 1,450                | 5,271   | 244   |   |
| 290                            | 3,565                  | 7,428   | 458   | 4,947          | 1,806                                | 314                            | 4,451                  | 212                            | 2,712                | 9,673   | 553   |   |
| 225                            | 3,033                  | 6,441   | 390   | 1,317          | 610                                  | 259                            | 3,949                  | 124                            | 1,384                | 9,921   | 826   |   |
| 158                            | 1,791                  | 3,893   | 187   | 2,114          | 837                                  | 192                            | 2,516                  | 138                            | 1,637                | 5,963   | 288   |   |
| 215                            | 2,375                  | 4,277   | 336   | 19,399         | 2,584                                | 223                            | 2,980                  | 177                            | 2,106                | 5,362   | 421   |   |
| 1,524                          | 17,401                 | 34,845  | 1,877   | 14,973         | 6,338                                | 1,723                          | 22,544                 | 1,191                          | 12,952               | 50,366  | 2,867 |   |
| 105                            | 1,154                  | 2,492   | 69  | 947            | 459                                  | 115                            | 1,431                  | 85                             | 910                  | 3,336   | 141   |   |
| 185                            | 2,030                  | 4,209   | 233   | 1,646          | 819                                  | 198                            | 2,543                  | 142                            | 1,572                | 5,614   | 311   |   |
| 145                            | 1,486                  | 3,601   | 176   | 666            | 342                                  | 162                            | 1,898                  | 129                            | 1,352                | 5,276   | 207   |   |
| 145                            | 1,450                  | 3,392   | 163   | 2,009          | 913                                  | 165                            | 1,925                  | 127                            | 1,292                | 4,741   | 217   |   |
| 86                             | 853                    | 1,934   | 90  | 1,290          | 325                                  | 98                             | 1,097                  | 75                             | 740                  | 3,078   | 136   |   |
| 434                            | 5,714                  | 10,324  | 422   | 2,385          | 1,126                                | 459                            | 6,995                  | 260                            | 3,226                | 14,130  | 689   |   |
| 302                            | 3,358                  | 5,984   | 536   | 4,455          | 1,671                                | 374                            | 4,557                  | 258                            | 2,457                | 9,260   | 783   |   |
| 121                            | 1,358                  | 2,909   | 188   | 1,575          | 683                                  | 152                            | 2,098                  | 116                            | 1,402                | 4,930   | 383   |   |
| 1,605                          | 22,772                 | 45,337  | 2,762   | 10,176         | 3,653                                | 1,768                          | 30,673                 | 1,284                          | 20,314               | 64,291  | 4,671 |   |
| 699                            | 9,856                  | 21,466  | 1,831   | 4,234          | 1,708                                | 876                            | 16,038                 | 728                            | 12,682               | 37,023  | 3,636 |   |
| 438                            | 6,601                  | 12,801  | 369   | 1,173          | 549                                  | 431                            | 7,621                  | 240                            | 3,564                | 14,732  | 508   |   |
| 202                            | 2,305                  | 3,552   | 329   | 2,795          | 736                                  | 220                            | 2,940                  | 176                            | 2,132                | 4,681   | 204   |   |
| 60                             | 798                    | 1,566   | 73  | 201            | 118                                  | 56                             | 889                    | 43                             | 620                  | 1,883   | 80    |   |
| 14                             | 148                    | 254   | 16  | 350            | 63                                   | 16                             | 169                    | 13                             | 130                  | 370   | 24    |   |
| 148                            | 2,624                  | 4,764   | 109   | 109            | 86                                   | 120                            | 2,427                  | 46                             | 771                  | 4,422   | 164   |   |
| 44                             | 440                    | 933   | 35  | 1,314          | 393                                  | 49                             | 591                    | 39                             | 416                  | 1,181   | 54    |   |
| 500                            | 5,829                  | 14,158  | 794   | 7,481          | 2,538                                | 559                            | 7,520                  | 347                            | 3,743                | 18,762  | 939   |   |
| 46                             | 561                    | 1,112   | 40  | 786            | 279                                  | 42                             | 584                    | 25                             | 281                  | 1,287   | 57    |   |
| 163                            | 1,898                  | 3,618   | 142   | 2,079          | 849                                  | 200                            | 2,666                  | 121                            | 1,288                | 5,242   | 268   |   |
| 23                             | 283                    | 572   | 24  | 545            | 199                                  | 30                             | 421                    | 17                             | 188                  | 897   | 51    |   |
| 109                            | 1,110                  | 2,621   | 170   | 2,355          | 679                                  | 114                            | 1,319                  | 77                             | 712                  | 3,262   | 172   |   |
| 27                             | 248                    | 478   | 15  | 634            | 155                                  | 30                             | 314                    | 22                             | 188                  | 656   | 44    |   |
| 100                            | 1,441                  | 5,177   | 388   | 780            | 265                                  | 112                            | 1,900                  | 62                             | 887                  | 6,732   | 323   |   |
| 32                             | 287                    | 580   | 16  | 302            | 112                                  | 32                             | 317                    | 24                             | 199                  | 685   | 23    |   |
| 393                            | 3,487                  | 7,580   | 302   | 17,259         | 3,794                                | 441                            | 4,406                  | 339                            | 2,745                | 10,291  | 474   |   |
| 50                             | 481                    | 998   | 29  | 3,118          | 564                                  | 61                             | 638                    | 44                             | 373                  | 1,448   | 40    |   |
| 25                             | 219                    | 392   | 16  | 450            | 127                                  | 25                             | 253                    | 21                             | 178                  | 488   | 14    |   |
| 113                            | 917                    | 2,161   | 106   | 2,910          | 835                                  | 119                            | 1,112                  | 93                             | 697                  | 3,000   | 148   |   |
| 31                             | 281                    | 624   | 34  | 987            | 261                                  | 32                             | 331                    | 23                             | 203                  | 858   | 55    |   |
| 44                             | 347                    | 835   | 21  | 1,514          | 467                                  | 51                             | 451                    | 42                             | 293                  | 1,002   | 44    |   |
| 131                            | 1,241                  | 2,571   | 97  | 8,280          | 1,540                                | 152                            | 1,623                  | 116                            | 1,001                | 3,485   | 173   |   |
| 1,128                          | 19,015                 | (x)   | (x)   | 9,171          | 4,856                                | 1,074                          | 21,981                 | (x)                            | (x)                  | (x)   | (x)   |   |

<sup>1</sup> Value of production. The formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year. <sup>2</sup> Due to changes in industry classification, 1967 data not comparable with later data. <sup>3</sup> For 1967, includes ordnance from privately owned and/or operated establishments classified in "Ordnance and accessories." Excludes government-owned and -operated equipment. <sup>4</sup> Manufacturing concerns often reported separately for central offices or auxiliaries which serve the manufacturing establishments of a company, rather than the general public. Separate reports were obtained from such units if at a different location or if they serviced more than one establishment.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1967, 1972, and 1977, General Summary*, MC67(1), MC72(1)-1, and MC77(1)-1.

**NO. 1452. EXPORTS AND EXPORT-RELATED EMPLOYMENT OF MANUFACTURING  
ESTABLISHMENTS, BY INDUSTRY: 1976**

[See headnote, table 1448 and footnote 1 of same table concerning employment figures]

| INDUSTRY GROUP                       | VALUE OF SHIPMENTS<br>(bil. dol.) |              | MANUFACTURING<br>EMPLOYMENT<br>(1,000) |                          | INDUSTRY GROUP                               | VALUE OF SHIPMENTS<br>(bil. dol.) |              | MANUFACTURING<br>EMPLOYMENT<br>(1,000) |                          |
|--------------------------------------|-----------------------------------|--------------|--|--------------------------|--|-----------------------------------|--------------|--|--------------------------|
|                                      | Total                             | For ex-ports | Total                                  | Ex-<br>port re-<br>lated |  | Total                             | For ex-ports | Total                                  | Ex-<br>port re-<br>lated |
| <b>Manufacturing, total</b> .....    | <b>1,185.7</b>                    | <b>83.2</b>  | <b>18,753</b>                          | <b>1,173</b>             | <b>Rubber, misc. plastics products</b> ..... | <b>31.8</b>                       | <b>1.3</b>   | <b>627</b>                             | <b>23</b>                |
| Food and kindred products.....       | 180.9                             | 5.9          | 1,536                                  | 37                       | Leather, leather products.....               | 7.2                               | .3           | 247                                    | 6                        |
| Tobacco manufactures.....            | 8.8                               | 1.0          | 65                                     | 10                       | Stone, clay, glass products.....             | 30.6                              | 1.0          | 599                                    | 17                       |
| Textile mill products.....           | 36.4                              | 1.2          | 876                                    | 28                       | Primary metal industries.....                | 93.0                              | 2.9          | 1,106                                  | 30                       |
| Apparel, other textile products..... | 34.8                              | .7           | 1,271                                  | 16                       | Fabricated metal products.....               | 77.5                              | 3.7          | 1,471                                  | 70                       |
| Lumber and wood products.....        | 31.2                              | 1.9          | 629                                    | 23                       | Machinery, exc. electrical.....              | 105.5                             | 19.0         | 1,960                                  | 295                      |
| Furniture, fixtures.....             | 14.2                              | .2           | 426                                    | 5                        | Elec., electronic equipment.....             | 73.9                              | 9.2          | 1,579                                  | 196                      |
| Paper and allied products.....       | 48.2                              | 2.3          | 615                                    | 21                       | Transportation equipment.....                | 141.0                             | 16.5         | 1,668                                  | 203                      |
| Printing, publishing.....            | 42.8                              | .6           | 1,086                                  | 12                       | Instruments and related products.....        | 25.0                              | 3.8          | 518                                    | 60                       |
| Chemicals, allied products.....      | 104.1                             | 9.3          | 851                                    | 75                       | Misc. manufacturing.....                     | 16.3                              | 1.3          | 410                                    | 25                       |
| Petroleum, coal products.....        | 82.3                              | 1.2          | 145                                    | 3                        |  |                                   |              |  |                          |

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures*, 1976, M76(AS)-8.

**NO. 1453. FUELS AND ELECTRIC ENERGY USED IN MANUFACTURING INDUSTRIES: 1958 TO 1977**

[Btu=British thermal units. For definition of Btu, see headnote, table 1025]

| INDUSTRY GROUP AND<br>TYPE OF ENERGY                          | Unit                   | 1958         | 1962         | 1967          | 1971          | 1974          | 1975          | 1976          | 1977          |
|---|------------------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>ENERGY USED</b>  |                        |              |              |               |               |               |               |               |               |
| <b>All manufacturing industries <sup>1</sup></b> .....        | <b>Tril. Btu</b> ..... | <b>8,248</b> | <b>9,811</b> | <b>11,810</b> | <b>13,008</b> | <b>13,548</b> | <b>12,084</b> | <b>12,776</b> | <b>12,929</b> |
| Chemicals and allied products.....                            | Tril. Btu.....         | 1,542        | 1,877        | 2,460         | 2,660         | 3,042         | 2,806         | 3,017         | 2,979         |
| Primary metals.....   | Tril. Btu.....         | 1,769        | 2,303        | 2,422         | 2,445         | 2,687         | 2,240         | 2,381         | 2,539         |
| Paper and allied products.....                                | Tril. Btu.....         | 806          | 929          | 1,156         | 1,315         | 1,329         | 1,210         | 1,295         | 1,308         |
| Petroleum and coal products.....                              | Tril. Btu.....         | 932          | 1,145        | 1,394         | 1,593         | 1,568         | 1,333         | 1,292         | 1,303         |
| Stone, clay, and glass products.....                          | Tril. Btu.....         | 945          | 1,056        | 1,229         | 1,304         | 1,334         | 1,160         | 1,220         | 1,252         |
| Food and kindred products.....                                | Tril. Btu.....         | 766          | 803          | 900           | 1,026         | 950           | 914           | 938           | 952           |
| Fabricated metal products.....                                | Tril. Btu.....         | 190          | 213          | 298           | 350           | 406           | 368           | 381           | 395           |
| Machinery, exc. electrical.....                               | Tril. Btu.....         | 210          | 235          | 311           | 367           | 357           | 328           | 330           | 340           |
| Lumber and wood products.....                                 | Tril. Btu.....         | 90           | 118          | 188           | 233           | 267           | 229           | 244           | 228           |
| Printing and publishing.....                                  | Tril. Btu.....         | 41           | 50           | 66            | 103           | 90            | 87            | 86            | 92            |
| <b>TYPE OF ENERGY</b>   |                        |              |              |               |               |               |               |               |               |
| <b>Purchased fuels and electric energy <sup>1</sup></b> ..... | <b>Tril. Btu</b> ..... | <b>8,248</b> | <b>9,811</b> | <b>11,810</b> | <b>13,008</b> | <b>13,548</b> | <b>12,084</b> | <b>12,776</b> | <b>12,929</b> |
| Cost.....   | Mil. dol.....          | 5,067        | 6,184        | 7,692         | 10,432        | 19,468        | 23,291        | 28,139        | 33,380        |
| Fuels.....  | Mil. dol.....          | 2,836        | 3,361        | 3,975         | 5,361         | 11,003        | 12,978        | 15,960        | 18,865        |
| Electric energy.....  | Mil. dol.....          | 2,231        | 2,823        | 3,717         | 5,071         | 8,465         | 10,313        | 12,179        | 14,515        |
| Coal.....   | Tril. Btu.....         | 2,143        | 2,343        | 1,967         | 1,608         | 1,252         | 1,169         | 1,255         | 1,326         |
| Cost.....   | Mil. dol.....          | 638          | 640          | 552           | 658           | 1,083         | 1,310         | 1,344         | 1,494         |
| Fuel oil <sup>2</sup> .....                                   | Tril. Btu.....         | 989          | 1,209        | 1,092         | 1,496         | 1,738         | 1,726         | 1,978         | 2,139         |
| Cost.....   | Mil. dol.....          | 523          | 623          | 536           | 989           | 3,315         | 3,519         | 3,986         | 4,913         |
| Gas.....  | Tril. Btu.....         | 3,187        | 4,411        | 5,434         | 6,609         | 6,724         | 5,944         | 5,999         | 5,720         |
| Cost.....   | Mil. dol.....          | 901          | 1,456        | 1,749         | 2,560         | 4,360         | 5,653         | 7,532         | 8,679         |
| Purchased electric energy.....                                | Tril. Btu.....         | 863          | 1,071        | 1,459         | 1,756         | 2,104         | 2,036         | 2,184         | 2,263         |
| Cost.....   | Mil. dol.....          | 2,231        | 2,823        | 3,717         | 5,071         | 8,465         | 10,313        | 12,179        | 14,515        |

<sup>1</sup> Includes items not shown separately.      <sup>2</sup> Includes fuel-oil related products.

Source: U.S. Bureau of the Census, *Census of Manufactures*, 1972 and 1977; and *Annual Survey of Manufactures*.

**NO. 1454. PERCENT SHARE OF VALUE ADDED BY MANUFACTURE FOR LARGEST COMPANIES IN MANUFACTURING, 1947 TO 1976, AND OF EMPLOYEES AND SHIPMENTS, 1963 TO 1976**

[Percent of total manufacturing. Companies ranked on value added by manufacture; companies in each group are not identical for all years. See also *Historical Statistics, Colonial Times to 1970*, series P 177-180]

| ITEM                       | VALUE ADDED |      |      |      |      |      | EMPLOYMENT <sup>1</sup> |      |      | SHIPMENTS <sup>2</sup> |      |      |
|----------------------------|-------------|------|------|------|------|------|-------------------------|------|------|------------------------|------|------|
|                            | 1947        | 1954 | 1963 | 1967 | 1972 | 1976 | 1963                    | 1972 | 1976 | 1963                   | 1972 | 1976 |
| Largest 50 companies.....  | 17          | 23   | 25   | 25   | 25   | 24   | 19                      | 19   | 18   | 25                     | 24   | 25   |
| Largest 100 companies..... | 23          | 30   | 33   | 33   | 33   | 34   | 25                      | 26   | 25   | 34                     | 33   | 34   |
| Largest 150 companies..... | 27          | 34   | 37   | 38   | 39   | 40   | 29                      | 31   | 30   | 38                     | 39   | 41   |
| Largest 200 companies..... | 30          | 37   | 41   | 42   | 43   | 44   | 32                      | 35   | 34   | 42                     | 43   | 46   |

<sup>1</sup> Includes central administrative offices and auxiliaries.

<sup>2</sup> See footnote 7, table 1434.

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, 1976, Concentration Ratios in Manufacturing*, M76(AS)-9.

**NO. 1455. PERCENT OF SHIPMENTS ACCOUNTED FOR BY LARGE MANUFACTURING COMPANIES, SELECTED INDUSTRIES: 1963 TO 1972**

[Prior to 1967, excludes Alaska and Hawaii. First 32 industries (excluding those classified as "Miscellaneous" or "Not elsewhere classified") as determined by value added by manufacture in 1972 of \$2 billion or more. Industry codes and descriptions are based on the 1972 *Standard Industrial Classification Manual* (SIC), see text, p. 804. Determination of company affiliation of establishment is based on census reports and publicly available records. "Largest" companies are determined by each company's value added by manufacture in the specified industry. Industries in the "not elsewhere classified" category are omitted, regardless of their value added]

| Industry code <sup>1</sup> | INDUSTRY                                   | Year      | Number of companies | Value added by manufacture <sup>2</sup> (mil. dol.) | Total value of shipments <sup>3</sup> (mil. dol.) | PERCENT OF SHIPMENTS, RANKED BY COMPANY SIZE |           |            |            |
|----------------------------|--|-----------|---------------------|---|---|--|-----------|------------|------------|
|                            |  |           |                     |   |   | 4 largest                                    | 8 largest | 20 largest | 50 largest |
| 3711                       | Motor vehicles and car bodies.....         | 1967..... | 107                 | 7,354   | 27,296  | 92   | 98        | 99+        | 99+        |
|                            |  | 1972..... | 165                 | 11,783  | 42,908  | 93   | 99        | 99+        | 99+        |
| 3312                       | Blast furnaces and steel mills.....        | 1963..... | 161                 | 7,506   | 16,418  | 51   | 70        | 86         | 97         |
|                            |  | 1967..... | 200                 | 8,910   | 19,621  | 48   | 66        | 83         | 96         |
|                            |  | 1972..... | 245                 | 10,305  | 23,947  | 45   | 65        | 84         | 96         |
| 3714                       | Motor vehicle parts and accessories.....   | 1967..... | 1,424               | 5,712   | 11,624  | 60   | 68        | 78         | 87         |
|                            |  | 1972..... | 1,748               | 9,165   | 18,334  | 61   | 69        | 78         | 86         |
| 2711                       | Newspapers.....                            | 1963..... | 7,982               | 3,202   | 4,484   | 15   | 22        | 36         | 52         |
|                            |  | 1967..... | 7,589               | 4,184   | 5,757   | 16   | 25        | 40         | 56         |
|                            |  | 1972..... | 7,461               | 6,220   | 8,263   | 17   | 28        | 43         | 60         |
| 3662                       | Radio and TV communications equipment..... | 1963..... | 1,001               | 4,328   | 7,146   | 29   | 45        | 69         | 84         |
|                            |  | 1967..... | 1,111               | 5,456   | 8,556   | 22   | 37        | 61         | 81         |
|                            |  | 1972..... | 1,524               | 5,803   | 9,140   | 19   | 33        | 58         | 77         |
| 2834                       | Pharmaceutical preparations.....           | 1963..... | 944                 | 2,596   | 3,314   | 22   | 38        | 72         | 89         |
|                            |  | 1967..... | 791                 | 3,720   | 4,696   | 24   | 40        | 73         | 90         |
|                            |  | 1972..... | 680                 | 5,640   | 7,150   | 26   | 44        | 75         | 91         |
| 3721                       | Aircraft.....                              | 1963..... | 82                  | <sup>4</sup> 3,543                                  | <sup>4</sup> 6,317                                | 59   | 83        | 99         | 99+        |
|                            |  | 1967..... | 91                  | <sup>4</sup> 5,448                                  | <sup>4</sup> 11,080                               | 69   | 89        | 99         | 99+        |
|                            |  | 1972..... | 141                 | 5,083   | 8,779   | 66   | 86        | 99         | 99+        |
| 2911                       | Petroleum refining.....                    | 1963..... | 266                 | 3,137   | 16,497  | 34   | 56        | 82         | 95         |
|                            |  | 1967..... | 276                 | 4,745   | 20,294  | 33   | 57        | 84         | 96         |
|                            |  | 1972..... | 152                 | 4,595   | 25,921  | 31   | 56        | 84         | 95         |
| 3861                       | Photographic equipment and supplies.....   | 1963..... | 499                 | 1,270   | 1,851   | 63   | 76        | 86         | 93         |
|                            |  | 1967..... | 505                 | 2,481   | 3,665   | 69   | 81        | 89         | 95         |
|                            |  | 1972..... | 455                 | 4,088   | 5,624   | 74   | 85        | 92         | 95         |
| 2051                       | Bread, cake, and related products.....     | 1963..... | 4,339               | 2,404   | 4,506   | 23   | 35        | 45         | 56         |
|                            |  | 1967..... | 3,445               | 2,753   | 5,103   | 26   | 38        | 47         | 58         |
|                            |  | 1972..... | 2,800               | 3,518   | 6,132   | 29   | 39        | 50         | 62         |
| 3585                       | Refrigeration and heating equipment.....   | 1963..... | 655                 | 893   | (NA)  | 25   | 39        | 58         | 77         |
|                            |  | 1967..... | 624                 | 1,480   | (NA)  | 31   | 45        | 62         | 78         |
|                            |  | 1972..... | 655                 | 3,517   | 7,084   | 40   | 53        | 70         | 85         |
| 3573                       | Electronic computing equipment.....        | 1967..... | 134                 | 1,926   | 3,771   | 66   | 83        | 92         | 98         |
|                            |  | 1972..... | 518                 | 3,419   | 6,471   | 51   | 63        | 78         | 90         |
| 2752                       | Commercial printing, lithographic.....     | 1963..... | 6,738               | 1,392   | 2,150   | 6  | 10        | 16         | 25         |
|                            |  | 1967..... | 6,718               | 1,898   | 3,139   | 5  | 8         | 15         | 25         |
|                            |  | 1972..... | 8,160               | 3,155   | 5,125   | 4  | 8         | 15         | 24         |

See footnotes at end of table.



NO. 1455. PERCENT OF SHIPMENTS ACCOUNTED FOR BY LARGE MANUFACTURING COMPANIES,  
SELECTED INDUSTRIES: 1963 TO 1972—Continued

[See headnote, p. 821]

| Industry<br>code <sup>1</sup> | INDUSTRY                                 | Year      | Number<br>of<br>companies | Value<br>added<br>by<br>manu-<br>facture <sup>2</sup><br>(mil.<br>dol.) | Total<br>value<br>of<br>ship-<br>ments <sup>3</sup><br>(mil.<br>dol.) | PERCENT OF SHIPMENTS,<br>RANKED BY COMPANY SIZE |                   |                    |                    |
|-------------------------------|--|-----------|---------------------------|---|---|---|-------------------|--------------------|--------------------|
|                               |  |           |                           |   |   | 4<br>larg-<br>est                               | 8<br>larg-<br>est | 20<br>larg-<br>est | 50<br>larg-<br>est |
| 3531                          | Construction machinery.....              | 1963..... | 561                       | 1,301   | 2,696   | 42  | 53                | 70                 | 84                 |
|                               |  | 1967..... | 578                       | 2,506   | 4,138   | 41  | 53                | 72                 | 85                 |
|                               |  | 1972..... | 644                       | 3,131   | 6,091   | 43  | 54                | 72                 | 86                 |
| 3011                          | Tires and inner tubes.....               | 1963..... | 105                       | 1,322   | 2,950   | 70  | 89                | 97                 | 99+                |
|                               |  | 1967..... | 119                       | 1,823   | 3,734   | 70  | 88                | 87                 | 100                |
|                               |  | 1972..... | 136                       | 3,071   | 5,747   | 73  | 90                | 98                 | 99+                |
| 2011                          | Meatpacking plants.....                  | 1963..... | 2,833                     | 1,908   | 12,435  | 31  | 40                | 49                 | 60                 |
|                               |  | 1967..... | 2,529                     | 2,221   | 15,576  | 26  | 39                | 49                 | 61                 |
|                               |  | 1972..... | 2,293                     | 2,968   | 23,003  | 22  | 37                | 51                 | 66                 |
| 3761                          | Guided missiles and space vehicles.....  | 1967..... | (NA)                      | 3,339   | 4,641   | (NA)  | (NA)              | (NA)               | (NA)               |
|                               |  | 1972..... | 23                        | 2,949   | 4,124   | 62  | 88                | (D)                | 100                |
| 2621                          | Papermills, exc. building paper.....     | 1963..... | 186                       | 1,857   | 3,825   | 26  | 42                | 63                 | 85                 |
|                               |  | 1967..... | 203                       | 2,356   | 4,844   | 26  | 43                | 65                 | 86                 |
|                               |  | 1972..... | 194                       | 2,909   | 6,385   | 24  | 40                | 66                 | 88                 |
| 2421                          | Sawmills and planing mills, general..... | 1963..... | 11,931                    | 1,376   | 3,156   | 11  | 14                | 20                 | 29                 |
|                               |  | 1967..... | 10,016                    | 1,556   | 3,506   | 11  | 15                | 22                 | 31                 |
|                               |  | 1972..... | 7,664                     | 2,907   | 6,421   | 18  | 23                | 33                 | 45                 |
| 2844                          | Toilet preparations.....                 | 1963..... | 673                       | 1,233   | 1,793   | 38  | 52                | 75                 | 90                 |
|                               |  | 1967..... | 628                       | 1,731   | 2,516   | 38  | 52                | 74                 | 90                 |
|                               |  | 1972..... | 593                       | 2,834   | 4,053   | 38  | 53                | 74                 | 91                 |
| 3465                          | Automotive stampings.....                | 1972..... | 388                       | 2,664   | 5,286   | 69  | 72                | 79                 | 87                 |
| 3661                          | Telephone, telegraph apparatus.....      | 1963..... | 65                        | 1,014   | 1,736   | 92  | 96                | 99                 | 99+                |
|                               |  | 1967..... | 82                        | 1,537   | 2,591   | 92  | 96                | 99                 | 99+                |
|                               |  | 1972..... | 157                       | 2,650   | 4,525   | (D)   | (D)               | 98                 | 99+                |
| 2026                          | Fluid milk.....                          | 1968..... | 4,030                     | 2,203   | 7,026   | 23  | 30                | 40                 | 48                 |
|                               |  | 1967..... | 2,988                     | 2,351   | 7,826   | 22  | 30                | 42                 | 51                 |
|                               |  | 1972..... | 2,024                     | 2,552   | 9,396   | 18  | 26                | 42                 | 56                 |
| 2086                          | Bottled and canned soft drinks.....      | 1963..... | 3,569                     | 1,233   | 2,211   | 12  | 17                | 24                 | 34                 |
|                               |  | 1967..... | 3,057                     | 1,679   | 3,173   | 13  | 20                | 28                 | 38                 |
|                               |  | 1972..... | 2,271                     | 2,337   | 5,454   | 14  | 21                | 32                 | 44                 |
| 3321                          | Gray iron foundries <sup>5</sup> .....   | 1963..... | 1,062                     | 1,169   | 1,985   | 28  | 37                | 51                 | 65                 |
|                               |  | 1967..... | 969                       | 1,543   | 2,638   | 27  | 36                | 50                 | 64                 |
|                               |  | 1972..... | 893                       | 2,257   | 3,877   | 34  | 45                | 59                 | 71                 |
| 3523                          | Farm machinery and equipment.....        | 1963..... | 1,481                     | (NA)  | 2,842   | 43  | 55                | 67                 | 77                 |
|                               |  | 1967..... | 1,526                     | 2,042   | 4,300   | 44  | 56                | 68                 | 77                 |
|                               |  | 1972..... | 1,465                     | 2,248   | 4,530   | 47  | 61                | 69                 | 78                 |
| 2111                          | Cigarettes.....                          | 1963..... | 7                         | <sup>6</sup> 1,310  | <sup>6</sup> 2,655  | 80  | 100               | (X)                | (X)                |
|                               |  | 1967..... | 8                         | <sup>6</sup> 1,640  | <sup>6</sup> 3,045  | 81  | 100               | (X)                | (X)                |
|                               |  | 1972..... | 13                        | <sup>6</sup> 2,188  | <sup>6</sup> 3,745  | 84  | (D)               | 100                | (X)                |
| 2821                          | Plastics materials and resins.....       | 1972..... | 193                       | 2,161   | 4,478   | 27  | 41                | 65                 | 90                 |
| 2721                          | Periodicals.....                         | 1963..... | 2,562                     | 1,349   | 2,296   | 28  | 42                | 59                 | 73                 |
|                               |  | 1967..... | 2,430                     | 1,869   | 3,096   | 24  | 37                | 56                 | 72                 |
|                               |  | 1972..... | 2,451                     | 2,110   | 3,511   | 26  | 38                | 54                 | 69                 |
| 2824                          | Organic fibers, noncellulosic.....       | 1963..... | 14                        | 922   | 1,403   | 94  | 99                | 100                | (X)                |
|                               |  | 1967..... | 22                        | 1,252   | 2,033   | 84  | 94                | (D)                | 100                |
|                               |  | 1972..... | 36                        | 2,040   | 3,639   | 74  | 91                | 99+                | 100                |
| 2841                          | Soap and other detergents.....           | 1963..... | 641                       | 1,137   | 2,128   | 72  | 80                | 88                 | 93                 |
|                               |  | 1967..... | 599                       | 1,404   | 2,593   | 70  | 78                | 86                 | 92                 |
|                               |  | 1972..... | 577                       | 2,039   | 3,394   | 62  | 74                | 85                 | 92                 |
| 2751                          | Commercial printing, letterpress.....    | 1963..... | 11,979                    | (NA)  | 2,645   | 13  | 19                | 28                 | 38                 |
|                               |  | 1967..... | 11,955                    | (NA)  | 3,256   | 14  | 21                | 29                 | 39                 |
|                               |  | 1972..... | 13,040                    | 2,015   | 3,292   | 14  | 19                | 26                 | 35                 |

D Withheld to avoid disclosure. NA Not available. X Not applicable. <sup>1</sup> See headnote. <sup>2</sup> See footnote 6, table 1434. <sup>3</sup> See footnote 2, table 1454. <sup>4</sup> Value of work done reported instead of value of shipments; therefore, value added not adjusted for inventory change. <sup>5</sup> Includes foundries producing gray-iron castings for other plants of the same company. Accordingly, percentages do not reflect market shares in industry as such. <sup>6</sup> Value of production reported instead of value of shipments; therefore, formula for computing adjusted value added modified to include only changes in work-in-process inventories between beginning and end of year.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1972, Concentration Ratios in Manufacturing*, MC72(SR)-2.

## NO. 1456. BEVERAGE INDUSTRY—SUMMARY: 1965 TO 1977

| YEAR AND ITEM                   | Unit          | Total  | Malt<br>bever-<br>ages | Malt | Wines,<br>brandy,<br>brandy<br>spirits | Distilled<br>liquor,<br>exc.<br>brandy | Soft<br>drinks<br>(bottled,<br>canned) | Flavoring,<br>extracts,<br>sirups |
|---------------------------------|---------------|--------|------------------------|------|--|--|--|-----------------------------------|
| <b>1965: Employees</b> .....    | 1,000.....    | 210    | 60                     | 2    | 6                                      | 19                                     | 114                                    | 9                                 |
| Payroll.....                    | Mil. dol..... | 1,348  | 488                    | 16   | 42                                     | 126                                    | 614                                    | 63                                |
| Value added by manufacture..... | Mil. dol..... | 4,152  | 1,360                  | 51   | 167                                    | 713                                    | 1,373                                  | 488                               |
| Value of shipments.....         | Mil. dol..... | 7,728  | 2,497                  | 204  | 396                                    | 1,288                                  | 2,505                                  | 837                               |
| <b>1970: Employees</b> .....    | 1,000.....    | 228    | 57                     | 2    | 9                                      | 21                                     | 129                                    | 11                                |
| Payroll.....                    | Mil. dol..... | 1,884  | 616                    | 19   | 71                                     | 171                                    | 916                                    | 91                                |
| Value added by manufacture..... | Mil. dol..... | 6,144  | 2,028                  | 58   | 258                                    | 887                                    | 2,121                                  | 792                               |
| Value of shipments.....         | Mil. dol..... | 12,373 | 3,822                  | 210  | 591                                    | 1,758                                  | 4,631                                  | 1,361                             |
| <b>1975: Employees</b> .....    | 1,000.....    | 204    | 47                     | 2    | 11                                     | 16                                     | 117                                    | 11                                |
| Payroll.....                    | Mil. dol..... | 2,418  | 726                    | 24   | 131                                    | 198                                    | 1,210                                  | 129                               |
| Value added by manufacture..... | Mil. dol..... | 8,110  | 2,008                  | 122  | 500                                    | 1,056                                  | 3,321                                  | 1,103                             |
| Value of shipments.....         | Mil. dol..... | 20,396 | 5,641                  | 591  | 1,197                                  | 2,004                                  | 8,602                                  | 2,361                             |
| <b>1977: Employees</b> .....    | 1,000.....    | 196    | 44                     | 2    | 9                                      | 16                                     | 114                                    | 11                                |
| Payroll.....                    | Mil. dol..... | 2,849  | 858                    | 27   | 134                                    | 232                                    | 1,449                                  | 149                               |
| Value added by manufacture..... | Mil. dol..... | 9,901  | 2,602                  | 101  | 510                                    | 1,150                                  | 4,085                                  | 1,453                             |
| Value of shipments.....         | Mil. dol..... | 23,329 | 6,653                  | 499  | 1,363                                  | 2,296                                  | 10,007                                 | 2,511                             |

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977*, and *Annual Survey of Manufactures*.

## NO. 1457. ALCOHOLIC BEVERAGES—SUMMARY: 1960 TO 1979

[For years ending June 30 except, beginning 1977, ending Sept. 30. Includes Puerto Rico. Excludes imports. See *Historical Statistics, Colonial Times to 1970*, series P 235 for beer production, and P 236a for distilled spirits]

| ITEM   | Unit                         | 1960 | 1965  | 1970  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979  |
|--|------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Beer: Breweries operated</b> .....              | Number                       | 229  | 197   | 154   | 118   | 117   | 96    | 95    | 89    | (NA)  |
| Production.....                                    | Mil. bbl. <sup>1</sup>       | 95   | 108   | 135   | 153   | 158   | 161   | 170   | 176   | 183   |
| Imports (incl. ale, etc.) <sup>2</sup> .....       | Mil. bbl. <sup>1</sup>       | (NA) | (NA)  | (NA)  | 1.4   | 1.7   | 2.4   | 2.6   | 3.1   | 4.1   |
| Value of shipments (SIC 2082) <sup>3</sup> .....   | Mil. dol.....                | (NA) | 2,470 | 3,822 | 5,047 | 5,641 | 6,025 | 6,653 | 7,550 | 8,167 |
| Tax-paid withdrawals.....                          | Mil. bbl. <sup>1</sup>       | 89   | 100   | 123   | 142   | 147   | 149   | 156   | 160   | 167   |
| Stocks on hand, June 30.....                       | Mil. bbl. <sup>1</sup>       | 11   | 13    | 15    | 14    | 14    | 14    | 14    | 14    | 14    |
| Per capita consumption <sup>4</sup> .....          | Gallons                      | 24.0 | 25.5  | 28.6  | 31.0  | 32.8  | 31.2  | 32.3  | 33.1  | 34.0  |
| Of domestic output.....                            | Gallons                      | 23.9 | 25.3  | 28.4  | 30.8  | 32.4  | 30.8  | 31.8  | 32.4  | 33.1  |
| <b>Distilled spirits:</b>                          |                              |      |       |       |       |       |       |       |       |       |
| Production facilities operated.....                | Number                       | 178  | 153   | 140   | 120   | 115   | 107   | 96    | 101   | (NA)  |
| Warehouses operated.....                           | Number                       | 241  | 268   | 274   | 255   | 241   | 233   | 222   | 220   | (NA)  |
| Production, total <sup>5</sup> .....               | Mil. tax gal. <sup>6,7</sup> | 273  | 276   | 355   | 268   | 278   | 234   | 225   | 268   | 241   |
| Whisky.....  | Mil. tax gal. <sup>6,7</sup> | 150  | 118   | 160   | 93    | 50    | 79    | 82    | 71    | 104   |
| Tax-paid withdrawals, total <sup>8</sup> .....     | Mil. tax gal. <sup>6,7</sup> | 178  | 205   | 256   | 292   | 295   | 304   | 296   | 321   | 318   |
| Whisky.....  | Mil. tax gal. <sup>6,7</sup> | 84   | 90    | 112   | 138   | 137   | 135   | 126   | 136   | 125   |
| Stocks on hand, June 30, total <sup>5</sup> .....  | Mil. tax gal. <sup>6,7</sup> | 932  | 990   | 1,091 | 933   | 836   | 782   | 726   | 670   | 659   |
| Whisky.....  | Mil. tax gal. <sup>6,7</sup> | 814  | 841   | 960   | 876   | 780   | 723   | 668   | 611   | 596   |
| Bottled for consumption, total.....                | Mil. wine gal. <sup>9</sup>  | 204  | 244   | 312   | 349   | 357   | 369   | 361   | 390   | 377   |
| Whisky.....  | Mil. wine gal. <sup>9</sup>  | 147  | 161   | 192   | 184   | 182   | 179   | 166   | 170   | 161   |
| Per capita consumption <sup>4</sup> .....          | Wine gal. <sup>9</sup>       | 1.87 | 2.13  | 2.61  | 2.89  | 2.49  | 2.11  | 2.67  | 2.78  | 2.70  |
| Of domestic output.....                            | Wine gal. <sup>9</sup>       | 1.54 | 1.66  | 1.91  | 2.03  | 1.75  | 2.00  | 1.93  | 2.02  | 1.96  |
| <b>Still wines: Production</b> <sup>10</sup> ..... | Mil. wine gal. <sup>9</sup>  | 511  | 565   | 713   | 848   | 782   | 768   | 771   | 731   | 739   |
| Tax-paid withdrawals <sup>11</sup> .....           | Mil. wine gal. <sup>9</sup>  | 148  | 163   | 204   | 274   | 287   | 303   | 306   | 313   | 324   |
| Stocks on hand, June 30 <sup>12</sup> .....        | Mil. wine gal. <sup>9</sup>  | 143  | 157   | 207   | 307   | 325   | 325   | 392   | 431   | 485   |
| Per capita consumption <sup>4</sup> .....          | Wine gal. <sup>9</sup>       | 1.36 | 1.44  | 1.70  | 2.26  | 2.20  | 2.40  | 2.45  | 2.54  | 2.60  |
| Of domestic output.....                            | Wine gal. <sup>9</sup>       | 1.28 | 1.32  | 1.52  | 1.91  | 1.96  | 1.95  | 2.35  | 2.01  | 2.02  |
| <b>Effervescent wines:</b> <sup>13</sup>           |                              |      |       |       |       |       |       |       |       |       |
| Production.....                                    | Mil. wine gal. <sup>9</sup>  | 4.1  | 6.4   | 20.0  | 20.3  | 18.0  | 20.2  | 21.2  | 23.8  | 24.4  |
| Tax-paid withdrawals.....                          | Mil. wine gal. <sup>9</sup>  | 3.3  | 5.7   | 17.1  | 18.7  | 17.6  | 18.8  | 20.3  | 21.2  | 22.1  |
| Stocks on hand, June 30.....                       | Mil. wine gal. <sup>9</sup>  | 2.7  | 3.6   | 8.1   | 9.5   | 9.0   | 9.4   | 10.4  | 11.4  | 12.0  |
| Per capita consumption <sup>4</sup> .....          | Wine gal. <sup>9</sup>       | .04  | .06   | .15   | .14   | .13   | .14   | .16   | .15   | .15   |
| Of domestic output.....                            | Wine gal. <sup>9</sup>       | .03  | .05   | .13   | .13   | .12   | .12   | .14   | .13   | .12   |

NA Not available. <sup>1</sup> Barrels of 31 wine gallons (see footnote 9). <sup>2</sup> Source: U.S. Bureau of Census, *Imports for Consumption, General Imports*, FT 246. <sup>3</sup> Source: U.S. Bureau of Census, *Census of Manufactures, 1977* and *1978 Annual Survey of Manufactures*. <sup>4</sup> Source: U.S. Dept. of Commerce, Bureau of Industrial Economics. Based on U.S. Bureau of the Census estimated population 18 years old and over, as of July 1, including Armed Forces abroad. <sup>5</sup> Excludes alcohol produced for industrial use. <sup>6</sup> A tax gallon for spirits of 100 proof or over is equivalent to the proof gallon; for spirits of less than 100 proof to the wine gallon. (See footnotes 7 and 9.) <sup>7</sup> A proof gallon is the alcoholic equivalent of a U.S. gallon at 60° F, containing 50 percent of ethyl alcohol by volume. <sup>8</sup> Includes ethyl alcohol. <sup>9</sup> A wine gallon is the U.S. gallon equivalent to the volume of 231 cubic inches. <sup>10</sup> Production represents total amount removed from fermenters, including distilling material, and, beginning 1970, includes increase after fermentation (by amelioration, sweetening, and addition of wine spirits). In 1974, 389 million gallons of distilling materials were produced; 1975, 359 mil. gal.; 1976, 343 million gal. 1977, 347 million gal.; 1978, 258 mil. gal.; and 1979, 259 mil. gal. <sup>11</sup> Includes special natural wines. <sup>12</sup> Excludes distilling materials. <sup>13</sup> Includes champagne, other effervescent wines, and artificially carbonated wines.

Source: Except as noted, U.S. Bureau of Alcohol, Tobacco, and Firearms, *Alcohol and Tobacco Summary Statistics*, annual.

## NO. 1458. TOBACCO PRODUCTS—PRODUCTION AND CONSUMPTION: 1960 TO 1979

[Production data are for years ending June 30. Excludes cigars produced in customs bonded manufacturing warehouses. See also *Historical Statistics, Colonial Times to 1970*, series P 239-241]

| ITEM                                 | Unit          | 1960 | 1965 | 1970 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 |
|--------------------------------------|---------------|------|------|------|------|------|------|------|------|------|------|------|
| Production:                          |               |      |      |      |      |      |      |      |      |      |      |      |
| Cigarettes <sup>1</sup> .....        | Billions..... | 506  | 562  | 562  | 593  | 616  | 652  | 627  | 688  | 673  | 688  | 707  |
| Cigars <sup>1</sup> .....            | Billions..... | 6.9  | 8.9  | 8.0  | 8.0  | 11.4 | 8.7  | 8.3  | 6.7  | 5.8  | 5.6  | 5.1  |
| Tobacco <sup>2</sup> .....           | Mil. lb.....  | 176  | 169  | 164  | 157  | 149  | 152  | 155  | 153  | 155  | 156  | 159  |
| Per capita consumption: <sup>3</sup> |               |      |      |      |      |      |      |      |      |      |      |      |
| All products.....                    | Lb. 4.....    | 11.8 | 11.5 | 9.6  | 9.7  | 9.5  | 9.4  | 9.1  | 8.6  | 8.5  | 8.1  | 7.9  |
| Cigarettes.....                      | 1,000.....    | 4.2  | 4.3  | 4.0  | 4.0  | 4.1  | 4.1  | 4.1  | 4.1  | 4.1  | 4.0  | 3.9  |
| Weight.....                          | Lb. 4.....    | 9.64 | 9.37 | 7.78 | 7.95 | 7.92 | 7.90 | 7.73 | 7.27 | 7.20 | 6.89 | 6.75 |
| Cigars <sup>5</sup> .....            | Number.....   | 61   | 70   | 60   | 52   | 49   | 44   | 39   | 36   | 33   | 47   | 43   |
| Weight.....                          | Lb. 4.....    | 1.18 | 1.24 | 1.00 | .83  | .77  | .70  | .63  | .57  | .54  | .44  | .39  |
| Tobacco <sup>2</sup> .....           | Lb. 4.....    | .99  | .88  | .83  | .79  | .75  | .75  | .72  | .73  | .70  | .81  | .79  |

<sup>1</sup> Large and small. Source: U.S. Bureau of Alcohol, Tobacco, and Firearms, *Alcohol and Tobacco Summary Statistics*, annual. <sup>2</sup> Smoking and chewing tobaccos and snuff. Source: U.S. Dept. of Agriculture, *Agricultural Marketing Service, Manufacture and Sales of Snuff, Smoking, and Chewing Tobacco*, quarterly. <sup>3</sup> Based on U.S. Bureau of the Census estimated population 18 years old and over, as of July 1, including Armed Forces abroad. 1979 data preliminary.

<sup>4</sup> Unstemmed processing weight equivalent. <sup>5</sup> Weighing over 3 pounds per 1,000.

Source: Except as noted, U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Tobacco Situation*, quarterly.

## NO. 1459. MILL CONSUMPTION OF NATURAL AND MANMADE FIBERS: 1960 TO 1979

[In millions of pounds, except per capita. Per capita figures based on U.S. Bureau of the Census population estimates as of July 1, including Armed Forces abroad. See *Historical Statistics, Colonial Times to 1970*, series P 229 and P 230, for wool and silk]

| ITEM                                       | 1960  | 1965  | 1970  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979 <sup>1</sup> |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| Cotton, total <sup>2</sup> (mil. lb.)..... | 4,234 | 4,522 | 3,854 | 3,864 | 3,658 | 3,309 | 3,027 | 3,414 | 3,170 | 3,041 | 3,077             |
| Per capita (lb.).....                      | 23.4  | 23.2  | 18.8  | 18.5  | 17.4  | 15.6  | 14.2  | 15.9  | 14.6  | 13.9  | 14.0              |
| Wool, total <sup>3</sup> (mil. lb.).....   | 411   | 387   | 240   | 219   | 151   | 93    | 110   | 122   | 108   | 115   | 111               |
| Per capita (lb.).....                      | 2.3   | 2.0   | 1.2   | 1.0   | .7    | .4    | .5    | .6    | .5    | .5    | .5                |
| Flax, total (mil. lb.).....                | 5     | 8     | 6     | 6     | 7     | 7     | 3     | 4     | 3     | 4     | 5                 |
| Silk, total (mil. lb.).....                | 7     | 6     | 2     | 2     | 3     | 3     | 1     | 3     | 2     | 2     | 2                 |
| Manmade fibers: <sup>4</sup>               |       |       |       |       |       |       |       |       |       |       |                   |
| Rayon, acetate, total (mil. lb.).....      | 1,055 | 1,550 | 1,414 | 1,413 | 1,390 | 1,111 | 801   | 855   | 862   | 871   | 823               |
| Per capita (lb.).....                      | 5.8   | 8.0   | 6.9   | 6.8   | 6.6   | 5.2   | 3.8   | 4.0   | 4.0   | 4.0   | 3.7               |
| Noncellulosic, total (mil. lb.).....       | 762   | 1,962 | 4,086 | 6,153 | 7,275 | 6,589 | 6,615 | 7,198 | 8,026 | 8,357 | 8,642             |
| Per capita (lb.).....                      | 4.2   | 10.1  | 19.9  | 29.5  | 34.6  | 31.1  | 31.0  | 33.4  | 37.0  | 38.2  | 39.2              |

<sup>1</sup> Preliminary. <sup>2</sup> Reported by U.S. Bureau of the Census. For American cotton, tare as reported by Crop Reporting Board is deducted. For foreign cotton, 15 pounds deducted, 1960-1965; 20 pounds thereafter. <sup>3</sup> Reported by U.S. Bureau of the Census. Excludes consumption in cotton and other spinning systems and consumption in bating and felt manufacture. <sup>4</sup> From *Textile Organon*. Represents domestic shipments plus imports for consumption. Includes textile glass-fiber and producers waste consumed at mills.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Cotton and Wool Situation*, April 1980.

## NO. 1460. WOOL—PRODUCTION, PRICE, AND SUPPLY: 1960 TO 1979

[In millions of pounds, except as indicated. For 1960 and for wool consumed in manufacturing, excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series K 559-560, for shorn wool production and price, and series P 229, for wool consumed in manufacturing]

| ITEM  | 1960 | 1965 | 1970 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 <sup>1</sup> |
|---|------|------|------|------|------|------|------|------|-------------------|
| Stocks of apparel wool, Jan. 1 <sup>2</sup> ..... | 101  | 73   | 75   | 41   | 41   | 39   | 31   | 42   | 28                |
| Sheep and lambs shorn (mil.).....                 | 31   | 24   | 19   | 16   | 14   | 14   | 13   | 13   | 13                |
| Weight per fleece (lb.).....                      | 8.5  | 8.5  | 8.4  | 8.2  | 8.3  | 8.1  | 8.1  | 8.1  | 8.0               |
| Shorn wool production (grease basis).....         | 265  | 201  | 162  | 131  | 120  | 111  | 107  | 102  | 103               |
| Price per pound <sup>3</sup> (cents).....         | 42.0 | 47.1 | 35.4 | 59.2 | 44.7 | 65.7 | 72.0 | 74.5 | 86.3              |
| Total wool production (grease basis).....         | 299  | 225  | 177  | 137  | 125  | 115  | 109  | 102  | 103               |
| Wool, clean basis: Total production.....          | 145  | 113  | 88   | 68   | 61   | 56   | 55   | 51   | 52                |
| Imports of dutiable wool <sup>4</sup> .....       | 74   | 163  | 80   | 12   | 17   | 38   | 34   | 27   | 20                |
| Imports of duty free wool <sup>4</sup> .....      | 154  | 109  | 73   | 15   | 17   | 19   | 19   | 23   | 22                |
| Total new supply <sup>5</sup> .....               | 320  | 349  | 243  | 121  | 119  | 133  | 120  | 144  | 122               |
| Consumed in manufacturing <sup>6</sup> .....      | 411  | 387  | 240  | 94   | 110  | 122  | 108  | 115  | 111               |
| Apparel class <sup>7</sup> .....                  | 246  | 275  | 164  | 75   | 94   | 107  | 95   | 102  | 101               |
| Carpet class.....                                 | 165  | 112  | 77   | 19   | 16   | 15   | 13   | 13   | 10                |

<sup>1</sup> Preliminary. <sup>2</sup> Scoured basis. <sup>3</sup> Weighted season average price received by farmers. 1960, April-March marketing season; thereafter, calendar year. <sup>4</sup> Imports for consumption. Dutiable imports include all apparel wool, and duty-free imports include all carpet wool. <sup>5</sup> Production, imports, and stock of apparel wool Jan. 1. <sup>6</sup> Scoured wool, plus greasy wool reduced to scoured basis. Wool regarded as suitable for apparel purposes; formerly "Combing and Clothing." <sup>7</sup> Includes raw wool consumed on woolen and worsted systems only.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Agricultural Statistics*, annual. Imports from U.S. Bureau of the Census.

## NO. 1461. RAW COTTON—SPINDLES, CONSUMPTION, AND STOCKS: 1950 TO 1980

[For years ending July 31. Excludes Alaska and Hawaii. Consumption and stocks are expressed in running bales, counting round as half bales, except foreign cotton which is in equivalent 500-pound bales. See *Historical Statistics, Colonial Times to 1970*, series P 228, for total cotton consumed including linters]

| ITEM                                    | Unit       | 1950 | 1955 | 1960 | 1965 | 1970 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 |
|---|------------|------|------|------|------|------|------|------|------|------|------|------|
| Cotton systems spindle:                 |            |      |      |      |      |      |      |      |      |      |      |      |
| Total in place <sup>1</sup>             | Mil.       | 23.0 | 22.3 | 20.0 | 19.3 | 19.9 | 18.3 | 18.0 | 17.8 | 17.5 | 17.4 | 17.1 |
| Total active <sup>2</sup>               | Mil.       | 21.8 | 20.7 | 19.2 | 18.8 | 19.1 | 16.8 | 17.0 | 16.8 | 16.3 | 16.3 | 16.0 |
| Spindle hours <sup>3</sup>              | Bil.       | 109  | 113  | 113  | 102  | 74   | 44   | 51   | 45   | 42   | 42   | 42   |
| Cotton consumed, total <sup>4</sup>     | Mil. bales | 8.9  | 8.8  | 9.0  | 9.2  | 8.0  | 5.6  | 7.0  | 6.5  | 6.2  | 6.1  | 6.3  |
| Cotton stocks, end of year <sup>5</sup> | Mil. bales | 6.5  | 11.0 | 7.3  | 14.1 | 5.4  | 5.2  | 3.4  | 2.8  | 4.9  | 3.5  | 2.8  |

<sup>1</sup> All spindles in place regardless of fiber spun. <sup>2</sup> Active last day of year, regardless of type of fiber spun. On July 29, 1978, there were 6,366,000 spindles active on cotton, 9,958,000 on manmade and other fibers and blends, and 1,224,000 idle. <sup>3</sup> Consuming 100 percent cotton. <sup>4</sup> Excludes linters. Includes foreign and domestic cotton. <sup>5</sup> Excludes linters. Includes stocks at public storage and compresses.

Source: U.S. Bureau of the Census, *Cotton Production and Distribution*, annual, and *Current Industrial Reports*, series M22P.

## NO. 1462. BROADWOVEN GRAY AND FINISHED FABRICS—PRODUCTION BY TYPE: 1960 TO 1978

[In billions of linear yards. Fabrics classified by primary fiber content]

| PRODUCT  | 1960 | 1965 | 1970 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
|--|------|------|------|------|------|------|------|------|------|
| <b>Broadwoven gray fabrics, total</b>                    | 12.1 | 13.4 | 11.5 | 11.3 | 10.7 | 9.5  | 10.9 | 10.7 | 10.7 |
| Cotton woven goods over 12 in. in width <sup>1</sup>     | 9.4  | 9.2  | 6.2  | 5.1  | 4.7  | 4.1  | 4.7  | 4.4  | 4.0  |
| Sheeting, allied coarse, medium yarn fabrics             | 2.5  | 2.6  | 1.8  | 1.3  | 1.1  | .9   | .9   | .7   | .7   |
| Print cloth yarn fabrics                                 | 3.3  | 3.1  | 2.4  | 2.0  | 1.9  | 1.5  | 1.8  | 1.7  | 1.5  |
| Manmade fiber fabrics <sup>1</sup>                       | (NA) | 3.9  | 5.0  | 6.1  | 5.9  | 5.3  | 6.1  | 6.2  | 6.6  |
| 100 percent filament yarn                                | (NA) | 1.6  | 1.5  | 1.9  | 2.0  | 1.7  | 2.0  | 2.0  | 2.3  |
| 100 percent spun yarn <sup>2</sup>                       | (NA) | 1.5  | 2.9  | 3.5  | 3.3  | 3.0  | 3.5  | 3.6  | 3.7  |
| Polyester blends with cotton                             | (NA) | .7   | 2.0  | 2.5  | 2.4  | 2.4  | 2.7  | 2.7  | 2.6  |
| Woolen and worsted <sup>3</sup>                          | .3   | .3   | .2   | .1   | (Z)  | (Z)  | (Z)  | .1   | .1   |
| <b>Broadwoven finished fabrics, total</b>                | 9.6  | 11.0 | 9.7  | 9.7  | 8.4  | 8.0  | 8.3  | 8.2  | 8.5  |
| Cotton fiber   | 7.4  | 7.7  | 5.2  | 4.5  | 3.6  | 3.5  | 3.5  | 3.3  | 3.3  |
| Manmade fiber fabrics and silk <sup>4</sup>              | 2.1  | 3.3  | 4.5  | 5.2  | 4.7  | 4.6  | 4.8  | 4.9  | 5.2  |
| Bleached and white finished <sup>5</sup>                 | 5.0  | 6.4  | 6.1  | 5.8  | 5.2  | 4.7  | 5.1  | 5.1  | 5.4  |
| Cotton   | 3.2  | 3.5  | 2.4  | 2.0  | 1.8  | 1.6  | 1.6  | 1.6  | 1.6  |
| Manmade fiber fabrics and silk <sup>4</sup> <sup>5</sup> | 1.8  | 2.8  | 3.7  | 3.8  | 3.4  | 3.1  | 3.5  | 3.5  | 3.8  |
| Plain dyed and finished cottons                          | 2.5  | 2.7  | 1.8  | 1.6  | 1.2  | 1.2  | 1.3  | 1.2  | 1.2  |
| Printed and finished goods <sup>6</sup>                  | 2.1  | 1.9  | 1.9  | 2.4  | 1.9  | 2.1  | 2.0  | 1.9  | 1.9  |

NA Not available. Z Less than 50 million.

<sup>1</sup> Except woven felts; in terms of finished yardage. <sup>2</sup> Except blanketing. <sup>3</sup> Except woven felts; in terms of finished yardage. <sup>4</sup> Fabrics made of polyester, rayon, acetate, nylon, silk, glass, acrylic fibers, etc. <sup>5</sup> Includes plain dyed manmade fibers. <sup>6</sup> Includes roller, screen, and block printed; excludes printed towels, tablecloths, flock, plisse, moire, or embossed.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-22S and MQ-22T.

## NO. 1463. MALE AND FEMALE CLOTHING: 1960 TO 1979

[See also *Historical Statistics, Colonial Times to 1970*, series P 242 and 243]

| ITEM                             | Unit       | 1960  | 1965  | 1970  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979 <sup>1</sup> |
|----------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| <b>MALE CLOTHING</b>             |            |       |       |       |       |       |       |       |       |       |                   |
| Men's suits <sup>2</sup>         | Mil. units | 21.3  | 21.9  | 17.7  | 16.7  | 16.8  | 13.7  | 16.2  | 17.3  | 17.0  | 14.3              |
| Boys' suits <sup>3</sup>         | Mil. units | 5.1   | 5.6   | 4.7   | 3.0   | 2.9   | 2.5   | 2.5   | 3.6   | 4.0   | (NA)              |
| Separate trousers (men's)        | Mil. units | 100.3 | 142.3 | 173.6 | 171.1 | 156.8 | 118.9 | 132.2 | 128.8 | 129.2 | 137.9             |
| Separate coats <sup>4</sup>      | Mil. units | 14.2  | 16.3  | 16.1  | 25.3  | 21.1  | 13.1  | 13.8  | 17.8  | 16.0  | (NA)              |
| Men's and youths' <sup>5</sup>   | Mil. units | 10.2  | 12.3  | 11.8  | 21.3  | 18.6  | 11.5  | 12.9  | 16.6  | 15.0  | 14.1              |
| Boys' <sup>5</sup>               | Mil. units | 4.0   | 4.0   | 4.3   | 4.0   | 2.5   | 1.6   | .8    | 1.2   | 1.0   | (NA)              |
| Woven shirts, men's <sup>6</sup> | Mil. doz.  | 23.2  | 28.2  | 20.8  | 20.1  | 20.4  | 17.4  | 19.5  | 18.2  | 15.4  | 14.2              |
| Overalls <sup>6</sup>            | Mil. doz.  | 7.5   | 10.6  | 17.9  | 23.1  | 22.0  | 22.7  | 25.1  | 24.7  | 23.6  | 26.2              |
| Work shirts (incl. flannels)     | Mil. doz.  | 3.8   | 4.0   | 4.1   | 4.1   | 3.4   | 2.9   | 3.7   | 4.0   | 3.7   | 3.5               |
| <b>FEMALE CLOTHING</b>           |            |       |       |       |       |       |       |       |       |       |                   |
| Blouses                          | Mil. doz.  | 15.6  | 19.0  | 13.3  | 17.0  | 17.2  | 18.3  | 19.7  | 24.7  | 25.4  | 27.6              |
| Dresses                          | Mil. units | 253   | 281   | 251   | 227   | 190   | 174   | 171   | 193   | 192   | 142               |
| Suits <sup>7</sup>               | Mil. units | 9.4   | 11.9  | 8.8   | 8.0   | 7.8   | 9.0   | 11.7  | 36.5  | 32.8  | 31.1              |
| Skirts                           | Mil. doz.  | 8.3   | 8.9   | 6.9   | 5.0   | 4.4   | 4.3   | 4.9   | 5.4   | 5.6   | 7.5               |
| Untrimmed coats                  | Mil. units | 21.0  | 19.1  | 17.0  | 22.9  | 20.5  | 18.4  | 20.7  | 19.0  | 19.4  | 21.1              |
| Fur-trimmed coats                | Mil. units | 2.5   | 6.1   | 4.7   |       |       |       |       |       |       |                   |
| Knit outerwear: Sweaters         | Mil. doz.  | 6.4   | 7.3   | 5.3   | 7.0   | 6.3   | 6.6   | 6.1   | 6.8   | 5.9   | 5.7               |
| Sport shirts                     | Mil. doz.  | 2.3   | 3.4   | 4.0   | 6.4   | 7.4   | 7.8   | 8.4   | 11.7  | 11.1  | (NA)              |

NA Not available. <sup>1</sup> Preliminary. <sup>2</sup> Beginning 1975, excludes leisure suits. <sup>3</sup> Beginning 1970, includes uniform suits and coats. <sup>4</sup> Beginning 1975, excludes leisure coats. <sup>5</sup> Includes dress and sport. <sup>6</sup> Includes jean-cut casual slacks. <sup>7</sup> Beginning 1977, includes pant suits.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-23A, M-23B, and M-23H.

## NO. 1464. FOOTWEAR—PRODUCTION, SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT

## CONSUMPTION: 1960 TO 1979

[In millions of pairs, except as indicated. See *Historical Statistics, Colonial Times to 1970*, series P 260-261, for men's and women's shoes]

| ITEM                                | 1960         | 1965         | 1970         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978         | 1979 <sup>1</sup> |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| <b>Apparent consumption</b> .....   | <b>623.4</b> | <b>711.3</b> | <b>801.7</b> | <b>803.6</b> | <b>743.3</b> | <b>727.9</b> | <b>786.3</b> | <b>745.7</b> | <b>787.7</b> | <b>775.7</b>      |
| Production, shoes and slippers..... | 600.0        | 626.2        | 562.3        | 490.0        | 453.0        | 413.1        | 422.5        | 391.1        | 418.9        | 381.2             |
| Percent exported.....               | .5           | .4           | .4           | .7           | .9           | 1.1          | 1.4          | 1.3          | 1.7          | 2.6               |
| Value (bil. dol.).....              | 2.2          | 2.5          | 2.9          | 3.0          | 3.2          | 3.1          | 3.5          | 3.7          | 3.8          | (NA)              |
| Imports.....                        | 26.6         | 87.6         | 241.5        | 317.2        | 294.3        | 319.4        | 369.8        | 360.0        | 375.7        | 403.6             |
| Percent of total consumption.....   | 4.3          | 12.3         | 30.1         | 39.5         | 39.6         | 43.9         | 47.0         | 48.3         | 47.7         | 52.0              |
| Shoes, sandals, playshoes.....      | 521.0        | 533.2        | 460.8        | 396.3        | 365.0        | 339.1        | 355.5        | 332.0        | 335.5        | 313.9             |
| Men's, youths', boys'.....          | 124.7        | 143.8        | 143.5        | 140.8        | 127.9        | 121.2        | 128.1        | 116.8        | 116.8        | 103.5             |
| Women's.....                        | 279.8        | 280.0        | 230.2        | 179.3        | 167.1        | 154.1        | 155.9        | 145.0        | 145.4        | 146.6             |
| Misses'.....                        | 40.2         | 36.5         | 23.2         | 17.5         | 15.8         | 13.1         | 15.6         | 13.2         | 13.1         | 14.0              |
| Children's.....                     | 32.7         | 33.5         | 25.9         | 23.8         | 20.6         | 18.5         | 21.0         | 18.3         | 16.2         | 13.7              |
| Infants' and babies'.....           | 36.6         | 32.5         | 29.0         | 25.2         | 23.8         | 24.2         | 24.9         | 22.7         | 23.2         | 21.1              |
| Athletic shoes.....                 | 7.0          | 7.0          | 9.0          | 9.6          | 9.9          | 7.9          | 10.1         | 16.0         | 20.9         | 15.0              |

NA Not available. <sup>1</sup> Preliminary. <sup>2</sup> Source: U.S. Bureau of the Census, *Census of Manufactures, 1977*.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series M31A.

## NO. 1465. HOSIERY—PRODUCTION, BY TYPE: 1960 TO 1979

[In millions of dozens of pairs. Excludes Alaska and Hawaii. Excludes slipper socks]

| TYPE  | 1960         | 1965         | 1970         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978         | 1979         |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>All types</b> .....                              | <b>154.9</b> | <b>198.2</b> | <b>244.1</b> | <b>227.4</b> | <b>216.4</b> | <b>224.8</b> | <b>253.9</b> | <b>257.4</b> | <b>263.6</b> | <b>294.5</b> |
| <b>Women's</b> .....                                | <b>65.0</b>  | <b>92.7</b>  | <b>125.7</b> | <b>99.9</b>  | <b>88.7</b>  | <b>97.7</b>  | <b>113.8</b> | <b>110.6</b> | <b>110.9</b> | <b>141.7</b> |
| Pantyhose.....                                      | (NA)         | (NA)         | 58.4         | 75.0         | 60.0         | 61.3         | 70.4         | 68.7         | 74.0         | 91.0         |
| Stockings.....                                      | 64.9         | 92.3         | 36.3         | 15.6         | 13.2         | 9.9          | 7.6          | 6.6          | 6.5          | 6.0          |
| Knee-highs and anklets (sheer).....                 | 2            | .4           | 1.0          | 9.3          | 15.5         | 27.6         | 35.9         | 35.3         | 30.5         | 44.7         |
| Infants' and children's <sup>1</sup> .....          | 17.8         | 18.9         | 20.6         | 22.7         | 22.1         | 22.0         | 27.7         | 28.4         | 29.8         | 32.1         |
| Anklets.....  | 17.1         | 17.4         | 15.3         | 17.8         | 17.3         | 17.3         | 21.3         | 21.3         | 22.1         | 22.2         |
| <b>Girls', boys', and women's<sup>2</sup></b> ..... | <b>20.8</b>  | <b>35.2</b>  | <b>33.6</b>  | <b>41.2</b>  | <b>41.4</b>  | <b>41.9</b>  | <b>48.4</b>  | <b>49.0</b>  | <b>46.7</b>  | <b>48.4</b>  |
| Anklets.....  | 19.4         | 28.9         | 20.4         | 22.2         | 20.7         | 20.7         | 21.3         | 20.2         | 18.5         | 19.6         |
| Knee-highs.....                                     | 1.5          | 5.5          | 10.4         | 15.0         | 16.1         | 16.8         | 19.4         | 21.9         | 20.6         | 22.2         |
| <b>Men's (sizes 10 and up)</b> .....                | <b>51.2</b>  | <b>51.8</b>  | <b>64.2</b>  | <b>63.7</b>  | <b>64.2</b>  | <b>63.2</b>  | <b>66.0</b>  | <b>69.3</b>  | <b>76.4</b>  | <b>72.2</b>  |
| Anklets.....  | 39.0         | 43.5         | 54.0         | 52.8         | 53.8         | 51.1         | 51.3         | 50.5         | 51.3         | 43.3         |
| Mid-calf and knee-highs.....                        | (NA)         | 8.1          | 10.0         | 10.8         | 10.3         | 11.9         | 14.5         | 18.6         | 24.7         | 28.5         |

NA Not available. <sup>1</sup> Sizes 3-8½. Includes knee-highs. <sup>2</sup> Sizes 8-11. Includes foot socks not shown separately.

Source: National Association of Hosiery Manufacturers, Charlotte, N.C., *Hosiery Statistics*, annual. (Copyright.)

## NO. 1466. CHEMICALS AND ALLIED PRODUCTS—VALUE OF SHIPMENTS: 1965 TO 1977

[In millions of dollars. "N.e.c." means not elsewhere classified]

| PRODUCT  | 1965  | 1970  | 1972  | 1973  | 1974   | 1975   | 1976   | 1977   |
|--|-------|-------|-------|-------|--------|--------|--------|--------|
| Alkalies and chlorine.....                       | 575   | 666   | 806   | 876   | 1,232  | 1,673  | 1,866  | 1,786  |
| Industrial gases.....                            | 495   | 664   | 659   | 721   | 793    | 906    | 1,049  | 1,199  |
| Cyclic crudes and intermediates.....             | 1,452 | 2,014 | 2,332 | 2,764 | 4,141  | 4,202  | 5,231  | 5,489  |
| Inorganic pigments.....                          | 549   | 683   | 756   | 893   | 1,196  | 964    | 1,267  | 1,280  |
| Industrial organic chemicals, n.e.c.....         | 5,023 | 6,470 | 7,466 | 8,548 | 12,743 | 14,098 | 16,794 | 19,382 |
| Miscellaneous cyclic chemicals, except urea..... | 3,773 | 4,526 | 5,435 | 6,023 | 9,027  | 9,964  | 11,735 | (NA)   |
| Industrial inorganic chemicals, n.e.c.....       | 3,339 | 4,109 | 3,003 | 3,514 | 4,609  | 4,675  | 5,751  | 6,920  |
| Potassium and sodium compounds.....              | 547   | 543   | 503   | 583   | 900    | 910    | 1,074  | 1,103  |
| Plastics materials and resins.....               | 3,471 | 4,562 | 4,486 | 5,678 | 8,444  | 7,747  | 10,455 | 12,189 |
| Synthetic rubber (vulcanizable elastomers).....  | 959   | 1,114 | 1,289 | 1,397 | 1,862  | 1,820  | 2,204  | 2,354  |
| Cellulosic manmade fibers.....                   | 741   | 665   | 685   | 744   | 898    | 781    | 814    | 851    |
| Organic fibers, noncellulosic.....               | 1,833 | 2,468 | 2,949 | 3,954 | 3,867  | 4,035  | 4,414  | 5,472  |
| Biological products.....                         | 172   | 351   | 495   | 559   | 684    | 788    | 874    | 1,068  |
| Medicinals and botanicals.....                   | 464   | 747   | 794   | 986   | 1,467  | 1,489  | 1,774  | 2,206  |
| Pharmaceutical preparations.....                 | 3,621 | 5,264 | 6,295 | 6,841 | 7,463  | 8,247  | 9,217  | 9,639  |
| Soap and detergents.....                         | 1,956 | 2,509 | 2,852 | 3,033 | 3,500  | 3,963  | 4,490  | 5,006  |
| Polishes and sanitation goods.....               | 890   | 1,306 | 1,736 | 1,844 | 1,980  | 2,196  | 2,432  | 2,680  |
| Specialty cleaning and sanitation products.....  | 448   | 755   | 899   | 937   | 1,071  | 1,197  | 1,316  | 1,482  |
| Toilet preparations.....                         | 2,286 | 3,770 | 4,247 | 4,573 | 4,797  | 5,178  | 5,883  | 6,379  |
| Hair preparations (incl. shampoos).....          | 706   | 1,034 | 1,065 | 1,100 | 1,129  | 1,306  | 1,408  | 1,475  |
| Perfumes, toilet water, colognes.....            | 264   | 536   | 677   | 716   | 755    | 918    | 1,007  | 1,097  |
| Dentifrices, mouthwashes, gargles, etc.....      | 259   | 468   | 485   | (S)   | 535    | 536    | 628    | 653    |
| Paints and allied products.....                  | 2,566 | 3,019 | 3,520 | 3,914 | 4,578  | 4,672  | 5,415  | 6,123  |
| Fertilizers.....                                 | 1,434 | 1,394 | 2,642 | 3,033 | 5,203  | 6,589  | 6,026  | 6,902  |
| Adhesives and sealants.....                      | 446   | 580   | 954   | 1,152 | 1,404  | 1,464  | 1,655  | 1,883  |
| Explosives.....                                  | 200   | 213   | 238   | 247   | 359    | 450    | 426    | 436    |
| Printing ink.....                                | 324   | 289   | 498   | 528   | 623    | 698    | 765    | 904    |

NA Not available. S Does not meet publication standards. <sup>1</sup> Synthetic ammonia, nitric acid, and ammonium compounds included in fertilizers. <sup>2</sup> Includes products not shown separately. <sup>3</sup> Excludes gelatin.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1972*, and *1977*, and *Annual Survey of Manufactures*.

## NO. 1467. CHEMICALS—PRODUCTION, BY KIND: 1965 TO 1978

[In thousands of short tons, except as indicated. Data for chemicals shown are restricted to a selected group composed for the most part of inorganic chemicals and related products which are sufficiently important economically to justify publication. Includes data for chemicals produced by Tennessee Valley Authority, and by Government-owned privately operated plants. See *Historical Statistics, Colonial Times to 1970*, series P 248, 249, and 251, for sodium hydroxide, ammonia (anhydrous), and sulfuric acid, respectively]

| CHEMICAL   | 1965              | 1970   | 1973              | 1974              | 1975              | 1976              | 1977              | 1978              |
|--|-------------------|--------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Acetylene <sup>1</sup> (mil. cu. ft.).....   | 16,659            | 14,834 | 8,278             | 7,807             | 6,704             | 7,111             | 6,003             | 5,386             |
| Aluminum chloride:   |                   |        |                   |                   |                   |                   |                   |                   |
| Anhydrous (100% AlCl <sub>3</sub> ).....   | 33                | 31     | 37                | 37                | 27                | 34                | 45                | 68                |
| Liquid and crystal (32° Bé).....   | 26                | 23     | (b)               | (b)               | (b)               | (b)               | 21                | 19                |
| Aluminum sulfate (17% Al <sub>2</sub> O <sub>3</sub> ) <sup>2</sup> .....                  | 1,063             | 1,191  | 1,252             | 1,278             | 1,163             | 1,202             | 1,255             | 1,309             |
| Commercial iron free.....  | 59                | 71     | 230               | 232               | 252               | 174               | 123               | 138               |
| Ammonia, synthetic anhydrous.....  | 8,869             | 13,824 | 15,093            | 15,732            | 16,419            | 16,716            | 17,765            | 17,188            |
| Ammonium nitrate, original solution (100% NH <sub>4</sub> NO <sub>3</sub> ).....           | 4,663             | 6,456  | 7,157             | 7,542             | 7,088             | 7,186             | 7,177             | 7,210             |
| Ammonium sulfate, synthetic (technical) <sup>3</sup> .....                                 | 1,947             | 1,894  | 2,054             | 2,060             | 2,106             | 2,010             | 2,264             | 2,449             |
| Argon, refined (mil. cu. ft.).....   | 1,286             | 2,742  | 4,382             | 4,688             | 4,457             | 5,107             | 5,922             | 7,088             |
| Calcium carbide (commercial).....  | 1,098             | 791    | 290               | 324               | 253               | 244               | 252               | 260               |
| Calcium phosphate dibasic (100% CaHPO <sub>4</sub> ).....                                  | 263               | 594    | 540               | 611               | 522               | 655               | 699               | 755               |
| Carbon, activated <sup>4</sup> .....   | 85                | 80     | 84                | 75                | 74                | 72                | 79                | 84                |
| Carbon dioxide (liquid, gas, and solid) <sup>5</sup> .....                                 | 1,086             | 1,135  | 1,558             | 1,804             | 1,850             | 2,064             | 2,817             | 3,181             |
| Chlorine, gas <sup>6</sup> .....   | 6,517             | 9,764  | 10,402            | 10,753            | 9,167             | 10,378            | 10,573            | 11,052            |
| Chrome, yellow and orange (C.P.).....  | 29                | 32     | 37                | 38                | 26                | 35                | 35                | 37                |
| Chrome orange, molybdate (C.P.).....   | 9                 | 11     | 14                | 15                | 10                | 16                | 14                | 14                |
| Hydrochloric acid (100% HCl).....  | 1,370             | 2,014  | 2,516             | 2,451             | 2,009             | 2,541             | 2,668             | 2,791             |
| Hydrofluoric acid, anhydrous and aqueous (100% HF).....                                    | 150               | 240    | 269               | 282               | 213               | 182               | 171               | 176               |
| Hydrogen, high purity <sup>7</sup> <sup>8</sup> (bil. cu. ft.).....                        | 30                | 60     | 65                | 82                | 74                | 82                | 85                | 91                |
| Hydrogen, lower purity <sup>8</sup> <sup>9</sup> (bil. cu. ft.).....                       | 92                | 61     | 80                | 94                | 80                | 94                | 94                | 105               |
| Hydrogen peroxide (100% by weight).....  | 53                | 61     | 80                | 94                | 80                | 94                | 94                | 105               |
| Nitric acid (100% HNO <sub>3</sub> ).....  | 4,893             | 6,679  | 8,441             | 8,120             | 7,527             | 7,791             | 7,987             | 7,934             |
| Nitrogen, high purity (99.5-100%).....   | 72                | 151    | <sup>10</sup> 228 | <sup>10</sup> 243 | <sup>10</sup> 252 | <sup>10</sup> 289 | <sup>10</sup> 328 | <sup>10</sup> 383 |
| Nitrogen solutions (100% N) (bil. cu. ft.).....  | 1,112             | 1,721  | 1,947             | 2,102             | 2,068             | 2,117             | 2,468             | 2,286             |
| Oxygen, high purity <sup>7</sup> (bil. cu. ft.).....                                       | 182               | 284    | 392               | 390               | 353               | 388               | 392               | 430               |
| Oxygen, lower purity <sup>8</sup> (bil. cu. ft.).....                                      | 2,170             | 1,899  |                   |                   |                   |                   |                   |                   |
| Phosphoric acid (100% P <sub>2</sub> O <sub>5</sub> ).....                                 | 3,905             | 5,683  | 6,848             | 7,213             | 7,877             | 7,949             | 8,745             | 9,359             |
| Phosphorus (white and red).....  | 555               | 597    | 526               | 524               | 450               | 437               | 430               | 441               |
| Potassium hydroxide (88-92% KOH).....  | 181               | 175    | 220               | 208               | 236               | 252               | 236               | 232               |
| Potassium pyrophosphate (100% K <sub>2</sub> P <sub>2</sub> O <sub>7</sub> ).....          | 55                | 40     | 42                | 40                | 41                | 40                | 41                | 46                |
| Sodium bichromate and chromate.....  | 141               | 154    | 159               | 179               | 125               | 157               | 157               | 257               |
| Sodium carbonate: Synthetic (58% Na <sub>2</sub> O) <sup>11</sup> .....                    |                   |        |                   |                   |                   |                   |                   |                   |
| Total crude carbonate equivalent <sup>12</sup> .....                                       | 4,926             | 4,393  | 3,813             | 3,507             | 2,802             | 2,344             | 1,810             | (b)               |
| Finished light <sup>13</sup> .....   | 2,272             | 1,771  | 1,768             | 1,711             | 1,284             | 1,016             | (b)               | (b)               |
| Finished dense.....  | 2,399             | 2,483  | 1,920             | 1,643             | 1,396             | 1,238             | 812               | (b)               |
| Natural <sup>14</sup> .....  | 1,494             | 2,678  | 3,707             | 4,048             | 4,353             | 5,016             | 6,228             | 6,776             |
| Sodium chlorate (100% NaClO <sub>3</sub> ).....  | 134               | 198    | 174               | 203               | 173               | 199               | 251               | 257               |
| Sodium hydroxide (caustic soda):   |                   |        |                   |                   |                   |                   |                   |                   |
| Liquid (100% NaOH).....  | 6,842             | 10,141 | 9,307             | 11,189            | 9,299             | 9,987             | 11,000            | 11,326            |
| Sodium phosphate:  |                   |        |                   |                   |                   |                   |                   |                   |
| Tribasic (100% Na <sub>3</sub> PO <sub>4</sub> ).....                                      | 55                | 53     | 54                | 52                | 57                | 60                | 65                | 67                |
| Meta (100% NaPO <sub>3</sub> ).....  | 81                | 87     | 74                | 80                | 54                | 63                | 65                | 70                |
| Tetra (100% Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> ).....                           | 107               | 56     | 46                | 46                | 34                | 37                | 41                | 40                |
| Triply (100% Na <sub>3</sub> P <sub>2</sub> O <sub>7</sub> ).....                          | 923               | 1,208  | 961               | 903               | 770               | 724               | 717               | 739               |
| Sodium silicate (soluble silicate glass, liquid and solid) (anhydrous) <sup>15</sup> ..... | 588               | 628    | 723               | 770               | 724               | 747               | 760               | 796               |
| Sodium sulfate:  |                   |        |                   |                   |                   |                   |                   |                   |
| High purity (more than 99% Na <sub>2</sub> SO <sub>4</sub> ).....                          | 428               | 812    | 754               | 783               | 796               | 507               | 522               | 509               |
| Glauber's salt (100% Na <sub>2</sub> SO <sub>4</sub> ·10H <sub>2</sub> O).....             |                   |        |                   |                   |                   |                   |                   |                   |
| Lower purity (99% or less Na <sub>2</sub> SO <sub>4</sub> ).....                           | <sup>16</sup> 976 | 561    | 551               | 565               | 431               | 725               | 677               | 660               |
| Sulfuric acid gross <sup>17</sup> (mil. sh. tons).....                                     | 25                | 30     | 32                | 34                | 32                | 34                | 38                | 41                |
| Titanium dioxide <sup>18</sup> (100% TiO <sub>2</sub> ).....                               | 577               | 655    | 785               | 787               | 603               | 713               | 687               | 701               |

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup> Excludes quantities of acetylene produced and consumed by railroad shops, shipyards, and small establishments using portable generators. <sup>2</sup> Excludes quantities produced and consumed by municipalities. <sup>3</sup> Excludes byproduct coke-oven production. <sup>4</sup> Includes data for decolorizing and water purification grades only. <sup>5</sup> Excludes quantities produced and consumed in plants manufacturing soda ash or urea. <sup>6</sup> Total production, including quantities liquefied for use, storage, or shipment. <sup>7</sup> 99.5-100%. <sup>8</sup> Excludes quantities produced and consumed in manufacture of methanol and ammonia, produced by ammonia dissociation process, or disposed of as waste, e.g., vented, used as fuel, etc. Beginning 1970, excludes amounts of hydrogen produced in petroleum refineries for captive use. <sup>9</sup> Less than 99.5%. <sup>10</sup> Combined with low purity. <sup>11</sup> Includes quantities used to manufacture caustic soda, sodium bicarbonate, finished light and dense soda ash. <sup>12</sup> Ammonia soda and caustic carbonation processes. <sup>13</sup> Excludes quantities converted to finished dense soda ash. <sup>14</sup> Collected by or in cooperation with U.S. Bureau of Mines. <sup>15</sup> Excludes amounts produced and consumed in making meta-, ortho-, and sesquioxides. <sup>16</sup> Includes Glauber's salt converted to 100% Na<sub>2</sub>SO<sub>4</sub>. <sup>17</sup> 100% H<sub>2</sub>SO<sub>4</sub>. Includes sulfuric acid of oleum grades. <sup>18</sup> Composite and pure.

Source: U.S. Bureau of the Census, compiled from manufacturers reports and published in *Current Industrial Reports*, series MA28A, MA28B, and MA28C.

## NO. 1468. PHARMACEUTICAL PREPARATIONS—VALUE OF SHIPMENTS: 1962 TO 1978

[In millions of dollars. Excludes biologicals. Total shipments includes products not shown separately]

| PRODUCT                                       | 1962         | 1965         | 1970         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978          |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| <b>Total shipments.....</b>                   | <b>2,796</b> | <b>3,583</b> | <b>5,280</b> | <b>6,463</b> | <b>7,090</b> | <b>7,887</b> | <b>8,778</b> | <b>9,414</b> | <b>10,218</b> |
| Drugs acting on—                              |              |              |              |              |              |              |              |              |               |
| Central nervous system and sense organs ..... | 698          | 960          | 1,442        | 1,700        | 1,795        | 2,036        | 2,176        | 2,231        | 2,350         |
| Cardiovascular systems .....                  | 127          | 175          | 305          | 461          | 542          | 634          | 733          | 751          | 841           |
| Respiratory systems .....                     | 278          | 329          | 489          | 611          | 646          | 749          | 862          | 896          | 1,039         |
| Digestive or genitourinary system .....       | 392          | 491          | 688          | 755          | 867          | 932          | 1,035        | 1,074        | 1,135         |
| Skin .....                                    | 136          | 209          | 299          | 375          | 432          | 457          | 529          | 621          | 653           |
| Drugs affecting—                              |              |              |              |              |              |              |              |              |               |
| Neoplasms and endocrine system .....          | 254          | 351          | 523          | 650          | 743          | 819          | 840          | 900          | 965           |
| Parasitic and infective diseases .....        | 483          | 621          | 859          | 1,033        | 1,116        | 1,164        | 1,255        | 1,285        | 1,314         |
| Vitamin, nutrient, and hematonic drugs .....  | 310          | 326          | 492          | 626          | 697          | 828          | 983          | 1,302        | 1,470         |
| Preparations for veterinary use .....         | 101          | 120          | 182          | 250          | 250          | 266          | 365          | 354          | 451           |

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-28G.

## NO. 1469. PETROLEUM AND COAL PRODUCTS—VALUE OF SHIPMENTS AND INVENTORIES: 1963 TO 1977

[In millions of dollars. See also table 1354]

| ITEM AND PRODUCT  | 1963          | 1967          | 1972          | 1973          | 1974          | 1975          | 1976          | 1977          |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Shipments, total <sup>1</sup></b>                    | <b>16,864</b> | <b>20,821</b> | <b>27,349</b> | <b>33,368</b> | <b>55,958</b> | <b>66,458</b> | <b>78,844</b> | <b>93,947</b> |
| Petroleum refining <sup>2</sup>                         | 15,558        | 19,249        | 24,773        | 30,472        | 52,225        | 62,481        | 74,348        | 88,590        |
| Gasoline .....  | 7,978         | 9,844         | 13,030        | 15,729        | 24,946        | 31,502        | 36,841        | 41,840        |
| Jet fuel .....  | 633           | 1,100         | 1,372         | 1,638         | 2,935         | 3,702         | 4,229         | 5,365         |
| Kerosene .....  | 375           | 431           | 372           | 456           | 736           | 791           | 828           | 1,224         |
| Light fuel oil .....                                    | 2,896         | 3,306         | 4,408         | 5,476         | 9,761         | 11,298        | 13,554        | 17,172        |
| Heavy oil .....   | 622           | 566           | 1,107         | 1,660         | 3,843         | 4,626         | 5,243         | 6,794         |
| Liquefied refinery gases .....                          | 703           | 1,136         | 1,153         | 1,430         | 3,028         | 2,910         | 3,604         | 4,501         |
| Lubricating oils and greases .....                      | 795           | 884           | 895           | 1,061         | 1,502         | 1,443         | 1,639         | 1,719         |
| Unfinished oils and lubricating oils base stock .....   | 526           | 613           | 734           | 891           | 1,420         | 1,613         | 2,195         | 2,888         |
| Asphalt .....   | 361           | 424           | 672           | 808           | 1,469         | 1,541         | 1,564         | 2,217         |
| Other petroleum products, and refinery products .....   | 1,306         | 1,572         | 2,576         | 2,896         | 3,733         | 3,978         | 4,496         | 5,357         |
| Paving mixtures and blocks .....                        | 403           | 530           | 893           | 962           | 1,167         | 1,203         | 1,229         | 1,519         |
| Asphalt felts and coatings .....                        | 408           | 519           | 902           | 1,059         | 1,357         | 1,463         | 1,700         | 1,829         |
| Lubricating oils and greases not made in refining ..... | 426           | 443           | 642           | 718           | 1,005         | 1,059         | 1,216         | 1,514         |
| Other .....   | 69            | 80            | 139           | 157           | 204           | 253           | 351           | 495           |
| <b>Inventories, total <sup>3</sup></b>                  | <b>1,818</b>  | <b>2,030</b>  | <b>2,223</b>  | <b>2,572</b>  | <b>4,101</b>  | <b>4,751</b>  | <b>5,213</b>  | <b>5,656</b>  |
| Petroleum refining .....                                | 1,696         | 1,904         | 2,002         | 2,366         | 3,770         | 4,395         | 4,802         | 5,196         |

<sup>1</sup> Includes other petroleum products, not shown separately. <sup>2</sup> Petroleum refining by product class. <sup>3</sup> Includes lubricating oils and greases from purchased materials. Inventories as of end of reporting year.Source: U.S. Bureau of the Census, *Census of Manufactures, 1977*, MC 77-1-29A.

## NO. 1470. RUBBER—NEW SUPPLY, DISTRIBUTION, AND STOCKS: 1960 TO 1978

[In thousands of long tons. 1960 excludes Alaska and Hawaii, except for imports and exports, which also include Puerto Rico. Natural rubber refers to dry weights of all types, including liquid latex, guayule, etc. Synthetic comprises SBR (including weight of oil content), neoprene, butyl, and butadiene-acrylonitrile, all years; beginning 1965, also includes polyisobutylene, chlorosulfonated polyethylene, and polysulfide, silicone, acrylic, stereo, and fluorocarbon rubbers. Reclaimed comprises both natural and synthetic]

| ITEM                                    | 1960         | 1965         | 1970         | 1971         | 1972         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978         |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>New supply .....</b>                 | <b>2,150</b> | <b>2,581</b> | <b>3,042</b> | <b>3,177</b> | <b>3,340</b> | <b>3,547</b> | <b>3,285</b> | <b>2,826</b> | <b>3,332</b> | <b>3,557</b> | <b>3,688</b> |
| Domestic production <sup>1</sup> .....  | 1,729        | 2,094        | 2,398        | 2,440        | 2,611        | 2,766        | 2,492        | 2,077        | 2,496        | 2,600        | 2,775        |
| Synthetic .....                         | 1,436        | 1,813        | 2,197        | 2,241        | 2,417        | 2,566        | 2,358        | 1,958        | 2,387        | 2,481        | 2,564        |
| Imports <sup>2</sup> .....              | 420          | 487          | 644          | 737          | 729          | 779          | 793          | 749          | 836          | 957          | 913          |
| Natural .....                           | 411          | 445          | 550          | 613          | 618          | 643          | 682          | 658          | 714          | 793          | 747          |
| <b>Distribution .....</b>               | <b>2,203</b> | <b>2,657</b> | <b>3,001</b> | <b>3,183</b> | <b>3,410</b> | <b>3,584</b> | <b>3,344</b> | <b>2,956</b> | <b>3,222</b> | <b>3,618</b> | <b>3,820</b> |
| Domestic consumption <sup>2</sup> ..... | 1,835        | 2,326        | 2,677        | 2,871        | 3,121        | 3,288        | 3,039        | 2,705        | 2,919        | 3,343        | 3,338        |
| Synthetic .....                         | 1,079        | 1,540        | 1,918        | 2,093        | 2,292        | 2,402        | 2,175        | 1,933        | 2,136        | 2,433        | 2,453        |
| Exports <sup>2</sup> .....              | 368          | 331          | 324          | 312          | 289          | 316          | 305          | 250          | 303          | 275          | 284          |
| Synthetic .....                         | 342          | 282          | 299          | 282          | 265          | 295          | 284          | 226          | 281          | 252          | 266          |
| <b>Stocks, end of year <sup>2</sup></b> | <b>359</b>   | <b>442</b>   | <b>645</b>   | <b>643</b>   | <b>632</b>   | <b>629</b>   | <b>644</b>   | <b>528</b>   | <b>642</b>   | <b>583</b>   | <b>561</b>   |

<sup>1</sup> Includes reclaimed and synthetic. <sup>2</sup> Natural, synthetic and reclaimed.Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-30A.

## NO. 1471. IRON AND STEEL INDUSTRY—SUMMARY: 1960 TO 1979

[Reporting companies in 1979 represented 89 percent of raw steel production of entire industry]

| ITEM                              | Unit                   | 1960  | 1965  | 1970  | 1972  | 1974  | 1975 | 1976  | 1977  | 1978  | 1979  |
|-----------------------------------|------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| Steel mill prod., apparent supply | Mil. tons <sup>1</sup> | 71.5  | 100.6 | 97.1  | 106.6 | 119.6 | 89.0 | 101.1 | 108.4 | 116.6 | 115.0 |
| Net shipments                     | Mil. tons <sup>1</sup> | 71.1  | 92.7  | 90.8  | 91.8  | 109.5 | 80.0 | 89.4  | 91.1  | 97.9  | 100.3 |
| Exports                           | Mil. tons <sup>1</sup> | 3.0   | 2.5   | 7.1   | 2.9   | 5.8   | 3.0  | 2.6   | 2.0   | 2.4   | 2.8   |
| Imports                           | Mil. tons <sup>1</sup> | 3.4   | 10.4  | 13.4  | 17.7  | 16.0  | 12.0 | 14.3  | 19.3  | 21.1  | 17.5  |
| Percent of total supply           | Percent                | 4.7   | 10.3  | 13.8  | 16.6  | 13.4  | 13.5 | 14.1  | 17.8  | 18.1  | 15.2  |
| Scrap consumed                    | Mil. tons <sup>1</sup> | 52.1  | 69.8  | 69.3  | 71.1  | 81.1  | 62.8 | 68.4  | 69.3  | 76.3  | 77.2  |
| Scrap produced                    | Mil. tons <sup>1</sup> | 33.3  | 46.7  | 46.4  | 44.7  | 47.4  | 40.1 | 43.5  | 42.4  | 44.8  | 45.3  |
| Scrap inventory                   | Mil. tons <sup>1</sup> | 7.7   | 6.0   | 6.5   | 7.1   | 6.9   | 7.6  | 8.6   | 7.7   | 6.9   | 7.4   |
| Iron and steel products:          |                        |       |       |       |       |       |      |       |       |       |       |
| Exports                           | Mil. tons <sup>1</sup> | 4.1   | 3.1   | 8.1   | 3.6   | 7.1   | 4.1  | 3.9   | 3.2   | 3.5   | 3.8   |
| Imports                           | Mil. tons <sup>1</sup> | 4.1   | 12.0  | 14.6  | 19.6  | 18.0  | 13.9 | 16.3  | 21.7  | 24.1  | 20.3  |
| Revenues                          | Bil. dol.              | 14.2  | 18.0  | 19.3  | 22.6  | 38.2  | 33.7 | 36.5  | 39.7  | 49.5  | 57.4  |
| Net income                        | Bil. dol.              | .8    | 1.1   | .5    | .8    | 2.5   | 1.6  | 1.3   | (2)   | 1.3   | 1.3   |
| Stockholders' equity <sup>2</sup> | Bil. dol.              | 10.5  | 12.0  | 13.0  | 13.7  | 14.5  | 16.2 | 17.2  | 18.0  | 17.7  | 18.4  |
| Total assets                      | Bil. dol.              | 15.9  | 18.8  | 23.6  | 24.8  | 29.5  | 30.4 | 33.6  | 35.4  | 38.4  | 41.2  |
| Net fixed assets                  | Bil. dol.              | 8.8   | 10.0  | 14.1  | 14.4  | 15.0  | 16.9 | 18.7  | 19.7  | 20.3  | 21.7  |
| Capital expenditures              | Bil. dol.              | 1.5   | 1.8   | 1.7   | 1.2   | 2.1   | 3.2  | 3.3   | 2.9   | 2.5   | 3.4   |
| Working capital ratio             | Ratio                  | 2.6   | 2.4   | 1.9   | 1.9   | 1.8   | 2.0  | 1.9   | 1.8   | 1.8   | 1.7   |
| Inventories                       | Bil. dol.              | 3.0   | 3.2   | 1.1   | 4.1   | 4.4   | 5.4  | 6.4   | 5.9   | 6.5   | 7.2   |
| Average employment                | 1,000                  | 572   | 584   | 531   | 478   | 512   | 457  | 454   | 452   | 449   | 453   |
| Man-hours worked                  | Mil                    | 1,087 | 1,421 | 1,220 | 1,225 | 1,313 | 855  | 877   | 875   | 892   | 894   |
| Index of output <sup>3</sup>      | 1967 = 100             | 82    | 101   | 101   | 102   | 123   | 109  | 117   | 116   | 122   | (NA)  |

NA Not available. Z Less than \$50 million. <sup>1</sup>In millions of short tons. <sup>2</sup>Prior to 1974, as of December 31; thereafter, as of January 1. <sup>3</sup>Index of output per work-hour, 1967 = 100.

Source: American Iron and Steel Institute, Washington, D.C., *Annual Statistical Report*. (Copyright.)

## NO. 1472. PIG IRON AND FERROALLOYS—SUMMARY: 1960 TO 1979

[In millions of short tons, except furnaces]

| ITEM                          | 1960 | 1965 | 1970 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|
| Blast furnaces, Jan. 1        | 263  | 239  | 228  | 216  | 206  | 199  | 196  | 193  | 179  | 169  |
| Number in blast, Jan. 1       | 229  | 191  | 169  | 126  | 163  | 136  | 119  | 107  | (NA) | (NA) |
| Total production <sup>1</sup> | 68.6 | 90.9 | 93.5 | 91.3 | 95.9 | 79.9 | 85.9 | 81.3 | 87.7 | 87.0 |
| Basic                         | 58.3 | 80.4 | 86.4 | 84.0 | 91.2 | 75.9 | 82.8 | 78.2 | 84.5 | 84.0 |
| Bessemer <sup>2</sup>         | 3.8  | 2.9  | 1.6  | 1.4  | 1.2  | 1.2  | 1.3  | .4   | .4   | .2   |
| Foundry <sup>3</sup>          | 2.2  | 2.3  | 2.3  | 2.0  | 1.5  | 1.3  | 1.5  | 1.6  | 1.9  | 1.5  |
| All other                     | 4.4  | 5.2  | 3.2  | 4.0  | 2.0  | 1.5  | 1.2  | 1.1  | .9   | 1.3  |
| By States:                    |      |      |      |      |      |      |      |      |      |      |
| Alabama                       | 3.5  | 4.3  | 4.7  | 4.1  | 3.9  | 3.6  | 3.3  | 3.0  | 3.4  | (NA) |
| Illinois                      | 5.3  | 6.3  | 7.4  | 7.2  | 7.2  | 5.2  | 6.4  | 6.2  | 6.9  | (NA) |
| Indiana                       | 8.4  | 11.0 | 13.3 | 15.3 | 17.0 | 15.7 | 17.4 | 16.5 | 18.8 | (NA) |
| New York                      | 4.2  | 6.1  | 5.6  | 4.0  | 4.7  | 3.3  | 4.4  | 3.5  | 3.5  | (NA) |
| Ohio                          | 11.8 | 15.4 | 15.6 | 16.4 | 17.4 | 14.1 | 15.8 | 14.7 | 14.3 | (NA) |
| Pennsylvania                  | 16.5 | 21.8 | 20.8 | 20.4 | 22.2 | 17.6 | 18.0 | 16.6 | 18.2 | (NA) |
| Other                         | 16.7 | 23.3 | 24.1 | 21.6 | 23.6 | 20.4 | 21.6 | 20.8 | 22.6 | (NA) |

NA Not available. <sup>1</sup> Beginning 1974, includes blast furnace ferroalloys. <sup>2</sup> Includes low phosphorus. <sup>3</sup> Includes ferrosilicon.

Source: American Iron and Steel Institute, Washington, D.C., *Annual Statistical Report*. (Copyright.)

## NO. 1473. RAW STEEL PRODUCTION: 1950 TO 1979

[In millions of net tons, except percent. See also *Historical Statistics, Colonial Times to 1970*, series P 265-269]

| ITEM                     | 1950  | 1960  | 1965  | 1970  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979  |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| World production         | 207.9 | 379.7 | 503.1 | 654.2 | 768.6 | 782.8 | 712.0 | 745.6 | 741.8 | 790.6 | 824.5 |
| U.S. production          | 96.8  | 99.3  | 131.5 | 131.5 | 150.8 | 145.7 | 116.6 | 128.0 | 125.3 | 137.0 | 136.3 |
| Percent of world         | 46.6  | 26.0  | 26.2  | 20.1  | 19.6  | 18.6  | 16.4  | 17.2  | 16.9  | 17.3  | 16.5  |
| Basic oxygen process     | -     | 3.3   | 22.9  | 63.3  | 83.3  | 81.6  | 71.8  | 79.9  | 77.4  | 83.5  | 83.3  |
| Electric                 | 6.0   | 8.4   | 13.8  | 20.2  | 27.8  | 28.7  | 22.7  | 24.6  | 27.9  | 32.2  | 33.9  |
| Open hearth <sup>2</sup> | 90.8  | 87.6  | 94.8  | 48.0  | 39.8  | 35.5  | 22.2  | 23.5  | 20.0  | 21.3  | 19.1  |
| Carbon                   | 88.3  | 90.9  | 116.7 | 117.4 | 132.7 | 126.6 | 100.4 | 112.0 | 108.1 | 116.9 | 116.2 |
| Alloy and stainless      | 8.6   | 8.4   | 14.8  | 14.1  | 18.1  | 19.1  | 16.3  | 16.0  | 17.2  | 20.1  | 20.1  |

- Represents zero. <sup>1</sup> Preliminary. <sup>2</sup> Includes bessemer.

Source: American Iron and Steel Institute, Washington, D.C., *Annual Statistical Report*. (Copyright.)



## No. 1474. STEEL PRODUCTS—NET SHIPMENTS, BY MARKET CLASSES: 1960 TO 1979

[In thousands of short tons. Comprises carbon, alloy, and stainless steel. "N.e.c." means not elsewhere classified]

| MARKET CLASS                        | 1960          | 1965          | 1970          | 1974           | 1975          | 1976          | 1977          | 1978          | 1979           |
|-------------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|
| <b>Total</b> <sup>1</sup>           | <b>71,149</b> | <b>92,666</b> | <b>90,798</b> | <b>109,472</b> | <b>79,957</b> | <b>89,447</b> | <b>91,147</b> | <b>97,935</b> | <b>100,262</b> |
| Automotive                          | 14,610        | 20,123        | 14,475        | 18,928         | 15,214        | 21,351        | 21,490        | 21,253        | 18,621         |
| Steel service centers, distributors | 11,125        | 14,813        | 16,025        | 20,400         | 12,700        | 14,615        | 15,346        | 17,333        | 18,246         |
| Construction, incl. maintenance     | 9,664         | 11,836        | 8,913         | 11,360         | 8,119         | 7,508         | 7,553         | 9,612         | 9,978          |
| Containers, packaging, shipping     | 6,429         | 7,331         | 7,775         | 8,218          | 6,053         | 6,914         | 6,714         | 6,595         | 6,772          |
| Cans and closures                   | 4,976         | 5,867         | 6,239         | 6,349          | 4,859         | 5,290         | 5,173         | 4,950         | 4,994          |
| Machinery, industrial equip., tools | 3,958         | 5,873         | 5,169         | 6,440          | 5,173         | 5,180         | 5,566         | 5,992         | 5,996          |
| Steel for converting and processing | 2,928         | 3,932         | 3,443         | 4,486          | 3,255         | 4,036         | 3,679         | 4,612         | 5,058          |
| Rail transportation                 | 2,525         | 3,805         | 3,098         | 3,417          | 3,152         | 3,056         | 3,238         | 3,549         | 4,111          |
| Freight cars, passenger cars        |               |               |               |                |               |               |               |               |                |
| Locomotives                         | 1,763         | 2,875         | 2,005         | 2,097          | 1,794         | 1,428         | 1,709         | 2,188         | 2,445          |
| Rails and all others <sup>2</sup>   | 762           | 930           | 1,093         | 1,320          | 1,358         | 1,628         | 1,529         | 1,361         | 1,666          |
| Contractors' products               | 3,602         | 5,018         | 4,440         | 6,249          | 3,927         | 4,502         | 4,500         | 3,480         | 3,745          |
| Oil and gas industries              | 1,759         | 1,896         | 3,550         | 4,210          | 4,171         | 2,653         | 3,650         | 4,140         | 3,739          |
| Electrical equipment                | 2,078         | 2,985         | 2,694         | 3,242          | 2,173         | 2,671         | 2,639         | 2,811         | 2,819          |
| Appliances, utensils, and cutlery   | 1,760         | 2,179         | 2,160         | 2,412          | 1,653         | 1,950         | 2,129         | 2,094         | 2,140          |
| Other domestic commercial equip.    | 1,959         | 2,179         | 1,778         | 1,941          | 1,380         | 1,813         | 1,846         | 1,889         | 2,073          |
| Exports (reporting companies only)  | 2,563         | 2,078         | 5,985         | 3,961          | 1,755         | 1,839         | 1,076         | 1,224         | 2,007          |
| Agricultural, incl. machinery       | 1,003         | 1,483         | 1,126         | 1,859          | 1,429         | 1,784         | 1,743         | 1,805         | 1,971          |
| Independent forgers, n.e.c.         | 841           | 1,250         | 1,048         | 1,339          | 1,098         | 952           | 998           | 1,192         | 1,254          |
| Industrial fasteners <sup>3</sup>   | 1,071         | 1,234         | 1,005         | 1,331          | 675           | 912           | 848           | 870           | 934            |
| Shipbuilding and marine equipment   | 622           | 1,051         | 859           | 1,339          | 1,413         | 969           | 869           | 845           | 924            |
| Mining, quarrying, and lumbering    | 288           | 392           | 497           | 844            | 596           | 536           | 486           | 508           | 569            |
| Ordnance and other military         | 165           | 289           | 1,222         | 654            | 405           | 219           | 193           | 207           | 204            |
| Aircraft and aerospace              | 78            | 94            | 58            | 79             | 69            | 59            | 63            | 60            | 60             |

<sup>1</sup> Total includes nonclassified shipments, and, beginning 1970, data include estimates for a relatively small number of companies which report raw steel production but not shipments. <sup>2</sup> Includes railways, rapid transit systems, railroad rails, trackwork, and equipment. <sup>3</sup> Bolts, nuts, rivets, and screws.

Source: American Iron and Steel Institute, Washington, D.C., *Annual Statistical Report*. (Copyright.)

## No. 1475. IRON AND STEEL—PRODUCER PRICE INDEXES: 1965 TO 1980

[1967=100]

| ITEM                            | 1965  | 1970  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  | 1978  | 1979  | 1980,<br>May |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| Iron and steel, total           | 37.9  | 115.1 | 128.4 | 136.2 | 178.6 | 200.9 | 215.9 | 230.4 | 253.6 | 283.5 | 304.7        |
| Steel mill products             | 97.5  | 114.2 | 130.4 | 134.1 | 170.0 | 197.2 | 209.8 | 229.9 | 254.5 | 280.4 | 305.5        |
| Finished                        | 97.5  | 114.2 | 130.4 | 134.1 | 170.0 | 196.6 | 209.0 | 229.0 | 253.5 | 279.5 | 304.3        |
| Semifinished                    | 98.3  | 112.2 | 130.9 | 133.9 | 169.0 | 206.7 | 223.1 | 243.6 | 270.5 | 294.3 | 324.2        |
| Pig iron and ferroalloys        | 100.3 | 114.8 | 125.4 | 129.4 | 168.1 | 264.7 | 261.6 | 257.1 | 260.0 | 296.7 | 309.1        |
| Iron ore                        | 100.7 | 100.1 | 103.0 | 106.7 | 123.3 | 154.3 | 171.0 | 186.1 | 194.9 | 216.7 | 246.1        |
| Scrap, iron and steel           | 112.6 | 138.6 | 121.8 | 188.0 | 353.2 | 245.6 | 259.0 | 231.2 | 264.6 | 341.9 | 301.5        |
| Foundry and forge shop products | 94.6  | 112.1 | 124.3 | 131.5 | 161.4 | 194.3 | 218.6 | 230.5 | 249.5 | 277.1 | 306.1        |

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

## No. 1476. CIVILIAN FIREARMS—DOMESTIC PRODUCTION AND IMPORTS: 1960 TO 1979

[In thousands. Beginning 1973, fiscal-year data. Includes firearms sold under civilian marksmanship program of Department of Defense]

| ITEM                    | 1960         | 1965         | 1969         | 1970 | 1973         | 1974         | 1975         | 1976         | 1977         | 1978         | 1979         |
|-------------------------|--------------|--------------|--------------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Total</b>            | <b>2,163</b> | <b>3,121</b> | <b>6,180</b> | (NA) | <b>5,758</b> | <b>6,542</b> | <b>6,852</b> | <b>6,120</b> | <b>5,798</b> | <b>5,735</b> | <b>6,209</b> |
| Domestic production     | 1,508        | 2,355        | 5,290        | (NA) | 4,844        | 5,639        | 5,769        | 5,225        | 5,016        | 4,866        | 5,323        |
| Handguns                | 475          | 666          | 2,840        | (NA) | 1,734        | 1,715        | 2,024        | 1,833        | 1,888        | 1,889        | 2,126        |
| Rifles                  | 469          | 790          |              | (NA) | 1,830        | 2,099        | 2,123        | 2,091        | 1,923        | 1,781        | 1,878        |
| Shotguns                | 564          | 899          | 2,450        | (NA) | 1,280        | 1,825        | 1,621        | 1,301        | 1,225        | 1,196        | 1,319        |
| Imports for consumption | 655          | 766          | 890          | 826  | 914          | 903          | 1,084        | 895          | 782          | 869          | 886          |
| Handguns                | 128          | 347          | 349          | 227  | 299          | 259          | 462          | 270          | 316          | 273          | 271          |
| Rifles                  | 402          | 245          | 207          | 237  | 195          | 188          | 166          | 157          | 170          | 223          | 257          |
| Shotguns                | 125          | 174          | 334          | 363  | 420          | 456          | 457          | 468          | 296          | 373          | 358          |

NA Not available.

Source: 1960-1970, U.S. Bureau of the Census, *U.S. Imports, General and Consumption, Schedule A Commodity and Country*, FT 135, and National Commission on the Causes and Prevention of Violence, Task Force report, *Firearms and Violence in American Life*. Beginning 1973, U.S. Bureau of Alcohol, Tobacco, and Firearms, *Alcohol, Tobacco and Firearms, Summary Statistics*, Publication ATF 1323.1.

## NO. 1477. FERROUS CASTINGS—SHIPMENTS: 1960 TO 1979

(In thousands of short tons. 1960 excludes Alaska and Hawaii. Data are based on a sample of foundries)

| ITEM                                     | 1960          | 1965          | 1970          | 1973          | 1974          | 1975          | 1976          | 1977          | 1978          | 1979, prel.   |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Gray iron castings</b> <sup>1 2</sup> | <b>11,594</b> | <b>15,713</b> | <b>13,945</b> | <b>17,047</b> | <b>15,661</b> | <b>12,407</b> | <b>14,168</b> | <b>15,107</b> | <b>15,452</b> | <b>14,532</b> |
| Pressure pipe and fittings               | 1,336         | 1,876         | 1,891         | 2,105         | 1,957         | 1,253         | 1,332         | 1,640         | 1,722         | 1,557         |
| Soil pipe and fittings                   | 782           | 958           | 953           | 956           | 771           | 595           | 657           | 459           | 497           | 594           |
| All other                                | 9,476         | 12,879        | 11,301        | 13,986        | 12,933        | 10,559        | 12,179        | 13,008        | 13,233        | 12,381        |
| <b>Malleable iron castings</b>           | <b>821</b>    | <b>1,136</b>  | <b>852</b>    | <b>1,031</b>  | <b>912</b>    | <b>729</b>    | <b>848</b>    | <b>829</b>    | <b>817</b>    | <b>725</b>    |
| For sale                                 | 467           | 648           | 521           | 616           | 553           | 431           | 491           | 458           | 447           | 383           |
| For own use                              | 354           | 488           | 331           | 415           | 359           | 298           | 357           | 371           | 370           | 342           |
| Standard malleable                       | 632           | 827           | 628           | 734           | 669           | 509           | 569           | 574           | 553           | 493           |
| Pearlitic malleable                      | 189           | 309           | 224           | 297           | 243           | 220           | 279           | 255           | 264           | 232           |
| <b>Steel castings</b> <sup>1</sup>       | <b>1,392</b>  | <b>1,961</b>  | <b>1,724</b>  | <b>1,894</b>  | <b>2,091</b>  | <b>1,974</b>  | <b>1,804</b>  | <b>1,677</b>  | <b>1,854</b>  | <b>2,029</b>  |
| Carbon                                   | 1,016         | 1,378         | 1,147         | 1,277         | 1,394         | 1,336         | 1,188         | 1,142         | 1,267         | 1,352         |
| Alloy                                    | 376           | 583           | 577           | 617           | 697           | 638           | 616           | 533           | 587           | 677           |

<sup>1</sup> Includes shipments "for own use." <sup>2</sup> Includes ductile (nodular) iron castings.Source: U.S. Bureau of the Census. Monthly data in *Current Industrial Reports*, series M33A.

## NO. 1478. NONFERROUS CASTINGS—SHIPMENTS: 1960 TO 1979

(In millions of pounds. Shipments include "for own use." Data based on sample and subject to sampling variation; see text, p. 803)

| ITEM                                      | 1960         | 1965         | 1970         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978         | 1979 <sup>1</sup> |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| <b>Shipments, all types</b>               | <b>2,201</b> | <b>3,437</b> | <b>3,033</b> | <b>3,800</b> | <b>3,211</b> | <b>2,534</b> | <b>3,157</b> | <b>3,281</b> | <b>3,205</b> | <b>3,158</b>      |
| Copper and copper-base alloy              | 760          | 889          | 751          | 780          | 671          | 519          | 549          | 2,009        | 2,005        | 1,991             |
| Aluminum and aluminum-base alloy          | 775          | 1,409        | 1,508        | 2,026        | 1,759        | 1,375        | 1,845        | 579          | 567          | 592               |
| Zinc and zinc-base alloy                  | 623          | 1,065        | 696          | 908          | 693          | 572          | 691          | 613          | 558          | 517               |
| Magnesium and magnesium-base alloy        | 24           | 32           | 34           | 45           | 49           | 32           | 39           | 49           | 44           | 33                |
| Lead and lead-base alloy die <sup>2</sup> | 21           | 42           | 45           | 41           | 39           | 36           | 32           | 31           | 31           | 25                |

<sup>1</sup> Preliminary. <sup>2</sup> Excludes lead die casting for battery plates and parts.Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M33E.

## NO. 1479. COPPER-BASE MILL AND FOUNDRY PRODUCTS—SHIPMENTS: 1960 TO 1978

(In millions of pounds, metal weight. 1960 excludes Alaska and Hawaii)

| PRODUCT                                | 1960         | 1965         | 1970         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978 <sup>1</sup> |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| <b>Total</b>                           | <b>4,298</b> | <b>6,288</b> | <b>5,640</b> | <b>7,195</b> | <b>6,196</b> | <b>4,639</b> | <b>5,512</b> | <b>5,980</b> | <b>6,251</b>      |
| Brass mill products                    | 1,878        | 2,974        | 2,513        | 3,319        | 2,813        | 2,025        | 2,517        | 2,668        | 2,712             |
| Alloyed <sup>2</sup>                   | 1,128        | 1,711        | 1,542        | 2,060        | 1,816        | 1,324        | 1,643        | 1,726        | 1,750             |
| Unalloyed                              | 750          | 1,263        | 971          | 1,259        | 997          | 701          | 873          | 942          | 962               |
| Copper wire mill products <sup>3</sup> | 1,521        | 2,177        | 2,329        | 3,032        | 2,647        | 2,056        | 2,383        | 2,667        | 2,911             |
| Brass and bronze foundry products      | 862          | 1,075        | 751          | 780          | 667          | 512          | 547          | 583          | 565               |
| Copper-base powder mill products       | 39           | 62           | 47           | 64           | 69           | 46           | 65           | 64           | 63                |

<sup>1</sup> Preliminary. <sup>2</sup> Excludes webbing scrap (military ammunition cups and discs). <sup>3</sup> Copper content.Source: U.S. Bureau of the Census and U.S. Bureau of Industrial Economics, *Current Industrial Reports*, series ITA-8006, annual.

## NO. 1480. ALUMINUM AND MAGNESIUM MILL PRODUCTS—NET SHIPMENTS: 1960 TO 1979

(In millions of pounds. 1960 excludes Alaska and Hawaii. Producers' net shipments consist of total shipments less shipments to other metal mills for further fabrication into other forms of mill products)

| PRODUCT   | 1960         | 1965         | 1970         | 1973          | 1974          | 1975         | 1976         | 1977          | 1978          | 1979 <sup>1</sup> |
|---|--------------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|---------------|-------------------|
| <b>Aluminum mill products</b>                   | <b>3,049</b> | <b>5,692</b> | <b>7,358</b> | <b>10,900</b> | <b>10,461</b> | <b>7,427</b> | <b>9,706</b> | <b>10,419</b> | <b>11,331</b> | <b>11,186</b>     |
| Plate, sheet, and foil                          | 1,637        | 3,019        | 4,247        | 6,516         | 6,374         | 4,664        | 6,346        | 6,846         | 7,285         | 7,198             |
| Extruded shapes and tubing                      | 937          | 1,719        | 1,823        | 2,636         | 2,384         | 1,643        | 2,141        | 2,396         | 2,618         | 2,480             |
| Rolled structural shapes, rod, bar <sup>2</sup> | 392          | 800          | 963          | 1,349         | 1,387         | 924          | 985          | 935           | 1,156         | 1,235             |
| Powder, flake and paste                         | 33           | 59           | 205          | 257           | 177           | 99           | 132          | 121           | 136           | 126               |
| Forgings and impacts                            | 50           | 95           | 120          | 142           | 138           | 97           | 100          | 121           | 136           | 147               |
| <b>Magnesium mill products</b>                  | <b>21</b>    | <b>32</b>    | <b>31</b>    | <b>32</b>     | <b>29</b>     | <b>22</b>    | <b>22</b>    | <b>24</b>     | <b>25</b>     | <b>(NA)</b>       |

NA Not available. <sup>1</sup> Preliminary. <sup>2</sup> Includes wire.Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M33-2 and MA33G.

## NO. 1481. MACHINERY (EXCEPT ELECTRICAL)—VALUE OF SHIPMENTS: 1960 TO 1977

[In millions of dollars. Based on sample; see Appendix III]

| PRODUCT   | 1960             | 1970  | 1972  | 1973  | 1974  | 1975  | 1976   | 1977   |
|---|------------------|-------|-------|-------|-------|-------|--------|--------|
| Automatic vending machines <sup>1</sup> .....   | 185              | 266   | 306   | 309   | 329   | 225   | 306    | 396    |
| Bail and roller bearings and components.....  | 836              | 1,295 | 1,419 | 1,696 | 1,961 | 2,046 | 2,195  | 2,445  |
| Blowers and fans <sup>1</sup> .....   | 269              | 647   | 682   | 905   | 1,034 | 1,247 | 1,400  | 1,422  |
| Commercial laundry, dry cleaning, and pressing machines <sup>1,2</sup> .....                  | 120              | 204   | 185   | 227   | 203   | 184   | 202    | 234    |
| Calculating and accounting machines <sup>1</sup> .....  | (NA)             | 525   | 694   | 990   | 1,207 | 837   | 790    | 836    |
| Electronic computing equipment <sup>1</sup> .....   | (NA)             | 5,671 | 6,108 | 7,085 | 8,668 | 8,443 | 10,134 | 12,673 |
| Carburetors, pistons, piston rings, valves.....   | (NA)             | 530   | 792   | 922   | 890   | 898   | 1,120  | 1,296  |
| Chemical manufacturing machinery and equipment <sup>1</sup> .....                             | 137              | 232   | 213   | 258   | 396   | 476   | 536    | 437    |
| Commercial cooking and food warming equipment <sup>1</sup> .....                              | 172              | 200   | 217   | 248   | 291   | 304   | 377    | 386    |
| Construction machinery <sup>3</sup> .....   | 940              | 2,049 | 3,161 | 3,795 | 4,520 | 5,070 | 5,540  | 6,597  |
| Conveyors and conveying equipment <sup>1</sup> .....  | 367              | 814   | 826   | 1,004 | 1,285 | 1,333 | 1,385  | 1,684  |
| Elevators and escalators <sup>1</sup> .....   | 205              | 326   | 412   | 447   | 462   | 388   | 396    | 435    |
| Farm machinery, except tractors <sup>1</sup> .....  | 1,449            | 3,065 | 3,828 | 3,724 | 4,793 | 5,316 | 5,907  | 6,912  |
| Lawn and garden equipment <sup>1</sup> .....  |                  |       | 1,143 | 1,249 | 1,713 | 1,558 | 1,676  | 1,747  |
| Farm tractors, wheel-type, incl. attachments.....   | <sup>1</sup> 511 | 915   | 1,215 | 1,414 | 1,753 | 2,374 | 2,514  | 2,637  |
| Filters and strainers.....  | (NA)             | (NA)  | 275   | 350   | 440   | 559   | 575    | 630    |
| Food products machinery <sup>1</sup> .....  | 452              | 823   | 867   | 1,112 | 1,313 | 1,411 | 1,394  | 1,576  |
| Holsts, cranes, and monorails.....  | 201              | 487   | 448   | 531   | 603   | 756   | 809    | 901    |
| Industrial furnaces and ovens <sup>1</sup> .....  | 215              | 377   | 341   | 450   | 515   | 532   | 585    | 704    |
| Industrial patterns.....  | 140              | 214   | 234   | 262   | 318   | 307   | 283    | 412    |
| Industrial trucks and tractors <sup>1</sup> .....   | 389              | 890   | 1,005 | 1,231 | 1,526 | 1,302 | 1,341  | 1,800  |
| Internal combustion engines <sup>1,4</sup> .....  | 1,215            | 2,762 | 3,353 | 4,106 | 5,095 | 5,191 | 6,138  | 7,548  |
| Measuring and dispensing pumps <sup>1</sup> .....   | 102              | 172   | 183   | 168   | 221   | 247   | 262    | 266    |
| Metal cutting machine tools <sup>1</sup> .....  | 747              | 1,544 | 1,259 | 1,719 | 2,136 | 2,406 | 2,146  | 2,561  |
| Metal forming machine tools <sup>1</sup> .....  | 379              | 735   | 670   | 877   | 1,053 | 1,026 | 1,051  | 1,115  |
| Office machines and typewriters <sup>1</sup> .....  | 456              | 978   | 1,047 | 1,172 | 1,441 | 1,334 | 1,563  | 2,020  |
| Oil and gas field machinery <sup>1</sup> .....  | 507              | 934   | 980   | 1,211 | 1,714 | 2,412 | 2,637  | 3,211  |
| Packing and packaging machinery <sup>1,5</sup> .....  | (NA)             | (NA)  | 232   | 286   | 340   | 383   | 391    | 491    |
| Paper industries machinery <sup>1</sup> .....   | 348              | 455   | 381   | 458   | 685   | 761   | 773    | 698    |
| Plastics-working machinery and equipment <sup>1</sup> .....                                   | 91               | 349   | 434   | 585   | 528   | 444   | 554    | 670    |
| Power-driven handtools <sup>1</sup> .....   | 254              | 523   | 725   | 801   | 849   | 772   | 878    | 1,497  |
| Printing trades machinery and equipment <sup>1</sup> .....                                    | 350              | 657   | 737   | 842   | 913   | 940   | 1,006  | 1,287  |
| Pumps and pumping equipment <sup>1,6</sup> .....  | 1,107            | 2,203 | 1,633 | 2,013 | 2,297 | 2,623 | 2,985  | 3,504  |
| Refrigeration machinery, and gas and oil warm-air furnaces <sup>1</sup> .....                 | 1,809            | 5,053 | 6,232 | 6,917 | 6,871 | 6,151 | 7,563  | 8,502  |
| Rolling mill machinery <sup>1</sup> .....   | 240              | 299   | 248   | 286   | 321   | 433   | 470    | 361    |
| Rubber working machinery <sup>1,7</sup> .....   | 90               | 171   | 137   | 209   | 216   | 163   | 173    | 158    |
| Scales and balances, except laboratory <sup>1</sup> .....                                     | 66               | 153   | 182   | 200   | 235   | 288   | 299    | 329    |
| Small cutting tools for metalworking machinery.....   | 401              | 700   | 738   | 928   | 1,129 | 1,185 | 1,177  | 1,375  |
| Special dies, tools, jigs, and fixtures.....  | 1,751            | 2,775 | 2,714 | 3,169 | 3,549 | 3,068 | 3,620  | 4,450  |
| Steam, gas, and hydraulic turbines, generators, and turbine generator sets <sup>1</sup> ..... | 623              | 1,640 | 2,080 | 2,285 | 2,482 | 2,585 | 2,803  | 2,613  |
| Textile machinery <sup>1</sup> .....  | 494              | 712   | 738   | 821   | 987   | 861   | 918    | 857    |
| Tractor shovel loaders.....   | 286              | 581   | 811   | 944   | 1,228 | 1,280 | 1,141  | 1,537  |
| Tractors, contractors, wheel-type <sup>8</sup> .....  | 65               | 205   | 252   | 328   | 373   | 381   | 300    | 454    |
| Tractors, tracklaying type.....   | 270              | 479   | 564   | 713   | 897   | 1,128 | 1,061  | 1,165  |
| Woodworking machinery <sup>1</sup> .....  | 176              | 341   | 340   | 523   | 684   | 637   | 756    | 547    |

NA Not available. <sup>1</sup> Includes parts. <sup>2</sup> Beginning 1972, excludes coin-operated washers and dryers with less than 10 lb. capacity. <sup>3</sup> Excludes tractors and tractor shovel loaders. <sup>4</sup> Excludes aircraft and gasoline automotive. <sup>5</sup> Represents machinery for food products. <sup>6</sup> Excludes measuring and dispensing pumps. <sup>7</sup> Excludes tire molds. <sup>8</sup> Off-highway.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1972 and 1977*, and *Annual Survey of Manufactures*.

## NO. 1482. AIR-CONDITIONING AND REFRIGERATION—SHIPMENTS: 1965 TO 1978

[See *Historical Statistics, Colonial Times to 1970*, series P 280, for room air-conditioners]

| PRODUCT   | NUMBER (1,000) |        |        |        |        | VALUE (mil. dol.) |      |      |       |       |
|---|----------------|--------|--------|--------|--------|-------------------|------|------|-------|-------|
|   | 1965           | 1970   | 1975   | 1977   | 1978   | 1965              | 1970 | 1975 | 1977  | 1978  |
| Centrifugal-refrigeration systems.....              | 3              | 4      | 5      | 3      | (d)    | 63                | 106  | 161  | 113   | (d)   |
| Compressors and compressor units <sup>1</sup> ..... | 8,526          | 14,653 | 15,034 | 23,990 | 25,305 | 333               | 628  | 840  | 1,494 | 1,663 |
| Condensing units <sup>1</sup> .....                 | 599            | 485    | 335    | 530    | 537    | 69                | 72   | 92   | 160   | 171   |
| Air-cooled.....                                     | 553            | 461    | 321    | 512    | 520    | 55                | 56   | 75   | 126   | 136   |
| Heat-transfer equipment.....                        | (NA)           | (NA)   | 657    | 811    | 794    | 217               | 360  | 254  | 331   | 394   |
| Ice-making machines.....                            | 87             | 103    | 128    | 165    | 179    | 43                | 58   | 88   | 144   | 161   |
| Room air-conditioners.....                          | 2,868          | 5,365  | 2,648  | 3,303  | 3,903  | 383               | 776  | 464  | 692   | 835   |
| Unitary air-conditioners.....                       | 837            | 1,459  | 1,561  | 2,829  | 3,224  | 425               | 755  | 923  | 1,645 | 1,959 |
| Heat pumps.....                                     | 72             | 88     | 160    | 537    | 614    | 35                | 43   | 88   | 303   | 371   |

D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup> Excludes units for ammonia refrigerants.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-35M.

## NO. 1483. ELECTRICAL MACHINERY AND PRODUCTS SHIPMENTS: 1960 TO 1977

[In millions of dollars. All figures based on sample and subject to sampling variability. "N.e.c." means not elsewhere classified]

| PRODUCT   | 1960             | 1965  | 1970  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977   |
|---|------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| Batteries.....  | 558              | 831   | 1,056 | 1,270 | 1,405 | 1,616 | 1,747 | 2,110 | 2,535  |
| Primary, dry and wet.....                                   | 153              | 221   | 290   | 317   | 346   | 394   | 456   | 806   | 624    |
| Storage.....  | 405              | 610   | 766   | 953   | 1,059 | 1,222 | 1,291 | 1,504 | 1,911  |
| Cathode ray picture tubes.....                              | 213              | 432   | 458   | 634   | 697   | 600   | 514   | 605   | 603    |
| Communications equipment.....                               | 2,028            | 3,098 | 5,444 | 5,529 | 6,416 | 7,510 | 7,941 | 8,572 | 11,031 |
| Telephone and telegraph.....                                | 1,431            | 1,953 | 3,575 | 3,974 | 4,427 | 4,883 | 4,734 | 5,132 | 7,119  |
| Broadcast, studio, and related.....                         | 597              | 1,145 | 1,869 | 1,555 | 1,989 | 472   | 469   | 560   | 568    |
| Other, including mobile radio.....                          |                  |       |       |       |       | 2,155 | 2,739 | 2,880 | 3,344  |
| Electric housewares and fans.....                           | 598              | 1,002 | 1,261 | 1,448 | 1,704 | 1,643 | 1,687 | 1,979 | 2,304  |
| Electric lamp bulbs.....                                    | 490              | 643   | 885   | 1,069 | 1,186 | 1,199 | 1,225 | 1,477 | 1,630  |
| Carbon and graphite products.....                           | 187              | 277   | 357   | 336   | 353   | 545   | 568   | 604   | 663    |
| Resistors for electronic application.....                   | 212              | 370   | 348   | 438   | 557   | 518   | 466   | 618   | 583    |
| Electronic coils, transformers, reactors, chokes.....       | 215              | 367   | 389   | 385   | 461   | 528   | 489   | 539   | 606    |
| Electronic connectors.....                                  |                  |       |       | 524   | 658   | 793   | 839   | 838   | 986    |
| Electronic components, n.e.c.....                           | (NA)             | 2,276 | 3,134 | 3,210 | 3,725 | 3,569 | 3,445 | 4,262 | 5,574  |
| Engine electrical equipment.....                            | 772              | 1,059 | 1,437 | 1,781 | 2,052 | 2,049 | 2,050 | 2,649 | 3,049  |
| Industrial controls.....                                    | 567              | 825   | 1,154 | 1,246 | 1,542 | 1,870 | 1,874 | 2,013 | 2,429  |
| Household cooking equipment.....                            | 469              | 824   | 811   | 1,027 | 1,201 | 1,211 | 1,101 | 1,514 | 1,919  |
| Household laundry equipment <sup>1</sup> .....              | 695              | 871   | 1,024 | 1,290 | 1,370 | 1,317 | 1,255 | 1,445 | 1,697  |
| Household refrigerators and freezers.....                   | 805              | 960   | 1,220 | 1,419 | 1,634 | 1,750 | 1,611 | 1,579 | 2,006  |
| Household vacuum cleaners.....                              | <sup>2</sup> 161 | 221   | 328   | 439   | 501   | 516   | 544   | 554   | 710    |
| Household appliances, n.e.c.....                            | 350              | 479   | 623   | 825   | 967   | 987   | 920   | 1,103 | 1,383  |
| Intercommunication, alarm, and traffic control systems..... | 184              | 197   | 253   | 336   | 445   | 528   | 563   | 606   | 852    |
| Lighting fixtures <sup>3</sup> .....                        | 849              | 1,313 | 1,796 | 2,276 | 2,513 | 2,506 | 2,366 | 2,738 | 3,230  |
| Residential.....  | 255              | 400   | 537   | 746   | 799   | 686   | 640   | 782   | 975    |
| Commercial and institutional.....                           | 227              | 337   | 466   | 527   | 572   | 662   | 577   | 638   | 654    |
| Motors and generators.....                                  | 1,508            | 1,936 | 2,478 | 2,636 | 3,137 | 3,628 | 3,677 | 4,129 | 4,976  |
| Phonograph records and prerecorded tapes <sup>4</sup> ..... | 149              | 198   | 402   | 537   | 561   | 569   | 549   | 742   | 1,139  |
| Radio and TV receiving sets <sup>5</sup> .....              | 1,641            | 2,984 | 2,966 | 3,589 | 4,158 | 3,892 | 3,545 | 4,143 | 4,731  |
| Radios and radio-phono-combinations <sup>6</sup> .....      | 415              | 898   | 818   | 754   | 908   | 736   | 676   | 824   | 812    |
| Household TV receivers.....                                 | 775              | 1,687 | 1,756 | 2,149 | 2,432 | 2,229 | 1,924 | 2,225 | 2,451  |
| Sewing machines, household and industrial.....              | 130              | 114   | 126   | 152   | 182   | 203   | 204   | 258   | 260    |
| Semiconductors and related devices.....                     | (S)              | 839   | 1,582 | 2,361 | 3,178 | 3,575 | 3,038 | 4,079 | 4,532  |
| Switchgear and switchboard apparatus.....                   | 899              | 1,269 | 1,849 | 2,059 | 2,350 | 2,520 | 2,509 | 2,869 | 3,298  |
| Transformers.....   | 725              | 891   | 1,378 | 1,436 | 1,675 | 2,001 | 1,769 | 1,821 | 2,116  |
| Welding apparatus.....                                      | 283              | 433   | 470   | 570   | 663   | 897   | 908   | 870   | 1,035  |
| Wiring devices, current carrying.....                       | 622              | 644   | 983   | 1,207 | 1,417 | 1,524 | 1,240 | 1,641 | 1,825  |
| Wiring devices, noncurrent-carrying.....                    | 360              | 536   | 700   | 833   | 1,019 | 1,252 | 1,074 | 1,171 | 1,316  |
| X-ray and electromedical equipment.....                     | 88               | 121   | 235   | 383   | 423   | 593   | 740   | 820   | 1,838  |

NA Not available. S Withheld because data did not meet publication standards. <sup>1</sup> Beginning 1972, includes color-operated washers and dryers with less than 10-lb. capacity. <sup>2</sup> Includes commercial and industrial vacuum cleaners.

<sup>3</sup> Includes items not shown separately. <sup>4</sup> Includes record blanks. <sup>5</sup> Household and auto radios.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1972 and 1977*, and *Annual Survey of Manufactures*.

## NO. 1484. ELECTRONIC COMPUTING EQUIPMENT INDUSTRY—SUMMARY: 1972 TO 1977

[In millions of dollars, except as indicated. Data for the noncensus years (all years except 1972 and 1977) are based on sample surveys and are therefore subject to sampling errors. See source for further detail]

| ITEM  | 1972  | 1973  | 1974  | 1975  | 1976   | 1977   |
|---|-------|-------|-------|-------|--------|--------|
| Employment, total (1,000).....  | 144.8 | 155.3 | 176.7 | 162.5 | 165.7  | 192.6  |
| Salaries and wages.....   | 1,668 | 1,873 | 2,222 | 2,292 | 2,451  | 3,004  |
| Production workers (1,000).....   | 64.7  | 74.9  | 86.8  | 79.8  | 71.3   | 65.5   |
| Work-hours (million).....   | 130.6 | 151.4 | 173.0 | 145.9 | 144.0  | 172.3  |
| Workers wages.....  | 547   | 660   | 795   | 731   | 707    | 978    |
| Value added.....  | 3,498 | 4,238 | 5,205 | 4,960 | 6,108  | 7,623  |
| Supplemental labor cost.....  | 205   | 237   | 312   | 343   | 399    | (NA)   |
| Cost of materials.....  | 2,981 | 3,481 | 4,164 | 3,705 | 4,380  | 5,701  |
| Value of shipments.....   | 6,471 | 7,423 | 9,122 | 8,560 | 10,388 | 12,922 |
| New expenditures.....   | 213   | 207   | 296   | 292   | 373    | 651    |
| Inventories.....  | 1,574 | 2,005 | 2,478 | 2,264 | 2,294  | 3,008  |
| Assets, total.....  | 1,896 | 1,857 | 2,085 | 2,232 | 2,353  | (NA)   |
| Ratio of:   |       |       |       |       |        |        |
| Cost of materials, supplemental labor cost, and salaries and wages to value of shipments..... | .750  | .753  | .753  | .741  | .696   | (NA)   |
| Cost of materials to value of shipments.....  | .461  | .469  | .457  | .433  | .422   | .441   |
| Value added to value of shipments.....  | .540  | .571  | .571  | .548  | .568   | .590   |
| Value added to work-hours.....  | 26.78 | 27.99 | 30.09 | 32.15 | 42.42  | 44.24  |

NA Not available.

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, Industry Profiles and Census of Manufactures, 1972 and 1977*.

## NO. 1485. ELECTRONIC COMPONENTS AND ACCESSORIES INDUSTRY—SUMMARY: 1972 TO 1977

[In millions of dollars, except as indicated. See headnote, table 1484]

| ITEM  | 1972  | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|-------|--------|--------|--------|--------|--------|
| Employment, total (1,000) .....               | 336.0 | 394.8  | 381.7  | 302.3  | 323.0  | 373.6  |
| Salaries and wages .....                      | 2,870 | 3,474  | 3,686  | 3,358  | 3,763  | 4,557  |
| Production workers (1,000) .....              | 233.9 | 283.2  | 266.3  | 197.6  | 218.8  | 257.9  |
| Workers wages .....                           | 1,560 | 1,971  | 1,974  | 1,705  | 1,964  | 2,458  |
| Value added .....                             | 5,306 | 6,596  | 6,963  | 5,984  | 7,568  | 9,256  |
| Supplemental labor cost .....                 | 388   | 481    | 571    | 538    | 669    | 811    |
| Cost of materials .....                       | 3,468 | 4,437  | 4,635  | 3,984  | 5,008  | 6,391  |
| Value of shipments .....                      | 8,826 | 10,783 | 11,301 | 10,089 | 12,433 | 15,387 |
| New expenditures .....                        | 344   | 629    | 785    | 536    | 651    | 782    |
| Inventories .....                             | 1,495 | 1,965  | 2,286  | 2,050  | 2,320  | 2,774  |
| Assets, total .....                           | 3,701 | 4,083  | 4,469  | 4,868  | 5,228  | 6,026  |
| Rents, total .....                            | 66    | 81     | 97     | 108    | 112    | 108    |
| Ratio of:                                     |       |        |        |        |        |        |
| Cost of materials to value of shipments ..... | .393  | .411   | .410   | .395   | .403   | .415   |
| Value added to value of shipments .....       | .601  | .612   | .616   | .593   | .609   | .602   |

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, Industry Profiles, and Census of Manufactures, 1972 and 1977*.

## NO. 1486. ELECTRONIC COMPONENTS—FACTORY SALES: 1970 TO 1978

[In millions of dollars]

| SALES  | 1970         | 1971         | 1972         | 1973         | 1974         | 1975         | 1976         | 1977         | 1978             |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|
| <b>Total</b> .....                             | <b>5,059</b> | <b>4,768</b> | <b>5,495</b> | <b>7,804</b> | <b>8,342</b> | <b>8,728</b> | <b>8,772</b> | <b>9,985</b> | <b>11,392</b>    |
| Discrete components .....                      | 4,535        | 4,234        | 4,777        | 6,080        | 6,220        | 5,016        | 6,128        | 6,976        | 7,932            |
| Active components .....                        | 1,845        | 1,716        | 2,006        | 2,739        | 2,720        | 2,361        | 2,901        | 3,129        | 3,379            |
| Electron tubes .....                           | 1,076        | 1,094        | 1,258        | 1,338        | 1,196        | 1,071        | 1,233        | 1,296        | 1,454            |
| Semiconductors .....                           | 769          | 822          | 748          | 1,401        | 1,524        | 1,290        | 1,668        | 1,833        | 1,925            |
| Transistors <sup>1</sup> .....                 | 352          | 303          | 358          | 557          | 543          | 405          | 421          | 452          | 475              |
| Diodes and rectifiers .....                    | 378          | 278          | 314          | 844          | 509          | 353          | 381          | 404          | 424              |
| Other <sup>2</sup> .....                       | 39           | 41           | 76           | -            | 472          | 532          | 866          | 977          | 1,026            |
| Passive components .....                       | 1,120        | 1,068        | 1,141        | 1,484        | 1,595        | 1,273        | 1,484        | 1,752        | 1,998            |
| Other .....                                    | 1,570        | 1,450        | 1,630        | 1,857        | 1,905        | 1,382        | 1,743        | 2,095        | 2,555            |
| Integrated circuit packages <sup>3</sup> ..... | 524          | 534          | 718          | 1,724        | 2,122        | 1,712        | 2,644        | 3,009        | 3,460            |
| R & D expenditures <sup>4</sup> .....          | 571          | 483          | 455          | 485          | 586          | 501          | 427          | 598          | <sup>5</sup> 661 |

- Represents zero. <sup>1</sup> Includes dual transistors for 1970 through 1973. <sup>2</sup> Includes light sensitive diodes, other light sensitive components, thermoelectrical devices; hall devices, and other semiconductor devices. Excludes semiconductor integrated circuits. <sup>3</sup> Integrated circuit packages include sales of monolithic integrated circuits and hybrid integrated circuits. <sup>4</sup> Electronic research and development, test and evaluation (receipts or billings not reported as shipments of specific products). Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA36N, annual. <sup>5</sup> Preliminary.

Source: Except as noted, Electronic Industries Association, *Electronic Market Data Book*, 1979 edition (copyright).

## NO. 1487. TRANSPORTATION EQUIPMENT—VALUE OF SHIPMENTS: 1960 TO 1977

[In millions of dollars. "N.e.c." means not elsewhere classified]

| TYPE OF EQUIPMENT                                    | 1960               | 1965                | 1970   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|--|--------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|
| Motor vehicles and car bodies <sup>1</sup> .....     | 16,739             | 26,310              | 26,811 | 41,046 | 48,009 | 41,950 | 43,394 | 59,753 | 72,979 |
| Passenger cars and chassis .....                     | 14,009             | 21,852              | 19,391 | 29,246 | 33,358 | 27,154 | 28,883 | 39,746 | 47,799 |
| Truck tractors, chassis, trucks .....                | 2,573              | 4,289               | 5,734  | 9,566  | 12,167 | 12,846 | 11,872 | 16,597 | 21,544 |
| Motor vehicle parts and accessories .....            | 12,273             | <sup>2</sup> 18,875 | 13,189 | 19,417 | 22,856 | 22,670 | 23,023 | 30,385 | 37,842 |
| Truck trailers .....                                 | (NA)               | 671                 | 765    | 1,079  | 1,298  | 1,595  | 878    | 1,250  | 1,607  |
| Aircraft <sup>1,3</sup> .....                        | <sup>4</sup> 4,653 | 5,277               | 8,722  | 7,538  | 9,466  | 10,364 | 10,861 | 11,723 | 12,053 |
| Complete aircraft, military .....                    | <sup>4</sup> 2,395 | 2,657               | 3,833  | 2,803  | 2,884  | 3,166  | 4,017  | 4,671  | 4,580  |
| Complete aircraft, personal <sup>5</sup> .....       |                    | 337                 |        | 474    | 870    |        | 1,003  | 1,204  | 2,034  |
| Commercial transport (complete) .....                | 1,270              | 1,275               | 3,176  | 2,787  | 873    | 4,207  | 3,653  | 3,355  | 2,672  |
| Aircraft engines and parts .....                     | 2,779              | 3,671               | 4,594  | 3,070  | 3,687  | 4,026  | 4,488  | 4,928  | 4,995  |
| Aircraft equipment, n.e.c. ....                      | 3,966              | 3,883               | 5,273  | 3,437  | 4,074  | 4,458  | 4,842  | 5,102  | 5,762  |
| Shipbuilding and repairing <sup>1,4</sup> .....      | 1,216              | 1,918               | 2,594  | 3,201  | 3,888  | 4,712  | 5,513  | 5,893  | 6,270  |
| Self-propelled ships, military <sup>6</sup> .....    | 406                | 742                 | 1,066  | 1,100  | 1,333  | 1,714  | 1,768  | 1,957  | 2,212  |
| Self-propelled ships, nonmilitary <sup>6</sup> ..... | 351                | 282                 | 514    | 816    | 1,202  | 1,290  | 1,806  | 1,825  | 1,917  |
| Boat building and repairing .....                    | 331                | 423                 | 644    | 1,031  | 1,159  | 1,121  | 1,290  | 1,571  | 1,822  |
| Railroad equipment .....                             | 1,087              | 2,027               | (b)    | 2,284  | 2,512  | 3,308  | 3,885  | 3,336  | 4,002  |
| Motorcycles, bicycles, and parts .....               | 123                | 226                 | 395    | 541    | 721    | 680    | 705    | 688    | 847    |
| Travel trailers and campers .....                    | (NA)               | (NA)                | (NA)   | 1,277  | 1,134  | 781    | 1,083  | 1,356  | 1,478  |

D Withheld to avoid disclosure. NA Not available. <sup>1</sup> Includes data for products not shown separately. <sup>2</sup> Includes combat vehicles. <sup>3</sup> See table 1165 for number of civil aircraft shipments. <sup>4</sup> Value of work done. <sup>5</sup> Includes utility. <sup>6</sup> New construction.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1972 and 1977*, and *Annual Survey of Manufactures*.

## NO. 1488. HOME APPLIANCES—SHIPMENTS AND RETAIL VALUE: 1970 TO 1979

[Compiled from reports of associations and manufacturers. Except as indicated, covers electric appliances only]

| PRODUCT                                   | MANUFACTURERS SHIPMENTS (1,000 units) |               |               |               |               | RETAIL VALUE (mil. dol.) |              |               |               |               |
|---|---------------------------------------|---------------|---------------|---------------|---------------|--------------------------|--------------|---------------|---------------|---------------|
|   | 1970                                  | 1975          | 1977          | 1978          | 1979          | 1970                     | 1975         | 1977          | 1978          | 1979          |
| <b>Major appliances</b> .....             | <b>29,052</b>                         | <b>27,851</b> | <b>33,958</b> | <b>36,447</b> | <b>36,465</b> | <b>6,146</b>             | <b>7,258</b> | <b>10,807</b> | <b>12,515</b> | <b>13,058</b> |
| Air treatment <sup>1</sup> .....          | 6,485                                 | 3,292         | 3,804         | 4,709         | 4,680         | 1,254                    | 755          | 1,038         | 1,459         | 1,512         |
| Air conditioners.....                     | 5,887                                 | 2,670         | 3,270         | 4,037         | 3,749         | 1,207                    | 641          | 912           | 1,312         | 1,327         |
| Dehumidifiers.....                        | 598                                   | 392           | 314           | 441           | 684           | 47                       | 37           | 47            | 62            | 98            |
| Kitchen appliances.....                   | 15,492                                | 16,864        | 21,090        | 22,268        | 22,489        | 3,410                    | 4,337        | 6,885         | 8,197         | 8,638         |
| Dishwashers.....                          | 2,116                                 | 2,702         | 3,356         | 3,557         | 3,488         | 466                      | 697          | 994           | 1,082         | 1,138         |
| Disposers, food waste.....                | 1,977                                 | 2,080         | 2,941         | 3,313         | 3,316         | 129                      | 187          | 324           | 285           | 295           |
| Freezers (10 cu. ft. and over).....       | 1,359                                 | 2,457         | 1,598         | 1,522         | 1,859         | 302                      | 600          | 490           | 499           | 699           |
| Microwave ovens.....                      | 30                                    | 840           | 2,175         | 2,422         | 2,815         | 15                       | 337          | 982           | 1,142         | 1,311         |
| Ranges, electric.....                     | 2,362                                 | 2,082         | 3,009         | 3,218         | 3,003         | 540                      | 513          | 919           | 1,132         | 1,152         |
| Ranges, gas.....                          | 2,362                                 | 1,618         | 1,753         | 1,797         | 1,794         | 510                      | 383          | 537           | 619           | 643           |
| Ranges, smooth top.....                   | (X)                                   | 275           | 274           | 249           | 220           | (X)                      | 144          | 147           | 138           | 139           |
| Refrigerators (6.5 cu. ft. and over)..... | 5,286                                 | 4,577         | 5,707         | 5,890         | 5,701         | 1,448                    | 1,423        | 2,425         | 3,228         | 3,187         |
| Trash compactors.....                     | (X)                                   | 233           | 277           | 300           | 293           | (X)                      | 52           | 66            | 72            | 74            |
| <b>Home laundry</b> .....                 | <b>7,075</b>                          | <b>6,658</b>  | <b>7,987</b>  | <b>8,120</b>  | <b>7,999</b>  | <b>1,482</b>             | <b>1,965</b> | <b>2,661</b>  | <b>2,575</b>  | <b>2,612</b>  |
| Dryers.....                               | 2,981                                 | 2,680         | 3,339         | 3,392         | 3,333         | 525                      | 672          | 930           | 864           | 906           |
| Washers.....                              | 4,094                                 | 3,978         | 4,648         | 4,728         | 4,666         | 957                      | 1,293        | 1,731         | 1,711         | 1,706         |
| Compact appliances.....                   | (X)                                   | 1,037         | 1,077         | 1,350         | 1,297         | (X)                      | 201          | 223           | 284           | 296           |
| Kitchen electrics <sup>1</sup> .....      | 50,640                                | 57,486        | 68,767        | 73,217        | 76,478        | 949                      | 1,295        | 1,640         | 1,841         | 2,011         |
| Blenders.....                             | 5,100                                 | 4,000         | 5,250         | 5,680         | 5,025         | 128                      | 92           | 121           | 113           | 106           |
| Broilers.....                             | 2,605                                 | 2,006         | 2,150         | 2,280         | 2,423         | 71                       | 66           | 76            | 99            | 119           |
| Coffeemakers.....                         | 8,100                                 | 10,656        | 9,970         | 10,500        | 12,104        | 130                      | 242          | 240           | 285           | 298           |
| Corn poppers.....                         | 2,300                                 | 2,430         | 3,071         | 3,600         | 5,280         | 23                       | 29           | 43            | 65            | 130           |
| Food processors.....                      | (X)                                   | (X)           | 700           | 2,000         | 2,653         | (X)                      | (X)          | 60            | 120           | 162           |
| Frypan-skillets.....                      | 3,200                                 | 2,611         | 2,500         | 2,600         | 2,709         | 93                       | 89           | 88            | 94            | 103           |
| Griddles/quick grills.....                | 500                                   | 640           | 625           | 646           | 661           | 13                       | 18           | 17            | 18            | 21            |
| Irons.....                                | 9,275                                 | 7,883         | 8,736         | 10,451        | 10,340        | 159                      | 187          | 236           | 298           | 287           |
| Mixers.....                               | 4,675                                 | 4,477         | 5,095         | 5,175         | 5,568         | 90                       | 106          | 123           | 132           | 156           |
| Slow cookers.....                         | (X)                                   | 6,500         | 7,850         | 6,700         | 5,641         | (X)                      | 156          | 191           | 141           | 107           |
| Toasters.....                             | 5,975                                 | 6,204         | 7,400         | 8,100         | 8,916         | 108                      | 144          | 190           | 220           | 252           |
| Waffle irons/sandwich grills.....         | 1,025                                 | 1,028         | 1,058         | 1,034         | 1,119         | 19                       | 20           | 19            | 18            | 25            |
| Fans.....                                 | 9,875                                 | 9,236         | 10,515        | 11,648        | 12,449        | 283                      | 298          | 285           | 346           | 485           |
| Portable electric heaters.....            | 2,835                                 | 2,990         | 4,120         | 4,467         | 4,437         | 70                       | 70           | 114           | 123           | 138           |
| Floor care <sup>1</sup> .....             | 8,538                                 | 9,120         | 10,395        | 10,685        | 10,734        | 548                      | 689          | 1,035         | 1,136         | 1,208         |
| Floor polishers.....                      | 1,156                                 | 530           | 530           | 520           | 512           | 46                       | 19           | 21            | 23            | 27            |
| Vacuum cleaners.....                      | 7,382                                 | 7,650         | 8,705         | 8,965         | 8,922         | 502                      | 657          | 997           | 1,091         | 1,155         |
| Personal care <sup>1</sup> .....          | 25,100                                | 36,495        | 45,080        | 49,542        | 50,291        | 477                      | 707          | 929           | 933           | 916           |
| Bed covering.....                         | 4,050                                 | 4,032         | 4,490         | 4,900         | 5,125         | 81                       | 89           | 112           | 127           | 144           |
| Hair dryers.....                          | 6,100                                 | 10,496        | 16,495        | 18,970        | 18,488        | 146                      | 242          | 389           | 354           | 313           |
| Hair setters.....                         | 5,500                                 | 2,033         | 1,800         | 1,989         | 2,382         | 121                      | 37           | 36            | 41            | 52            |
| Heating pads.....                         | 3,900                                 | 3,500         | 3,800         | 3,940         | 4,100         | 23                       | 32           | 30            | 35            | 37            |
| Oral hygiene devices.....                 | 2,850                                 | 1,602         | 1,365         | 1,540         | 1,650         | 46                       | 23           | 19            | 25            | 28            |
| Power mowers.....                         | (NA)                                  | 5,670         | 6,085         | 6,315         | 6,814         | (NA)                     | (NA)         | 1,063         | 1,261         | 2,260         |
| <b>Home and auto electronics:</b>         |                                       |               |               |               |               |                          |              |               |               |               |
| Televisions.....                          | 9,368                                 | 11,453        | 14,771        | 16,300        | 16,074        | 3,090                    | 3,800        | 5,089         | 5,694         | 5,300         |
| Black and white.....                      | 4,546                                 | 4,968         | 5,664         | 6,064         | 6,281         | 611                      | 529          | 651           | 701           | 682           |
| Color.....                                | 4,822                                 | 6,485         | 9,107         | 10,236        | 9,793         | 2,479                    | 3,271        | 4,438         | 4,993         | 4,618         |
| Videocassette recorders.....              | (X)                                   | (X)           | 225           | 402           | 478           | (X)                      | (X)          | 248           | 356           | 431           |
| Components, hifi.....                     | (NA)                                  | 10,105        | 12,045        | 13,190        | 14,425        | (NA)                     | 1,017        | 1,324         | 1,497         | 1,666         |
| Compact hifi systems.....                 | (NA)                                  | 3,491         | 4,508         | 4,474         | 4,341         | (NA)                     | 681          | 915           | 963           | 939           |
| Portable tape player/recorder.....        | (NA)                                  | 10,240        | 12,239        | 13,198        | 13,407        | (NA)                     | 487          | 585           | 681           | 674           |
| Tape decks.....                           | (NA)                                  | 486           | 591           | 650           | 675           | (NA)                     | 133          | 162           | 182           | 184           |
| Radios.....                               | 34,049                                | 25,276        | 41,800        | 32,478        | 28,550        | 682                      | 615          | 1,168         | 1,056         | 919           |
| Autosound.....                            | (NA)                                  | 6,484         | 8,644         | 8,655         | 9,130         | (NA)                     | 540          | 824           | 888           | 1,081         |
| CB radios.....                            | (NA)                                  | 4,500         | 7,182         | 4,736         | 1,590         | (NA)                     | 816          | 572           | 393           | 130           |
| Blank tape.....                           | (NA)                                  | 203,844       | 249,080       | 268,500       | 244,753       | (NA)                     | 349          | 478           | 605           | 687           |
| Audio.....                                | (NA)                                  | (NA)          | 246,080       | 263,000       | 234,786       | (NA)                     | (NA)         | 436           | 710           | 511           |
| Video.....                                | (NA)                                  | (NA)          | 3,000         | 5,500         | 9,967         | (NA)                     | (NA)         | 42            | 95            | 176           |
| Calculators.....                          | (NA)                                  | 16,350        | 22,089        | 23,341        | 24,978        | (NA)                     | 1,153        | 877           | 915           | 776           |
| Hand-held.....                            | (NA)                                  | 16,050        | 18,808        | 20,111        | 21,317        | (NA)                     | 613          | 426           | 495           | 425           |
| Desk top.....                             | (NA)                                  | 2,300         | 3,281         | 3,230         | 3,661         | (NA)                     | 540          | 451           | 420           | 351           |
| Digital watches.....                      | (NA)                                  | 4,200         | 15,600        | 17,750        | 19,717        | (NA)                     | 319          | 686           | 643           | 649           |

NA Not available. X Not applicable. <sup>1</sup> Includes products not shown separately.Source: Gralla Publications, Inc., New York, N.Y., *Merchandising*, 58th Annual Statistical and Marketing Report.