## SURVEY OF CURRENT BUSINESS

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## CONTENTS

$$
\begin{array}{rr}
\text { THE BUSINESS SITUATION } & \\
\text { State-Local Fiscal Position } & 2 \\
\text { Housing } & 3 \\
\text { Mortgage Credit } & 4 \\
\text { Nonfinancial Corporate Profits } & 6 \\
\text { Alternative Calculations of Constant Dollar GNP } & 9 \\
\text { National Income and Product Tables } & 14 \\
\text { ARTICLES } & \\
\text { Regional and State Personal Income: } & \\
\text { Second Quarter Developments } & 18 \\
\text { The Shift to Services and the Rate of } & \\
\text { Productivity Change } & 20 \\
\text { Employment and Payroll Costs of } & \\
\text { U.S. Multinational Companies } & 36
\end{array}
$$

## CURRENT BUSINESS STATISTICS

| General | S1-S24 |
| ---: | ---: |
| Industry | $\mathbf{S 2 4 - S 4 0}$ |

Subject Index (Inside Back Cover)


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## the BUSINESS SITUATION

CHART 1

## GNP up $\$ 32$ billion in third quarter



FINAL SALES rose $\$ 273 / 4$ billion


REAL OUTPUT grew 312 percent

-5 -

GNP DEFLATOR increased $63 / 4$ percent $10^{-}$


Change from Previous Quarter Seasonally Adjusted at Annual Rates

THE rate of inventory accumulation is estimated to have speeded up in the third quarter, but the rise in other demands was less rapid than in the second quarter. Total production of goods and services measured in current pricesthe gross national product-rose $\$ 32$ billion at a seasonally adjusted annual rate, somewhat more than the $\$ 29 / 2$ billion increase in the second quarter (chart 1). The acceleration of inventory accumulation accounted for more than $\$ 4$ billion of the third quarter GNP rise, with final sales-GNP excluding inventory accumulation-increasing a bit less than $\$ 28$ billion. In the second quarter, final sales rose $\$ 293 / 4$ billion and accounted for the entire rise in GNP.
In real terms, GNP is estimated to have increased at an annual rate of 3.6 percent in the third quarter. This is a speedup from the rate of only 2.4 percent in the second, but is much slower than the pace from late 1971 through early 1973. The implicit price deflator increased in the third quarter at an annual rate of 6.7 percent, down from 7.3 percent in the second.

The estimate of a substantial rise in inventory accumulation in the third quarter is based on incomplete data and is subject to possible sizable revision next month. Third quarter accumulation is estimated to have been at an annual rate of $\$ 8.7$ billion, up from $\$ 4.5$ billion in the second quarter but no higher than the rate a year ago. About $\$ 1 / 2$ billion of the speedup in the third quarter was in farm inventory accumulation, which largely reflected a transfer of stocks out of the Commodity Credit Corporation's holdings to private holdings. Such transfers do not affect GNP; the recorded increase in farm stocks is offset by the recording of a
"negative purchase" by the Federal Government. Nonfarm inventory accumulation also accelerated substantially despite some slowdown in accumulation of auto inventories. Earlier this year, inventory investment in at least some businesses was apparently held down because demand growth was so strong that businessmen were having difficulty replenishing stock; some part of the acceleration of investment in the third quarter may reflect a slowing of demand growth and an easing of supply conditions.

Consumer spending on goods increased $\$ 93 / 4$ billion in the third quarter, about $\$ 1$ billion more than the increase in the second quarter but well below the enormous expansion of $\$ 203 / 4$ billion in the first. All of the third quarter increase was in outlays for nondurables, as spending for durables declined about $\$ 3$ billion. Purchases of furniture and household equipment were about unchanged following increases of $\$ 3 / 4$ billion in the second quarter and $\$ 33 / 4$ billion in the first. New car sales were at an annual rate of $113 / 4$ million units in the third quarter, off $1 / 2$ million units from the second quarter and $3 / 4$ million units from the first. Sales of domestictype models slipped moderately, but sales of imports were off appreciably and, at 1.7 million units, were at their lowest rate since the second quarter of 1972. Spending for services rose nearly $\$ 8$ billion, a bit stronger than the trend over the past year or so. Consumer spending rose in line with income growth in the third quarter, and the saving rate held steady at 6 percent.

Among the other components of final demand, residential investment was little changed for the second consecutive quarter. Business fixed in-
vestment rose $\$ 41 / 2$ billion, somewhat faster than the $\$ 31 / 4$ billion increase in the second quarter but less than the big increases in the two preceding quarters. Government purchases rose $\$ 41 / 2$ billion, about $\$ 2$ billion less than the increase in the second quarter; the slowdown is mainly attributable to Federal purchases, which were about unchanged in the third quarter following an increase of $\$ 13 / 4$ billion in the second. The data on net exports are very preliminary, but available figures indicate an increase of $\$ 1 / 4$ billion as compared with advances of $\$ 2 \frac{3 / 4}{6}$ billion in the second quarter and $\$ 31 / 2$ billion in the first.

Growth of real private product was at an annual rate of 3.8 percent in the third quarter, essentially the same as the 3.6 percent growth rate of total real GNP (table 1). Gross auto product and gross farm product together account for less than 10 percent of real private product, but they are volatile and often have an important effect on the behavior of the total. This has been the case recently. Auto and farm products both declined sharply in the second and third quarters, and this contributed substantially to the slowdown of overall real output growth relative to the pace last year and in the first quarter. Both of these components increased sharply in the first quarter, and this boosted the growth rate of overall real output.

Private product excluding these two components-i.e., nonauto, nonfarm private product-shows a growth slowdown this year that is much milder than the slowdown in the growth of total real private product or of total real GNP. The growth of the nonauto, nonfarm aggregate averaged 5.6 percent (annual rate) in the second and third
quarters, compared to an average of 7.7 percent in the preceding six quarters of rapid growth shown in table 1. By contrast, the growth of total private product averaged only 3.1 percent in the second and third quarters, down from an average of 7.8 percent in the preceding six quarters.

## State-Local Fiscal Position

State and local governments continue to enjoy a relatively strong fiscal position, but there are indications that it may worsen next year. General revenue sharing payments, which began in December 1972, have undoubtedly contributed to the current surpluses of these governments; however, the ultimate impact of revenue sharing on patterns of State-local spending and taxation is uncertain.

As measured in the national income accounts (NIA), the State and local sector had surpluses of $\$ 13.9$ billion (annual rate) and $\$ 11.5$ billion in the first and second quarters of 1973, respectively. Preliminary data indicate a surplus of about $\$ 10$ billion in the third quarter (table 2). (These figures represent an overall position; there are undoubtedly many governments, particularly major cities, operating under severe fiscal constraints.)

Although the large surplus position that began to be evident during 1972 has persisted this year, there is no sign of the steady growth of the surplus that was predicted in some studies last year. This is particularly clear for the fiscal position excluding social insurance funds; the "operational" surplus was relatively small in the first and second quarters of 1972 and there was a deficit in the third. For the full

Table 1.-Quarterly Changes in Real GNP
[Percent, seasonally adjusted at annual rate]


year 1973, there will be a surplus in these "operational" funds, but it certainly will be smaller than in 1972.

Receipts continue to increase substantially this year, as the economy expands and revenue sharing grows. However, the State-local surplus is being held down by rapid growth of capital outlays, especially for structures, an evident slight decline in Federal grants other than revenue sharing, and the relative absence of tax increases which were prevalent in 1972 and earlier years. Where tax rates were raised this year, the increases have often been related to programs of local property tax relief so that the net effect is simply to shift revenues from one form of taxation to others. Moreover, some states have lowered income tax rates, and others have narrowed the base for the general sales tax.

If the spending and receipt trends evident in 1973 continue in 1974when a slowdown in revenue growth is likely, as a result of slackening economic activity-the State-local NIA surplus is likely to shrink considerably.

## Impact of revenue sharing

As shown in table 2, the inception of general revenue sharing has contributed to the strong current fiscal position, although revenues generated by a booming economy have also played a major role. Revenue sharing payments began in December 1972, and, by the end of 1973 , about $\$ 93 / 4$ billion will have been paid to more than 38,000 separate governmental units. Under present law, the program will continue until 1977. There will always be great difficulty in pinpointing the specific effects of revenue sharing funds on State and local revenues and expenditures, but some tentative conclusions can be drawn.

One immediate effect, according to data for the year ended in mid-1973, was a significant accumulation of financial assets by State and local governments. The funds are gradually being expended, however, especially for construction. It appears that revenue sharing has replaced a significant amount-perhaps more than $\$ 2$ bil-lion-of long-term borrowing that

Table 2.-Fiscal Position of State and Local Governments, NIA Basis
[Billions of dollars; quarterly data seasonally adjusted at annual rates]

|  | $\begin{aligned} & 1946-53 \\ & \text { (avg. } \end{aligned}$ | $\begin{aligned} & \text { 1954-61 } \\ & \text { (avg.) } \end{aligned}$ | $\begin{aligned} & 1962-66 \\ & (\text { avg. } \end{aligned}$ | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1972 |  |  |  | 1973 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  | I | II | III | IV | I | II | III |
| Surplus or deficit ( - , NIA basis. | 0.1 | -1.0 | 1.2 | -1.6 | -0.3 | 0.7 | 1.8 | 4.0 | 13.1 | 8.4 | 15.2 | 9.5 | 19.6 | 13.9 | 11.5 | Е9.8 |
| Surplus, social insurance funds. | . 6 | 1.7 | 3.1 | 4.4 | 5.0 | 5.7 | 6.5 | 7.5 | 9.0 | 8.4 | 8.8 | 9.2 | 9.6 | E10.0 | E10. 1 | ${ }^{\text {E }} 10.3$ |
| Surplus or deficit, all other funds. | -. 5 | -2.7 | -1.9 | -5.9 | $-5.3$ | -5.0 | -4.8 | -3.4 | 4.1 | . 0 | 6.3 | . 2 | 9.9 | 3.9 | 1.4 | $E-0.5$ |
| Revenue sharing grants |  |  |  |  |  |  |  |  | 2.6 |  |  |  | 10.5 | 10.6 | 6.0 | 6.0 |

E Estimate.
would otherwise have been scheduled during 1973.

A second effect was to raise capital outlays, although the amount of revenue sharing used for capital expenditures is likely to be much smaller for subsequent disbursements than it was for the December 1972 and January 1973 disbursements. This is largely because most recipient governments had by late 1972 already completed their fiscal 1973 budgets without making allowance for the new funds. Thus, many governments treated the first two disbursements as "unexpected" revenue, available for capital projects or other non-recurring needs. In addition, there was some uncertainty on the part of recipients as to the permanence of the program, resulting in an initial reluctance to use the disbursements for on-going programs.

The revenue sharing disbursements in April and July were more generally a part of the normal process of budget planning by recipient governments. As a result, a larger proportion is likely to have been allocated to current ex-penditures-perhaps well over 50 percent. Nevertheless, it still appears that capital outlays get a larger proportion of revenue sharing funds than they do of the revenues generated by recipient governments from their own sources. This could change, of course, if it becomes clear that revenue sharing is a permanent source of funds.

Tax relief is another potential result of revenue sharing. Tax relief is defined as an actual lowering of taxes, or the cancellation, postponement, or reduction of previously planned increases. There is some evidence on the extent to which this has occurred.

First, "planned use reports" on the April and July disbursements, submitted by recipient governments to the Treasury Department's Office of Revenue Sharing, indicate that about half of the governments (accounting for half of the funds) anticipate some tax relief as a result of revenue sharing. However, the proportion allocated to tax relief cannot be determined from the reports.

Second, a Brookings Institution study, involving a detailed examination of a few governments, concluded that tax relief will eventually amount to between 40 percent and 45 percent of total revenue sharing, with the remainder generating new spending or displacing borrowings.

Finally, BEA's own informal contacts with major State governments and some large cities and counties, which focus only on the use of funds in calendar 1973, indicate that tax relief would account for roughly 20 percent of the funds disbursed in 1972 and 1973. It is thought, however, that tax relief will become more important in subsequent years as the emphasis in the use of revenue sharing shifts away from capital outlays.

## Housing

As a result of the severe tightness that has developed in mortgage markets, as well as some softening of underlying demand for new housing, inventories of housing units, both completed and under construction, have increased rapidly and permit authorizations and housing starts have declined. The number of new units authorized by permits in the third quarter was down about 20 percent from the first, and private housing starts in the third
quarter totaled 2.0 million units (seasonally adjusted annual rate), down 17 percent from the rate of 2.4 million in the first quarter. The decline in starts has varied by region; from the first to the third quarter, starts declined about 22 percent in both the Northeast and South, 14 percent in the North Central region, and were about unchanged in the West. In the West, the starts boom had peaked in the first quarter of 1972, and starts in this year's third quarter were off 28 percent from that peak.

As 1973 began, a cutback in housing starts was generally expected as an adjustment following the housing boom of the past 2 years; a common forecast was for a drop of about 10 percent to a total for the year 1973 of about 2.1 million units. For that forecast to be realized, the starts rate in the fourth quarter would have to drop to about 1.85 million units, only 8 percent below the third quarter rate. Such a decline seems highly probable given the continuing decline in permit authorizations and the sharply reduced availability of mortgage financing. It would make the drop in starts from the first to the fourth quarter of this year amount to about 23 percent, about equal to the decline from the first quarter of 1969 to the first quarter of 1970 but less than the 40 percent decline from the fourth quarter of 1965 to the fourth quarter of 1966.

## Single-family homes

Starts of single-family homes were 1.1 million units (seasonally adjusted annual rate) in the third quarter, down 8 percent from the first. The sales rate of new homes dropped 22 percent from the first quarter to the third, continuing
the decline which started late last year, and the inventory of unsold homes continued to increase; in the first 2 months of the third quarter, the inventory represented an average $9 \frac{1}{2}$ months of sales, well above the previous peaks of $6 \frac{1}{2}$ months reached during the periods of credit stringency in 1966 and 1969. As a result of the current credit stringency, the decline in the sales rate intensified in the summer. In the first half of the year, the decline reflected an adjustment following the boom of the past 2 years and, probably, the accelerating increase in the price of new homes. The median price of new houses sold in August of this year was $\$ 33,200$, up 18 percent from August 1972. (Changes in the median price reflect changes in size and other quality considerations as well as increased construction costs.)
Sales of mobile homes, which are an important source of low-cost housing, held fairly steady the first half of the year, at a seasonally adjusted annual rate of 660,000 units. Sales declined sharply in the summer to an average annual rate of 560,000 units in July and August, about 17 percent below the rate in the first quarter.

## Multifamily housing

Starts of units in multiunit structures dropped to an annual rate of 891,000 in the third quarter, 15 percent below the first quarter. Indicators of market conditions for multifamily housing have been somewhat difficult to interpret in recent quarters. In spite of the very high starts rate of the past $21 / 2$ years and the rising number of units being completed, the market absorption of new rental apartmentsthe percent of new units rented within 3 months of completion-has shown little change. Also, the rental vacancy rate has edged up only slowly over the past several quarters. Part of the explanation of why rental absorption has not weakened, nor rental vacancies increased more rapidly, certainly lies in the rising importance of condominiums and cooperatives among the new apartment buildings; these are ownership units, and never enter the rental market. Multiu:it construction

Table 3.-Average Time from Start to Completion, by Structure Size

1Months?

| Number of Units in Building | 1971 | 1972 |
| :---: | :---: | :---: |
| 1 unit. | 4.8 | 5.2 |
| 5 units or more.. | 8.6 | 8.9 |
| 50-100 units... | 10.7 | 11.6 |
| 100 units or more. | 15.4 | 18.2 |

Source: Bureau of the Census.
and the rental apartment market have never been synonymous, but the disparity between the two has grown in recent years.

Another influence that has a bearing on the behavior of rental absorption rates and vacancy rates is changes in the time required to complete construction. If shortages of labor or building materials cause the construction lag to lengthen, so that completions are delayed, that will tend to moderate the "natural" decline in the absorption rate and rise in the vacancy rate. The Census Bureau has published annual figures on the average number of months from start to completion for 1971 and 1972, which show the construction lag lengthening (table 3). Given the capacity pressures and reports of shortages that have developed in the economy this year, it does not seem unreasonable to believe that the construction lag has continued to lengthen.

## Mortgage Credit

For the third time in 7 years, high interest rates are causing a sharp reduction in the supply of funds available for mortgage credit. Savers are once again shifting funds from savings accounts to higher yielding open market instruments and the net flow of savings to the major mortgage lending institutions is contracting sharply. From June to August (the latest month for which data are available) the net flow of savings to the savings and loan associations was less than $\$ 1 / 2$ billion at a seasonally adjusted quarterly rate. This compares with flows of $\$ 51 / 2$ billion in the second quarter and $\$ 81 / 4$ billion in the first, and average quarterly flows of $\$ 81_{4}^{\prime}$ billion in 1972 and $\$ 7$ billion in 1971 (chart 2).

Despite the fact that this year's sharp escalation of short-term interest
rates carried to levels far above previous highs, the net flow of savings from June to August was no worse than it was in the 1969-70 period of credit tightening or in the 1966 period. One reason for this may be that the minimum purchase of Treasury bills and most Federal agency issues-the most attractive investment alternatives to small savers-was boosted from

CHART 2

## Savings and Loan Associations




Change from end of quarter to end of
quarter, seosonally adjusted.
-June to August at quarterly rate.
Data: FHLBB
*Not seasonally adjusted
U.S. Department of Commerce, Bureau of Economic Analysis
$\$ 1,000$ to $\$ 10,000$ in 1970. Another reason may be that the Federal regulatory agencies early this summer raised the structure of interest rates permissible on certificate type time and saving deposits. Also, the S\&L's are much more aggressive in competing for the more interest sensitive certificate of deposit (CD) type funds than they were in the past. The S\&L's began to compete for CD-type funds as a result of the credit squeeze of 1966 , and such deposits have since then accounted for a steadily increasing share of total deposits. Currently, more than 50 percent of deposits at the S\&L's carry rates higher than that paid on regular passbook accounts, as compared with 30 percent at the end of 1969 and 23 percent at the end of 1968. Of course, the other side of the coin is that depositors are now much more conscious of interest rate differentials than they once were, which requires the S\&L's to compete more aggressively for deposits if they are to avoid large outflows.

As this issue of the Survey goes to press in mid-October, short-term interest rates, especially the Treasury bill rate, are noticeably below their recent highs and it may well be that the worst of the threat of a steadily weakening flow of deposits to the S\&L's, caused by escalating short-term interest rates, has passed. However, the prospect of an improved deposit flow awaits a substantial easing of credit market conditions, which recent Federal Reserve statements indicate is not a likely near term development. Although full data on the flow of savings for September are not yet available, the evidence at hand suggests that savers continued to divert funds from the S\&L's but not to the extent that they had in August, when the net savings flow was negative.

## Commitments

The reduction in the flow of new money to the S\&L's came at a time when there was an enormous volume of mortgage lending commitments outstanding, and this caused the S\&L's to reduce their holdings of liquid assets and sharply increase their borrowings from the Federal Home Loan Banks.

Commitments outstanding (including loans in process) rose without interruption from early 1970 to February of this year when they reached a record $\$ 21 \frac{1}{2}$ billion (seasonally adjusted). Since February, the S\&L's have sharply curtailed the volume of new commitments, and the takedown of commitments previously made has cut the volume outstanding $17 \frac{1}{2}$ percent to $\$ 17 \frac{3 / 4}{4}$ billion. That is still a very large overhang, and it may take until early 1974, or perhaps longer, to bring commitments down to a level at which the S\&L's will again be willing to make new ones. However, there is no historical precedent for the huge buildup of commitments in the past few years, and thus it is hard to judge how much of an adjustment may be in the offing. In the previous contraction of the mortgage market, outstanding commitments peaked in February 1969 at $\$ 7$ billion and declined a little more than 25 percent to $\$ 5 \frac{1}{4}$ billion in March 1970. In the 1966 contraction, outstandings peaked at $\$ 51 / 2$ billion in January and fell nearly 50 percent to $\$ 3$ billion in December.

## Mortgage lending

As a result of the huge volume of commitments, mortgage lending by the S\&L's continued very strong in the summer. From June to August, mortgage lending increased more than $\$ 71_{4}$ billion at a seasonally adjusted quarterly rate, only moderately less than the increases of $\$ 8^{3 / 4}$ billion in the second quarter (the record) and $\$ 81 / 4$ billion in the first (chart 2). Lending would probably have been even stronger in the summer if it had not been for the fact that mortgage interest rates rose above the ceilings permissible under usury laws in some States. There are
currently 17 States where usury laws limit interest rates to 8 percent or less.

In order to meet their mortgage commitments, the S\&L's have sharply stepped up their borrowings from the Federal Home Loan Banks. Borrowings totaled $\$ 13 \not / 4$ billion in August, up more than $\$ 5$ billion from the end of last year, and were equal to 6 percent of savings deposits in August. During the credit stringency in 1969, by comparison, borrowings rose about $\$ 4$ billion during the course of the year and amounted to a somewhat larger share ( 6.8 percent) of savings deposits at yearend 1969.

In addition to the lending activity of the Federal Home Loan Banks, there has been substantial support to mortgage markets this year from the secondary market purchases of other Government-sponsored agencies, the Federal National Mortgage Association (FNMA) and the Federal Home Loan Mortgage Corporation (FHLMC). In the first 8 months of the year, FNMA made commitments to purchase more than $\$ 7 / 2$ billion in the secondary market as compared with $\$ 61 / 2$ billion in the full year 1969. Actual purchases amounted to $\$ 3$ billion through August, as compared with a little more than $\$ 4$ billion in 1969 . The FHLMC, which became operational in late November 1970, has made commitments to purchase $\$ 1 \% / 3$ billion in the secondary market so far this year and actual transactions have amounted to $\$ 1$ billion.

In the second quarter of this year (the latest for which data are available), net credit extended by Govern-ment-sponsored agencies in support of the mortgage market (including advances from the Federal Home Loan Banks to S\&L's) was $\$ 21 \frac{1}{2}$ billion at a

Table 4.-Mortgage Debt Expansion
[Billion dollars, seasonally adjusted at annual rates]

| Line |  | 1968 | 1969 | 1970 | 1971 | 1972 |  | 1973 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{gathered} \text { 1st } \\ \text { half } \end{gathered}$ | $\underset{\text { half }}{2 \mathrm{~d}}$ | $\begin{aligned} & \text { qst } \end{aligned}$ | $\stackrel{2 \mathrm{~d}}{\mathrm{qtr}}$ |
| 1 | Residential mortage debt expansion.. | 20.9 | 22.3 | 21.1 | 38.8 | 48.5 | 58.9 | 55.5 | 59.5 |
| 2 | Advances by Federal Home Loan Banks plus support by federally sponsored credit agencies. | 3.1 | 8.5 | 7.1 | 3.6 | 4.8 | 8.6 | 12.0 | 21.4 |
| 3 | Line $2 \div$ line 1 | 14.8 | 38.1 | 33.6 | 9.3 | 9.9 | 14.6 | 21.6 | 36.0 |

[^1]seasonally adjusted annual rate. That support amounted to 36 percent of total mortgage debt expansion in that quarter (Table 4). In the full year 1969, agency support amounted to $\$ 81 / 2$ billion, about 38 percent of total mortgage debt expansion.
In other efforts to buttress mortgage markets, the Federal Home Loan Bank Board early this summer reduced the reserves that S\&L's must maintain from 6.5 to 5.5 percent of deposits, thereby freeing some $\$ 21 / 4$ billion for expansion of lending activity. In addition, the Board recently announced that it will loan up to $\$ 2.5$ billion to the S\&L's in support of new mortgage lending commitments by the S\&L's. These funds will be loaned at $81 / 2$ percent, which is below the current rate on FHLB advances, and will become available early next spring. The extent to which the S\&L's will make use of the new program remains to be seen.

Also, in his mid-September message to Congress on Federal Housing Policy, the President directed the Department of Housing and Urban Development to reinstate the "Tandem Plan" under the auspices of the Government National Mortgage Association (GNMA). Under this plan, GNMA offers to buy from mortgage lenders FHA-insured mortgages, which currently have a ceiling rate of $81 / 2$ percent, at above-market prices. The purpose of this is to reduce the "points" that lenders charge in order to bring the effective rate on FHA-mortgages up to current mortgage market yields. Only mortgages on new housing will be eligible for GNMA purchase; up to $\$ 3$ billion will be available.

In spite of the fact that there has recently been some decline in shortterm interest rates, monetary policy remains highly restrictive and the outlook for homebuilding for the next 6 months or so remains unfavorable. In the multiunit market, the large number of units still under construction suggests that a rebound of activity will be slow to materialize. Weakness in the single-family market is now clearly evident, and the very high inventorysales ratio suggests that it will be some time before excess inventories are worked off.

Moreover, the outlook for mortgage credit is not favorable, as relief of pressures on mortgage lending institutions awaits a major easing in credit market conditions. Even when that does occur, there will be a lag before a major expansion of mortgage lending activity gets underway, as it will take time for lenders to rebuild liquidity and for mortgage interest rates to decline to levels attractive to borrowers.

## Nonfinancial Corporate Profits

Profits have risen steeply during the current economic expansion, especially in the past year. The book value of nonfinancial corporations' pretax profits increased 15 percent in 1971, 16 percent in 1972, and 35 percent from the first half of 1972 to the first half of 1973. However, a considerable amount of the recent expansion is estimated by BEA to consist of inventory profits that arise because of differences between the replacement cost of goods taken out of inventory and the cost at which they are charged to production. Such profits arise when prices are increasing, and they must in effect be used for inventory restocking if the physical volume of inventories is not to decline. Because such profits are not generated by current production activity, they are excluded from the profit component of national incomean aggregate that measures the factor incomes arising from current production. This review focuses on profits as measured in national income, because changes in those profits can be more meaningfully related to changes in production.

On the national income basis, pretax profits of nonfinancial corporations in the United States increased 16 percent in 1971 and 14 percent in 1972; the rise from the first half of 1972 to the first half of 1973 was 21 percent, much smaller than the 35 percent rise in the book value figure but nevertheless a large advance. ${ }^{1}$ Despite these increases, profits remain low relative to national

1. Profits remitted from abroad are included in the profit component of national income, as income to U.S. owners of capital invested abroad. However, profits from abroad are excluded from this review because they are generated by production abroad, not by production of nonfinancial corporations in the United States.

## Nonfinancial Corporations: Output, Costs, and Profits




NOTE. - Output is constant dollar gross corporate product (GCP). Price per unit is carculated by dividing current dollar GCP by dividing the several components of current dollar GCP by constant dividing the several components of current dollar GCP by constant
dollar GCP. Nonlabor cost consists of capital consumption allowances, net interest, and indirect business taxes plus business transfers less subsidies received.
output. It was not until late 1972 that the profits of nonfinancial corporations, expressed at a seasonally adjusted annual rate, finally surpassed the previous peak set in late 1966 (chart 3).

## Profits by industry

The sharpest gains in nonfinancial corporate profits in the current expansion have been in manufacturing, and over the past year manufacturing has in fact accounted for the entire increase in the aggregate. (Manufacturing currently accounts for about two-thirds of the total profits generated by nonfinancial corporations in the United States.) In durable goods manufacturing, where output and profitability are highly sensitive to economic fluctuations, profits dropped 16 percent in 1969 and 44 percent in 1970, then recovered equally sharply in 1971 and 1972 and were still rising very rapidly in this year's first half. The cyclical decline in the profits of nondurables manufacturers in 196970 was milder and was followed by essential stability in 1971 and the first half of 1972. After mid-1972, however, profits of nondurables manufacturers rose very sharply. Profits of nonmanufacturing industries have been stable to declining since early 1972, and their aggregate amount in this year's first half-about $\$ 26^{3 / 4}$ billion at an annual rate-was virtually the same as in the first half of 1972. Over the same 1 -year period, profits of manufacturers rose from $\$ 38$ billion to $\$ 51$ billion (annual rates).
The year 1966 marked a peak in the profits of most industries, culminating the boom that had begun in 1961. This was followed by a decline in the "minirecession" of 1967, recovery in 1968, and renewed weakness in 1969-70. Table 5 shows in a summary way the considerable differences in recent years in the profit experience of various industries. The 1966 profits peak was surpassed in durables manufacturing this year, and in nondurables manufacturing during 1972. By contrast, profits of the transportation-communication-utilities group are far below the 1966 peak and indeed no better than in 1962. The weakness has been especially severe in

Table 5.-Pretax Corporate Profits, Indexed to 1966
[ $1966=100$; quarterly data seasonally adjusted at annual rate]


Nore.-Data are on national income basis, i.e., including inventory valuation adjustment.

1. Net loss.
2. Agriculture, mining, real estate.
transportation, which encompasses railroads, airlines, and trucking. By further contrast, the cyclical decline in the profits of other nonmanufacturing industries as a group was relatively mild and profits never fell below the 1966 figure; since 1971, the expansion in this group's profits has also been very mild.

## Profits related to production

The rapid rise in manufacturing profits during the current economic expansion reflects rapid growth in the amount of national output originating in manufacturing and a sharp increase, especially in durables manufacturing, in the ratio of profits to that output. That ratio is a "profit margin" that reflects how the incomes arising from current production are distributed among the factors that contribute to production. BEA makes annual estimates of the amount of national output-real GNP-originating in each major industry, but the estimates are for the whole industry including its unincorporated segment. It is thus not feasible to calculate on an industry basis the
ratio of corporate profits to output produced by corporations. However, a proxy for that profit margin ratio can be calculated for each industry by using aggregate "profit-type income" generated in the industry, including proprietors' income and rental income of persons.

Table 6 shows this ratio for selected industries, indexed to 1966. In manufacturing, the ratio went up very sharply as the amount of output originating in manufacturing recovered from the 1970 recession. Large productivity gains typically occur in manufacturing as utilization increases in a recovery, and these gains have a very favorable effect on profitability. Despite the recent improvement, however, the ratio of profit per unit of output remains well below the levels of the mid-1960's. In durables manufacturing, the ratio peaked in 1965, then declined steadily; in 1970 it was only about 40 percent of its 1965 level, and the improvement in 1971 and 1972 moved it back up only to about 70 percent of the 1965 level.

Table 6.-Ratio of Pretax Profit-Type Income to Real Output Originating, Indexed to 1966

| [1966=100] |
| :--- |

[^2]In nondurables manufacturing, the ratio peaked in 1966 and declined through 1971; the improvement in 1972 moved it up to only about 75 percent of the 1966 level.
In communications and utilities, the ratio of profit-type income to output has been declining for years and declined again in 1972. This trend has held profits down despite large gains year after year in the amount of output originating in those industries. In transportation, the ratio dropped immensely from the mid-1960's to 1970. Sharp improvements in 1971 and 1972 were reflected in sharp profits advances, but profits remained far below the 1966 peak (table 5) and the ratio of profit per unit of output was also still very low (table 6).
In other industries, where noncorporate organization is more prevalent, the ratio of profit-type income to total output originating may be a rather poor proxy for the ratio of corporate profits to corporate output. In construction, the ratio has been generally rising since the mid-1960's; in services, it dropped in 1972 after years of advance; in trade, the ratio has been erratic over the past decade and it fell last year.

## Profits of nonfinancial corporations

For the aggregate of nonfinancial corporations, there is a more complete set of estimates of the factors that influence profits-including BEA estimates of real gross product originating in those corporations and Bureau of Labor Statistics estimates of output per man-hour and compensation per man-hour. As chart 3 shows, the current profits expansion has been generated by an expansion in the amount of real output originating in nonfinancial cor-
porations and a recovery in profit per unit of output. The profit margin jumped sharply in early 1971 , reflecting the rebound from the late-1970 auto strike as well as the general cyclical recovery. The margin was then relatively stable until mid-1972 but rose sharply during the year from mid-1972 to mid-1973. Even so, profit per unit of output is still well below the levels of the mid-1960's.

Output originating in nonfinancial corporations, their value added, is the sum of factor incomes originating in those corporations-employee compensation, net interest payments, and pretax profit (on the national income basis)-plus other charges against pro-duction-capital consumption allowances, indirect business taxes, and transfer payments made, less subsidies received. In real terms, this output is conceptually the difference between the real value of total corporate sales plus inventory change (i.e., sales and inventory change in constant dollars) and the real value of purchased inputs. In chart 3 and table 7, the "price" shown is the price per unit of this output, or value added. This unit price is equal to the sum of unit labor cost, unit nonlabor cost (interest plus the other charges against production), and unit profit. ${ }^{2}$

Table 7 summaries the behavior of profits and the factors influencing them, starting at the previous peak in profits in 1966. In the period from end1966 through mid-1968, encompassing the "mini-recession" of 1967 and the subsequent recovery, profits showed no

[^3]Table 7.-Percent Change in Nonfinancial Corporations' Profits and in Factors Influencing Profits
[Percent, seasonally adjusted at annual rate]

| [Percent, seasonally adjusted at annual rate] |
| :--- | :--- |

net change. From mid-1968 to the cyclical peak in economic activity at end1969, productivity growth was very slow and unit labor cost rose sharply; unit nonlabor cost also rose sharply, and unit profit and total profits fell. During the recession year 1970, the growth rate of productivity strengthened slightly but unit labor cost continued to rise rapidly, and unit nonlabor cost escalated as output declined.
The rebound from the late-1970 auto strike augmented the general economic recovery in the first half of 1971 . Since mid-1971, the economic expansion has been less dramatic. Output per manhour in nonfinancial corporations has been rising about 4 percent per year but compensation per man-hour has been rising much faster, so that unit labor cost has continued to increase. However, unit nonlabor cost has been roughly stable as costs have been spread over a growing output. Unit profit has improved significantly, especially in the year from mid-1972 to mid-1973.
The increase in profits in this year's second quarter was much slower than over the preceding three quarters, as the rise in both output and unit profit decelerated. A continued slowing of profit expansion is probable. With output growth slowing, the growth rate of productivity in nonfinancial corporations will probably drop below 4 percent; the rise in compensation per man-hour may also slow but unit labor cost will undoubtedly continue to increase at a substantial rate. Nonlabor cost per unit of output is also likely to rise as output growth decelerates. By way of perspective, the growth rate of productivity in the expansion from 1960 to 1966 averaged just about 4 percent per year, roughly the same as in the past 2 years; compensation per man-hour increased only slightly faster than productivity and unit labor costs changed hardly at all. Unit nonlabor costs rose about 1 percent per year. In the late 1960's, when output growth was slower and capacity was more fully utilized, productivity increased only about $2 / 2$ percent per year and compensation per man-hour increased 7 percent per year; unit labor costs rose about 4 percent per year and unit nonlabor costs at a rate of nearly 6 percent.

## Alternative Calculations of Constant Dollar GNP

THE rate of change of GNP in constant dollars ("real GNP") is generally influenced by the choice of the valuation period used for the constant dollar calculation. The estimates prepared by BEA are currently in 1958 dollars; this means that the value of output in every period is restated on the assumption that 1958 prices prevailed in every period. If the prices of another year were used instead, the resulting constant dollar GNP could show rates of changes over time somewhat different from those shown by GNP in 1958 dollars. The reason for such differences is that the prices of various goods and services change relative to one another over time. (The selection of the valuation period has no effect on the rate of change of constant dollar GNP over a given timespan if the rates of change of either the outputs or the prices of all the goods and services are identical over that span.)

Table A.-Alternative Measures of Constant Dollar GNP

|  | GNP in constant dollars of- |  |  |
| :---: | :---: | :---: | :---: |
|  | 1958 | 1967 | 1972 |
|  | Billions of dollars |  |  |
| 1962..-- | 529.7551.0581.1 | 625.2650.0684.7 | $\begin{aligned} & 791.1 \\ & 820.8 \end{aligned}$ |
| 1963.-.. |  |  |  |
| 1964.... |  |  |  |
| 1965.- | 617.8 | 726.8773.3 | 916.3974.0 |
| 1966 | 658.1 |  |  |
| 1967 | 675.2 | 793.9 | 1,000.8 |
| 1968. | 706.6 | 829.6851.3 |  |
| 1969. | 725.6 |  | $1,043.5$ $1,068.9$ |
| 1970.19711972 | 722.5745.4790.7 | $\begin{aligned} & 849.2 \\ & 874.6 \\ & 926.7 \end{aligned}$ | $\begin{aligned} & 1,065 . \\ & 1,095.4 \\ & 1,155.2 \end{aligned}$ |
|  |  |  |  |
|  |  |  |  |
| 1972 | Percent change from previous year |  |  |
| $\begin{aligned} & 1963 \\ & 1964 \end{aligned}$ | 4.05.4 | 4.05.3 | 3.8 |
|  |  |  | 5.2 |
| 1965 | 6.36.52.64.72.72.7 | $\begin{aligned} & 6.2 \\ & 6.4 \\ & 2.7 \\ & 4.5 \\ & 2.6 \end{aligned}$ | 6.26.26.32.84.82.4 |
| 1966 |  |  |  |
| 1967 |  |  |  |
| 1968. |  |  |  |
| 1969. |  |  |  |
| $\begin{aligned} & 1970- \\ & 1971- \\ & 1972 . \end{aligned}$ | $\begin{gathered} -.4 \\ 3.2 \\ 6.1 \end{gathered}$ | $\begin{array}{r} -.2 \\ 3.0 \\ 6.0 \end{array}$ | -.3-2.85.5 |
|  |  |  |  |
|  |  |  |  |
|  | Average annual percent change |  |  |
| 1962-72. | 4.1 | 4.0 | 3.9 |

The valuation period used in calculating constant dollar GNP will be changed when BEA next benchmarks the national income and product accounts. Meanwhile, some preliminary calculations have been made of constant dollar GNP calculated with the prices of more recent years. Calculations in the prices of 1967 and 1971 were published in the October 1972 Survey. The calculations in 1967 dollars are updated here through the second quarter of 1973 using the revised GNP data published in the July 1973 Surver. Also shown are new calculations in 1972 dollars.

Table A shows rates of growth from 1962 to 1972 in GNP in constant 1958 dollars, in constant 1967 dollars, and in constant 1972 dollars. Over the 10-year period, GNP in 1958 dollars increased at an average annual rate of 4.1 percent as compared with 4.0 percent in 1967 dollars and 3.9 percent in 1972 dollars. In some years, the differences are somewhat larger. The largest differences occurred in 1968, 1971, and 1972, when the percentage change in GNP in constant 1958 dollars exceeded the change in GNP in constant 1972 dollars by $0.4,0.4$, and 0.6 percentage points, respectively. The differences in the growth rates for these 3 years and for the 1962-72 span were due primarily to large increases in output of passenger cars. The weight of this item in real GNP is larger when expressed in 1958 dollars than in 1967 or 1972 dollars because its deflator has risen at a slower rate than the deflator for total GNP since 1958. Hence, an increase in this component has a greater effect on GNP calculated in constant 1958 dollars than on GNP calculated in constant dollars of a later period.

Table B shows quarter-to-quarter percent changes (at seasonally adjusted annual rates) for GNP in constant 1958 dollars, constant 1967 dollars, and constant 1972 dollars. The largest differences among the quarterly movements of the three series occurred in the first quarter of 1965 , the fourth quarter of 1970 , and the first quarter of 1971.

In nine of the past 10 quarters, GNP in constant 1972 dollars has increased
at a slower rate than GNP in constant 1958 dollars; while GNP in constant 1967 dollars has increased at a slower rate than GNP in constant 1958 dollars in seven of the past 10 quarters. This persistent difference was due largely to a steady decline in constant dollar Federal general government employee compensation, particularly in the military. The weight of this item in real GNP is less when expressed in 1958 dollars than in 1967 or 1972 dollars because its deflator has risen more rapidly than the deflator for total GNP since 1958. Hence, a decline in this component has less effect on GNP calculated in constant 1958 dollars than on GNP calculated in constant dollars of a later period. Also contributing to the difference was the rapid growth in output of passenger cars during this period. The large differences in 1970-IV and 1971-I were due primarily to the impact of the General Motors strike on passenger car output.

Table B.-Quarterly Changes in GNP in Constant 1958 Dollars, Constant 1967 Dollars, and Constant 1972 Dollars
[Percent change from previous quarter, seasonally adjusted annual rate]

|  | GNP in constant dollars of- |  |  |
| :---: | :---: | :---: | :---: |
|  | 1958 | 1967 | 1972 |
| 1962: II | 6.5 | 6.4 | 6.5 |
| III.----.-------- | 4.3 | 4.1 | 4.1 |
| IV....-.-.-.-...- | 3.7 | 3.3 | 3.0 |
| 1963: I_-.-............- | 2.2 | 2.4 | 1.8 |
| II..................- | 3.6 | 3.9 | 3.5 |
| IIİ---...-......-. | 6.6 | 6.2 | 6.6 |
| IV..............-. | 5.4 | 5.2 | 5.4 |
| 1964: I .................. | 6.6 | 6.4 | 5.6 |
| 1I..------------- | 5.3 | 5.4 | 4.9 |
| 1Iİ------.-.------- | 5.1 | 4.9 | 5.1 |
| IV...............-- | 1.9 | 2.3 | 2.5 |
| 1965: 1 | 9.2 | 8.3 | 7.7 |
| Iİ | 5.9 | 6.2 | 6.5 |
| III. | 8.2 | 8.0 | 8.2 |
| IV.. | 9.4 | 9.1 | 9.4 |
| 1966: 1----------------- | 8.1 | 7.9 | 7.3 |
| 11 | 3.7 | 3.6 | 3.7 |
| III. | 3.2 | 3.5 | 2.7 |
| IV. | 4.9 | 4.7 | 4.9 |
| 1967: 工.................- | $-.9$ | -. 5 | . 5 |
| II | 3.0 | 2.7 | 2.3 |
| III. | 4.4 | 4.6 | 4.5 |
| IV.-.-. | 2.8 | 3.1 | 2.6 |
| 1968: 1 | 5.4 | 5.0 | 4.8 |
| II................. | 7.5 | 7.1 | 6.8 |
| III.-.............- | 4.0 | 4.3 | 4.1 |
| IV | 2.4 | 1.3 | 1.3 |
| 1969: I | 3.4 | 3.4 | 3.2 |
| Iİ---....-......- | 1.9 | 2.5 | 2.1 |
| III....-----....- | 1.9 | 1.6 | 2.2 |
| IV | -2.3 | -2.1 | -2.8 |
| 1970: I. | -2.1 | $-1.7$ | -1.8 |
| II ...............- | . 5 | . 2 | . 5 |
|  | 2.9 | 3.3 | 2.5 |
| IV | -4.3 | -3.6 | -2.7 |
| 1971: I .................- | 9.1 | 8.0 | 7.2 |
|  | 2.9 | 2.9 | 2.6 |
| IIİ------------------ | 3.6 | 3.5 | 3.1 |
| IV | 6.6 | 5.5 | 5.6 |
| 1972: I- | 4.9 | 5.7 | 4.3 |
| Iİ | 9.5 | 9.0 | 8.5 |
| III | 5.8 | 5.7 | 5.6 |
| IV...------------ | 8.1 | 8.0 | 7.3 |
| 1973: | 8.7 | 7.9 | 7.8 |
| II,--......------- | 2.4 | 2.8 | 2.7 |

- GNP rose $\$ 32$ billion in third quarter; real GNP grew $31 / 2$ percent (annual rate)
- In September: The jobless rate was unchanged at 4.8 percent; nonfarm payroll employment rose 190,000
- Wholesale price index declined due to a sharp drop in agricultural prices

- In September: Personal income advanced $\$ 10$ billion
- In third quarter: Consumer spending increased $\$ 173 / 4$ billion
- Business fixed investment rose $\$ 41 / 2$ billion; residential outlays were little changed

INCOME OF PERSONS




U.S. Department of Commerce, Bureau of Economic Amelysis

COMSUMPTION ANO SAVMG



Million Unith Million Units



FIXED HYESTIUENT


Billion $\$$


- In third quarter: Inventory investment increased $\$ 4 \frac{1}{4}$ billion
- Net exports of goods and services were up $\$ 11 / 4$ billion
- Federal Government purchases showed little change, State and local spending rose $\$ 43 / 4$ billion

INVENTORIES





FOREIGN TRANSACTIOAS





GOVERNMENT
Billion \$



Billion \$


Billion $\$$


- In September: Industrial production increased three-fourths of 1 percent
- Bank credit was about unchanged; money supply growth slowed
- Interest rates and bond yields declined



# NATIONAL INCOME AND PRODUCT TABLES 

| 1971 | 1972 | 1972 |  |  | 1973 |  |  | 1971 | 1972 | 1972 |  |  | 1973 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | II | III | IV | I | II | III ${ }^{p}$ |  |  | II | III | IV | I | II | III ${ }^{p}$ |
|  |  | Seasonally adjusted at annual rates |  |  |  |  |  |  |  | Seasonally adjusted at annual rates |  |  |  |  |  |
| Billions of current dollars |  |  |  |  |  |  |  | Billions of 1958 dollars |  |  |  |  |  |  |  |

Table 1.—Gross National Product in Current and Constant Dollars (1.1, 1.2)


Table 2.-Gross National Product by Major Type of Product in Current and Constant Dollars (1.3, 1.5)

| Gross national product | 1,055, 5 | 1,155.2 | 1,142.4 | 1,166.5 | 1,199.2 | 1,242.5 | 1,272.0 | 1,304.0 | 745. 4 | 790.7 | 785.6 | 796.7 | 812.3 | 829.3 | 834.3 | 841.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Final sales. $\qquad$ Change in business inventories | $1,049.4$ 6.1 | $1,149.1$ <br> 6.0 | $1,136.9$ <br> 5.5 | $1,157.8$ <br> 8.7 <br> 8.7 | $1,191.0$ <br> 8.2 | $1,237.8$ <br> 4.6 | $1,267.5$ <br> 4.5 | $1,295.3$ <br> 8.7 <br> 8 | 740.1 5.3 | $\begin{array}{r} 786.1 \\ 4.6 \end{array}$ | 781.3 4.3 | 790.0 6.6 | $\begin{array}{r} 806.0 \\ 6.3 \end{array}$ | $\begin{array}{r} 826.0 \\ 3.3 \end{array}$ | $\begin{array}{r} 831.0 \\ 3.4 \end{array}$ | 835.8 5.9 |
| Goods output | 497.1 | 541.4 | 536.4 | 548.6 | 563.6 | 589.6 | 604.2 | 621.8 | 396. 1 | 423.9 | 421.5 | 428.4 | 438.4 | 452.1 | 453.9 | 457.2 |
| Final sales. Change in business invent | 491.1 6.1 | 535.4 6.0 | 531.0 5.5 | 539.9 8.7 | 555.4 8.2 | 585.0 4.6 | 599.6 4.5 | 613.1 8.7 | 390.8 5.3 | 419.3 4.6 | 417.2 4.3 | 421.7 6.6 | 432.1 6.3 | 448.7 3.3 | 450.5 3.4 | 451.4 5.9 |
| Durable goods | 193.1 | 219.1 | 214.6 | 222.6 | 233.2 | 242.5 | 249.7 | 252.7 | 163.0 | 184.1 | 180.4 | 186.2 | 196.3 | 203.4 | 207.1 | 207.3 |
| Final sales | 191.1 | 214.1 4.9 | 211.4 | 216.8 5.8 | 222.8 | 238.1 4.4 | 242.4 7.3 | 244.3 8.4 | 161.3 1.7 | 180.2 3.9 | 177.7 2.7 | 181.8 4.4 | 188.0 8.2 | 200.3 3.2 | 201. 5 | 201.3 6.0 |
| ange in busines |  |  |  |  |  |  |  | 8.4 | 1.7 |  |  |  |  |  |  |  |
| Nondurable goods. | 304.0 | 322.3 | 321.9 | 326.0 | 330.3 | 347.2 | 354.5 |  | 233.1 | 239.8 | 241.1 | 242.2 | 242.1 | 248.7 | 246.7 | 249.9 |
| Final sales | 299.9 | 321.2 | 319.6 | 323.1 | 332.5 | 346.9 | 357.3 | 368.8 | 229.5 | 239.1 | 239.5 | 240.0 | 244.1 | 248.5 | 248.7 | 250.0 |
| Change in business inventori | 4.1 | 1.1 | 2.3 | 2.9 | -2.2 | . 3 | -2.8 | . 4 | 3.6 | . 7 | 1.6 | 2.2 | -1.9 | . 2 | -2.0 | -. 1 |
| Services | 447.4 | 487.3 | 481.5 | 491.8 | 503.9 | 514.8 | 527.7 | 540.0 | 280.1 | 292.6 | 290.3 | 294.5 | 298.8 | 300.6 | 304.1 | 308.1 |
| Structures | 110.9 | 126.5 | 124.4 | 126.2 | 131.7 | 138.1 | 140.1 | 142.1 | 69.1 | 74.2 | 73.8 | 73.8 | 75.1 | 76.7 | 76.3 | 76.3 |

Table 3.-Gross National Product by Sector in Current and Constant Dallars (1.7, 1.8)

| Gross national product | 1,055. 5 | 1,155. 2 | 1,142.4 | 1,166,5 | 1,199. 2 | 1,242. 5 | 1,272.0 | 1,304,0 | 745.4 | 790.7 | 785.6 | 796.7 | 812.3 | 829.3 | 834.3 | 841.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Private | 930.3 | 1,019.7 | 1,008. 6 | 1,030.0 | 1,060. 0 | 1,098.9 | 1,126.2 | 1,155.8 | 684.7 | 729.5 | 725.0 | 735.3 | 750.3 | 767.1 | 772,0 | 779.1 |
| Business.- | 889.9 | 975.4 | 965.2 | 984.9 | 1, 013.6 | 1,050. 5 | 1, 076.8 | 1, 105.1 | 662.2 | 706.6 | 702.6 | 712.3 | 726.8 | 742.9 | 748.3 | 755.2 |
| Nonfarm | 859.4 | 941.0 | 931.3 | 951.0 | 976.9 | 1,008. 9 | 1, 033.5 | 1, 056.0 | 636.3 | 682.0 | 677.4 | 688.7 | 702.5 | 718.1 | 725.9 | 734.0 |
| Farm. | 30.4 | 34.4 | 33.9 | 33.9 | 36.7 | 41.6 | 43.3 | 49.0 | 26.0 | 24.6 | 25.2 | 23.6 | 24.2 | 24.8 | 22.4 | 21.2 |
| Households and institutions | 33.5 | 36.8 | 36.6 | 37.5 | 37.8 | 39.3 | 40.5 | 41.7 | 16.8 | 17.4 | 17.4 | 17.5 | 17.4 | 18.0 | 18.2 | 18.6 |
| Rest of the world | 7.0 | 7.5 | 6.8 | 7.6 | 8.7 | 9.1 | 8.9 | 9.1 | 5.6 | 5.5 | 5.0 | 5.5 | 6.2 | 6.3 | 5.5 | 5.3 |
| General government | 125. 1 | 135.4 | 133.8 | 136.5 | 139.2 | 143.5 | 145.8 | 148.2 | 60.7 | 61.1 | 60.6 | 61.3 | 62.0 | 62.2 | 62.4 | 62.5 |
| Federal- | 47.6 | 50.3 85.1 | 50.0 83.8 | 50.2 86.4 | 50.5 88.7 | 52.5 91.1 | 52.2 93.6 | 18.2 96.0 | 23.0 37.6 | 21.8 39.3 | 21.7 38.9 | 21.7 39.7 | 21.7 40.3 | 21.6 40.6 | 21.4 41.0 | ${ }_{41.3}^{21.2}$ |

## HISTORICAL STATISTICS

THE national income and product data for 1929-63 are in The National Income and Product Accounts of the United States, 1929-1965, Statistical Tables (available at $\$ 1$ from Commerce Department District Offices or the Superintendent of Documents; see addresses inside front cover). Each July Survey contains preliminary data for the latest 2 years and fully revised data for the preceding 2. The July 1973 issue has data for 1969-72. Prior July issues have fully revised data as follows: 1968-69, July 1972; 1967-68, July 1971; 1966-67, July 1970; 1965-66, July 1969; 1964-65, July 1968. BEA will provide on request a reprint of the fully revised data for the years 1964-69.

| 1971 | 1972 | 1972 |  |  | 1973 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | II | III | IV | I | II | III ${ }^{p}$ |
|  |  | Seasonally adjusted at annual rates |  |  |  |  |  |
| Billions of dollars |  |  |  |  |  |  |  |

Table 4.-Relation of Gross National Product, National Income, and Personal Income (1.9)

| Gross national product | 1,055.5 | 1,155.2 | 1, 142.4 | 1,166.5 | 1,199. 2 | 1, 242.5 | 1,272.0 | 1,304.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Less: Capital consumption allowances | 93.8 | 102.4 | 103.6 | 102.3 | 105. 1 | 106.9 | 109.0 | 110.7 |
| Equals: Net national product - - | 961.6 | 1,052.8 | 1,038.8 | 1,064. 2 | 1,094. 1 | 1,135.5 | 1,163.0 | 1,193.3 |
| Less: Indirect business tax and nontax liability | 102.4 | 109.5 | 108.4 | 110.5 | 112.8 | 115.6 | 117.2 | 118.5 |
| Business transfer payments | 4.3 | 4.6 | 4.6 | 4.7 | 4.7 | 4.8 | 4.9 | 5.0 |
| Statistical discrepancy .- | -3.4 | $-1.5$ | $-1.0$ | 1.6 | 2 | 1.1 | 3.2 |  |
| Plus: Subsidies less current surplus government enterprises.-.-. .-. .-. . | 1. 2 | 1.7 | 1.5 | 1.8 | 2.2 | 9 | 4 | 5 |
| Equals: National income | 859.4 | 941.8 | 928.3 | 949.2 | 978.6 | 1,015.0 | 1,038,2 |  |
| Less: Corporate profits and inventory valuation adjustment. | 80.1 | 91. 1 | 88.0 | 91.5 | 98.8 | 104.3 | 107.9 |  |
| Contributions for social insurance | 64.6 | 73.7 | 72.9 | 74.5 | 75.8 | 89.3 | 90.9 | 92.9 |
| Wage accruals less disbursements. | . 6 | $-.5$ | -. 4 | --. 2 | . 0 | . 0 | -. 3 | 0 |
| Plus: Government transfer payments to persons. | 88.9 | 98.3 | 95.3 | 96.4 | 107.3 | 108.8 | 110.8 | 113.7 |
| Interest paid by government (net) and by |  |  |  |  |  |  |  |  |
| consumers. | 31. | 32.7 | 32.6 25.9 | 32.9 26.2 | 33.7 26.4 | 34.7 | 36. 3 | 37.9 28.1 |
| Business transfer payments. | 4.3 | 4.6 | 4.6 | 4.7 | 4.7 | 4.8 | 4.9 | 5.0 |
| Equals: Personal incom | 863.5 | 939.2 | 926.1 | 943.7 | 976.1 | 996.6 | 1,019.0 | 1,046.7 |

Table 5.-Gross Auto Product in Current and Constant Dollars (1.15, 1.16)

| Gross auto product ${ }^{1}$. | Billions of current dollars |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 40.9 | 43.6 | 42.1 | 46.5 | 45.6 | 51.5 | 51.2 | 48.4 |
| Personal consumption expenditures | 35.4 | 39.4 | 38.1 | 41.8 | 41.2 | 45.1 | 44.6 | 44.4 |
| Producers' durable equip- | 6.3 | 7.0 | 6.7 | 7.4 | 7.3 | 8.0 | 7.9 | 7.8 |
| Change in dealers' auto inventories. | 1.4 | -. 5 | -. 4 | -. 8 | -. 4 | . 9 | 1.2 | -. 6 |
| Net exports. | -2.6 | -2.7 | -2.8 | -2.3 | -2.9 | -2.8 | -2.9 | -3.7 |
| Exports. | 2.5 | 3.0 | 2.8 | 3.2 | 3.3 | 3.6 | 3.6 | 4.1 |
| Imports. | 5.1 | 5.7 | 5.6 | 5.4 | 6.2 | 6.4 | 6.5 | 7.8 |
| Addenda: |  |  |  |  |  |  |  |  |
| New cars, domestic ${ }^{2}$ New cars, foreign | 35.7 | 37.9 | 36.9 | 40.3 | 39.5 | 44.0 | 44.8 | 43.3 |
|  | 7.8 | 8.6 | 8.2 | 8.8 | 9.4 | 10.6 | 9.8 | 9.7 |
|  | Billions of 1958 dollars |  |  |  |  |  |  |  |
| Gross auto product ${ }^{1}$........... | 36.4 | 39.0 | 37.7 | 41.0 | 41.4 | 46.4 | 45.5 | 42.7 |
| Personal consumption expenditures. | 31.4 | 35.2 | 34.0 | 36.7 | 37.3 | 40.4 | 39.6 | 39.0 |
| Producers' durable equip- | 5.6 | 6.3 | 6.1 | 6.5 | 6.7 | 7.2 | 7.0 | 6.9 |
| Change in dealers' auto inventories. | 1.2 | -. 4 | -. 3 | -. 7 | -. 3 | . 8 | 1.0 | -. 5 |
| Net exports. | -2.3 | -2.4 | -2.4 | -1.9 | -2.6 | -2.4 | -2.5 | -3.2 |
| Exports. | 2.3 | 2.6 | 2.4 | 2.7 | 3.0 | 3.2 | 3.1 | 3.5 |
| Imports..................... | 4.5 | 5.0 | 4.8 | 4.7 | 5.5 | 5.6 | 5.6 | 6.7 |
| Addends: |  |  |  |  |  |  |  |  |
| New cars, domestic ${ }^{2}$ - | 32.4 | 34.6 | 33.5 | 36.2 | 36.7 | 40.6 | 40.7 | 39.1 |
| New cars, foreign... | 7.2 | 7.9 | 7.5 | 8.0 | 8.8 | 9.9 | 9.0 | 8.9 |

1. The gross auto product total includes government purchases.
2. Differs from the gross auto product total by the markup on both used cars and foreign ${ }_{p}$ Preliminary.

| 1971 | 1972 | 1972 |  |  | 1973 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | II | III | IV | I | II | III p |
|  |  | Seasonally adjusted at annual rates |  |  |  |  |  |
| Billions of dollars |  |  |  |  |  |  |  |



Table 7.-National Income by Industry Division (1.11)

| All industries, total | 859.4 | 941.8 | 928.3 | 949.2 | 978.6 | 1015.0 | 1038.2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Agriculture, forestry, and fisheries | 26.2 | 30.4 | 30.0 | 29.9 | 32.2 | 34.7 | 35.1 |  |
| Mining and construction. | 53.7 | 59.9 | 59.3 | 60.4 | 61.8 | 64.0 | 65.5 |  |
| Manufacturing | 226.4 | 252.6 | 248.7 | 253.9 | 266.5 | 280.8 | 290.4 |  |
| Nondurable goods | 91.8 | 99.9 | 97.7 | 100.8 | 104, 6 | 107.3 | 109.9 |  |
| Durable goods. | 134.5 | 152.7 | 151.0 | 153.1 | 161.9 | 173.5 | 180.5 |  |
| Transportation. | 32.8 | 36.0 | 35.3 | 36.2 | 37.3 | 38.2 | 38.5 |  |
| Communication | 17.8 | 20.0 | 19.5 | 20.4 | 20.8 | 20.9 | 21.0 |  |
| Electric, gas, and sanitary services | 16.5 | 18.2 | 18.3 | 18.5 | 18.6 | 19.1 | 19.4 |  |
| Wholesale and retail trade.......... | 130.9 | 139.7 | 138.3 | 140.5 | 143.2 | 146.9 | 149.7 |  |
| Finance, insurance, and real estate | 100.1 | 107.9 | 105.7 | 109.2 | 111.6 | 114.2 | 117.3 |  |
| Services.- | 109.8 | 120.1 | 119.0 | 121.8 | 123.9 | 128.4 | 131.4 |  |
| Government and government enterprises. | 138.2 | 149.5 | 147.6 | 150.7 | 153.9 | 158.6 | 160.9 |  |
| Rest of the worl | 7.0 | 7.5 | 6.8 | 7.6 | 8.7 | 9.1 | 8.9 |  |



| 1971 | 1972 | 1972 |  |  | 1973 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | II | III | IV | I | II | III D |
|  |  | Seasonally adjusted at annual rates |  |  |  |  |  |
| Billions of dollars |  |  |  |  |  |  |  |

Table 9.—Gross Corporate Product ${ }^{1}$ (1.14)

| Gross corporate product | 586.7 | 644.3 | 637.1 | 648.6 | 670.1 | 695.4 | 713.0 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital consumption allowances. | 60.4 | 65.9 | 66.2 | 66.0 | 68.0 | 69.3 | 70.5 | 71.9 |
| Indirect business taxes plus transfer payments less subsidies. | 57.7 | 60.8 | 60.2 | 61.2 | 62.5 | 64.3 | 65.2 | 66.3 |
| Income orlginating in corporate business. | 468.6 | 517.6 | 510.7 | 521.4 | 539.5 | 561.9 | 577.3 |  |
| Compensation of employ | 389.2 | 428.9 | 424. 6 | 432.4 | 444.6 | 461.6 | 473.4 | 485.0 |
| Wages and salaries. | 340.9 | 373.8 | 370.0 | 376. 7 | 387.6 | 398.3 | 408.7 | 418.9 |
| Supplements...... | 48.4 | 55.1 | 54.6 | 55.6 | 56.9 | 63.3 | 64.6 | 66.0 |
| Net interest. | 5.0 | 3.8 | 3.8 | 3.8 | 3.7 | 3.7 | 3.7 | 3.8 |
| Corporate profts and inventory valuation adjustment............ | 74.4 | 84.9 | 82.3 | 85.2 | 91.2 | 96.6 | 100.2 |  |
| Profits before tax................... | 79.3 | 91.8 | 89.1 | 92.2 | 98.6 | 111.9 | 121.3 |  |
| Profts tax liability | 37.4 | 42.7 | 41.4 | 42.9 | 45.9 | 52.7 | 57.4 |  |
| Profits after tax. | 41.8 | 49.1 | 47.7 | 49.3 | 52.7 | 59.2 | 63.9 |  |
| Dividends........-. | 22.3 19.6 | 23.3 | 23.4 | 23.5 | 23.0 29.7 | ${ }_{35,6}^{23.6}$ | 24.1 <br> 39. |  |
| Undistributed profits.......... | 19.6 -4.9 | 25.8 | 24.3 <br> -6.7 | 25.9 -6.9 | 29.7 -7.3 | 35.6 | 39.8 -21.1 | -17.0 |
| Cash flow, gross of dividends | 102.2 | 115.0 | 113.8 | 115.4 | 120.7 | 128.5 | 134.4 |  |
| Cash flow, net of dividends | 80.0 | 91.7 | 90.5 | 91. 9 | 97.7 | 104. 9 | 110.3 |  |
| Groes product originating in financial institutions. | 32.6 | 35.4 | 35.1 | 35.7 | 36.8 | 38.7 | 40.5 |  |
| Groes product originating in nonfinancial corporatione | 554.1 | 608.9 | 601,9 | 612.9 | 633.2 | 656.7 | 672 |  |
| Capital consumption allowances. | 58.1 | 63.2 | 63.5 | 63.3 | 65.2 | 66. | 67. | 68.8 |
| Indirect business taxes plus transfer payments less subsidies. | 55.1 | 58.0 | 57.4 | 58.4 | 59.6 | 61.3 | 62.2 | 63.2 |
| Income originating in nonfinancial corporations. | 440.9 | 487.7 | 481.0 | 491.3 | 508.4 | 529.1 | 542.8 |  |
| Compensation of employees. | 365.3 | 403.0 | 398.8 | 406.1 | 417.8 | 434.1 | 445.4 | 456.5 |
| Wages and salaries. | 320.3 | 351.5 | 347.8 | 354. 1 | 364. 6 | 375.0 | 384.9 | 394.6 |
| Supplements. | 45.0 | 51.5 | 51.0 | 51.9 | 53.2 | 59.2 | 60.5 | 61.8 |
| Net interest. | 16.5 | 17.4 | 17.2 | 17.5 | 17.9 | 18.2 | 18.6 | 19.0 |
| Corporate profits and inventory valuation adjustment. | 59.2 | 67. 3 | 65.0 | 67.7 | 72.7 | 76.8 | 78.8 |  |
| Profts before tax ................... | 64.1 | 74.3 | 71.7 | 74.6 | 80.0 | 92.1 | 99.9 |  |
| Profts tax liability | 29.7 | 35.0 | 33.8 | 35.2 | 37.8 | 44.3 | 48.2 |  |
| Profits after tax | 34.4 | 39.2 | ${ }^{37.9}$ | 39.4 | 42.2 | 47.8 | 51.7 |  |
| Dlvidends. | 20.3 | 21.2 | 21.3 | 21.4 | 20.9 | 21.4 | 21.9 |  |
| Undistributed profits | 14.1 | 18.1 | 16. 6 | 18.1 | 21.2 | 26.4 | 29.8 |  |
| Inventory valuation adjustment. | -4.9 | -6.9 | -6. 7 | -6.9 | -7.3 | $\|-15.4\|$ | -21.1 | -17.0 |
| Cash flow, gross of dividends | 92.5 | 102.5 | 101.5 | 102.7 | 107.3 | 114.1 | 119.2 |  |
| Cash flow, net of dividends.. | 72.2 | 81.3 | 80.2 | 81.4 |  |  | 97.3 |  |
|  | Billions of 1958 dollars |  |  |  |  |  |  |  |
| Gross product originating in nonfinancial corporations. | 442.7 | 475.5 | 471.9 | 477.8 | 489.8 | 503.4 | 509.6 |  |
|  | Dollars |  |  |  |  |  |  |  |
| Current dollar cost per unit of 1958 dollar grobs product originating in nonfinancial corporations ${ }^{2}$ $\square$ | 1. 252 | 1. 281 | 1. 276 | 1. 283 | 1. 293 | 1. 305 | 1. 320 | ...... |
| Capital consumption allow ances....... Indirect business taxes plus transfer | 31 | 133 | 5 | 132 | . 133 | . 132 | . 132 |  |
| payments less subsidies... | . 125 | . 122 | . 122 | . 122 | . 122 | . 122 | . 122 |  |
| Compensation of employees. | ${ }^{832}$ | . 847 | . 845 | ${ }_{037}$ | . 837 | . 836 | . 037 |  |
| Corporate profits and inventory valuation adjustment. | . 134 | . 142 | . 138 | . 142 | . 148 | . 152 | . 155 |  |
| Profits tax liability | . 067 | . 074 | . 072 | . 074 | . 077 | . 088 | . 095 |  |
| Profits after tax plus inventory valuation adjustment. | . 067 | . 068 | . 066 | . 068 | . 071 | . 064 | . 060 |  |

1. Excludes gross product originating in the rest of the world.
2. This is equal to the deflator for gross product of nonfinancial corporations, with the decimal point shifted two places to the left.
3. Personal saving as a percentage of disposable personal income.
preliminary.


Table 10.-Personal Income and its Disposition (2.1)

| Personal income. | 863.5 | 939.2 | 926. 1 | 943.7 | 976.1 | 996.6 | 1019.0 | 1046.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wage and salary disbursements. | 573.3 | 627.8 | 621.1 | 632.7 | 648.7 | 666.7 | 682.6 | 698.9 |
| Commodity-producing industries.- | 206.3 | 226.0 | 223. 7 | 227.3 | 234.8 | 241.6 | 248.6 | 255.3 |
| Manufacturing | 160.5 | 175.9 | 174.0 | 177.0 | 183.7 | 189.1 | 194.8 | 199.2 |
| Distributive industr | 138.3 | 151. 5 | 150.0 | 152.5 | 156.0 | :59.5 | 163.3 | 166.8 |
| Service Industries | 104. 7 | 116. 1 | 114.9 | 117.9 | 120.1 | 123.9 | 126.9 | 130.7 |
| Government | 123.9 | 134.2 | 132.6 | 135.0 | 137.8 | 141.6 | 143.7 | 146.1 |
| Other labor incom | 36.6 | 40.7 | 40.2 | 41,3 | 42.3 | 43.3 | 44.2 | 45.3 |
| Proprietors' income | 68.7 | 74.2 | 73.2 | 74.1 | 77.1 | 80.6 | 81.5 | 85.1 |
| Business and profe | 51.9 | 54.0 | 53.3 | 54.3 | 55.3 | 56.3 | 57.1 | 58.0 |
| Farm | 16.8 | 20.2 | 19.9 | 19.8 | 21.8 | 24.3 | 24.4 | 27.1 |
| Rental income of pers | 24.5 | 24.1 | 22.6 | 24.9 | 24.9 | 24.7 | 24.6 | 25.3 |
| Pividends........... | 25.1 | 26.0 | 25.9 | 26.2 | 26.4 | 26.9 | 27.3 | 25.1 |
| Personal interest incom | 73.0 | 78.0 | 77.4 | 78.6 | 80.3 | 82.7 | 85.6 | 89.0 |
| Transfer paymente. old-age, survivors, disability, and | 93.2 | 103.0 | 99.9 | 101. 1 | 112.0 | 113.6 | 115.7 | 118.7 |
| health insurance benefits........- | 44.5 | 49.6 | 47.3 | 48.0 | 56.4 | 58.3 | 60.0 | 61.7 |
| State unemployment insurance benefits. | 5. 7 | 5. 5 | 6.3 | 5.3 | 4.7 | 4.1 | 4.1 | 4.2 |
| Veterans benefit | 11.2 | 12.7 | 12. 1 | 12.6 | 14.1 | 13.3 | 13.4 | 13.8 |
| Other | 31.8 | 35.1 | 34.1 | 35.2 | 36.8 | 37.8 | 38. 2 | 39.0 |
| Less: Personal contributions for social insurance. | 30.9 | 34.7 | 34.3 | 35. 2 | 35.7 | 41.9 | 42.6 | 43.6 |
| Less: Personal tax and nontax payments. | 117.5 | 142.2 | 140.7 | 142.8 | 147.4 | 145. 1 | 149.3 | 155.8 |
| Equals: Disposable perso | 746.0 | 797.0 | 785.4 | 800.9 | 828.7 | 851.5 | 869.7 | 890.9 |
| Less: Personal outlays. . . . . . . . . . . . . - | 685.8 | 747.2 | 739.5 | 755.1 | 774. 3 | 801.5 | 818.7 | 837.5 |
| Personal consumption expenditures.- | 687.2 | 726.5 | 719.2 | 734.1 | 752.6 | 779.4 | 795.6 | 813.4 |
| Interest paid by consumers.........-- | 17.7 | 19.7 | 19.4 | 20.0 | 20.7 | 21.2 | 22.0 | 23.0 |
| Personal transfer payments to forelgners | 1.0 | 1.0 | . 9 | 1.0 | 1.1 | . 9 | 1.0 | 1.1 |
| Equals: Personal saving | 60.2 | 49.7 | 45.9 | 45.8 | 54.4 | 50.0 | 51.0 | 53.4 |
| Addends: |  |  |  |  |  |  |  |  |
| Disposable personal income: |  |  |  |  |  |  |  |  |
| Total, billione of 1958 dollars. | 554.9 | 577.9 | 571.6 | 579.3 | 595. 1 |  | 604.8 |  |
| Per capita, current dollars. | 3, 603 | 3,816 | 3,765 | 3,831 | 3,955 | 4, 057 | 4,137 | 4,230 |
| Per capita, 1958 dollars | 2,680 | 2,767 | 2,740 | 2,771 | 2,841 | 2, 878 | 2,877 | 2,895 |
| Personal saving rate, ${ }^{3}$ percent | 8.1 | 6.2 | 5.8 | 5.7 | 6.6 | 5.9 | 5.9 | 6.0 |

Table 11.-Personal Consumption Expenditures by Major Type (2.3)

| tures | 667.2 | 726.5 | 719.2 | 734.1 | 752.6 | 779.4 | 795.6 | 813.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Durable good | 103.6 | 117.4 | 115.1 | 120.2 | 122.9 | 132.2 | 132.8 | 132.1 |
| Automobiles and parts | 46.6 | 52.8 | 51.2 | 55.0 | 55.7 | 60.5 | 59.7 | 58.9 |
| Mobile homes. | 3.3 | 4.1 | 4.2 | 3.7 | 4.4 | 5.0 | 5.0 | 4.3 |
| Furniture and household equipment | 42.1 | 48. 1 | 47.3 | 48.6 | 50.0 | 53.7 | 54.4 | 54.6 |
| Other | 14.9 | 16. 5 | 16.6 | 16.6 | 17.3 | 18.0 | 18.6 | 18.5 |
| Nondurable goods | 278.7 | 299.9 | 297.9 | 302.3 | 310.7 | 322.2 | 330.3 | 340.8 |
| Food and beverages | 136.6 | 145. 3 | 144. 7 | 146.5 | 149.1 | 154. 7 | 158.1 | 164.4 |
| Clothing and shoes | 57.0 | 62.3 | 61.7 | 62.9 | 65. 1 | 68.3 | 69.3 | 70.1 |
| Gasoline and oil | 23.5 | 25. 5 | 25.0 | 25.8 | 26.6 | 27.5 | 28.8 | 29.4 |
| Other | 61.5 | 66.8 | 66.6 | 67.2 | 70.0 | 71.7 | 74.2 | 76.9 |
| Services. | 284.9 | 309.2 | 306.2 | 311.6 | 319.0 | 325.0 | 332.6 | 340.5 |
| Housing | 98.5 | 105.5 | 104.7 | 106.3 | 107.9 | 110.6 | 113.3 | 115.9 |
| Household oper | 39.7 | 43.8 | 43.2 | 44.5 | 45.7 | 46.5 | 47.1 | 48.7 |
| Transportation | 20.4 | 21.8 | 21. 7 | 21.8 | 22.2 | 22.8 | 23.2 | 23.7 |
| Other | 126.3 | 138.0 | 136.6 | 138.9 | 143.1 | 145. 1 | 149.0 | 152.2 |

Table 12.-Foreign Transactions in the National Income and Product Accounts (4.1)

| Receipts from foreigners. | 67.0 | 74.2 | 70.6 | 74.7 | 80.4 | 89.7 | 97.2 | 102.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exports of goods and services. | 66.3 | 73.5 | 69.9 | 74.0 | 79.7 | 89.7 | 97.2 | 102.7 |
| Capital grants received by the United States. | 7 | . 7 | . 7 | . 7 | . 7 | . 0 | 0 | 0 |
| Payments to foreigners | 67.0 | 74.2 | 70.6 | 74.7 | 80.4 | 89.7 | 97.2 | 102.7 |
| Imports of goods and services | 65.5 | 78.1 | 75.6 | 77.7 | 83.2 | 89.7 | 94.4 | 98.8 |
| Transters to foreigners. | 3.6 | 3.7 | 3.8 | 3.8 | 3.5 | 3.0 | 3.3 | 3.5 |
| Personal. | 1.0 | 1.0 | 9 | 1.0 | 1.1 | 9 | 1.0 | 1.1 |
| Government | 2.6 | 2.7 | 2.8 | 2.8 | 2.5 | 2.1 | 2.3 | 2.5 |
| Net foreign investment. | -2.1 | -7.6 | -8.7 | -6.9 | -6.3 | -3.0 | -. 5 | 4 |



Table 13.—Federal Government Receipts and Expenditures (3.1, 3.2)

| Federal Government receipte. | 198.9 | 228.7 | 225.4 | 229.6 | 236.9 | 253.6 | 262.4 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Personal tax and nontax receipts.... | 89.9 | 107.9 | 106.6 | 108.1 | 111.3 | 108.5 | 111.4 | 116.8 |
| Corporate profits tax accruals. ...... | 33.3 | 37.8 | 36.7 | 38.0 | 40.7 | 46.6 | 50.8 |  |
| Indirect business tax and nontax |  |  |  |  |  |  |  |  |
| accruals | 20.4 | 19.9 | 19.7 | 19.9 | 20.3 | 20.7 | 21.2 | 20.9 |
| Contributions for social insurance | 55.2 | 63.0 | 62.4 | 63.6 | 64.6 | 77.8 | 79.1 | 80.8 |
| Federal Government expenditures | 221.0 | 244.6 | 244.4 | 237.0 | 260.3 | 258.6 | 262,4 | 265. 7 |
| Purchases of goods and | 98.1 | 104.4 | 106.7 | 102.3 | 102.7 | 105.5 | 107.3 | 107.1 |
| National defense | 71.6 | 74.4 | 76.6 | 71.9 | 72.4 | 74.3 | 74.2 | 73.6 |
| Other | 26.5 | 30.1 | 30.1 | 30.4 | 30.3 | 31.2 | 33.1 | 33.5 |
| Transfer payment | 74.9 | 82.9 | 80.1 | 80.8 | 91.0 | 91.8 | 93.8 | 96.7 |
| To persons. | 72.3 | 80.1 | 77.3 | 78.0 | 88.5 | 89.7 | 91.5 | 94.2 |
| To foreigners (net) | 2.6 | 2.7 | 2.8 | 2.8 | 2.5 | 2.1 | 2.3 | 2.5 |
| Grants-in-aid to State and local governments. | 29.1 | 37.7 | 38.0 | 34.4 | 46.1 | 41.1 | 40.5 | 40.5 |
| Net interest paid. | 13.6 | 13.5 | 13.6 | 13.4 | 13.7 | 14.7 | 15.6 | 16.2 |
| Subsidies less current surplus of government enterprises. | 5.3 | 6. 1 | 5. 9 | 6.2 | 6.7 | 5.5 | 5.1 | 5. 2 |
| Subsidies. | 3.9 | 5. 5 | 5. 1 | 6.1 | 6.1 | 4.6 | 3.9 | 3.8 |
| Current surplus..........-........... | -1.4 | $-.6$ | $-.8$ | -. 1 | $-.6$ | -. 9 | -1.2 | -1.5 |
| Less: Wage accruals less disbursements. | . 0 | . 0 | -. 1 | . 0 | . 0 | . 0 | -. 1 |  |
| Surplus or deficit ( - ), national income and product accounts. | -22.2 | -15.9 | -19.0 | -7.4 | -23.4 | -5.0 | . 0 |  |

Table 14.—State and Local Government Receipts and Expenditures (3.3, 3.4)

State and local government receipts...
Personal tax and nontax receipts. Corporate profits tax accruals....... accruals...................................... Federal grants-in-aid..
State and local government expenditures....
Purchases of goods and services.
Transfer payments to persons
Net interest paid.....--.-.-.-.-.-.-.
Subsidies less current surplus of subsidies less current surplus of government enterprises

Current surplus
Less: Wage accruals less disburse-ments...-......................................
Surplus or deficit ( - ), national income and product accounts...

Table 15.-Sources and Uses of Gross Saving (5.1)

| Gross private axving. | 171.9 | 174.2 | 170.0 | 170.3 | 186.0 | 181.5 | 183.0 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Personal saving | 60.2 | 49.7 | 45. 9 | 45.8 | 54.4 | 50.0 | 51.0 | 53.4 |
| Undistributed corporate profits. | 22.5 | 29.3 | 27.5 | 29.4 | 33.9 | 40.0 | 44.2 |  |
| Corporate inventory valuation adjustment | -4.9 | -6.9 | -6.7 | -6.9 | -7.3 | -15. 4 | -21.1 | -17.0 |
| Corporate capital consumption allowances. $\qquad$ | 60.4 | 65.9 | 66.2 | 66.0 | 68.0 | 69.3 | 70.5 | 71.9 |
| Noncorporate capital consumption allowances. | 33.4 | 36.5 | 37.5 | 36.3 | 37.1 | 37.7 | 38.6 | 38.8 |
| Wage accruals less disbursements...- | 4 | $-.3$ | -. 2 | -. 2 | . 0 | . 0 | $-.1$ | . 0 |
| Government aurplus or deficit ( - ), national incomeand productaccounts. | -18.1 | -2.8 | -3.9 | 2.0 | $-3.8$ | 8.9 | 11.6 |  |
| Federal. | -22.2 | -15.9 | -19.0 | -7.4 | -23.4 | -5. 0 | 0 |  |
| State and local | 4.0 | 13.1 | 15.2 | 9.5 | 19.6 | 13.9 | 11.5 |  |
| Capital grants received by the United States | 7 | . 7 | . 7 | . 7 | . 7 | . 0 | .0 | . 0 |
| Grose investment | 151.1 | 170.6 | 165.9 | 174.7 | 183.1 | 191.5 | 197.7 | 207.2 |
| Gross private domestic investment.- | 153.2 | 178.3 | 174. 7 | 181.5 | 189.4 | 194. 5 | 198.2 | 206.7 |
| Net foreign investment.. | -2.1 | $-7.6$ | -8.7 | $-6.9$ | -6.3 | -3.0 | $-.5$ | . 4 |
| Statistical discrepanc | -3.4 | -1.5 | -1.0 | 1.6 | . 2 | 1.1 | 3.2 |  |

${ }^{5}$ Preliminary

| 1971 | 1972 | 1972 |  |  | 1973 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | II | III | IV | I | II | IIIp |
|  |  | Seasonally adjusted |  |  |  |  |  |
| Index numbers, $1958=100$ |  |  |  |  |  |  |  |

Table 16.-Implicit Price Deflators for Gross National Product (8.1)

| Gross national pre |  |  |  |  |  |  | 152.46 | 154.94 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Personal consumption expenditur | 134.4 | 137. | 7.4 | 138.2 | 139.2 | 141.0 | 143.8 | 146.1 |
| Durable goods | 112.3 | 112.8 | 112.9 | 113.5 | 112.5 | 113.0 |  |  |
| Nondurable goods. | 131.7 | 135.7 | 135.0 | ${ }^{136.0}$ | 137.6 | 140.8 | 144.8 |  |
| Services. | 148.0 | 153 | 152.5 | 153.5 | 155.3 | 157.0 | 159.0 | 160.7 |
| Gross private domeatic investment. |  |  |  |  |  |  |  |  |
| Fixed investment | $\left\|\begin{array}{l} 140.1 \\ 137.3 \end{array}\right\|$ | 145.7 |  | 146.3 | 147.6 | 149.7 | 152.7 | 154.5 |
| Nonresidentia |  | 141.3 | 141.1 |  | 142.1 | $\begin{aligned} & 143.5 \\ & 190.0 \end{aligned}$ | 146.5 | 148.2 |
| Structures |  | 128.0 | 180.4 <br> 125 <br> 1 | $\left.\begin{array}{\|c\|} 182.2 \\ 126.8 \end{array} \right\rvert\,$ | ${ }_{126.3}^{186}$ |  | 193.3 |  |
| Producers dura | 168.4 <br> 124 <br> 1 |  |  |  |  | $\begin{aligned} & 190.7 \\ & 12688 \end{aligned}$ |  |  |
| Residential Nontarm | $\begin{aligned} & 147.5 \\ & 147.5 \\ & 141.9 \end{aligned}$ | $\begin{aligned} & 156.3 \\ & \hline 156.4 \\ & 150.4 \\ & \hline 150.8 \end{aligned}$ | 154.4 154.5 <br> 149.0 | $\begin{aligned} & 107.0 \\ & \begin{array}{l} 157 \\ 151.5 \end{array} \\ & \hline 15 \end{aligned}$ | $\begin{aligned} & \text { 101.2 } \\ & 161.2 \\ & 156.0 \end{aligned}$ | $\begin{aligned} & 125.6 \\ & 165.6 \\ & 159 \\ & 159 \end{aligned}$ | 168.6168.6 162.7 | 171.6171.7165.9 |
| Far |  |  |  |  |  |  |  |  |
| ang |  |  |  |  |  |  |  |  |
| Net exports of goods and |  |  |  |  |  |  |  |  |
|  | $\left\|\begin{array}{c} 125.7 \\ 125.0 \end{array}\right\|$ | 133.2 | 133.2 | ${ }^{1350.7}$ | 1337.78 | 1414.8 | 145.95 | 155.4162.7 |
| Imports. |  |  |  |  |  |  |  |  |
| Government purchases of goods and services. | 169.2 | 178.3 | 176.6 | 179.6 | $\begin{array}{\|c\|} \hline 181.6 \\ 175.5 \end{array}$ | $\begin{aligned} & 186.0 \\ & 181.2 \end{aligned}$ | 9.6 | 192.5186.8196.1 |
|  |  |  |  |  |  |  |  |  |
| and ioca | 175.8 |  | 181.9 | 183.7 | 185.9 | 189.2 | 193.1 |  |

Table 17.-Implicit Price Deflators for Gross National Product by Major Type of Product (8.2)

| Grose national product | 141.60 | 146. 10 | 145. 42 | 146.42 | 147.63 | 149.81 | 152.46 | 151.94 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Final sales. | 141.8 | 146.2 | 145.5 | 146.6 | 147.8 | 149.9 | 152.5 | 155.0 |
| Goods output | 125.5 | 127.7 | 127.3 | 128.1 | 128.6 | 130.4 | 133.1 | 136.0 |
| Durable goods. | 118.5 | 119.0 | 118.9 | 1195 | 118.8 | 119.2 | 120.5 | 121.9 |
| Nondurable goods. | 130.4 | 134.4 | 133.5 | 134.6 | 136. 4 | 139.6 | 143.7 | 147.7 |
| Services. | 159.7 | 166.5 | 165.9 | 167.0 | 168.6 | 171.3 | 173.5 | 175.3 |
| Structures. | 160.4 | 170.6 | 168.6 | 170.9 | 175.4 | 180.1 | 183.6 | 186.3 |
| Addendum: Grose auto product | 112.4 | 111.7 | 111.9 | 113.4 | 110.1 | 111.1 | 112.6 | 113.4 |

Table 18.-Implicit Price Deflators for Gross National Product by Sector (8.4)

| Gross national product | 141.60 | 146.10 | 145.42 | 146. 42 | 147.63 | 149.81 | 152.46 | 154.94 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Private. | 135.88 | 139.78 | 139, 12 | 140.07 | 141.27 | 143.25 | 145.88 | 148.34 |
| Business | 134.4 | 138.0 | 137.4 | 138.3 | 139.5 | 141.4 | 143.9 | 146.3 |
| Nonfarm | 135. 1 | 138.0 | 137.5 | 138.1 | 139.1 | 140.5 | 142.4 | 143.9 |
| Farm. | 117.1 | 139.5 | 134.8 | 143.6 | 151.3 | 167.6 | 193.0 | 231. 4 |
| Households and institutions. | 198.9 | 212.1 |  |  |  |  |  |  |
| Rest of the world. |  |  |  |  |  |  |  |  |
| General government | 206.2 | 221.5 | 220.8 | 222.6 | 224.6 | 230.8 | 233.9 | 237.1 |
| Federal | 206.6 | 230.5 | 229.9 | 231.4 | 232.6 | 243.2 | 244.3 | 246.2 |
| State and local | 206.0 | 216.5 | 215.6 | 217.8 | 220.2 | 224.2 | 228.4 | 232.4 |

Table 19.-Gross National Product: Change from Preceding Period (7.7)

| Gross national product; Current dollars. | Percent |  | Percent at annual rate |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8.03.24.75.1 | $\begin{aligned} & 9.4 \\ & 6.1 \\ & 3.2 \\ & 3.6 \end{aligned}$ | $\begin{gathered} 11.2 \\ 9.5 \\ 1.6 \\ 2.6 \end{gathered}$ | $\begin{aligned} & 8.7 \\ & 5.8 \\ & 5.8 \\ & 3.8 \end{aligned}$ | $\begin{array}{r} 11.7 \\ 8.1 \\ 3.3 \\ 8.3 \end{array}$ | 15.28.76.17.1 | 9.9.97.47.3 | 10.43.66.76.9 |
|  |  |  |  |  |  |  |  |  |
| Implicit priece deflator |  |  |  |  |  |  |  |  |
| Gross private product; |  |  |  |  |  |  |  |  |
| Current dollars | 7.9 | 9.6 | 12.1 | 8.7 | 12.2 | 15.5 | 10.3 | ${ }_{3}^{10.9}$ |
| Constant dollars | 3.5 4 4 | ${ }_{2}^{6.5}$ | 1 | 5.8 | 8. ${ }^{8}$ | 5.7 | 7.6 | ${ }_{6} 6.9$ |
| Chpicin price index.-.----. | 4 | 3.1 | 2.2 | 3.2 | 3.9 | 6.5 | 7.2 | \% 1 |

# Regional and State Personal Income: Second Quarter Developments 

Table A.-Percent Change in Total Personal Income and Income Excluding Selected Components, I-1973-1I-1973


[^4]Note.-The quarterly estimates of State personal income were prepared in the Regional Economics Division by Steven E. Johnson under the supervision of Q. Francis Dallavalle.

PPersonal income rose from the first to the second quarter of 1973 in all eight regions and in 41 States. The national increase was $23 / 4$ percent. The increase was at least as large as that in four regions (Great Lakes, Rocky Mountain, Southeast, and New England) and in 19 States. It ranged from $11 / 2$ to 2 percent in the Plains and Southwest regions and in 11 States, and was well below average (less than $11 / 2$ percent) in the Far West and Mideast and in another 11 States. In three States income was little changed, and in six States and the District of Columbia it was off moderately.

Consumer prices, as measured by the implicit price deflator for personal consumption expenditures, rose 2 percent in the second quarter. For the Nation as a whole, therefore, the rise in personal income kept pace with the price rise.

For the Nation as a whole, gains in most major income components were between $11 / 2$ and 3 percent, fairly close to the increase in total personal income, but rental income and farm proprietors' earnings were about unchanged. The rise in these components was held back by losses in floods on the Mississippi River and its major tributaries in the spring of 1973, and by the termination of Government assistance payments to homeowners and businesses which had suffered losses in Tropical Storm Agnes in June. 1972. These payments had been substantial in the first quarter of 1973. The impact of their termination was most evident in Pennsylvania, where rental income fell more than 20 percent, and New York, where it fell more than 5 percent.

[^5]Table 1.-Total Personal Income, by States and Regions
[Militions of dollars, seasonally adjusted at annual rates]

| State and Region | 1970 |  |  |  | 1971 |  |  |  | 1972 |  |  |  | 1973 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | I | II | III | IV | I | II | III | IV | I | II | III | IV | I | II |
| United States | 781,227 | 802,611 | 812,035 | 818,211 | 835, 032 | 854,596 | 865, 386 | 879,468 | 906, 704 | 922, 373 | 939,937 | 972, 386 | 993, 063 | 1,015,640 |
| New England. | 49,381 | 50,642 | 51,461 | 51,701 | 52,129 | 53,235 | 54, 259 | 54, 375 | 55,809 | 56,822 | 57,681 | 59,866 | 60,578 | 62, 208 |
| Maine | 3,160 | 3,248 | 3,287 | 3,326 | 3,308 | ${ }^{3,378}$ | 3,450 3,045 | 3,492 3,068 | 3,594 3,148 | 3,670 | 3,738 | 3,857 <br> 3,424 <br> 1 | 3,832 <br> 3,423 | 4,078 3 3 |
| New Hampsh | 2,718 | 2,782 1,475 | 1, 2,807 | 1,518 | 1,566 | 1,589 | 3,045 1,622 | 1,641 | 1, ${ }^{3} 148$ | 1, ${ }^{3}, 680$ | 3,729 <br> 18 | -3,771 | 1,793 | 3, 1,849 |
| Massachusetts | 24,024 | 24,644 | 25, 086 | 25,170 | 25,496 | 26,020 | 26,499 | 26,507 | 27, 239 | 27,654 | 28,066 | 29,426 | 29,231 | 30, 153 |
| Rhode Island | 3,634 | 3,734 | 3,805 | 3,820 | 3,880 | 3,952 | 4,072 | 4,092 | 4,214 | 4,332 | 4,354 | 4,458 | 4,633 | 4, 722 |
| Connecticut. | 14,414 | 14,758 | 14,985 | 15,055 | 15,026 | 15,342 | 15,572 | 15,575 | 15,977 | 16, 274 | 16,504 | 16,931 | 17,665 | 17,866 |
| Mideast. | 183, 620 | 188,992 | 191, 632 | 193, 144 | 196,871 | 200, 751 | 203,256 | 205, 001 | 210, 560 | 211,724 | 216, 831 | 222, 857 | 228, 452 | 231,399 |
| New York. | 83,703 32,094 | 85,776 <br> 33,208 | 87,084 <br> 33,906 <br>  <br> 1 | 87,717 34,182 | 88,888 35,010 | 90,918 35,572 | 91,614 36,372 | 92,430 36,346 | $\begin{aligned} & 94,695 \\ & 37 \end{aligned}$ $37,271$ | $94,896$ $38,127$ | 96,484 38,825 | $99,048$ $39,950$ | 101,682 40,658 | 102,844 41,408 |
| Pennsylvan | 45, 315 | 46, 513 | 47, 102 | 47,440 | 48, 28i ${ }^{\circ}$ | 49,4E0 | 49,986 | 50,600 | 51,806 | 51,735 | 53,832 | 55,622 | 56,711 | 57,711 |
| Delaware. | 2,397 | 2,474 | 2,475 | 2,516 | 2,619 | 2,655 | 2,689 | 2,771 | 2,821 | 2,893 | 2,973 | 3,039 | 3,161 | 3,164 |
| Maryland | 16,247 | 16,920 | 17,022 | 17, 234 | 17,788 | 17, 846 | 18, 224 | 18,459 | 19,348 | 19,471 | 20,015 | 20,376 | 21,231 | 21,329 |
| D.C. | 3,864 | 4,102 | 4,044 | 4,054 | 4,280 | 4,310 | 4,372 | 4,395 | 4,618 | 4,603 | 4,702 | 4,822 | 5,008 | 4,943 |
| Great Lakes. | 162,592 | 165,503 | 168,321 | 167,734 | 172,030 | 177,330 | 178,771 | 182, 589 | 186,446 | 190,717 | 194, 124 | 202, 214 | 203, 931 | 211,378 |
| Michigan | 36,145 | 37,330 | 37,630 | 36, 864 | 38,846 | 39,872 | 40, 276 | 41,328 | 42,458 | 43,669 | 44, 594 | 46,579 | 46,986 | 48,834 |
| Ohio.. | 41, 857 | 42,448 | 43,228 | 43, 129 | 43,870 | ${ }^{45}, 178$ | 45,413 | 46, 242 | 47, 382 | 48,228 | 49,082 | 50, 860 | 51,942 | 53, 516 |
| Indiana | 19,138 | 19,490 | 19,814 | 19,714 | 20,452 | 21,058 | 21, 214 | 21,830 | ${ }_{55}^{22,241}$ | 22,668 | ${ }^{23,215}$ | 24, 282 | 24,748 | 25, 590 |
| Wilinois- | 49,035 16,418 | 49,493 16,742 | 50,657 16,892 | 50,904 17,122 | 51, 17 | 53,589 17,633 | 53, 17 | 54, <br> 18,291 | 55, 18,498 | 57,088 19,064 | 57,904 19,330 | 60,456 20,038 | 59,943 20,312 | 62,432 21,006 |
| Plains. | 60,008 | 61,249 | 61,728 | 62, 201 | 63,095 | 64, 882 | 65,503 | 66,387 | 68,070 | 70,204 | 71,342 | 74,855 | 76, 558 | 77,762 |
| Minnesota | 14,361 | 14,720 | 14,809 | 14,946 | 15,092 | 15,498 | 15,699 | 15,776 | 16,097 | 16,517 | 16,770 | 17,598 | 18,000 | 18,473 |
| Iowa- | 10,600 | 10,626 | 10,585 | 10,622 | 10,638 | 11,017 | 11,148 | 11, 201 | 11,845 | 12, 234 | 12,230 | 13, 274 | 13, 226 | 13, 804 |
| Missouri | 17,314 | 17,564 | 17,856 | 17,995 | 18,489 | 18,816 | 18,968 | 19,267 | 19,597 | 20,361 | 20,555 | 21, 098 | 21,458 | 21,766 |
| North Dakota | 1,879 | 1,909 | 1,934 | 1,991 | 2,097 | 2,315 | 2,133 | 2,184 | 2,292 | 2,125 | 2,426 | 2, 606 | 2,634 | 2,682 |
| South Dakota | 2,042 | 2, 138 | 2, 058 | 2,084 | 2, 139 | ${ }_{5}^{2,183}$ | 2,284 | 2,285 | 2,386 | 2,487 | 2,500 | 2,674 | 2,624 7 7 | 2,679 |
| Nebraska | 5,474 8,337 | 5,635 8,657 | 5,712 8,774 | 5,791 | 5,797 8,843 | 5,1406 9,147 | 6,094 $\mathbf{9 , 1 7 6}$ | 6,094 9,580 | 6,340 9,512 | 6,522 9,959 | r $\begin{array}{r}\text { 6, } 672 \\ 10,188\end{array}$ | 7,031 10,574 | 7,124 10,901 | 711,123 |
| Southeast. | 136,595 | 141,377 | 142,840 | 145,490 | 149,363 | 152, 881 | 155,826 | 159,096 | 165,670 | 169,017 | 173,454 | 179, 169 | 179,931 | 185,302 |
| Virginia | 16,376 | 16,978 | 17, 271 | 17,373 | 17,874 | 18,471 | 18,637 | 18,990 | 19,850 | 20,014 | 20,760 | 21, 289 | 21,746 | 22, 20 |
| West Virginia | 5,113 | 5,255 | 5,358 | 5,553 | 5,623 | 5,805 | 5, 904 | 5,803 | 6,245 | 6, 272 | 6,465 | 6,625 | 6,715 | 6,796 |
| Kentucky | ${ }^{8,593}$ | 9,946 | 10,181 | 10,311 | 10,622 | 10,761 | 10, 898 | 11,098 | 11,421 | 11,747 | 11,988 | 12,465 | 13,040 | 13,095 |
| Tennessee | 11,714 | 12,015 | 12, 223 | 12,520 | 12,818 | 13,226 | 13,404 | 13,743 | 14, 208 | 14, 614 | 14,917 | 15,446 | 15,639 | 16,174 |
| North Carolina | 15,900 | 16,356 | 16,542 | 16,736 | 17,064 | 17,553 | 17,995 | 18,212 | 19,351 | 19,526 | 19,851 | 20, 508 | 20, 298 | 21,554 |
| South Caroli | 7,491 14.853 | 7,696 15,303 | 7,712 15,216 | 7,866 15,706 | 8,014 $\mathbf{1 6 , 0 1 5}$ | 8,268 16,476 | - 8,452 | +17,247 | $\begin{array}{r}8,977 \\ \mathbf{1 7} 846 \\ \hline\end{array}$ | 9,051 18,058 | 9,394 $\mathbf{1 8 , 6 5 6}$ | $\begin{array}{r}9,647 \\ 19,243 \\ \hline\end{array}$ | 9,806 18,996 | 10,200 19,547 |
| Florida. | - 14,8883 | - ${ }_{\text {25, }}$ | - ${ }_{\text {25, }} \mathbf{7 3 1}$ | - | -16,962 | 16,476 27,713 | 16,790 28,239 | 17,247 <br> 29,254 <br> 18 | 17,846 <br> 30,146 | 18,058 | $\begin{array}{r}18,656 \\ 32 \\ \hline\end{array}$ | $\begin{array}{r}19,243 \\ 33 \\ \hline\end{array}$ | 18,996 32,436 | 19,547 |
| Alabama | 9,812 | 10,080 | 10, 119 | 10, 200 | 10,572 | 10,820 | 11,032 | 11,327 | 11,710 | 11,782 | 12,069 | 12,454 | 12,741 | 12,934 |
| Mississippi | 5,466 | 5,790 | 5,828 | 5,929 | 6,210 | 6,083 | 6,356 | 6,462 | 6, 874 | 6,965 | 7,140 | 7,418 | 7,562 | 7,330 |
| Louisiana. | 10,789 | 11,149 | 11, 286 | 11,495 | 11,810 | 11, 944 | 12,104 | 12,353 | 12,597 | 13,063 | 13, 332 | 13,726 | 13,886 | 13,982 |
| Arkansas. | 5,216 | 5,572 | 5,575 | 5,744 | 5,778 | 5,760 | 6,016 | 6,096 | 6,446 | 6, 675 | 6,631 | 6,873 | 7,065 | 7,180 |
| Southweat. | 56,420 | 58,806 | 59,038 | 59,882 | 60,784 | 61,683 | 62,395 | 63,905 | 67, 106 | 67,754 | 68,610 | 70,801 | 74,115 | 75,473 |
| Oklahoma | 8, 198 | 8, 616 | 8,753 | 8,903 | 8,874 | 9,119 | 9,084 | 9,358 | 9,700 | 9,895 | 10, 112 | 10,274 | 10,476 | 11,058 |
| Texas | 38,893 | 40, 523 | 40, 331 | 41,012 | 41, 670 | 41,946 | 42,474 | 43, 320 | 45, 732 | 46,031 | 46, 255 | 47,926 | 50, 314 | 50, 949 |
| New Meri | 3,047 | 3,188 | 3,196 | 3, 260 | 3,312 | 3,410 | 3,447 | 3,512 | 3,685 | 3,730 | 3,826 | 3,940 | 4,292 | 4, 239 |
| Arizona | 6,282 | 6,478 | 6, 559 | 6,707 | 6,928 | 7,208 | 7,390 | 7,715 | 7,990 | 8,098 | 8,417 | 8,661 | 9,032 | 9,228 |
| Rocky Mountain | 17,677 | 17,816 | 18,309 | 18,397 | 18,912 | 19,433 | 19,796 | 20,462 | 21,065 | 21,905 | 22,313 | 23,538 | 23,568 | 24,410 |
| Montana | 2,362 | 2,446 | 2,464 | 2,481 | 2,482 | 2,510 | 2,528 | 2,596 | 2,736 | 2,892 | 2,861 | 3,011 | 3,022 | 2,997 |
| Idaho.- | 2,305 | ${ }^{2,318}$ | 2,373 | 2,410 | 2,465 | 2,526 | 2,657 | 2,606 | 2,714 | 2,836 | 2,891 | 2,988 | 3,064 | 3,216 |
| Wyoming | 1,252 | 1,259 | 1,262 | 1,298 | 1,281 | 1,286 | 1,319 | 1,344 | 1,453 | 1,462 | 1,494 | 1,566 | 1,699 | 1,639 |
| Colorad | 8,431 | 8,367 | 8,721 | 8,646 | 9,021 | 9, 373 | 9,598 | 10,014 | 10,085 | 10, 588 | 10,848 | 11,607 | 11, 189 | 11, 991 |
| Utah. | 3,326 | 3,426 | 3,490 | 3, 562 | 3,663 | 3,738 | 3,793 | 3, 003 | 4,077 | 4, 128 | 4,220 | 4,364 | 4, 594 | 4,567 |
| Far West. | 110, 254 | 113, 287 | 113,781 | 114,685 | 116, 631 | 119, 166 | 120,369 | 122, 352 | 126,418 | 128, 596 | 129,884 | 133, 215 | 139,617 | 141,497 |
| Washington <br> Oregon. <br> Nevada <br> California | $\begin{array}{r} 13,460 \\ 7,592 \\ 2,152 \\ 87,050 \end{array}$ | $\begin{array}{r} 13,760 \\ 7,746 \\ 2,194 \end{array}$ | $\begin{array}{r} 13,847 \\ 7,854 \\ 2,176 \\ 89,904 \end{array}$ | 13,8537,869 | 14,1138,181 | 14,3238,383 | 14,4108,509 | 14, 511 | 14,9229,030 | 15,332 | 15,381 | 15,959 | 16,504 | 16,783 |
|  |  |  |  |  |  |  |  |  |  | 9,250 |  |  | 10,362 | 10,334 |
|  | $\begin{array}{r} 27,1020 \\ 87,050 \end{array}$ |  |  | 90,705 | 2,347 | 94,044 | 95, 004 | 96, 604 | 2,594 | 2,660 | 2,667 | 104,730 | 109, 847 | - $\begin{array}{r}\text { 21, } \\ \text { 11,466 }\end{array}$ |
|  |  | 89,587 |  |  | 91,990 |  |  |  | 99, 873 | 101,355 | 102, 443 |  |  |  |
|  | 1,363 | 1,448 | 1,3973,527 | 1,4083,570 | 1,5163,700 | 1,5203,716 | 1,5303,680 | 1,578 | 1,6353,925 | 1,6304,003 | 4,007 | 4,144 | 1,9334,382 | 1,8394,372 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Personal Income, by Census Regions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Addenda: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New England. | 49, 382 | 50,641165,497 | 51,462168,092 | 51,701169,339 | 52,130 | 53,235 | 54,260177,972 | 54,375 | $\begin{array}{r} 55,809 \\ 183,772 \end{array}$ | 56, 822 | $\begin{array}{r}57,682 \\ 189 \\ \hline 141\end{array}$ | 59,867194,620 | 60,577 | 62,208 |
| Middle Atlantic. | 161, 112 |  |  |  | 172,184 | 175,940177,330 |  | 179,376 |  | 184,758190,717 |  |  | 199,051 | 201,963211,378 |
| East North Central | 162, 593 | 165, 503 | 168, 321 | 167, 733 | 172,029 |  | 177,972 |  | 183,772 186,445 |  | 194, 125 | 202, 215 | 203, 931 |  |
| West North Central | 60, 007 |  |  | 113, ${ }^{62} \mathbf{2 0 4}$ | 63,095116,239 | -64, ${ }^{119,097}$ | 65,502121,302 | 66, 387 | 68,069 | 70, 205 |  | 74, 855 |  | 77,763 |
| South Atlantic. | 106,51436,585 | 110,32237,831 | 111,17138,351 |  |  |  |  | 123,643 | 129,202 | 131, 137 | 135,067 | 139, 022 | 139,397 | 144,763 49, 433 |
| East South Central |  |  |  | 38, 960 | 40, 222 | 40, 890 | 41,690 | 42, 630 | 44, 213 | 45, 108 | 46, 114 | 47, 783 | 48,982 | 49, 533 |
| West South Central | 63,096 | 65, 860 | 66, 145 | 67, 154 | 68,13231,499 | 68,769 | 69,678 | 71, 127 | 74, 775 | 75, 664 | 76,330 37 37 | 78,799 38892 | 81,74139,795 | 83,14940,843 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^6] income measure carried in the national income and product accounts since the latter includes revised. Details may not add to totals because of rounding.

# The Shiit to Services and the Rate of Productivity Change 

I. Introduction
Page
Organization of the Article.. ..... 2020
Estimates Used
Output and Productivity"Level" and "intraperiodchange"

The Distribution of EconomyWide Employment Between Commodity-Producing and Service Industries ---.-.--
II. Selected Components of the Economy

General Government, House-
holds, and Institutions...-
Average level and intraperiod change in employment share, 194869 and 1969-80
Consequences of the level of the employment share.-.-.-.---.-. Consequences of intraperiod changes in employment share
Combined effects of level and intraperiod change.Composition of employment within general government, households, and institutions.

Services of Dwellings and Income From Abroad .....

The Farm Share of Business Employment

Reduction in Nonfarm SelfEmployment

Summary of Significant Changes
III. The Internal Composition of Nonfarm Nonresidential Business.-

Composition by Industry
A common misconception about measurement error--.-.-......
Levels of industry employment shares...-. -

Composition of Total Input by End Product

A Fundamental Difficulty With Component Analysis in Domestic Nonresidential Nonfarm Business

Appendix

Part I. Introduction

"EMPLOYMENT in service industries is growing rapidly. Productivity in creases in the services are small. Will not the shift to services therefore retard productivity advance in the economy as a whole?" This question is heard wherever productivity is discussed. It is almost always clear that the inquirer believes the answer to be yes and the amount of retardation to be large.

The question stems from employment data like those shown in table 1. Four industry divisions are called commodity production: agriculture, forestry; and fisheries; mining; contract constuction; and manufacturing. All other industry divisions are called services. The share of the service industries in total employment is then found to have risen from 50 in 1929 and 54 in 1948 to 64 by 1969.

The effect of the "shift to the service industries" upon future productivity growth is explored in this article. The results suggest that the concern about retardation of productivity advance is exaggerated.

Table 1.-Persons Engaged in Production in the Whole Economy: Percentage Distribution Between Commodity-Producing and Service Industries

|  | 1929 | 1948 | 1969 |
| :---: | :---: | :---: | :---: |
| Whole economy. | 100.0 | 100.0 | 100.0 |
| Commodity production. | 50.2 | 46.4 | 36.2 |
| Agriculture, forestry, fisheries........ | 19.9 | 11.9 | 4.3 |
| Mining, manufacturing, construction. | 30.3 | 34.5 | 31.9 |
| Services, | 49.8 | 53.6 | 63.8 |
| Government, government enterprises. | 6.9 | 11. 6 | 18.1 |
| All other.....-............................ | 42.9 | 42.0 | 45.7 |

Source: Computed from Bureau of Economic Analysis data.

## Organization of the Article

Exploration of the question raised is not simple. It requires detailed calculations, review of output measurement practices, various rearrangements of employment data, and discussion of concepts. As will quickly and increasingly become apparent; I believe analysis of future productivity trends is not advanced by simply introducing a twoway division of the economy between "commodity-producing" and "service" industries. The commodity-service distinction will nevertheless be retained throughout the article in order to permit consideration of the question initially posed.

Part II of this article will deal with parts of the economy that have unusual characteristics which make it useful to examine their weights and behavior separately. General government, nonprofit organizations, and private households are in this category both because the net output of each component of this grouping is so measured in the national accounts that productivity cannot change over time and because the value of output in base year prices is confined to employee compensation. Two parts of the economy are of special interest because they provide output with no current use of labor. One is

[^7]the net flow of property income from abroad. The other, much bigger, is the services that are provided by the existing stock of dwellings. Gross housing services appear in personal consumption expenditures as monetary or imputed space rent; I shall mean by the "services of dwellings" the portion of space rent that corresponds to the value added by dwellings themselves. Within the remainder of the economy, which may be called nonresidential business; one industry, farming, requires special consideration. This is because reduction in the overallocation of labor to farming has contributed importantly to past productivity growth and prospects are for a smaller contribution in the future. For similar reasons nonfarm self-employment is of separate interest.

Part III considers the internal composition of nonresidential nonfarm business (other than the importance of self-employment). Within this sector, shifts in the employment shares of commodity-producing and service industries have not changed much nor persistently, and such small changes as have occurred stem from changes in detailed industry composition that have no special implications for future productivity trends. These empirical findings eliminate the shift to the service industries as a factor in the productivity trend within nonresidential business. But I make some more general points. I first argue that the data by industry really are not appropriate for appraisal of future productivity trends in the sector. An end-product classification avoids some problems, and calculations are made which show that, given productivity trends for production of commodities and services, past changes in relative weights of commodities and services could scarcely alter the trend of productivity. I conclude with reasons to believe that examination of past trends for either industry or end-product components can add nothing to an appraisal of future productivity changes in nonresidential nonfarm business that is not obtained by simply dealing with the sector as a whole.

Part III in fact argues both that changes in commodity-service composition of nonresidential business output
would have no implications for future productivity trends even if important changes occurred, and that even if this view is rejected the compositional changes that have occurred would have no implications for future productivity change. This double approach may amount to "overkill" but it permits presentation of data and analytical points that are of broader interest.

## Estimates Used

Bureau of Economic Analysis series for output by sector and for "persons engaged in production" provide most of the data used in this article. Persons engaged in production are the sum of the numbers of full-time equivalent employees and active proprietors of unincorporated businesses. Appendix table A-1 presents detailed data cross-classified by sector and industry for the high employment years 1929, 1948, and 1969. The detail is combined in various ways for the analysis in the article. Use is also made of estimates drawn from two studies by the present writer which, unfortunately, are not yet in print and available for appraisal. ${ }^{1}$ Those for the past are from a new book titled Accounting for United States Economic Growth, 1929 to 1969 , which will be published by The Brookings Institution. Projections for the future are from a paper titled "Sources of Growth Accounting as the Basis for Long-Term Projections." ${ }^{2}$

## Output and Productivity

One cannot consider the effects of the "shift to the services" on productivity without reference to both the numerator and denominator of the productivity calculation. Data limitations force me to be somewhat eclectic in this article.

The numerator, output, can be measured gross or net of depreciation, and the components of a constant-price output series can be valued at either their market prices or their factor cost

[^8]in the base year selected. The choice affects the results. My own preference for growth or productivity analysis is net national product valued at factor cost. That is the series I use in my own studies of growth and that I shall use here whenever possible. Net national product valued at factor cost is usually called "national income" and I shall follow that practice here. The estimates of national income in constant prices are my own (though derived from BEA data) and were prepared for all the segments of the economy listed earlier but not not for detailed industrial or end-product components of nonfarm nonresidential business. In one section I shall use gross national product at market prices as a substitute to examine end-product components of the sector. It must be noted that the effects on output and productivity of some compositional shifts are sensitive not only to the choice of output measure but also to the date selected as the base year for valuation of components of output. I follow BEA in the use of 1958.

As denominator for the calculation of productivity, persons engaged in production will sometimes be used; I shall then refer to "output per person engaged." Alternatively, I shall use total input of labor, capital, and land, with labor input so measured as to take account not only of employment but also of hours worked, the distribution of total hours among age-sex groups, and the distribution of full-time equivalent employment among persons with differing amounts of education; I shall then refer to "output per unit of input." ${ }^{3}$ The estimates are available in the same detail as those for national income in constant prices.

## "Level" and "intraperiod change"

Two aspects of the composition of employment (or any other "input" measure) must often be considered separately, and the distinction will be illustrated now. Suppose some component of employment is 40 percent of the total at the beginning of some time

[^9] from the unpublished studies cited earlier.
period, rises smoothly to 50 percent at the end of that period (so that it averages 45 percent during the period), then again rises smoothly but by smaller increments to 54 percent at the end of the next period (so that it averages 52 percent during the period). The average level of the share will have increased from the first period to the second by 7 percentage points (from 45 percent to 52). The intraperiod rise in the share will have fallen by 6 percentage points from the first period to the second, from 10 points in the first period ( 50 less 40) to 4 in the second ( 54 less 50). To try to ascertain whether employment composition was more or less favorable to productivity growth in the second than in the first period, the effects of both the 7 point increase in average level of employment share and the 6 point decrease in the intraperiod rise in the share must be considered. Failure to considered both aspects may yield a wholly wrong result.

## The Distribution of EconomyWide Employment Between Commodity-Producing and Service Industries

If one wishes to examine whether the economy is shifting toward or away from components that have any particular characteristic-great cyclical sensitivity, high growth, high wages, use of highly educated labor, or whatever it may be-components are best grouped by reference to that characteristic itself. I have yet to find any characteristic, except possibly the holding of inventories, to which a commodity-service classification corresponds at all closely. For example, a classification of industries among five groups in accordance with amount of cyclical fluctuation in national income from 1929 to 1947 showed that com-modity-producing industries and service industries (broadly defined) appeared in all five groups. ${ }^{4}$ Similarly, it is self-evident that a commodityservice breakdown does not provide a classification that distinguishes between industries that have gained or lost

[^10]employment share nor between industries that have high or low rates of productivity advance.
It is necessary to note at the outset what the massive "shift to the services" that is shown by the division of employment data in table 1 really means, for it is only this arrangement of the data that has caused the subject of this paper to receive such great attention.

The statement that the service share of employment has risen from 50 to 64 creates the impressions that barbershops and laundries have replaced manufacturing as the mainstay of the economy and that the shift has been a general one. Actually, agriculture and government determine the result. Employment in the agriculture, forestry, and fisheries industry division fell from 20 percent of the total in 1929 to 4 percent in 1969. Employment in government and government enterprises rose from 7 percent to 18 percent. If employment is divided by any criterion whatsoever or none at all into two parts-let us call them parts $A$ and $B$-and

## Part II. Selected Components of the Economy

This part of the article investigates the segments of the economy, previously enumerated, that I find repay separate consideration. The first seg-ment-general government, households, and institutions-requires the most complex analysis and the most space.

## General Government, Households, and Institutions

Persons engaged in production are divided in table 2 between those employed in nonresidential business, on the one hand, and those employed in general government, households, and institutions (nonprofit organizations primarily serving individuals) on the other. All employment falls into these two categories because there is no employment corresponding to the output of other sectors (the services of dwellings and net property income
agriculture is put in part $A$ while government is put in part $B$, the share of part A will have fallen. To call part A "commodity production" and part B "services" and then refer to a longterm "shift to the services" adds no information.

Note what happens if one simply interchanges agriculture and government. If part $A$ is redefined to include mining, manufacturing, contract construction, and government, and part $B$ to include everything else, the share of part A rises from 37 percent in 1929 to 46 in 1948 and to 50 in 1969. The 13 point increase in the share of part $A$ from 1929 to 1969 is almost the same as the 14 point increase in the share of part $B$ by the usual division.

To divide the whole economy between "commodity-producing" and "service" industries has no analytical utility. Farming must be examined and so must government, but in place of the "government and government enterprises" industrial division a more appropriate grouping of activities-general government, households, and institutions-will be examined.

Table 2.-Persons Engaged in Production in the Whole Economy: Percentage Distribution Between Nonresidential Business and General Government, Households, and Institutions

|  | 1929 | 1948 | 1969 |
| :---: | :---: | :---: | :---: |
| Whole economy | 100.0 | 100.0 | 100.0 |
| Nonresidential business. | 87.0 | 84.2 | 76.5 |
| General government, households, and institutions, total a | 13.0 | 15.8 | 23.5 |
| General government. | 6.0 | 10.4 | 16.5 |
| Military-..... | . 6 | 2.5 | 4.3 |
| Fublic education | - ${ }^{\text {. }} 3$ | 2.4 2.4 | 2. ${ }^{2} 1$ |
| State and local, nonschool | 2.5 | 3.0 | 4.6 |
| Private housholds.. | 5.1 | 2.7 | 1.7 |
| Nonprofit organizations | 1.9 | 2.7 | 5.3 |
| Medical and other health services b- | . 5 | 9 | 2.1 |
| Education..................... | . 5 | . 7 | 1.3 |
| Nonprofit membership organizations. | . 7 | 1.0 | . 6 |
| Other. | . 1 | . 2 | 3 |

[^11]from abroad. ${ }^{5}$ The percentage of "persons engaged" who were employed in nonresidential business fell from 87 in 1929 to 84 in 1948 and only 76.5 in 1969. The percentage in general government, households, and institutions rose correspondingly, from 13 in 1929 to 16 in 1948 and 23.5 in 1969. As shown in table 2, employment in general government, in institutions, and in all their major components increased in relative importance. In contrast, private household employment, which once dominated the sector except in wartime, continued the decline which had been in evidence for many decades.

The final output of nonresidential business is sold on the market for a price. Its value in constant as well as current prices therefore can be, and is, measured independently of employment or other input data. When constantprice output is divided by employment or total input to obtain a series for productivity, productivity is found to rise over time. General government, households, and institutions, in contrast, do not sell output so no independent measure of output can be constructed. In its absence net output, i.e., the amount that does not corresspond to purchases from business, is measured by use of the convention that net output moves like full-time equivalent employment. Hence, net output per full-time equivalent employee never changes in individual components of this sector: its value in 1958 prices in all years is the same as it was in current prices in 1958. This difference between the sectors is so fundamental that the two-way division of employment just described provides a logical starting place for the analysis of effects of employment composition upon productivity change in the economy as a whole. ${ }^{6}$

There is, however, an additional measurement difference. In general government, households, and institutions no return to capital and land and no depreciation is counted, and no indirect taxes are levied on the compensation

[^12]of employees. Consequently, labor earnings are used to measure national income, net national product, and gross national product and all four of these figures are the same. ${ }^{7}$ Labor earnings per person engaged in current dollars usually have been moderately higher in nonresidential business than in general government, households, and institutions, and this was so in the base year 1958. National income per person engaged in nonresidential business exceeds the same measure in general government, households, and institutions by a much bigger amount because it includes property earnings. The difference is still greater for net national product at market prices because indirect business taxes are included in nonresidential business, and greater yet for gross national product at market prices because of the inclusion of capital consumption. Values of these measures per person engaged are compared in the following table for the base year 1958 (which happened to be a recession year in which property earnings were unusually small).

|  | General <br> government, <br> households, <br> and <br> institutions | Nonresi- <br> dential <br> business | Ratio |
| :--- | ---: | ---: | ---: |
| Earnings from labor.......... | $\$ 4,027$ | $\$ 4,836$ | 1.20 |
| National income.............. | 4,027 | 6,814 | 1.44 |
| Net national product........ | 4,027 | 6,387 | 1.69 |
| Gross national product...... | 4,027 | 7,041 | 1.76 |

a.The estimates of earnings from labor include an allocated portion of proprietors' income. Depreciation is revalued at current prices and with consistent use of stright-ine depreBEA data).

It will be evident that the weight in total output of general government, households, and institutions, and therefore the effect on total output of the distribution of employment between

[^13]the two sectors distinguished, depends on whether output is measured by national income, by net national product, or by gross national product. I shall examine national income.

The fact that national income per person differs between the sectors not only because of the difference in labor earnings but also because of the inclusion of property earnings in only one of the two sectors raises a problem which will be encountered shortly: that of interpreting the implications of a difference in the distribution of employment for the amount or distribution of nonlabor resources.

## Average level and intraperiod change in employment share, 1948-69 and 1969-80

I shall compare the effect on productivity change of the difference between employment distributions in the 194869 period and the $1969-80$ period. I choose the latter timespan to illustrate the "future" and a period that ends with 1969 to illustrate the "past" because this choice permits me to draw on previous research.

The first requirement is an estimate of the percentage distribution of "persons engaged" in 1980. There is little likelihood that the large rise in the employment share of general government, households, and institutions that occurred from 1948 to 1969 will be repeated from 1969 to 1980 . Military employment is already more than one million below 1969 and unlikely to recover in the absence of a new military crisis; defense-related civilian government employment is also moving down. These declines will offset changes in other components that continue to rise. Moreover, employment in public and nonprofit education, which was responsible for much of the past increase, is not likely again to increase faster than the labor force. A detailed projection of employment components in 1980, assumed to be a high employment year, yielded about the same percentage division of employment between nonresidential business and general government, households, and institutions in

1980 as in $1969 .^{8}$ If this is correct, and for the following calculations I shall suppose that it is, the percentage distributions are:

|  | 1948 | 1969 | 1980 |
| :---: | :---: | :---: | :---: |
| General government, households, in- |  |  |  |
| stitutions.............................. | 15.78 | 23.65 | 23.65 |
| Nonresidential business.................. | 84.22 | 76.55 | 76.55 |

Appropriate "average levels" of these shares in each period can be obtained by averaging the terminal years because I shall use only the terminal years in calculating effects of different employment distributions. The average levels and the intraperiod changes in the employment shares of general government, households, and institutions are therefore as follows:

|  | 1948-69 | 1969-80 | $\begin{gathered} \text { Difference } \\ (1969-80 \\ \text { less } \\ 1948-69) \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Average level..... | 19.66 | 23.55 | 3.89 |
| Intraperiod change. | 7.77 | . 00 | -7.77 |

Per year, the difference between the periods in intraperiod change is 0.48 percentage points. The average level for the employment share of nonresidential business will, of course, be 3.89 points lower and the intraperiod change 7.77 points higher in the future period than in the past.

The question to which I now turn is: What are the implications for productivity growth of the fact that, if the employment projection is correct, (1) the average level of the general govern-ment-households-institutions employment share will be 3.89 percentage points higher in 1969-80 than in 194869 and (2) the intraperiod increase in the share will be 7.77 percentage points smaller? The two aspects must be considered separately, and I shall do so by examining 1948-69 experience.

[^14]
## Consequences of the level of the employment share

The difference between the average levels of the employment shares in 1969-80 and in 1948-69 is exactly half as large as the difference between the shares in 1948 and in 1969. If we can tell by how much the 1948-69 growth rate of productivity would have differed between two hypothetical situations, one in which the share of employment in general government, households, and institutions was constant at the 1948 percentage of 15.78 , the other in which the share was constant at the 1969 percentage of 23.55 , then one-half of this difference will measure the amount by which the 1969-80 levels of the shares will be less favorable to productivity growth than the 1948-69 levels. That they will be less favorable is self-evident because the sector with faster growth of productivity will receive less weight. From 1948 to 1969 output per person had an annual growth rate of 2.69 percent in nonresidential business and only 0.18 percent in general government, households, and institutions. The latter figure exceeded zero only because of shifts in employment composition within the sector.

To estimate the 1948-69 growth rate of output per person in the whole economy under the two hypothetical situations, actual employment and output in 1948 and 1969 are first divided into three parts: the services of dwellings and net income from abroad, which bave no employment, and each of the two sectors with employment. These data, and output per person employed where employment exists, are shown in columns 1 and 4 of table 3. (Entries in parentheses should be temporarily ignored.) In column 2 of table 3, the 1948 employment total is allocated among sectors by use of 1969 proportions. A calculation is then made of what 1948 national income would have been with this 1969 em ployment distribution if the difference between the actual and the hypothetical employment distributions in 1948 left unchanged total output in sectors with no employment, and output per person engaged in each of the two sectors with employment. The hypo-
thetical figure for output per person enyaged is then computed. Column 5 shows a similar calculation for 1969 output when employment is distributed by 1948 proportions.

A comparison of the actual 1948 and hypothetical 1969 figures provides an estimate based on the stated assumptions of how output per person engaged would have changed with constant 1948 employment shares. Similarly, a comparison of the hypothetical 1948 and actual 1969 figures yields a similar estimate of what the change would have been with constant 1969 employment shares. The figures follow:

|  | 1948 | 1969 | $\begin{aligned} & \text { Growth } \\ & \text { rate } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Constant 1948 employment shares. | \$4,594 | \$7,789 | 2. 65 |
| Constant 1969 employment shares. | 4,548 | 7,488 | 2.41 |

Under the stated assumptions the 1948-69 growth rate of national income per person engaged in the whole economy would have been 0.14 percentage points lower if the employment distribution had been constantly at the 1969 proportions than if it had been constantly at the 1948 proportions.

A valid objection may be made to one assumption of this procedure ("Variant $1 "$ in the table), but the result is not altered by changing that assumption. The objection stems from the fact that output in nonresidential business at any date is dependent on the amount of capital and land available to the sector as well as on the amount of labor. Employment in the sector would have been constantly 9.2 percent smaller with the 1969 employment distribution than with the 1948 distribution, and "Variant 1 " assumes that the amount of capital and land in the sector also would constantly have been 9.2 percent smaller (implying either that it would have been used in government, etc., or that it would not have existed at all). Alternatively, one might assume that the amount of capital and land in nonresidential business would have been the same in the two situations. To test the effect of such a change in assumption, I apply analysis based on income shares even though differences between the two situations exceed those to which

Table 3.-Actual and Hypothetical Employment and Output, by Sector, 1948 and 1969

|  | 1948 |  |  | 1969 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Actual | With 1969 employment distribution |  | Actual | With 1948 employment distribution |  |
|  |  | Variant 1 | Variant 2 |  | Variant 1 | Variant 2 |
|  | (1) | (2) | (3) | (4) | (5) | (6) |
| Persons engaged (in thousands). | 58,800 | 58,800 | 58, 800 | 80,076 | 80, 076 | 80,076 |
| Dwellings, foreign income. <br> General government, households, and institutions. <br> Nonresidential business. | $\begin{array}{r} 0 \\ 9,280 \\ 49,520 \end{array}$ | 0 13,846 44,954 | 0 13,846 44,954 | 0 <br> 18,856 <br> 61,220 | $\begin{array}{r}\text { \% } \\ \text { 12, } \\ \text { 67, } \\ \hline 138\end{array}$ | 0 12,638 67,438 |
| Outputs (billions of 1958 doliars) | 270.1 | 267.4 | 271.4 | 599.6 | 623.7 | 613.7 |
| Dwellings, foreign income General government, households, and institutions. | 7.7 36.6 26. | 7.7 54.6 505 | 7.7 54.6 | $\begin{array}{r}34.3 \\ 77.2 \\ \hline 88.1\end{array}$ | 34.3 51.7 53 | 34.3 51.7 |
| Nonresidential business............................. | 225.9 | 205.1 | 209.1 | 488.1 | 537.7 | 627.7 |
| $\begin{aligned} & \text { (Labor)...... } \\ & \text { (Property) } \end{aligned}$ | $\begin{array}{r} 180.7) \\ (45.1) \end{array}$ |  | $\left(\begin{array}{c} (464.0) \\ (45.1) \end{array}\right.$ | $\begin{gathered} (390.5) \\ (97.6) \end{gathered}$ |  | 430.1 97.6 |
| Output* per person engaged (1958 dollars). | 4, 594 | 4,548 | 4,616 | 7,488 | 7,789 | 7,664 |
| Dwellings, foreign income. |  |  |  |  |  |  |
| General government, households, and institutions. Nonresidential business. | $\begin{aligned} & 3,944 \\ & 4,562 \end{aligned}$ | $\begin{aligned} & -3,944 \\ & 4,562 \end{aligned}$ | 3,944 | 4,094 | $\begin{aligned} & 4,094 \\ & 7,973 \end{aligned}$ | 4,094 |
| (Labor) | $(3,649)$ |  | 3,649 | $(6,379)$ |  | 6, 379 |

a. As measured by national income.

Sources: Bureau of Economic Analysis and Edward F. Denison.
the technique, designed for smaller marginal changes, is most appropriate. Labor has persistently earned about 80 percent of national income originating in nonresidential business in reasonably prosperous years. Suppose we set aside 20 percent of the sector's total output in constant prices as output ascribable to capital and land and regard this portion of output as unaffected by the employment distribution, and identify only the remaining 80 percent as varying at a point in time in proportion to the number of persons engaged. When the calculations are repeated on this basis ("Variant 2" in table 3), the following figures are obtained for national income per person engaged:

|  | 1948 | 1969 | $\begin{aligned} & \text { Growth } \\ & \text { rate } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Constant 1948 employment shares............................ | \$4, 594 | \$7,664 | 2.47 |
|  | 4,616 | 7,488 | 2.33 |

Although the growth rates differ from those obtained by "Variant 1," the difference between them is again 0.14 percentage points. Thus it does not matter for this calculation which assumption is made, and I conclude that the 1969 employment share levels were less favorable to growth of output per person engaged than the 1948 levels by 0.14 percentage points.

The growth rate of output per unit of input is affected less by employment shares because the gap ( 1.80 percentage points) between the 1948-69 growth rate of output per unit of input in nonresidential business (1.80) and the rate in general government, households, and institutions (zero) is smaller. ${ }^{9}$ The gap is 72 percent as large as the gap (2.51 points) between sector growth rates of output per person engaged (2.69 and 0.18 , as previously stated). If the effect of different employment weights on the growth rate in the whole economy is also 72 percent as large, output per unit of input would have increased 0.10 points less ( 72 percent of 0.14 ) with constant 1969 employment shares than with constant 1948 shares.
As previously noted, the difference in share levels between the 1948-69 and 1969-80 periods is one-half the difference between 1948 and 1969 shares. Consequently, the average levels of the employment shares in 1969-80 are 0.07 percentage points per year less favorable than the average levels in 1948-69 to growth of output (national income) per person engaged and 0.05 percentage points less favorable to growth of output per unit of input.

[^15]
## Consequences of intraperiod changes in employment share

I turn now to the intraperiod change in employment shares. The intraperiod change from 1969 to 1980 is projected at zero, so we need to know only the effect of the intraperiod change in 194869 in order to compare the two periods.

The drop of 7.7 percentage points in the nonresidential business share of employment that occurred from 1948 to 1969 affected the growth rate of output per person engaged in two quite different ways. The first has to do with the difference between the values of the contribution of labor, per person engaged, in the two sectors at a point in time. The second refers to the effect of the intraperiod employment change upon the growth of output per worker within nonresidential business.

1. If 80 percent of output in nonresidential business is ascribed to labor, as in "Variant 2 " of table 3, then in 1958 prices the average value of the output of workers in nonresidential business was $\$ 295$ lower than the comparable figure in general government, households, and institutions in 1948 but $\$ 2,285$ above it in 1969 and $\$ 995$ above it on the average of the 2 years. Based on average weights, the intraperiod change in employment composition away from nonresidential business consequently lowered output per worker in the whole economy. By how much? Previous calculations ("Variant 2") showed that the growth rate of output per worker in the whole economy would have been 2.47 percent with a constant 1948 employment distribution and 2.33 with a constant 1969 distribution; hence it would have been 2.40 (their average) with the average of the 1948 and 1969 distributions. The actual growth rate, however, was 2.35 . The difference of 0.05 percentage points is an estimate of the depressing effect on output per worker of the movement of labor from nonresidential business to government, households, and institutions where labor had a lower value of output. ${ }^{10}$
2. Output per worker within nonresidential business is governed by

[^16]many determinants. We must go beyond mechanical calculations and ask whether these determinants would have changed in a different way in the absence of an intraperiod drop in the sector's share of employment. I believe changes in at least three probably or certainly would have been different in that situation, and that this would have changed the 1948-69 increase in output per worker within nonresidential business. The three are the education of employed persons, capital, and the size of markets served. I shall suggest some amounts, despite great difficulties, in order to illustrate the considerations.
(a) Among the determinants of nonresidential business output is the education of the labor it employs. A special characteristic of the shift of employment away from nonresidential business in the 1948-69 period retarded the upward movement in the educational distribution of the workers within nonresidential business: general government and nonprofit organizations absorbed (particularly, into teaching) a proportion of the increase in highly educated manpower that was much bigger than their average share of such manpower. When an index of the "educational quality" of employment in nonresidential business is constructed by weighting persons with different amounts of education, the 1948-69 growth rate of the index is lower-by 0.08 percentage points-than the growth rate of a similarly weighted index constructed for all employed persons. To estimate the effect on the growth rate of output in the sector, this 0.08 must be multiplied by the 80 percent weight of labor input in the sector. The product, 0.06 , must then be multiplied by the average percentage of constant-price national income that originated in the sector, 82.6 percent, in order to obtain the estimated amount by which the growth rate in the whole economy was curtailed. It is 0.05 percentage points.
(b) Another important determinant of nonresidential business output per worker is the amount of capital per worker in the sector. If the sector's employment had risen more than it did, the amount of capital in the sector would probably also have risen more
than it did to equip the extra workers. If the sector's percentage share of total employment had been constant, at any level, the growth rate of employment in the sector would have been 0.46 percentage points higher than it actually was (the same as the growth rate of employment in the whole economy). If one assumes that the growth rate of capital input in the sector would also have been 0.46 points higher than it was, and that the extra investment required would not have replaced investment in housing or net foreign investment but rather would have represented an addition to total investment, neither capital per worker in nonresidential business nor the total output of the sectors without employment would have been changed by the absence of an intraperiod change in employment shares. In that case we could ignore capital in this calculation.

If, at the other extreme, faster growth of employment in nonresidential business would have called forth no extra capital at all, the growth rate of total capital in nonresidential business would have been unchanged by the absence of an employment shift but that of capital per worker would have been 0.46 percentage points lower. With capital receiving an input weight of about 16 percent, it can be estimated that this would have lowered the growth rate of output per worker by 0.07 percentage points in the sector and (with a sector weight in total output of 82.6 percent) by 0.06 points in the whole economy.

One's judgment as to the relative merits of these two assumptions must depend upon his views as to the forces governing investment and the size of the capital stock. The first assumption seems to me the more reasonable but a bit extreme. I shall suppose that the intraperiod shift in employment shares did somewhat raise the growth rate of capital per worker in nonresidential business but only enough to raise the growth rate of output per worker by 0.02 percentage points in the sector, and therefore, rounding the result, in the whole economy.
(c) The size of markets served by nonresidential business is another important determinant of the sector's
output because of the presence of economies of scale of many types. I have estimated that in this sector economies of scale realized as markets expand are substantial, sufficient to raise by 15 percent the growth rate of the sector's output that changes in other output determinants would provide under constant returns to scale. This is, of course, a very rough estimate but I shall use it in the absence of a better one.

I have already pointed out that in the absence of an intraperiod shift in the distribution of employment, the 1948-69 growth rate of the employment component of labor input in nonresidential business would have been 0.46 percentage points higher and the growth rate of the education component 0.08 points higher so the growth rate of labor input would have been 0.54 points higher. Based on an 80 percent weight for labor, the growth rate of total output in the sector would then have been 0.43 percentage points higher than it was. The assumptions of the preceding subsection (b) imply that total capital input in the sector would also have risen more, enough to have raised the growth rate of total output in the sector by 0.05 points. ${ }^{11}$ These estimates of the effects of faster growth of labor and capital on the growth rate of total output, which amount to 0.48 points, do not allow for gains from economies of scale. According to the estimate cited in the previous paragraph, gains from economies of scale as a consequence of the more rapid growth of markets for nonresidential business output would then have added 15 percent of 0.48 points, or 0.07 percentage points, to the growth rate of the sector's total output and of its output per worker. This would have added 0.06 percentage points to the growth rate of output per worker in the whole economy.

Summarizing, I conclude that in the absence of any intraperiod change in the percentage division of employment between nonresidential business and general government, households, and institutions in 1948-69 output per

[^17]person engaged in nonresidential business might have risen enough more than it actually did to have added 0.09 percentage points to the growth rate of output per person engaged in the whole economy: 0.05 points because of education, -0.02 points because of capital, and 0.06 points because of economies of scale. There can be no offset to these amounts in general government, households, and institutions because of the way output is measured there.

When this estimate of 0.09 points for the effect upon the growth rate of output per worker within nonresidential business is combined with the 0.05 points obtained as the direct effect of moving labor between sectors, an estimate is secured that the intraperiod shift in employment shares subtracted 0.14 percentage points from the 1948-69 growth rate of output per person employed in the whole economy. The parts of this total that are related to the education of workers and to capital do not affect output per unit of input because they are measured in total input. Hence, the intraperiod shift in employment shares subtracted only 0.11 points from the growth rate of output per unit of input. Because no intraperiod shift is projected for 1969 80 , the situation with respect to intraperiod shifts will be more favorable in 1969-80 than it was in 1948-69 by the same amounts.

## Combined effects of level and intraperiod change

The effects of level and intraperiod change may now be combined. The 1969-80 distribution of employment will be less favorable than the 1948-69 distribution to growth of output per person employed by 0.07 percentage points because the average level of the employment share of general government, households, and institutions will be higher, but the 1969-80 situation will be more favorable by 0.14 points because the intraperiod increase that occurred in the employment share of that sector from 1948 to 1969 will not be repeated. On balance, the 1969-80 situation will be more favorable than the 1948-69 situation by 0.07 percentage points.

For output per unit of input the 1969-80 situation will be less favorable than the 1948-69 situation by 0.05 percentage points because of the difference in average share levels but 0.11 points more favcrable because of intraperiod shifts. On balance the 1969-80 situation will be the more favorable by 0.06 percentage points.

The failure to examine intraperiod changes has led most observers to an opposite conclusion. The effect of the intraperiod change, it must be stressed, will be favorable to productivity growth in a "future period" as compared to a past period so long as the average annual intraperiod change in employment shares is smaller in the future period than in the past period. The result is not dependent upon its disappearing entirely.

It is hardly necessary to call to the reader's attention that the exact numbers given refer only to the particular periods compared, to productivity measured by use of national income as the output series, and to output valued in 1958 prices, and that even for this comparison they are highly uncertain estimates. They rest on the projection that employment shares will not change from 1969 to 1980, on the use of 1948-69 experience to judge the relative productivity performance of the sectors, and on some difficult estimates of the amount by which the growth rate of output per worker or unit of input in nonresidential business would have differed in the absence of a shift in employment shares. But I have introduced no decisions nor judgments that could be avoided if the question raised was to be analyzed. The results at the very least suffice to show that there is no good reason to accept the widely common view that the future situation will be less favorable than the previous situation with respect to this important aspect of employment composition.

Composition of employment within general government, households, and institutions

All employment in general government, households, and institutions falls within industries usually classified as services, so the division of employment
between this sector and nonresidential business is part of the "shift to the services." Changes in the composition of employment within general government, households, and institutions are not, but it is useful also to consider this aspect of employment composition.

I have already noted that shifts in this distribution raised output per person engaged in the sector as a whole from 1948 to 1969. As shown in table 3, the increase was from $\$ 3,944$ to $\$ 4,094$. If output per person engaged in this sector had remained unchanged, the 1948-69 growth rates of total output and output per person engaged in the whole economy would have been 0.02 percentage points lower than they actually were. A similar calculation for 1969-80, based on my projection, shows that if output per worker in the sector remained at the 1969 level, growth rates for the whole economy would be only 0.01 percentage points lower than when compositional effects are counted. This is so despite the greater weight of the sector in this period. The 1969-80 internal composition of the sector, counting both level and intraperiod change, will thus be less favorable to growth of output per person engaged in the whole economy than the 1948-69 composition by 0.01 percentage points. Employment composition within general government, households, and institutions does not affect my output per unit of input series because their effects are measured in labor input.

## Services of Dwellings and Income From Abroad

The services of dwellings and income from abroad are obtained without use of labor, but they account for a very large proportion of capital and land inputs. Table 3 shows that they represented 2.85 percent of total output, as measured by constant-price national income, in 1948 and twice as much, 5.72 percent, in 1969.

From 1948 to 1969 the percentage increase in output was so much bigger in these sectors than in the sectors with employment that the growth rate of national income per person employed in the economy as a whole exceeded the corresponding rate for the sectors with
employment by 0.14 percentage points. The numbers for output per person engaged, taken or computed from columns 1 and 4 of table 3, are as follows:

|  | 1948 | 1969 | Growth rate |
| :---: | :---: | :---: | :---: |
| Whole economy . | \$4,594 | \$7, 488 | 2.35 |
| Nonresidential business, general government, households, and institutions. . .-............. | 4,463 | 7,060 | 2.21 |

The weight of housing and income from abroad has so increased that these sectors would add much more to the growth rate of output per person employed in 1969-80 if their output per worker were to continue to grow at its past (1948-69) rate, the usual assumption in calculations of shift effects.

This is unlikely for two reasons. The less important is that a lower growth rate of total output in these sectors is projected: 6.6 percent per year as against 7.4 in 1948-69. Despite this deceleration the projection implies that, with their weight increased, the increase in the output of these sectors will contribute 0.43 percentage points to the 1969-80 growth rate of total national income as compared with 0.32 points in 1948-69. (The gain from the past to the future period would be even greater if output were measured by GNP.) More important, the effect on output per worker depends not only on output changes in these sectors but also on the unrelated growth rate of total employment, and this too will be higher. The projection implies that in 1969-80 the growth rate of national income per worker in the whole economy will exceed that in the sectors with employment by 0.16 points, more than in 1948-69 but by only 0.02 points.

The output of these sectors is customarily classified as output of service industries. Thus this aspect of the "shift to the services," which has no counterpart in employment data, is favorable to the future growth of output per person employed in the economy as a whole. It hardly affects the growth rate of output per unit of input because it is matched by a change in input. ${ }^{12}$

[^18]
## The Farm Share of Business Employment

The massive reduction in the farm share of nonresidential business employment, shown in table 4, reduced misallocation of resources and raised productivity in the sector.
The industrial distribution of labor that would maximize national income has long been moving away from farming. The actual allocation has followed only with a timelag, and far too much

Table 4.-Persons Engaged in Production and Output in Nonresidential Business: Percentage Distribution Between Farm and Nonfarm Industries

|  | Persons engaged in production |  |  | Outputs |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1929 | 1948 | 1969 | 1929 | 1948 | 1969 |
| Nonresidential business.... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Farm.... | 22.3 | 13.6 | 5.1 | 11.4 | 7.8 | 4.2 |
| Nonfarm | 77.7 | 86.4 | 94.9 | 88.6 | 92.2 | 95.8 |

a. National income in 1958 prices.

Sources: For persons engaged in procuction, table A-1. For output, estimates by Edward F. Denison based on BEA data.
labor has persistently been allocated to farming. Failure of employment to respond more promptly to declining labor requirements resulted partly from reluctance of farmers to abandon their "way of life" and from geographic isolation of farms from industries of expanding labor demand, but the crucial factor was agriculture's heavy reliance on self-employment and unpaid family labor. This permitted inefficient farm enterprises to continue in existence and, use labor counted as employed, and thus to depress aggregate productivity, long after enterprises forced to meet a cash payroll for hired labor would have been driven out of existence-with their hired workers either becoming unemployed or finding employment in other industries. This circumstance distinguishes farming from other industries which have suffered a large decline in labor demand-particularly coal mining, which shared with farming the characteristics of geographic isolation and independence of the worker from supervision.

Even if the proportion of farm employment which was excessive had not changed over the past few decades,
the proportion of all nonresidential business employment that was misallocated to or underutilized or inefficiently utilized in farming would have declined as the farm share of employment fell, and this would have raised national income. The average worker employed in farming has contributed far less to the value of the Nation's output than the average worker employed in nonfarm industries. Transfer of labor from farm to nonfarm activities consequently would have raised total output even if farm output attributable to labor had dropped in proportion to labor input devoted to farming and the nonfarm output attributable to labor had increased in proportion to the increase in nonfarm labor input.

But this is not the whole story. Farms with very little output used much of the farm labor. Their complete elimination, with their land consolidated into remaining farms, cut employment without a major effect on farm output and consequently raised productivity in farming itself.

Under these conditions, additions to nonfarm employment resulting from the transfer of labor from farming have added nearly as much to the value of total output in 1958 prices as addition of a similar number of workers by labor force expansion would have done. Drawing on the pool of farm labor had a very beneficial effect on output per worker and output per unit of input because it raised the numerator in both calculations without changing the denominator. ${ }^{13}$

The intraperiod drop in the farm percentage of nonresidential business employment will be much smaller in 1969-80 than it was in 1948-69; it is projected to be only two-fifths as large. Employment data used in my other studies show an intraperiod drop of 0.47 percentage points a year from 1948 to 1969 and a projected drop of only 0.19 points a year from 1969 to $1980 .{ }^{14}$

[^19]My estimates show that the reduction in the overallocation of labor to farming resulting from the drop contributed about 0.23 percentage points to the 1948-69 growth rates of national income per person employed and output per unit of input in the economy as a whole. (The estimate for nonresidential business alone is larger.) The projected figure for 1969-80 is 0.07 percentage points, some 0.16 points less. ${ }^{15}$

The average level of the farm percentage of business employment, as distinguished from the intraperiod change, is not of much importance except in the sense that the lowering of the level has reduced the potential for further reductions. Once the gains in farm productivity which resulted from reduction in surplus labor are eliminated, growth rates of output per worker or unit of input in the farm and nonfarm portions of domestic nonresidential business probably are so similar that differences in their weights do not affect their combined growth rate appreciably.

## Reduction in Nonfarm Self-Employment

This section has only a little do to with industrial composition but it does refer to employment composition and may affect the usual mechanical type of industry shift calculation.
Many proprietors and unpaid family workers in nonfarm industries have been in enterprises in which they comprised all or almost all of the labor force. A considerable fraction of these enterprises were so small as to be highly inefficient in a modern economy and (like many farm enterprises) survived only because they had little or no out-ofpocket expense for labor. Individuals

[^20]working in such enterprises have comprised a declining fraction of nonfarm business employment. It is estimated that the reduction contributed about 0.07 percentage points to the growth rates of total national income, national income per worker, and output per unit of input in the whole economy in 1948-69 but will contribute only 0.03 points in 1969-80. Thus the 1969-80 situation is less favorable by 0.04 points. ${ }^{16}$

This estimate is related to industrial composition only because inefficiently used labor of nonfarm proprietors and unpaid family workers has been concentrated in certain industries. The presence of such labor lowers the value of output per worker or unit of input in these industries, compared to others, at a point in time while its elimination contributes to the rise in productivity in these industries over time.

## Summary of Significant Changes

When the results obtained in the preceding sections are combined, as in the following summary, the 1969-80 situation appears to be less favorable than the 1948-69 situation by 0.12 percentage points for the growth rate of output per person engaged and by
0.14 points for the growth rate of output per unit of input.

|  | $\begin{gathered} \text { Output } \\ \text { pers } \\ \text { person } \\ \text { engaged } \end{gathered}$ | $\begin{gathered} \text { Output } \\ \text { per } \\ \text { unitoof } \\ \text { input } \end{gathered}$ |
| :---: | :---: | :---: |
| Total. | -0. 12 | -0.14 |
| General government, households, institutions: |  |  |
| Employment share.................. | . 07 | . 06 |
| Dwellings, foreign income ${ }^{\text {Int.........- }}$ | . 02 | $\stackrel{00}{00}$ |
| Farm employment....... | -. 16 | -. 16 |
| Nonfarm selfemployment.............. | -. 04 | -. 04 |

Curiously, only the two lines with positive entries, those in which the 1969-80 situation is the more favorable, clearly belong to he service-commodity dichotomy Most of the adverse effect of the farm employment entry will be reflected in the growth rate of productivity in the commodity-producing industries themselves. Much of the adverse impact of the nonfarm self-employment entry and all of the adverse impact of internal employment composition within general government. households, and ins itutions will be reflected in the growth rate of productivity in the service industries themselves.

Whether the amounts shown should be regarded as large or small I leave to the reader to judge. But clearly they are not so large as to be the dominant factor in productivity trends.

# Part III. The Internal Composition of Nonfarm Nonresidential Business 

Nonfarm nonresidential business employed 73 percent of all persons engaged in production in 1969 and contributed 78 percent of all output (as measured by national income valued in 1958 prices). The remainder of this article will consider its internal composition. ${ }^{17}$ The "shift to the services" would have to refer to changes within this dominant sector if it were to have any generality.

[^21]
## Composition by Industry

This section will be concerned with industrial composition. It is necessary to dispose of a common misconception about output measurement before the implications of changes in employment composition are considered.

## A common misconception about measurement error

There is a common supposition that an increase in the employment weight of the service industries within nonresidential business would artificially reduce the growth rate of productivity
because of measurement errors. The supposition derives from a belief that difficulties of measuring output cause increases in productivity in the service industries to be understated relative to increases in commodity-producing industries. I believe the supposition about the sector as a whole to be quite wrong even if the belief about biases in industry data from which it derives happens to be correct.

The first fact to be noted is that the deflated value of the output of nonresidential business is obtained by summing deflated components of its end product, not industry components. I have some background in this type of estimation, and I do not believe that the deflation of those end products of nonresidential business which are called services encounters greater difficulties than the deflation of those that are called commodities. All are sold on the market for a price. Defining and pricing a "product" in order to obtain deflated values in the face of changes in the characteristics of products raises no greater difficulties for service components than for commodity components, and coverage of final product prices appears to be as complete (although this may not have been true before the late 1930 s ). There are problem areas, such as financial services, in the services category but most of the really difficult end-product groups, such as construction, producers' durables, defense procurement, and foreign trade, are found among the commodities. Service expenditures have at least their proportional share of the best price series, including those for the principal communications and public utilities components. Most of the service components of personal consumption expenditures for which price data are especially weak (or based on input prices), such as hospital and educational services or imputed rent, are not products of nonresidential business.

Second, there is almost no correspondence between a division of the sector's final products between commodities and services and a division of industries between commodities and services. For example, expenditures for commodities contain the bulk of the value added by wholesale and retail
trade, the biggest of the service industry divisions, and much of the value added by most other service industries, including transportation, communications, public utilities, banking, business services, and miscellaneous professional services. For only a few small industries is it possible to identify even most of output with a corresponding service expenditure component.

Under these circumstances the possibility (which arises mainly from lack of satisfactory data for interindustry sales) that productivity measures for service industries are downward biased relative to commodity-producing industries is simply irrelevant to accuracy of measurement of output and productivity change in the sector as a whole, and so, therefore, is the proportion of employment in service industries.

There is an interesting corollary. With total output obtained by adding end-product components which are unrelated to industry components, output cannot be measured more accurately in commodity-producing industries than in service industries so long as the sum of output in these two groups of industries equals the independently derived output total. An error of one dollar in constant-price output in one group is compensated by an offsetting error of one dollar in the output of the other. ${ }^{18}$ If such errors are big, comparisons between productivity trends in the two groups of industries are invalid but the trend for the two groups combined is unaffected.

## Levels of industry employment shares

Persons engaged in production in nonfarm nonresidential business in past years are divided according to the usual classification of commodity-producing and service industries in table 5 ; no projection is attempted. Commodity production includes manufacturing, mining, contract construction, and agricultural services, forestry, and fisheries. Services include everything else. The shift to the service industries simply is not pronounced or persistent once nonbusiness employment and farms are eliminated. The service percentage was

[^22]Table 5.-Persons Engaged in Production in Nonresidential Nonfarm Business: Percentage Division Between CommodityProducing and Service Industries

|  | 1929 | 1948 | 1969 |
| ---: | ---: | ---: | ---: |
| Nonferm nonresidential business........ | 100.0 | 100.0 | 100.0 |
| Commodity-producing industries... | 45.6 | 48.0 | 44.6 |
| Service industries................... | 54.4 | 52.0 | 55.4 |

Source: Table A-1.
actually lower in 1948 , at 52.0 percent, than in 1929 when it was 54.0 , and by 1969 when the percentage reached 55.4 the services had little more than recovered their previous loss. Only by measuring from 1948 to 1969 is there a shift from commodity-producing to service industries big enough-3.4 percentage points-even to allow examination in more detail.

Nonfarm business employment is distributed by a moderately detailed industry classification in table 6; greatest detail is shown within the "services" division proper. Three aspects need explanation. (1) BEA does not distribute government enterprise employment by industry but nearly all is in communications or electric, gas, and sanitary services. Government enterprises were combined with "telephone and telegraph" and "electric, gas, and sanitary services" to approximate "other communications and public utilities." ("Other" refers to omission of radio broadcasting and television.) (2) "Miscellaneous professional services" in the business sector consist almost entirely of firms serving business (consulting engineers, architects, accountants, etc.). I have combined this industry with "miscellaneous business services." ${ }^{19}$ (3) "Automobile repair, automobile services, and garages" cannot be distinguished in a really meaningful way from filling stations and automobile dealers, which are part of retail trade. However, the BEA division of the two industries is shown for 1948 and 1969 ; no division is attempted for 1929.

Table 6 shows that the 3.4 percentage point decline from 1948 to 1969 in the employment share of commodityproducing industries was really a drop in four industries whose combined

[^23]Table 6.-Persons Engaged in Nonresidential Nonfarm Business, by Industry

|  | Number in thousands |  |  | Percent of total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1929 | 1948 | 1969 | 1929 | 1948 | 1969 |
| Total.. | 31,256 | 42,796 | 58, 091 | 100.0 | 100.0 | 100.0 |
| Agricultural services, forestry, fisheries | 236 | 276 | 324 | . 8 | . 6 | . 6 |
| Coal mining | 627 | 544 | 144 | 2.0 | 1.3 | . 2 |
| Other mining. | 390 | 489 | 515 | 1.2 | 1.1 | . 9 |
| Contract construction. | 2,306 | 3,262 | 4,323 | 7.4 | 7.6 | 7.4 |
| Food, kindred products. | 1,078 | 1,841 | 1,816 | 3.4 | 4. 3 | 3.1 |
| Textile mill products...- | 1,264 | 1,333 | 1,012 | 4.0 | 3.1 | 1. 7 |
| Other nondurables manufacturing | 2,999 | 4,201 | 6,598 | 9.6 | 9.8 | 9.6 |
| Lumber, wood products, except furniture. | 5,349 | -943 | ${ }^{612}$ | 17.1 | 2.2 | 1.1 |
| Other durables manufacturing--........ | 5,349 | 7,652 | 11,541 | 17.1 | 17.9 | 19.9 |
| Transportation | 3,034 | 3,008 | 2,647 | 9.7 | 7.0 | 4.6 |
| Radio, television broadcasting--.....-.-....................-- | 4 | 48 | 120 | . 0 | . 1 | . 2 |
| Other communications and public utilities (including government enterprises) | 1,439 | 1,966 | 2,862 | 4.6 | 4.6 | 4.9 |
| Wholesale trade. | 1,744 | 2,664 | 3,767 | 5. 6 | 6. 2 | 6.5 |
| Retail trade.. |  | 8,085 | 11,136 |  | 18.9 | 19.2 |
| Automobile services. | 6, | 340 | 500 | 19.4 | . 8 | . 9 |
| Banking. | 386 | 408 | 962 | 1.2 | 1. 0 | 1. 7 |
| Other finance, insurance, real estate | 1,189 | 1,526 | 2,610 | 3.8 | 3.6 | 4.5 |
| Hotels and other lodging places | 518 | 629 | 778 | 1.7 | 1. 5 | 1. 3 |
|  | 1,008 | 1,241 | 1,468 | 3.2 | 2. 9 | 2.5 |
| Miscellaneous business and professional services. | 292 | 631 | 2,270 | . 9 | 1.5 | 3. 9 |
| Amusements.-.......-.-............................ | 383 | 480 | 608 | 1.2 | 1.1 | 1. 0 |
| Medical and other health services. | 500 | 622 | 1,518 | 1.6 | 1.5 | 2.6 |
| Legal services. | 194 | 217 | 383 | . 6 | . 5 | . 6 |
| Educational services. | 87 | 91 | 170 | . 3 | . 2 | . 3 |
| Nonprofit membership organizations. | 22 | 46 | 95 | .1 | . 1 | . 2 |
| Miscellaneous repair services. | 130 | 253 | 312 | . 4 | . 6 | . 5 |

Source: Table A-1.
shares dropped by 4.7 points, much more than the total. They were coal mining (1.0 point), food and kindred products ( 1.2 points), textile mill products ( 1.4 points), and lumber and wood products, except furniture ( 1.1 points). To believe that the loss of share by commodity-producing industries will impair future productivity growth within nonfarm business as a whole, one must think that these four industries will achieve above-average productivity gains in the future, not that "commodity production" will do so. ${ }^{20}$ Offhand, they do not seem to represent the most dynamic portion of the economy.

The share of other durables manufacturing increased by 2.0 percentage points. The share of agricultural services, forestry, and fisheries was unchanged, and the shares of other mining, other nondurables manufacturing, and contract construction fell by only 0.2 percentage points each. Even from 1948 to 1969 there was no pervasive decline in the importance of commodity-producing industries.

[^24]To facilitate closer examination of employment changes in the service industries, table 7 compares actual 1969 employment with what 1969 employment would have been if each industry's percentage share of nonfarm business employment had been the same as in 1948. Employment in service industries as a group was 2.0 million larger in 1969 than it would have been at its 1948 percentage of nonfarm business employment; this compares with total nonfarm business employment of 58.1 million. By the grouping shown, twelve service industries or industry groups employed a total of 3.8 million more persons in 1969 than they would have if they had maintained their 1948 shares while five employed 1.9 million fewer persons. In addition to showing great diversity, the table reveals several points of interest about individual industries.

1. When people characterize service industries as having little potential for productivity increase, they usually describe them as consisting of small establishments, which directly serve individuals, and which use little capital per worker, and they imagine that this
description typifies the "shift to services." It is difficult to think of important industries with all these characteristics but the examples usually mentioned are such industries as personal services, amusements, hotels and other lodging places, and miscellaneous repair services. All four of these industries in fact reduced their share of nonfarm business employment from 1948 to 1969, by a total of 368,000 persons engaged. If credence can be given to the classification, automobile services increased their share but by only 38,000 .
2. The next group exemplifies one of my objections on economic, as distinct from statistical, grounds to the use of industry data to relate compositional shifts to productivity change. It contains three industries which are almost exclusively engaged in providing services for firms in a wide variety of other industries. Their 1969 employment was bigger by $1,499,000$, or 152 percent, than it would have been with 1948 employment shares. The 1.5 million increase in the share of these industries is three-fourths as large as the increase in the shares of all service industries combined. Miscellaneous business and

Table 7.-Persons Engaged in the "Services" Portion of the Nonfarm Business Sector in 1969: Comparison of Actual with Hypothetical Figures Assuming 1948 Share Was Maintained, by Industry Groups

|  | $\begin{gathered} \text { Actual } \\ 1969 \\ \text { em- } \\ \text { ploy- } \\ \text { ment } \end{gathered}$ | $\begin{gathered} 1969 \\ \text { em- } \\ \text { ploy- } \\ \text { ment } \\ \text { at } \\ 1948 \\ \text { share } \end{gathered}$ | Excess of actual 1969 ployment |
| :---: | :---: | :---: | :---: |
| Total "services". | 32, 206 | 30, 211 | 1,995 |
| Transportation.. | 2,647 | 4,083 | $-1,436$ |
| Radio and television broadcasting | 120 | 65 | 55 |
| utilities (including government enterprises) | 2,862 | 2,669 | 193 |
| Wholesale trade. | 3,767 | 3,616 | 151 |
| Retall trade. | 11, 136 | 10,975 | 161 |
| Automobile services. | 500 | 462 | 38 |
| Banking--- | 962 | 554 | 408 |
| Other finance, insurance, and real estate. | 2,610 | 2,071 | 539 |
| Hotels and other lodging places. .- | 778 | 854 | -76 |
| Personal services.-..............-- | 1,468 | 1,685 | -217 |
| Miscellaneous business and pro- fessional services........... | 2,270 | 857 | 1,413 |
| Amusements. | 608 | 652 | -44 |
| Medical and other health services. | 1,518 | 844 | 674 |
| Legal services. | 383 | 295 | 88 |
| Educational services | 170 | 124 | 46 |
| Nonprofit membership organizations. | 95 | 62 343 | ${ }_{31}^{33}$ |
| Miscellaneous repair services. | 312 | 343 | -31 |

Source: Calculated from table A-1.
professional services account for $1,413,000$ of the combined $1,499,000$ employment increase. The other two industries are nonprofit membership organizations (which in the business sector are chambers of commerce, trade associations, and the like) and radio and television broadcasting (whose product is entirely intermediate in the national accounts).

Expansion in these industries can result only from decisions by business firms in other industries to contract out work. This may be work that they previously performed themselves, functions (such as computer services) newly incorporated into their production activities which they might have performed themselves, or (as in the cases of certified public accounting firms, broadcasting, and nonprofit membership organizations) added work which for legal or institutional reasons they could not perform themselves. I see no possible sense in which the employment shift to the service industries which resulted from these decisions and which would not have occurred if enterprises had decided to do their own work can be construed as an indication that the rate of productivity increase in nonfarm business will de-cline-not even if perfectly accurate productivity measures by industry were to show a lower growth rate of productivity in the business service industries than in the ndustries they serve. In most cases contracting work out rested on the belief that vertical specialization was more efficient than vertical integration, and it presumably contributed to the rise in productivity in the sector as a whole.
3. Retail trade, wholesale trade, and "other" communications and public utilities together accounted for 56.4 percent of all service industry employment in 1969 (retail trade alone for 35.9 percent). Their employment shares had scarcely increased from 1948. Each of these three big groups employed only 151,000 to 191,000 more persons in 1969 than it would have employed at its 1948 share of nonfarm business employment. Changes in employment share were so small that it is not necessary to ask why each changed its share, or how its productivity
performance has compared or will compare with other industries.
4. Medical and other health services and educational services in the business sector of course exclude nonprofit organizations. They are dominated by independent professionals and their employees and may correspond to the usual vision of a service industry about as well as the group first considered if "human capital" is ignored. Numbers of persons engaged in these industries in 1969 were bigger by 674,000 and 46,000 , respectively, than they would have been with 1948 shares. The increase in medical services was in the employee category. The number of fulltime equivalent employees per active proprietor rose from 2.7 in 1948 to 7.2 in 1969. Expansion of proprietary hospitals and increased paper work imposed on physicians by insurance carriers presumably account for some of this change, but to a major extent it must have resulted from the attempt to conserve the time of skilled profes-sionals-by adding to the number of less skilled employees and by contracting work to laboratories-in order to raise efficiency. In such circumstances a count of people is not a good indicator of the increase in the use of resources and output per worker is a particularly inadequate measure of productivity change.
5. The four remaining service industries, transportation, banking, other finance, and legal services, sell to other businesses and are affected by changes in vertical integration but also serve individuals directly. Their combined share fell by 401,000 . The biggest change appears in transportation, where 1969 employment fell $1,436,000$ below what it would have been with the 1948 share because businesses increasingly found it efficient and individuals attractive to buy and operate their own motor vehicles rather than to purchase freight and passenger transportation from common carriers. Partially offsetting increases were 408,000 in banking, 539,000 in the very heterogeneous "other finance, insurance, and real estate" group, and 88,000 in legal services.

This review revealed no differences between employment shares in 1948 and

1969 that have any apparent implication for the future rate of productivity change in the sector.

## Composition of Total Input by End Product

The purpose of production is to provide end products, and an end-product classification avoids some difficulties encountered when an industry classification is used. ${ }^{21}$ It is not affected by the degree of vertical integration and specialization that business finds to be efficient (or at any rate adopts) under conditions prevailing at various points in time. It avoids the problem that some changes in productivity do not belong to any industry because the change in productivity results from redistribution of functions among industries in order to raise their combined productivity in the provision of end products. Intermediate product price indexes are not needed so the sparsity of such data is not a handicap.
The biggest problem with industry productivity data is that of interpreting their significance for the purpose at hand when "unmeasured quality change" occurs in intermediate prod-ucts-raw materials, supplies, containers, and capital goods. The productivity gain is not credited to the industry responsible for the improvement. Instead, it appears as a productivity advance in some industry closer to the final purchaser. For example, if a paint that can be applied in less time is discovered and developed by a paint company, by a contract research firm, or by anyone else, the productivity increase will appear in the industry employing the painter who applies the paint. If instead a paint that lasts longer so repainting is needed less frequently is developed, the productivity increase will appear in the industry on whose walls the paint is applied. A new machine invented or developed in the machinery industry or anywhere else raises productivity in the industry using the machine. There is consequently little

[^25]correspondence between the industry (if any) responsible for a change in productivity and the industry whose productivity increases.

Although an end-product classification does not avoid a fundamental diffculty encountered in the use of any type of component analysis to judge future productivity trends, the difficulty with which I shall conclude this article, it is sufficiently superior to an industry classification to warrant some attention. With this type of classification, one speaks of productivity in the provision of an end product, and the question then becomes whether the composition of end products has shifted toward or away from products that have been provided with the largest increases in productivity.

I shall consider only commodities as a group and services as a group. The output of the nonfarm nonresidential business sector, as measured by con-stant-price GNP, can readily be divided between goods and services if industrytype series for farms and housing services are considered sufficiently satisfactory for use in deriving the sector data from those for all business GNP. ${ }^{22}$ For selected years table 8 provides this division, as well as the division of current-price GNP and the corresponding implicit price deflators.

Absence of directly computed productivity series for the production of commodities and services is not an insuperable obstacle to analysis. If earnings of the factors are the same in the production of commodities and services, or even if any differential in favor of one or the other is the same in 2 years, then the difference between the change in output per unit of input for commodities and services is the same (with sign reversed) as the difference between price movements of commodities and services. This rule can be used to approximate differentials in productivity change if comparisons are confined to years that are far apart and reasonable care is taken to avoid very unrepresentative years.
22. I do not wish to conceal the fact that some of the difficulties with an industry classificatiou apply to any grouping smaller than the whole economy-indeed, smaller than the world economy because deflated imports enter the calculation. But nonfarm nonresidential business is sufficiently consolidated for the difficulties to be relatively minor.

Service prices were far lower relative to commodity prices in 1948 than in earlier or later years in the table, and I believe this is because service prices tend to lag commodity prices in periods of big price change. Data for 1948, shown only because 1948 was used in previous sections, are therefore discarded for the present analysis.

My index of output per unit of input in nonresidential nonfarm business is shown in row 19 of table 8. National income rather than GNP was used to measure output in its derivation, but this is not likely to make much difference in this analysis. Row 20 shows a similar series for production of commodities in the sector, obtained by multiplying row 19 by the ratio of the price index for commodities to that for commodities and services combined (row 17). Row 21 shows the similar index for production of services.

These series indicate that the increase in output per unit of input was moderately greater in the production of services than of commodities from 1929 to 1953, about the same from 1929 to 1958 (when all indexes are 100.0) but considerably smaller from 1953 or 1958 to 1969 . Growth rates of output per unit of input in certain
periods, as estimated by this procedure, follow. ${ }^{23}$

| Period | Commodities and services | $\begin{gathered} \text { Com- } \\ \text { modi- } \\ \text { ties } \end{gathered}$ | $\begin{gathered} \text { Serv- } \\ \text { ices } \end{gathered}$ | Difference: commodities less services |
| :---: | :---: | :---: | :---: | :---: |
| 1929-69. | 1.57 | 1.63 | 1.41 | 0.22 |
| 1929-53. | 1.31 | 1. 29 | 1.43 | -. 14 |
| 1963-69.. | 1.96 | 2.13 | 1.37 | . 76 |
| 1953-64. | ${ }_{2}^{2.12}$ | ${ }^{2} 28$ | 1.49 | 79 |
| 1964-69.. | 1.61 | 1.80 | 1.11 | . 69 |

The service price ratio probably was still somewhat out of line on the high side in 1953 so that the relative performance of the services shown here is very likely too favorable in 1929-53 and too unfavorable from 1953 to 1969 (although the 1969 ratio may also have been a little high after the preceding inflation), but the estimates are not too weak for the use to which I now put them: to show that changes in the weights of commodity and service inputs within the range experienced could have only a minor offset on the growth rate of productivity.
In any year in which earnings of comparable inputs are the same in the provision of commodities and services

[^26]Table 8.-Domestic Nonresidential Nonfarm Business GNP Divided by Commodities and Services, Together With Derived Estimates

|  |  | 1929 | 1948 | 1953 | 1964 | 1969 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | GNP in current prices (billions of dollars) ... | 76.7 | 198.9 | 283.0 | 481.8 | 700.3 |
| 2 | Commodities. | 58.7 | 159.8 | 227.1 | 369. 5 | 527.1 |
| 3 | Services. | 18.0 | 39.1 | 55.9 | 112.3 | 173.2 |
| 4 | GNP in current prices (percent of total). | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 5 | Commodities. | 76. 5 | 80.3 | 80.2 | 76.7 | 75.3 |
| 6 | Services. | 23.5 | 19.7 | 19.8 | 23.3 | 24.7 |
| 7 | GNP in 1958 prices (billions of dollars) | 154.8 | 251.6 | 318.1 | 449.5 | 564.9 |
| 8 | Commodities. | 118.7 | 196.7 | 253.9 | 349.5 | 434.9 |
| 9 | Services. | 36.1 | 54.9 | 64.2 | 100.0 | 130.0 |
| 10 | GNP in 1958 prices (percent oftotal) | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 11 | Commodities. | 76.7 | 78.2 | 79.8 | 77.8 | 77.0 |
| 12 | Services. | 23.3 | 21.8 | 20.2 | 22.2 | 23.0 |
| 13 | Implicit price deflator, $1958=100$, sector. | 49.5 | 79.1 | 89.0 | 107.2 | 124.0 |
| 14 | Commodities. | 49.5 | 81.2 | 89.4 | 105. 7 | 121.2 |
| 15 | Services. | 49.9 | 71.2 | 87.1 | 112.3 | 133.2 |
| 16 | Ratio of implicit deflator to gector deflintor | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 17 | Commodities. | 1.000 | 1. 027 | 1.004 | 0.986 | 0.977 |
| 18 | Services.. | 1.008 | 0.900 | 0.979 | 1.048 | 1. 074 |
| 19 | Inder of output per unit of input, $1958 \mathbf{= 1 0 0}$, sector. | 69.75 | 87.88 | 95.28 | 119.96 | 129.94 |
| 20 | Commodities | 69.75 | (a) | 94.90 | 121.66 | 133.00 |
| 21 | Services..... | 69.20 | ( ${ }^{\text {a }}$ | 97.32 | 114.47 | 120.99 |

the shares of total factor input devoted to production of commodities and services are the same as the commodity and service shares of output when output is measured by national income (that is, net, at factor cost) and in current prices. The distribution of final output in current prices is measured in table 8 by GNP (gross, at market prices). Although commodity and service shares of GNP in the sector differ from their shares of national income, changes in the shares are not likely to be much different. The percentage of total factor input entering into services is therefore estimated to have been 1.2 percentage points larger in 1969 than in 1929 and 4.9 percentage points larger in 1969 than in 1953.

If within nonresidential nonfarm business the growth rate of output per unit of input was 0.22 percentage points higher in production of commodities than of services, the calculated 1929-69 experience, a difference of 1.2 percentage points in the service share of total input, the difference between 1929 and 1969 shares, would change the growth rate of output per unit of input in nonfarm nonresidential business by 0.003 percentage points. If the growth rate of output per unit of input was 0.76 points higher in commodity production than in services production, the calculated 1953-69 experience, a difference of 4.9 percentage points in the service share of total input, the difference between 1953 and 1969 shares, would change the growth rate in nonfarm nonresidential business by 0.037 percentage points. Nonfarm nonresidential business is about threefourths of the whole economy. Hence the effect on output per unit of input in the whole economy of the differences postulated would be about 0.00 points for the first calculation and less than 0.03 percentage points for the second calculation. These results stem only from effects on the numerator (output) of the productivity calculation and consequently apply equally to output per person engaged.

These calculations capture only differences between the average productivity experience of commodities and services as a whole. To investigate whether changes in the composition
of input were toward or away from components with fast productivity growth, one would need to classify detailed components by rate of productivity change itself, or calculate directly for detailed components, but the necessary detailed data have not been developed for this sector's output.

## A Fundamental Difficulty With Component Analysis in Domestic Nonresidential Nonfarm Business

This brings me, finally, to a fundamental objection to the procedure of analyzing the behavior of components in the past in order to judge future productivity trends within nonfarm nonresidential business. This objection is to the implicit assumption that components which gain or lose share of employment or total input, and which have about average or below average productivity gains in one period, will have the same characteristics in the next period.

Suppose we classify nonfarm nonresidential business or a major portion of it by detailed components, whether by industry or by end product. Available evidence suggests that over any time span that is long and terminated by years that are representative we are likely to find that employment and other input measures increased by an above average amount in components whose productivity increased by an above average amount. ${ }^{24}$ This is not really surprising. One reason is that components toward which demand shifts secure the greatest productivity gains from economies of scale. Another is that new components typically both increase their shares and have large productivity gains. A third is that demand appears typically to be so elastic that declining relative prices resulting from above average productivity gains raise

[^27]volume more than enough to offset the saving in employment and other inputs that results from above average productivity gains. ${ }^{25}$

If this relationship holds, components with above average productivity gains during a period will be found to have bigger shares of employment or total input at the end of a period than at its beginning. Does this mean we should expect ever-rising rates of productivity growth in the sector as a whole? Of course not. Such a tendency would be present only if at every date the components which had high rates of productivity gain and increased their shares of input or employment in previous periods will again have high rates of productivity gain, and increase or at least not reduce their shares, in the period to come. There is no such continuity. Industries rise and fall.

Suppose, instead, thatin some period or by some classification the relationship is the opposite: that components with fast-rising productivity in a period systematically lose their shares of inputs. Would this mean an everfalling rate of productivity increase? No, for the same reason. ${ }^{26}$

A look at the four commodityproducing industries whose combined shares dropped more than the total share of commodity-producing industries from 1948 to 1969 is suggestive. Coal mining lost in employment share from 1929 to 1948 and again from 1948 to 1969 , and appears to have had a strong productivity performance in both periods. But its productivity performance may well be poor in 1969-80, not only because major opportunities for gain have been exploited but also because of new safety and environmental legislation. Is it obvious that productivity would rise more in the future if the share of coal mining

[^28]were larger? ${ }^{27}$ Textile mill products also lost employment share in each past period, but both food manufacturing and lumber and wood products increased their employment shares from 1929 to 1948 and reduced them from 1948 to $1969 .{ }^{28}$ Lack of continuity is evident without considering productivity.

Data for industrial and end-product components of output and input are useful for many purposes but are not particularly helpful in explaining why total output rises. An increase in labor skills or in the amount of capital used in production will contribute to growth regardless of the particular industry or end product to which the changing requirements of society may cause labor and capital to be allocated; similarly, the impact of inventive and innovative activities, improved management techniques, the growth of markets, and many other changes may be felt in almost any activity. Future productivity growth will depend on the strength of such characteristics of the economy, not on the particular end products that business is called upon to provide nor the organization of industries that is found most efficient in providing them.

## Appendix

Table A-1 shows the breakdowns of persons engaged in production which, in various combinations, are used in the text tables. Aside from minor adjustments noted in the footnotes, the data are from BEA.

BEA uses the same industry classification for 1948 and 1969. Its 1929 data are presented by a slightly different classification. Only the most obviously required adjustments and combinations have been introduced here. However, remaining differences between the 1929 and 1948-69 classifications are not likely to be of sufficient size to affect comparisons appreciably.

Table A-2 shows the derivation of domestic nonresidential nonfarm business GNP and its division between commodities and services.

[^29]Table A-1.-Persons Engaged, by Industry: Total and by Sector
[Numbers in thousands]

|  | Total |  |  | General government, households, institutions |  |  | Business sector |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1929 | 1948 | 1969 | 1929 | 1948 | 1969 | 1929 | 1948 | 1969 |
| All industries. | 46,216 | 58,800 | 80, 076 | 5,991 | 9,280 | 18,856 | 40,225 | 49,520 | 61,220 |
| Farms. | 8,969 | 6, 724 | 3,129 | 0 | 0 | 0 | 8,969 | 6,724 | 3,129 |
| Agricultural services, forestry, fisherie | 236 | 276 | 324 | 0 | 0 | 0 | 236 | 276 | 324 |
| Coal mining. | 627 | 544 | 144 | 0 | 0 | 0 | 627 | 544 | 144 |
| Other mining | 390 | 489 | 515 | 0 | 0 | 0 | 390 | 489 | 515 |
| Contract construction. | 2,306 | 3,262 | 4,323 | 0 | 0 | 0 | 2,306 | 3,262 | 4,323 |
| Food, kindred products. | 1,078 | 1,841 | 1,816 | 0 | 0 | 0 | 1,078 | 1,841 | 1,816 |
| Textile mill products.. | 1,264 | 1,333 | 1,012 | 0 | 0 | 0 | 1,264 | 1,333 | 1,012 |
| Other nondurables manufacturing | - 2, 999 | 4,201 | 5,598 | 0 | 0 | 0 | 2,999 | 4,201 | 5,598 |
| Lumber, wood products, except furni Other durables manufacturing. | - 5, 349 | $\left\{\begin{array}{r}943 \\ 7,652\end{array}\right.$ | r $\begin{array}{r}612 \\ 11,541\end{array}$ | 0 | 0 0 | 0 | 5,349 | $\left\{\begin{array}{r}943 \\ 7,652\end{array}\right.$ | $\begin{array}{r} 612 \\ 11,541 \end{array}$ |
| Transportation. | 3, 034 | 3,008 | 2,647 | 0 | 0 | 0 | 3,034 | 3,008 | 2,647 |
| Telephone and telegraph.--. | 535 | 695 | 924 | 0 | 0 | 0 | 535 | 695 | 924 |
| Radio, television broadcasting | 4 | 48 | 120 | 0 | 0 | 0 | 4 | 48 | 120 |
| Electric, gas, sanitary - | 495 | 538 | 685 | 0 | 0 | 0 | 495 | 538 | 685 |
| Wholesale trade. | 1,744 | 2,664 | 3,767 | 0 | 0 | 0 | 1,744 | 2,664 | 3,767 |
| Retail trade... |  | ( 8,087 | 11, 157 | 0 | ${ }^{5} 2$ | ${ }^{5} 21$ |  | [8,085 | 11, 136 |
| Automobile services. | 6,077 | ( 340 | 500 | 0 | 0 | 0 | 6,077 | 340 | 500 |
| Banking | 386 | 408 | 962 | 0 | 0 | 0 | 386 | 408 | 962 |
| Other finance, insurance, real estate. | 1, 189 | 1, 526 | 2,610 | 0 | 0 | 0 | 1,189 | 1,526 | 2,610 |
| Hotels and other lodging places. | 518 | 636 | 793 | 0 | 87 | ${ }^{8} 15$ | 518 | 629 | 778 |
| Personal services.. | 1,008 | 1,241 | 1,468 | 0 | 0 | 0 | 1,008 | 1,241 | 1,468 |
| Miscellaneous business services. | c 292 | 385 | 1,573 | 0 | 0 | ${ }^{0}$ | 292 | 385 | 1,573 |
| Miscellaneous professional services. | ${ }^{\text {c } 292}$ | 275 | 814 | 0 | ${ }^{-} 29$ | ${ }^{\text {b }} 117$ | 292 | \{ 246 | 697 |
| Miscellaneous repair services. | - 130 | 253 | 312 | 0 | 0 | 0 | 130 | 253 | 312 |
| Motion pictures. | 153 | 234 | 193 | 0 | 0 | 0 | 153 | 234 | 193 |
| Other amusements | 295 | 298 | 505 | ${ }^{6} 65$ | ${ }^{6} 52$ | ${ }^{\circ} 90$ | 230 | 246 | 415 |
| Medical and other health services | 750 | 1, 132 | 3,176 | 250 | 510 | 1,658 | 500 | 622 | 1,518 |
| Legal services... | 194 | - 217 | , 383 | 0 | 0 | 1, 0 | 194 | 217 | 383 |
| Educational services | ${ }^{\text {d }} 311$ | 482 | 1,247 | 224 | 391 | 1,077 | 87 | 91 | 170 |
| Nonprofit membership organizations. | 351 | 649 | 1,358 | ${ }^{5} 329$ | ${ }^{5} 603$ | ${ }^{\text {b }} 1,263$ | 22 | 46 | 95 |
| Private households.......... | 2,348 | 1,574 | 1,384 | 2, 348 | 1,574 | 1,384 | 0 | 0 | 0 |
| Government, government enterprises | 3, 184 | 6,840 | 14,480 | 2,775 | 6, 107 | 13,227 | 409 | 733 | 1,253 |
| Rest of the world. | 0 | 5 | 4 | 0 | 5 | 4 | 0 | 0 | 0 |

a. The 1929 employment in miscellaneous repair services was assumed to be the same fraction of employment in "miscellaneous repair services and hand trades" as in 1948 . The remaining 130,000 in the latter industry were equally divided between "other nondurables manufacturing" and "other durables manufacturing."
bll Estimated from full-time and part-time employment by application of the ratio of full-time equivalent employment to full-time and part-time employment in the industry.
c. sum of business services, n.e.c." and "engineering and other professional services, n.e.c."
. Sum of "educational services, n.e.c." and "commercial and trade schools and employment agencies."
Sources: First six columns from Bureau of Economic Analysis. Last three columns obtained by subtraction.

Table A-2.-Derivation of Commodities and Services Output of the Domestic Nonresidential Nonfarm Business Sector
[GNP at market prices, in billions of dollars]

| Prices and year | Whole economy |  |  | Farm GNP (BEA dion) | $\begin{aligned} & \text { Residential } \\ & \mathbf{G N P} \end{aligned}$ |  | Government, households, institutions GNP | Inter-na-tionalassetsGNP(8) | Non- farm busi- ness GNP <br> (9) | Domestic nonresidential nonfarm business GNP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Goods output | Structures output | $\begin{aligned} & \text { Serv- } \\ & \text { ices } \\ & \text { output } \end{aligned}$ |  | Farm | Nonfarm |  |  |  | $\begin{gathered} \text { Commo- } \\ \text { ditios } \\ (1+2 \\ -4+5) \end{gathered}$ | $\begin{aligned} & \text { Serv- } \\ & \text { ices } \\ & (3-5 \\ & -6-7 \end{aligned}$ | $\begin{gathered} \text { Total } \\ (10+11 \\ \text { or } \\ 9-6) \end{gathered}$ |
|  | (1) | (2) | (3) |  | (5) | (6) |  |  |  | (10) | (11) | (12) |
| Current prices |  |  |  |  |  |  |  |  |  |  |  |  |
| 1929. | 56.1 | 11.4 | 35.6 | 9.7 | 0.9 | 8.7 | 7.2 | 0.8 | 85.4 | 58.7 | 18.0 | 76.7 |
| 1948 | 154.2 | 27.7 | 75.7 | 23.3 | 1.2 | 11.3 | 23.1 | 1.0 | 210.2 | 159.8 | 39.1 | 198.9 |
| 1953. | 204.1 | 41.7 | 118.8 | 20.3 | 1.6 | 20.3 | 39.7 | 1.3 | 303.3 | 227.1 | 55.9 | 283.0 |
| 1964 | 319.4 457.5 | 68.8 94.9 | 244.2 377.9 | 20.6 27.9 | 1.9 2.6 | 45.8 65.9 | 80.3 131.9 | 4.3 | 56.6 766.2 | 527.1 | 173.2 | 700.3 |
| $\underset{\text { prices }}{\text { Constant (1958) }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 103.9 | 30.3 | 69.3 | 17.0 | 1.5 | 10.2 | 20.1 | 1.4 | 165.1 | 118.7 | 36.1 | 154.8 |
| 1948. | 178.4 | 36.1 | 109.3 | 19.0 | 1.2 | 15.4 | 36.6 | 1.2 | 267.0 | 196.7 | 54.9 | 251.6 |
| 1953 | 225.4 | 47.0 | 140.3 | 20.0 | 1.5 | 22.5 | 50.8 | 1.3 | 340.7 | 253.9 | 64.2 | 318.1 |
| 1964 | 308.6 | 61.6 | 210.8 | 22.3 | 1.6 | 42.5 | 62.8 | 3.9 | ${ }^{492.1}$ | 343.5 | 1100.0 | $\begin{array}{r}\text { 449. } \\ 5 \\ 564 . \\ \hline\end{array}$ |
| 1969 | 390.0 | 67.3 | 268.2 | 24.1 | 1.7 | 55.5 | 77.0 | 4.0 | 620.5 | 434.9 | 130.0 | 564.9 |

Sources: Columns 1 to 4 and 7 to 9 from Bureau of Economic Analysis, national accounts tables 1.3, 1.5, 1.7, and 1.8. Columns 5 and 6 estimated by writer from national accounts data. Columns 10 to 12 derived from preceding columns, as indicated.

By THOMAS W. KRASEMAN and BETTY L. BARKER

# Employment and Payroll Costs of U.S. Multinational Companies 

THIS article analyzes 1966 and 1970 employment and payroll cost data for a sample of 298 U.S. multinational companies (MNC's) responding to a special voluntary survey taken by the Bureau of Economic Analysis. The data reflect the employment and payroll costs of these 298 firms and their 5,237 majorityowned foreign affiliates (those owned 50 percent or more) in the actual circumstances of 1966 and 1970 , i.e., given the existence of U.S. direct investment abroad. No attempt has been made to determine what the situation might have been with a different level or in the total absence of such investment. For example, the data show that the employment growth of U.S. parent companies exceeded that of all U.S. firms from 1966 to 1970 but do not indicate whether this growth would have been faster or slower if these companies' investments abroad had been smaller or nonexistent. The data presented here are no more than a starting point toward answers to the complex question of the effects of U.S. direct investment abroad on U.S. employment and wages.

Problems of comparability exist in the data used in this article, particularly in regard to industry classification. These problems have been resolved to the extent possible; where comparability could not be achieved, it is so indicated in the text.

After a brief description of the sample, the next two sections of this article review data on employment and payroll costs per employee in the United States, relating the U.S. parents in the sample to overall U.S. industry. The following two sections compare employment and payroll costs per employee of the foreign affiliates with those of their parent companies in the United States and to those of other firms in their foreign host countries. Some of the
major findings presented in these four sections are:

1. Employment in the United States of the 298 MNC's grew considerably faster from 1966 to 1970 than domestic employment of all U.S. firms in each of the three major industry groups examined-manufacturing, petroleum, and all other. Some of the growth in MNC employment may have been the result of mergers with and acquisitions of non-multinational companies since 1966. However, even after allowance is made for such mergers and acquisitions, MNC employment growth evidently exceeded that of all U.S. firms in the same industry.

For all industries combined, domestic employment of the 298 MNC's grew from 1966 to 1970 at a rate of 2.7 percent per year, compared with 1.8 percent for all U.S. firms. In individual industries, however, MNC employment growth generally exceeded the U.S. total for the industry by a much wider margin.
2. Comparisons of domestic payroll costs per employee of the MNC's and of all U.S. firms, by industry, show mixed results: costs of the MNC's were higher in some industries and lower in others. For all industries combined, payroll costs per employee of the MNC's were significantly above the national average, mainly because of the heavier weight in the MNC sample than in all U.S. private industry of manufacturing, where payroll costs per employee tend to be relatively high.
3. Employment abroad by the major-ity-owned foreign affiliates in 1970 was equal to one-third of the domestic employment of their U.S. parents. From 1966 to 1970, employment of these affiliates grew twice as fast as domestic employment of their 298 U.S. parents. In most individual industries as well,
growth in employment of the foreign affiliates was considerably faster than that of their U.S. parents. However, the growth of the parent companies was somewhat retarded by the 1970 business recession in the United States.

In most major foreign countries, employment of the foreign affiliates grew faster from 1966 to 1970 than total employment in the same country. Over this period, the rate of growth in employment of affiliates was 6.4 percent annually in developed countries and 1.9 percent in developing countries.
4. In every major industry and area, payroll costs per employee of the foreign affiliates were substantially below payroll costs per employee of the U.S. parents. However, available data for developed countries indicate that, at least in manufacturing, payroll costs per employee of the affiliates exceeded those for the industry as a whole in the same foreign country.

Payroll costs per employee of the foreign affiliates and of the U.S. parents both increased at about 6 percent per year from 1966 to 1970 .

## The sample data

The data on MNC employment and payroll costs used in this article were drawn primarily from the BEA special survey. The survey provides data on the number of employees and total payroll costs of the 298 U.S. parent companies in 1966 and 1970 and of their 5,237 majority-owned foreign affiliates in 1970. The 1966 employment and payroll data for the foreign affiliates in the sample were drawn from BEA's 1966 benchmark survey of the universe of all MNC's. ${ }^{1}$ No attempt was made to

[^30]compute universe estimates for 1970 .
For the foreign affiliates in the sample, the data on payroll costs were reported to BEA in U.S. dollars. The exchange rates used for conversion from foreign currencies to dollars were those normally used by the reporters in their own books. For the payroll cost data, these were probably the rates in effect at the time the affiliates' income statements were drawn, i.e., the end of the calendar year or the nearest fiscal year.

The relative importance of the sample of 298 firms in the MNC universe is suggested by a comparison of the sample with all $3,300 \mathrm{MNC}$ 's reporting in the 1966 benchmark survey. The 298 U.S. parent firms in the sample accounted for 29 percent of the U.S. assets of all MNC's in 1966, and their 5,237 majority-owned foreign affiliates held 55 percent of the assets and employed 62 percent of the workers of all majorityowned foreign affiliates in 1966.

In 1966, according to the benchmark survey data, the 298 parent firms in the sample included a significantly higher proportion of manufacturing and integrated petroleum companies-measured in terms of both numbers of firms and amount of assets-and a correspondingly lower proportion of firms of
other types, than the MNC universe. The reported U.S. assets of these 298 firms in 1966 were distributed 57 percent in manufacturing (excluding petroleum), 19 percent in petroleum, and 24 percent in other industries. The distribution of U.S. assets of all MNC's in 1966 was 34 percent in manufacturing (excluding petroleum), 9 percent in petroleum, and 57 percent in other industries. The reason for this difference is that the 1970 special survey focused on the larger nonfinancial MNC's, which tend to have a heavier concentration in manufacturing and petroleum than the total of MNC's.

## Domestic Employment

Employment in the United States of the 298 parent companies in the MNC sample grew considerably faster from 1966 to 1970 than domestic employment of all U.S. firms in each of three major industry groups-manufacturing, petroleum, and all other-shown in table 1. In manufacturing, domestic employment of the MNC parents increased at an average of 1.9 percent per year, compared with 0.2 percent per year for all U.S. manufacturing firms. In two industries within manufacturing,
chemicals and transportation equipment, the growth rates for the sample and for the entire domestic industry were identical- 2.2 and -1.7 percent per year, respectively. In all other manufacturing industries shown in table 1, the MNC employment growth rate from 1966 to 1970 exceeded the allU.S. rate.

Domestic employment of MNC parents in the petroleum industry increased 2.2 percent per year while that of all U.S. petroleum firms declined slightly. In "other industries"-principally mining, trade, and other serv-ices-domestic employment of MNC's grew 5.6 percent per year, more than twice the growth rate for the comparable all-U.S. aggregate.

For all industries combined, the growth rate of domestic employment of the MNC sample was 2.7 percent annually from 1966 to 1970 , compared with 1.8 percent for all U.S. private industry. This difference is considerably narrower than that in most of the component industries shown in table 1. The reason is the difference in industrial composition of the MNC sample as compared with all U.S. industry. The sample is more heavily weighted toward manufactur-

Table 1.-Employment of All U.S. Firms and of MNC's in Sample, by Industry ${ }^{1}$

| Line | Industry ${ }^{2}$ | U.S. firms |  |  |  |  |  | Majority-owned foreign affiliates of U.S. reporters |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All U.S. firms |  |  | U.S. reporters in 1970 sample survey |  |  | All areas ${ }^{3}$ |  |  | Developed areas |  |  | Developing areas |  |  |
|  |  | 1966 | 1970 | A verage annual rate of $\underset{\text { growth, }}{\substack{\text { gr6-70 }}}$ | 1966 | 1970 | Average annual rate of 1966-70 | 1966 | 1970 | Average annual rate of $\underset{\text { growth, }}{\substack{\text { gre-70 }}}$ | 1966 | 1970 | Average annual growth, 1966-70 | 1966 | 1970 | Average annual rate of $\underset{\text { growth, }}{\text { 1966-70 }}$ |
|  |  | (Thousands) |  | (Percent) | (Thousands) |  | (Percent) | (Thousands) |  | (Percent) | (Thousands) |  | (Percent) | (Thousands) |  | (Percent) |
| 1 2 | All private industry.................... | 57, 19,095 | 61,486 19,224 | 1.8 .2 | 7,968 5,885 | 8,851 6,335 | 2.7 1.9 | 2,412 | 2,970 2,156 | 5.3 6.1 | 1,797 1,408 | 2,300 1,747 | 6.4 5.5 | 599 297 | 647 409 | 1.9 8.3 |
| 3 | Food products. | 1,779 | 1,784 | . 1 | 235 | 260 | 2.6 | 119 | 141 | 4.3 | 82 | 102 | 5.6 | 37 | 39 |  |
| 4 | Chemicals and alied products..- | 1,966 | 1,054 | 2.2 | 665 | 725 | 2.2 | 220 | 250 | 3.2 | 154 | 174 | 3.1 | 66 | 76 | 3.6 |
| 5 | Primary and fabricated metals. . | 2, 702 | 2,698 | 0 | 709 | 724 | . 5 | 86 | 103 | 4.6 | 67 | 79 | 4.2 | 20 | 23 | 3.6 |
| ${ }_{7}^{6}$ | Machinery Transportation equipment............... | 3,831 2,210 | 3,906 2,063 7 | -1.75 | 1,617 | 1,860 | 3.6 -1.7 | ${ }_{421}^{555}$ | 731 <br> 546 | 7.1 | 486 382 | 615 474 | 6.1 5.5 | 69 39 | 116 | 13.9 16.6 |
| 8 | Other-..................... | 7,607 | 7,719 | $-1.4$ | -978 | 1,198 | -1.2 | 303 | 385 | 6.2 | ${ }_{237}^{382}$ | 302 | 6. 2 | 66 | 83 | 5.9 |
| 9 | Petroleum ${ }^{\text {4 }}$ | 486 | 480 | -. 2 | 479 | 522 | 2.2 | 296 | 271 | -2.2 | 159 | 158 | 0 | 124 | 98 | -5.7 |
| 10 | Other industries.. | 37,678 | 41,782 | 2.6 | 1,604 | 1,994 | 5.6 | 411 | 542 | 7.2 | 229 | 395 | 14.6 | 179 | 140 | -6.0 |
| 11 | Mining. | 13, 349 | ${ }_{15} 357$ | . 6 | (D) | 91 | (D) ${ }^{\text {d }}$ | 79 | 74 | -1.6 | 28 | 45 | 12.6 19.9 | 51 46 | 29 54 | -13.2 |
| 13 | Other. | 24,000 | 26,317 | 2.3 | (D) | 1,314 | (D) ${ }^{\text {( }}$ | 163 | 161 | ${ }^{(*)}$ | 79 | 98 | 5.5 | 82 | 58 | -8.3 |

(D) Suppressed to avoid disclosure of data for individual reporters. *Less than 0.05 per-
cent. $( \pm)$.

1. Employment of all U.S. firms is defined as the average number of full-time and parttime employees as caluclated by BEA in conjunction with the annual national income and product accounts. These data are from Survey or Current Business, July 1970, page 39 , and July 1973, page 41. Data for reporters in survey are from basic data table 1, line 22 and data for forign amfliates are from basic data table set 3 , line 23 , from the Special Survey of U.S. Multinational Companies, 1970 .
2. Data for all U.S. firms are classifled by industry of the individual establishment. Data
for reporters in survey are classified by the major industry of the consolidated U.S. enterprise. Foreign affiliates are classified by industry of the foreign affiliate.
3. Data for affiliates classified as international are included in figures for all areas but excluded from figures for developed and developing areas.
4. The petroleum industry is defined on an integrated basis, the usual practice for direct investment statistics; data for all U.S. firms have been adjusted to this basis to the extent possible.
Source: U.S. Department of Commerce, Buresu of Economic Analysis, International Investment Division and National Income and Wealth Division.
ing, where domestic employment growth in 1966-70 was relatively slow; this slowed the growth in total domestic employment of the MNC's relatively more than it did that of all U.S. firms. If the distribution of employment among manufacturing, petroleum, and "other industries" had been the same for the 298 MNC's as for total U.S. private industry, domestic employment growth of the MNC's from 1966 to 1970 would have been 4.4 percent annually instead of 2.7 percent.

The slower-than-average growth in U.S. manufacturing employment from 1966 to 1970 was at least partly due to the fact that 1970 was a recession year in the United States, and the recession had a greater adverse impact on employment in manufacturing than in other industries.
Employment growth of the 298 MNC's in the sample from 1966 to 1970 stemmed partly from construction of new plants or expansion of domestic operations which were already in existence in 1966, and partly from the inclusion in the 1970 sample of reporters which were not direct investors abroad in 1966 or which were direct investors then but which had since merged with or acquired domestic companies which were not direct investors in 1966. Of the companies reporting in the 1970 survey, only a very small fraction were not themselves direct investors in 1966, but a considerable number had merged with or acquired companies which were not direct investors in 1966. There is little evidence to indicate how much of the 1966-70 domestic employment growth of the 298 companies reflects such mergers or acquisitions. However, another study suggests that mergers and acquisitions probably account for no more than one-fourth of the growth in employment of the 298 companies. ${ }^{2}$

The employment data for the 298 MNC's, broken down by industry, are not strictly comparable to those for all U.S. firms, since in the MNC data the entire consolidated domestic enterprise is classified in the industry of its major product, while in the national

[^31]totals each establishment within an enterprise is classified separately. Thus, if an enterprise had three establishments each producing a different product, its employment in the all-U.S. figures would be distributed among the three industries involved; in the MNC data, all of its employment would be shown in just one of the three in-dustries-the one in which the consolidated enterprise had the largest sales.

There is no way to directly determine what effect the difference in classification systems has on the employment data. However, an indirect method of estimating the magnitude of the effect was attempted (see Appendix). The results indicate that classification problems, while fairly sizable in some individual industries, are probably not large enough to upset the major conclusion to be drawn from table 1-that employment was growing at a faster rate in the MNC's than in the United States as a whole in nearly every industry examined.

The petroleum industry presented especially difficult problems of comparability related to the establishmententerprise classification problem. This is reflected in table 1, where domestic employment of the petroleum firms in the MNC sample is shown as slightly larger than the total for all U.S. petroleum firms in 1970. The discrepancy arises because, in the MNC data, the petroleum industry is defined on an integrated basis, including all stages of production-exploration and development, extraction, refining, transportation, and marketing-in a single industry category whereas in the data for all U.S. firms each of these operations is normally classified separately. For table 1, an attempt was made to construct data for the entire domestic industry on the same integrated basis as in the MNC sample. However, the all-U.S. employment data by industry that are used in this article, which were calculated by BEA in conjunction with its national income data, ${ }^{3}$ are not
3. The BEA employment data are used in preference to employment estimates of the BLS because they agree conceptually with the annual payroll data for all U.S. firms us`d in this article. The BEA annual payroll data for all U.S. firms, in turn, are the most comparable definitionally to the payroll data of the MNC's in the special survey sample.
sufficiently detailed to permit this. Thus, the figures for all U.S. petroleum firms shown in table 1 include only crude petroleum and natural gas extraction, pipeline transportation, and petroleum refining; estimates for gasoline stations, petrochemicals, and tanker transportation were not available in the BEA data.

As noted earlier, the employment estimate for all U.S. petroleum firms in table 1 declined very slightly from 1966 to 1970. However, detailed employment data from the Bureau of Labor Statistics, which are not completely comparable to the data in table 1, indicate that employment in industrial organic chemicals (primarily petrochemicals) and gasoline service stations rose substantially from 1966 to $1970 .{ }^{4}$ If the BLS data for these two industries were added to BLS data for the industries included in the U.S. petroleum industry in table 1 , employment in the U.S. petroleum industry thus integrated would have risen at an annual rate of 1.8 percentnot far from the 2.2 percent rate for the petroleum companies in the MNC sample.

## Domestic Payroll Costs

Comparisons of domestic payroll costs per employee of the 298 MNC's with those of all U.S. firms, by industry, give mixed results (table 2). For manufacturing as a whole, domestic payroll costs per employee of the MNC's were considerably above those of all U.S. firms in both 1966 and 1970. Within manufacturing, however, the MNC's in 1970 had lower payroll costs than the all-U.S. figure in three of the industries shown in table 2-foods, chemicals, and transportation equipment-but considerably higher payroll costs in the other three industries. In petroleum and mining, domestic payroll costs per employee of the MNC's were substantially below the all-U.S. figures, in trade they were about the same, while in other industries taken together they were higher.

[^32]For all industries combined, domestic payroll costs per employee of the MNC's exceeded the all-U.S. average in 1970 by $\$ 1,860$ or nearly 25 percent. This substantial difference in the overall totals, compared with the mixed results for individual industries, at least partly reflects differences in industry composition between the MNC sample and all private U.S. industry: if the MNC employment total had the same industry distribution as all U.S. private employment, the difference in total payroll costs, although not for the individual industries comprising the totals, would largely disappear. Earnings of manufacturing employees are above the general average in both the MNC's and all U.S. firms; however, manufacturing accounted for nearly three-quarters of the employment of the 298 parents but for only about onethird of all U.S. private employment. Moreover, within manufacturing, the proportion of employment in the highwage metal goods industries was considerably greater in the MNC's than in the United States as a whole.

After adjustment for problems of industry composition in the overall totals, differences in payroll costs between the MNC's and all U.S. firms, for some of the individual industries shown in table 2, still remain. These differences may result partly from the classification problem-the fact that MNC employment and payroll cost data are classified on the basis of the industry of the entire domestic enterprise, while the all-U.S. data are classified on the basis of each establishment. However, as discussed in the Appendix, this factor probably accounts for only a minor part of the differences, except perhaps in petroleum. The MNC data for the integrated petroleum industry include employees engaged in wholesale and retail distribution of oil and gaso-line-activities paying much lower wages than extraction, transportation, and refining of petroleum, which are the only activities included in the data for all U.S. petroleum firms. However, no attempt has been made to estimate how much impact this factor may have.
A more important explanation for the differences between the MNC and
all-U.S. figures, by industry, probably lies in the fact that the industries shown in table 2 are quite broad and within each industry the MNO's can be engaged in very different types of activity from other U.S. firms, with very different levels of average pay. Within the chemical industry, for instance, data for all U.S. firms indicate that average cash weekly earnings of production workers in 1970 ranged from $\$ 190$ in soaps and detergents down to $\$ 124$ in fertilizers. In nonelectrical machinery, the range was from $\$ 168$ in internal combustion engines to $\$ 125$ in textile machinery. ${ }^{5}$
Finally, differences between payroll costs per employee between the MNC and all U.S. firms for individual industries may have resulted from the varying impact on these two groups of the many complex factors which affect wage rates, including, among others, technological efficiency, profitability, or the rate of expansion of the company. Since multinational companies tend to be among the largest, fastest growing,

5 Ibid. pp. 177-221 and 473-496.

Table 2.-Payroll Costs Per Employee of All U.S. Firms and MNC's in Sample, by Industry ${ }^{12}$

| Line | Industry ${ }^{\text {a }}$ | U.S. firms |  |  |  |  |  | Majority-owned foreign affiliates of U.S. reporters |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All U.S. firms |  |  | U.S. reporters in 1970 sample survey |  |  | All areas ${ }^{\text {4 }}$ |  |  | Developed areas |  |  | Developing areas |  |  |
|  |  | 1966 | 1970 | Average annual rate of growth, $1966-70$ | 1966 | 1970 | Average annual rate of growth, 1966-70 | 1966 | 1970 | Average annual rate of growth, 1966-70 | 1966 | 1970 | Average annual rate of growth, 1966-70 | 1966 | 1970 | Average annual rate of growth, 1966-70 |
| 1 | All private industry .......................... | (Dollars) |  | (Percent) | (Dollars) |  | (Percent) | (Dollars) |  | (Percent) | (Dollars) |  | (Percent) | (Dollars) |  | (Percent) |
|  |  | 6,130 | 7,760 | 6.1 | 7,750 | 9,620 | 5.5 | 3,920 | 4,900 | 5.7 | 4,230 | 5,350 | 6.0 | 2,950 | 3,250 | 2.5 |
| 2 | Manufacturing. | 7,490 | 9,340 | 5.7 | 8,290 | 10,300 | 5.6 | 3,820 | 4,820 | 6.0 | 4,120 | 5,290 | 6.5 | 2,400 | 2,810 | 4.0 |
| 3 | Food products | 6,800 | 8,590 | 6. 0 | 6,740 | 8,160 | 4.9 | 3,210 | 3, 780 | 4.2 | 3, 760 | 4,350 | 3.8 | 2, 030 | 2,280 3,320 | 3.0 |
| 4 5 | Chemicals and allied products...- | 9,040 8,420 | 11,380 10,180 | 5.9 4.9 | 8,460 8,410 | 10,420 10,250 | 5.4 5.1 | 3,690 3,560 | 4,940 4,370 | 7.6 5.3 | 4,190 4,040 | 5,650 5,040 | 7.8 5.6 | 2,520 1,750 | 3,320 2,260 | 7.2 6.6 |
| 6 | Machinery... | 8,010 | 10, 050 | 5.8 | 8,260 | 10,760 | 6.9 | 3,770 | 4,870 | 6.6 | 4,010 | 5,330 | 7.4 | 2,070 | 2,440 | 4.2 |
| 7 | Transportation equipment. | 9,790 | 12,500 | 6.3 | 8,820 | 11, 120 | 6.0 | 4,260 | 5, 250 | 5.4 | 4,350 | 5, 520 | 6.1 | 3,410 | 3,510 | . 7 |
| 8 | Other. | 6,140 | 7,730 | 5.9 | 7,580 | 8,910 | 4.1 | 3, 710 | 4,520 | 5.1 | 4,070 | 5, 040 | 5.5 | 2, 420 | 2,640 | 2.1 |
| 9 | Petroleum ${ }^{\text {s }}$. | 9,520 | 12,490 | 7.0 | 8,680 | 10,780 | 5.6 | 5,050 | 6,530 | 6.6 | 5,140 | 7,130 | 8.5 | 5, 050 | 5,620 | 2.7 |
| 10 | Other industries. | 5,390 | 6,980 | 6.7 | 5,530 | 7,140 | 6.6 | 3,500 | 4,390 | 5.8 | 4,350 | 4,880 | 2.9 | 2,400 | 2,900 | 4.8 |
| 11 | Mining. ............................. | 8,050 | 10,530 | 6.9 | (D) | 9,840 | (D) | 3,700 | 5,320 | 9.6 | 4,610 | 6,910 | 10.7 | 3,200 | 2,860 | -2.7 |
| 12 | Trade....................................... | 5,180 | 6,370 | 5.3 | 4,850 | 6,340 | 6.9 | 3,840 | 3,890 | . 3 | 4,250 | 4,080 | -1.1 | 2, 630 | 2,830 | 1.9 |
| 13 | Other. | 5,470 | 7,270 | 7.4 | (D) | 7,320 | (D) | 3,070 | 4,900 | 12.4 | 4,420 | 6,020 | 8.0 | 1,780 | 2,930 | 13.3 |

(D) Suppressed to avoid disclosure of data for individual reporters.

1. For all U.S. firms, average payroll costs were calculated by dividing total compensation of employees in a given industry group by the average number of full-time and part-time employees in that industry group: data are from SURVEY OF CURRENT BUSINESS, July 1970, page 39, and July 1973, page 41. Data for reporters in survey were calculated from employment data in basic data table 1, line 22, and from data on total payroll costs in basic data table 1, line 23, of the Special Survey of U.S. Multinational Companies, 1970 . Data for foreign affiliates were calculated from employment data in basic data table set 3 , line 23 , and from data on total payroll costs in basic data table set 3 , line 24 , of the $S p$ pcial Suriey.
2. All data are rounded because the last digit of each figure was not significant.
3. In employee compensation data for all U.S. firms, the wage and salary component is classified bv industry of the individual establishment whereas the supplementary benefits
component is classified by major industry of the U.S. firm. Reporters in survey are classified by the major industry of the consolidated U.S. enterprise. Foreign affiliates are classified by industry of the foreign affiliate.
4. Data for affliates classified as international are included in figures for all areas but excluded from figures for developed and developing areas.
5. The petroleum industry is defined on an integrated basis, the usual practice for direct investment statistics; data for all U.S. firms have been adjusted to this basis to the extent possible.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, International Investment Division and National Income and Wealth Division.
and most technologically advanced firms in the United States, one might expect them to pay higher wages to their employees than other firms in the same industry. However, this is not the case for some of the individual industries shown in table 2, nor is it necessarily true for the all-industry totals if differences in industry composition between the MNC sample and all U.S. firms are taken into account.

## Foreign Employment

Employment in the 5,237 majorityowned foreign affiliates of the 298 MNC's totaled 3 million in 1970 (table 1). Nearly three-quarters of the total was in manufacturing and most of the rest was in petroleum and trade-about 10 percent each. Within manufacturing, 34 percent was in machinery (electrical and nonelectrical), 25 percent in transportation equipment, and 12 percent in chemicals. ${ }^{6}$

Total foreign employment of the affiliates in the sample in 1970 was equal to one-third of their U.S. employment. Ratios of foreign to U.S. employment were highest in mining, at 81 percent, and in trade and petroleum, each almost 52 percent. The ratio in manufacturing was 34 percent.

Employment of the majority-owned foreign affiliates in the sample increased an average 5.3 percent annually from 1966 to 1970, double the growth rate of employment of the 298 parent companies in the United States. This reflects the much faster expansion in

[^33]the foreign operations of the MNC's than in their domestic operations during this period. For instance, the 1970 survey data indicate that plant and equipment expenditures in the United States by the 298 parent companies increased at an average annual rate of about 6 percent from 1966 to 1970 , while data from a separate semiannual BEA survey indicate that plant and equipment expenditures abroad by the universe of all foreign affiliates increased at almost twice that rate. (Plant and equipment expenditure data for just the 5,237 majority-owned foreign affiliates in the 1970 survey sample are not available.)

Also contributing to the sharp difference in growth rates between the MNC parent companies and their foreign affiliates was the 1970 business recession in the United States, which had no counterpart in major foreign countries. While MNC data for 1969 are not available, total U.S. employment grew on the average by 2.5 percent annually from 1966 to 1969 and only 1.8 percent annually from 1966 to 1970 ; in manufacturing the average growth rates were 2 percent annually from 1966 to 1969 and only 0.4 percent from 1966 to 1970 .

The 1966-70 growth rate of employment of foreign affiliates exceeded that of U.S. parent companies in nearly all major industries shown in table 1. Industries showing the largest differences were trade, with a 16.2 percent annual growth rate for affiliates compared to only 3.4 percent for U.S. parent companies; transportation equipment, with a 6.7 percent rate abroad and a moderate decline domestically; and primary and fabricated metals, with a 4.6 percent growth rate abroad and only slight growth domestically. The large differences in transportation equipment and metals manufacturing partly reflect the heavy adverse impact of the 1970 recession on domestic employment in durable goods manufacturing. At the opposite extreme, employment of foreign affiliates in petroleum declined about 2 percent annually while that of U.S. parent companies increased 2 percent annually. Employment of foreign mining affiliates also declined. It is not clear how much
of these reductions may have been due to expropriations by foreign governments or selloffs under pressure from foreign governments.

It should be noted that, in foreign countries, as in the United States, the growth in employment of the MNC sample from 1966 to 1970 partly reflected mergers with and acquisitions of other firms after 1966. The data do not indicate how much of the employment increase was attributable to such mergers and acquisitions.

The distribution of employment in the foreign affiliates, classified by major industry of the affiliates, is roughly in line with the distribution of domestic employment in the 298 U.S. parent firms, classified by major industry of the parent (table 3). The proportion of employment in manufacturing is virtually the same for parents and affiliates, both in total and in most of the component manufacturing industries; the proportion of employment in petroleum is greater, and in other non-manufacturing industries smaller, for the foreign affiliates than for the 298 U.S. parent firms, but the differences are not large.

By area, about four-fifths of the employment in the foreign affiliates of the 298 MNC's in 1970 was in developed countries. The major difference in the industrial composition of employment in developed versus developing countries was the greater importance of mining and petroleum in the latter. In 1970, these two industries accounted for 20 percent of the foreign affilates' employment in developing areas, compared with only 9 percent in developed countries. Manufacturing, on the other hand, accounted for 76 percent of the affiliates' employment in developed countries, compared to 63 percent in developing areas. The share of affiliates' employment in trade was also larger in developed than in developing countries.

The average annual growth of employment in foreign affiliates from 1966 to 1970 was 6.4 percent in developed countries and 1.9 percent in developing countries (table 1). There were sharp declines in petroleum and mining employment in developing nations, and employment of trade affliates increased
only 4 percent per year in those nations compared to 20 percent per year in developed countries. On the other hand, employment in manufacturing affiliates grew 8.3 percent annually in the developing countries, compared to 5.5 percent in the developed areas. The growth of manufacturing employment in developing countries was especially strong in machinery and transportation equipment.

In most major foreign countries where the 298 MNC's were operating, employment in the foreign affiliates grew faster than total employment (including both government and private) in the same country (table 5). In the 6-nation European Economic Community, as it was constituted prior to 1973 , total employment increased at an annual rate of 0.4 percent from 1966 to 1970 compared with a 6.7 percent rate for the MNC affiliates in those countries. Employment gains for the MNC affiliates were large everywhere in the EEC, but particularly in Belgium and the Netherlands. The very slow average employment rise in the EEC appears to be due mainly to tight supplies of labor-unemployment has been very low for much of the postwar period-combined with slow population growth. The surprisingly sharp gains of employment in MNC foreign affiliates in the face of tight labor supplies probably reflects the fact that the MNC's were situated in the most rapidly growing industries. In addition, some part of the expansion in foreign affiliates was probably due to acquisitions of existing firms as opposed to internal expansion, although data on this point are lacking.

In Europe outside the 6-nation EEC, employment growth of the affiliates was even faster- 9.6 percent annuallywhile total employment remained virtually unchanged. In Australia and Japan, among the other major developed countries examined, employment of affiliates grew about 6 percent per year, compared with growth rates of only 2.9 and 1.5 percent a year, respectively, for total employment.

In manufacturing, the increase in employment of the affiliates from 1966 to 1970 was very rapid in every major European nation, ranging from 4.9

Table 3.-Industry Distribution of Employment of Sample MNC's [Percent]

| [Percent] |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Industy | U.S. reporters in 1970 sample survey |  | Majority-owned foreign affiliates of U.S. reporters |  |  |  |  |  |
|  |  |  | All areas |  | Developed areas |  | Developing areas |  |
|  | 1966 | 1970 | 1966 | 1970 | 1966 | 1970 | 1966 | 1970 |
| All private industry....................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Manufacturing ..... | 73.9 | 71.6 | 70.6 | 72.6 | 78.4 | 76.0 | 49.6 | 63.2 |
| Food products .-.............- | 2.9 | 2.9 | 4.9 | 4.7 | 4.6 | 4.4 | 6.2 | 6.0 |
| Chemicals and allied products. | 8.3 | 8.2 | 9.1 | 8.4 | 8.6 | 7.6 | 11.0 | 11.7 |
| Primary and fabricated metals. | 8.9 | 8.2 | 3.6 | 3.5 | 3.7 | 3.4 | 3.3 | 3.6 |
| Transportation equipment...-- | 20.3 21.1 | 21.0 17.7 | 23.0 17.5 | 24.6 18.4 | 27.0 21.3 | 26.7 20.6 | 11.5 6.5 | 17.9 11.1 |
| Other-.. | 12.3 | 13.5 | 12.6 | 13.0 | 13.2 | 13.1 | 11.0 | 12.8 |
| Petroleum. | 6.0 | 5.9 | 12.3 | 9.1 | 8.8 | 6.9 | 20.7 | 15.1 |
| Other industries.......-.............. | 20.1 | 22.5 | 17.0 | 18.2 | 12.7 | 17.2 | 30.0 | 21.6 |
| Mining-...-...--.-.-.............. | (D) | 1.0 | 3.3 | 2.5 | 1.6 | 2.0 | 8.5 | 4.5 |
| Trade.-............................ | ${ }^{(D)} 5$ | 6.6 | 7.0 | 10.4 | 6.8 | 11.0 | 7.7 | 8.3 |
| Other. | (D) | 14.8 | 6.8 | 5.4 | 4.4 | 4.3 | 13.7 | 0.0 |

D Suppressed to avoid disclosure of data for individual reporters.
Note.-Calculated from data in table 1. Details may not add to totals because of rounding.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, International Investment Division.

Table 4.-Employment and Payroll Costs Per Employee of MNC's in Sample, by Area ${ }^{1}$


1. Employment of U.S. parent is from basic data table 1, line 22, and employment of foreign affliates is from basic data table set 3, line 23, in the Special Survev of U.S. Multinational Companies, 1970 . Average payroll costs of MNC's were calculated using these employment data and data on total payroll costs as shown in basic data table 1, line 23, for U.S. parents and basic data table set 3 , line 24, for foreign affiliates, in the Specinl Survey.
2. Data on average payroll costs were rounded because the last digit of each figure was not significant.
3. Data for affiliates classified as international are included in figures for all foreign areas but excluded from figures for developed and developing areas
fied by major industry of the consolidated U.S. enterprise; foreign affiliates are classified by industry of the foreign affiliate.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, International Investment Division.
percent per year in the United Kingdom to 10.1 percent in Belgium and 16.6 percent in the Netherlands (table 6). These growth rates were substantially
higher than those for each country's total manufacturing employment. This was also true in Australia, where employment of the manufacturing affiliates

Table 5.-Total Employment and Employment of Foreign Affiliates in Sample, Selected Countries, 1966 and 1970

| Area | Total employment |  | Employment of foreign affiliates |  | Percent of foreign affiliates in total |  | A verage annual rate of growth 1966-70 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1966 | 1970 | 1966 | 1970 | 1966 | 1970 | Total | Foreign affiliates |
|  | (Thousands) |  |  |  | (Percent) |  |  |  |
| EEC Six, total. | 73,062 3623 | 74,278 3,734 | 593 | 770 81 | 0.8 1.6 | 1.0 2.2 | 0.4 | 6.7 9.2 |
| France... | 19,684 | 20,410 | 145 | 178 | 1.7 | 2.9 | . 8 | 5.3 |
| Germany | 26,601 | 26, 705 | 273 | 351 | 1.0 | 1.3 | . 1 | 6.5 |
| Netherlands. | 4,413 | 4,567 | 33 | 52 | . 7 | 1.1 | . 9 | 12.0 |
| Other EEC. | 18,741 | 18, 862 | 85 | 108 | . 5 | . 6 | . 2 | 6.2 |
| Other Europe, total. | 60,879 | 60,915 | 554 | 800 | . 9 | 1.3 | $\left.{ }^{1}\right)$ | 9.6 |
| United Kingdom. | 25,476 | 24,709 | 420 | 587 | 1.6 | 2.4 | -. 8 | 8.7 |
| Selected major non-European developed countries: |  |  |  |  |  |  |  |  |
| Australia.......... | 4,761 | 5,329 | 114 | 144 | 2.4 | 2.7 | 2.9 | 6.0 |
| Canada New Zealand. | 7,152 | 7,879 | 440 10 | 474 10 | 6.2 1.0 | $\begin{array}{r}6.0 \\ \hline 9\end{array}$ | 2.4 | 1.9 |
| Japan... | 47, 210 | 50, 150 | 39 | 49 | ${ }^{1} .1$ | . 1 | 1.5 | 5.9 |

1. Less than 0.05 percent. ( $\pm$ )

Sources: Employment estimates for individual countries are unpublished data furnished by U.S. Department of Labor, Bureau of Labor statistics, Office of Productivity, Division of Foreign Labor Statistics and Trade. Employment data for foreign affiliates by country are unpublished data from U.S. Department of Commerce, Bureau of Economic Analysis, Inter-
national Investment Division.

Table 6.-Total Manufacturing Employment and Employment of Manufacturing Foreign Affiliates in Sample, Selected Countries, 1966 and 1970


1. Less than 0.05 percent. ( $\ddagger$ )

Sources: Employment estimates for individual countries are unpublished data furnished by U.S. Department of Labor, Bureau of Labor Statistics, Office of Productivity, Division of Foreign Labor Statistics and Trade. Employment data for foreign affiliates by country are unpublished data from U.S. Department of Commerce, Bureau of Economic Analysis,

Table 7.-Payroll Costs Per Employee: Foreign Affiliates As a Percent of U.S. Parent Companies ${ }^{1}$

|  | All foreign areas |  | Developed areas |  | Developing areas |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1966 | 1970 | 1966 | 1970 | 1966 | 1970 |
| All private industry .-................................... | 50.6 | 50.9 | 54.6 | 55.6 | 38.1 | 33.8 |
| Manufacturing. | 46.1 | 46.8 | 49.7 | 51.4 | 29.0 | 27.3 |
| Food products.--.-.-.-.-..............-- | 47.6 | 46.3 | 55.8 | 53.3 | 30.1 | 27.9 |
| Chemicals and allied products.-......... | 43.6 | 47.4 | 49.5 | 54.2 | 29.8 | 31.9 |
| Primary and fabricated metals........... | 42.3 | 42.6 | 48.0 | 49.2 | 20.8 | 22.0 |
|  | 45.6 | 45.3 | 48.6 | 49.5 | 25.1 | 22.7 |
| Transportation equipment..............-- | 48.3 | 47.2 | 49.3 | 49.6 | 38.7 | 31.6 |
| Other-.............................-.............. | 48.9 | 50.7 | 53.7 | 56.6 | 31.9 | 29.6 |
| Petroleum. | 58.2 | 60.6 | 59.2 | 66.1 | 58.2 | 52.1 |
| Other industries. | 63.3 | 61.5 | 78.7 | 68.4 | 43.4 | 40.6 |
| Mining....... | (D) | 54.1 | (D) | 70.2 | (D) | 29.1 |
| Trade... | 79.2 | 61.4 | 87.6 | 64.4 | (D) 54.2 | 44.6 |
| Other. | (D) | 66.9 | (D) | 82.2 | (D) | 40.0 |

[^34]1. Average payroll costs of foreign affiliates are classified by industry of foreign affiliate; average payroll costs of U.S. parents are classified by industry of consolidated domestic enterprise.

Note.-Percents are calculated from data in table 2.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, International Investment Division.
grew at an annual rate of 5.9 percent, triple the growth rate for total Australian manufacturing. However, in most other major developed countries outside Europe, the growth rate of employment in manufacturing affiliates fell short of the corresponding national rate of increase. In Canada, employment of the manufacturing affiliates actually declined from 1966 to 1970 while total manufacturing employment expanded moderately.

Of the major developed countries examined, Canada had the heaviest concentration of employment by the foreign affiliates in the sample. Approximately 6 percent of total Canadian employment in 1970 was accounted for by these foreign affiliates. The figure was nearly 3 percent for Australia and about 1 percent both in the 6-nation EEC and in other Europe. It should be noted that the percentages cited here reflect only the majority-owned foreign affiliates of the 298 MNC's in the sample; the percentages could be considerably larger-perhaps as much as double in Canada and one-third higher in Europe-for the universe of all foreign affiliates.

The foreign affiliates of the 298 MNC's accounted for a considerably larger share of manufacturing employment than of total employment in every major country examined. The highest proportion was in Canada, where in 1970 nearly 18 percent of the manufacturing workers were employed by foreign affiliates in the MNC sample. The proportion was 8 percent in Australia and almost 5 percent in the United Kingdom and Belgium. The proportion in Japan was only 0.3 percent, mostly due to Japanese restrictions on entry by foreign firms. Again, these percentages reflect only the foreign affiliates in the sample and could be substantially higher for the universe of all foreign affiliates.

## Payroll Costs of Foreign Affiliates

Payroll costs per employee were substantially lower in the foreign affiliates than in the 298 U.S. parents for every major industry and every major foreign area (tables 2 and 4). Payroll costs per employee of affiliates in Canada were
the closest to those of the U.S. parent companies, but even here the gap was sizable. These differences are basically due to the generally lower wage levels in foreign countries, although in individual cases they may also reflect differences in the mix of high-wage versus low-wage industries in the averages. Another factor may be the greater proportion of higher-salaried executives employed by MNC's domestically than abroad. On the average, payroll costs per employee in 1970 were about half as large for the foreign affiliates as for the 298 U.S. parent firms, not only for the all-industry total but also for all manufacturing and for the component manufacturing industries (table 7). Outside of manufacturing, payroll costs per employee of the foreign affiliates averaged 61 percent of the level of parent firms in the same industry, with mining at 54 percent, petroleum and trade each at 61 percent, and other industries at 67 percent.

In interpreting the payroll cost data used here and elsewhere in this article, it must be kept in mind that lower (or higher) payroll costs per employee do not of themselves mean lower (or higher) labor costs per unit of output. Unit labor costs also depend on output per man-hour, and such data are not available at this time.

In developed countries, payroll costs per employee of the foreign affiliates were substantially higher, and thus closer to the average in U.S. parent firms, than in developing countries. Payroll costs per employee of foreign affiliates in developed countries averaged 56 percent of the level for U.S. parent firms in 1970, while in developing areas the figure was only 34 percent. In manufacturing, payroll costs per employee of affiliates in developed countries were 50 percent of the level for U.S. parent manufacturing firms, compared with 27 percent in developing countries. The smallest difference in payroll costs as between the developed and the developing countries was in the petroleum industry; in both groups of countries, affiliates in the petroleum industry had higher payroll costs per employee than in any other industry.

Payroll costs per employee of the foreign affiliates increased from 1966 to

1970 at an annual rate of 5.7 percent, virtually the same as the increase for the 298 U.S. parent firms and for all private U.S. industry (tables 2 and 4). Rates of increase varied substantially among major areas, but this may have partly reflected differences in industry mix. One surprising development was the actual decline of payroll costs per employee of affiliates in trade in the developed countries (table 2). This decline may have resulted from a proportionately larger expansion in retail operations, where wages are relatively low, than in wholesale operations in these countries. Although separate employment data for retail trade are not now available, employment in trade as a whole more than doubled from 1966 to 1970 .
Available evidence indicates that payroll costs per employee of affiliates in manufacturing were significantly above the all-manufacturing averages
in the same foreign country. While data problems may be especially serious here, the Bureau of Labor Statistics ${ }^{7}$ was able to compile roughly comparable figures on compensation per employee in manufacturing for selected foreign countries. Comparison of these data with the BEA sample data indicates that in 1970, for example, foreign affiliates in manufacturing paid approximately $\$ 700$ more per employee in the United Kingdom, $\$ 1,200$ more in Canada, $\$ 1,000$ more in Germany, $\$ 800$ more in France, $\$ 1,300$ more in Italy, and $\$ 1,700$ more in Japan than the average for all manufacturing firms in the country. However, these comparisons may be considerably affected by differences in the industry mix of the foreign affiliates as compared with the nation as a whole.
7. U.S. Department of Labor, Bureau of Labor Statistics, Office of Productivity, Division of Foreign Labor Statistics and Trade.

## Appendix

On an industry-by-industry basis, the domestic employment data for the 298 MNC's in the sample are not strictly comparable to the data for all U.S. firms because of unavoidable differences in industry classification between the two data sets. As indicated earlier, the domestic data for the MNC's are classified in the major industry of the entire consolidated U.S. enterprise, while the all-U.S. firm data are broken down by the industry of each individual establishment within the enterprise.
There is no direct way to determine the magnitude of the classification problems in the domestic employment data. However, rough estimates of the magnitude can be obtained

Table 8.-U.S. Reporters' Domestic Sales by Industry: Percentage in Dominant Industry and in Other Industries [Percent]

| Industry | Sales in dominant industry | Sales in other specified industries | Sales in unspecified industries |
| :---: | :---: | :---: | :---: |
| Total. | 92.5 | 0 | 7.5 |
| Manufacturing... | 85.5 | 4.7 | 9.8 |
| Food products - .-. | 78.4 | 12.5 | 9.1 |
| Chemicals and allied products. | 62.3 | 27.0 | 10.7 |
| Primary and fabricated metals.... | 76.2 | 12.4 | 11.4 |
| Machinery - --... | 62.9 | 23.1 | 14.0 |
| Transportation equipment | 82.2 | 12.6 | 5.2 |
| Other............... | 70.0 | 20.1 | 9.9 |
| Petroleum.............. | 85.6 | 12.0 | 2.4 |
| Other industries, total.. | 87.1 | 9.8 | 3.1 |
| Mining.-.... | 55.7 | 38.0 | 6.3 |
| Trade. | 88.3 | 9.7 | 2.0 |
| Other. | 83.4 | 13.1 | 3.5 |

1. Based on unpublished data from the 1970 special survey

Source: U.S. Department of Commerce, Bureau of Economic Analysis, International Investment Division
indirectly by taking sales data broken down by product, which was supplied by the 298 parent firms in the special survey, and then manipulating them to obtain estimates of employment broken down by product, using the procedure đescribed below.
In the 1970 special survey, U.S. parent firms were asked to list their major products and to indicate the percent of their total sales in each product class. They were asked to account for at least 75 percent of their total sales in this way. Thus, a rough regrouping of sales-and then of employment, based on the regrouping of sales-by product becomes possible. The resulting employment figures by product class for the MNC's are then roughly comparable in terms of industry classification to the all-U.S. figures which are based on establishment reporting.
The steps for estimating employment from sales data were as follows:

1. For each MNC parent company, the sales total was distributed among the major industries shown in table 1, using the figures on percent of sales by product class reported by the firm.
2. The redistributed sales figures for each firm were then added up by industry, to give new industry sales totals. Since companies were not asked to classify more than 75 percent of their sales by industry, these totals necessarily omitted the portion of sales not classified. Table 8 shows the percentage of sales which were in the dominant MNC industry, the percentage of sales actually in other industries, and the percentage not specified by industry.
3. Average sales per employee by industry were computed, using the original MNC data on sales and employment. When these were compared with the amount of shipments per employee for the same industries from the Census Bureau's Annual Survey of Manufactures, they agreed very closely in nearly all cases.
4. The total of sales actually specified for each industry, as redistributed in step (2), were divided by the sales per employee from step (3), in order to obtain new estimates of employment redistributed by product class.
5. Because of the mechanics of the reweighting process, and because only those sales specified by industry could be
used, the new employment estimates by industry differed from the actual total of employment for all reporting MNC parent firms, which was $8,851,000$ as shown in table 1 . Therefore, it was necessary to "force" the new industry employment figures to equal this actual employment total. This was done by computing the percentage distribution of the new employment estimates by industry (using their own total) and applying this distribution to the $8,851,000$ employment total. One effect of this step was to distribute the unspecified portion of sales (and hence of employment) in the same way as the specified portion.
Table 9 shows the end results of this estimating procedure. The first two columns show the effect of the redistribution of sales. In the redistribution process, a given industry both gained sales from, and lost sales to, other industries. In table 9 , the losses and gains in each industry tend to balance out, and the revised distribution of sales does not differ markedly from the original distribution.
Table 9 also shows employment by industry as originally calculated and after the redistribution process. The differences in the original and redistributed employment are fairly large-both absolutely and in percentage terms-in machinery and in the miscellaneous "other" category. In most other industries, however, the differences are relatively small. None of the differences are large enough to upset the major conclusion that employment was growing faster in the MNC's than in the United States as a whole in nearly every industry examined.
It should be emphasized that the procedure described here is very rough, but does give an approximate idea of the magnitude of the differences resulting from use of the enterprise as against the establishment system of classification.
It should be noted that the mere fact that a given MNC industry included a large number of establishments (and hence employment) actually engaged in other industries is not in

Table 9.-U.S. Reporters' Domestic Sales and Employment by Industry in 1970, as Originally Reported and as Redistributed

| Industry | Sales |  | Employment |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Original <br> (Percent) | $\frac{$ Redis-  <br>  tributed 1 }{ (Percent) } | Original |  | Redistributed ${ }^{2}$ |  |
|  |  |  | (Percent) | (Number) | (Percent) | (Number) |
| Total | 100.0 | 100.0 | 100.0 | 8,851 | 100.0 | 8,851 |
| Manufacturing.......... | 67.1 | 64.7 | 71.6 | 6,335 | 67.5 | 5,963 |
| Chemicals and allied products. | 4.5 9.1 | 6.0 8.1 | 2.9 8.2 | 260 725 | 3.9 7.3 | 345 643 |
| Primary and fabricated metals | 7.3 | 7.9 | 8.2 | 724 | 8.9 | 785 |
| Machinery..................... | 15.7 | 12.9 | 21.0 | 1,860 | 17.2 | 1,521 |
| Transportation equipment.- | 18.1 | 17.7 | 17.7 | 1,568 | 17.2 | 1,518 |
| Other......................... | 12.5 | 12.1 | 13.5 | 1,198 | 13.0 | 1,151 |
| Petroleum.... | 15.4 | 14.6 | 8.9 | 522 | 5.6 | 493 |
| Other industries. | 17.5 | 20.6 | 22.5 | 1,994 | 27.0 | 2,395 |
| Mrining-...... | 1.1 | 1.0 | 1.0 | -9189 | 7.9 | 80 624 |
| Other... | 9.2 | 11.9 | 14.8 | 1,314 | 19.1 | 1,691 |

1. Redistributed according to percent of sales by industry supplied by reporting companies.
2. Obtained by dividing sales by employment in the original data to get sales per employee, and then sales per employee into the redistributed estimates of sales to get redistributed employment estimates.

Source- U.S. Department of Commerce, Bureau of Economic Analysis, International Investment Division.
itself evidence of substantial bias in its employment trends. The degree of bias would depend, not simply on the amount of employment in establishments engaged in other industries, but also on the degree of difference in trend between these
other industries and the dominant industry in which the MNC firms are classified. If the dominant industry and these "other" industries were expanding their employment at the same rate there would be no bias.

## (Continued from page 18)

The Mississippi River floods had their largest direct impact on personal income through losses of residential property and of plant and equipment and inventory of business proprietors, mainly farmers. The write-offs of these losses in the second quarter of 1973 are currently estimated by the Bureau of Economic Analysis at nearly $\$ 0.4$ billion at an annual rate. The largest flood-related losses in rental income and in farm proprietors' income were in Mississippi (where rental income dropped nearly 20 percent), Missouri, Louisiana, Arkansas, Illinois, Tennessee, and Kentucky. Regionally, these losses had a noticeable impact only in the Southeast.

Apart from flood effects, differences among regions and States in the percentage change in total personal income in the second quarter were mainly the result of regional and State differences in the behavior of three basic income components-manufacturing payrolls (especially in durable goods), construction payrolls, and farm income-and of net rental income. In addition, most regions and States
with large gains in income from basic industries also registered large increases in service-type industries, and vice versa. Table A shows percentage change in total income and in income excluding these components in various combinations. These figures reflect the combined effect of the percent change in a component and of its importance in an area's income structure.

The regions with the largest income gains were the Great Lakes, Rocky Mountain, and Southeast. Construction payrolls rose sharply in each, and maufacturing payrolls in the Southeast and Rocky Mountain regions rose much more than in the Nation. Increases in income from nearly all service-type activities in these regions were greater than the national average. However, in part because of the floods, net rental income and farm income declined somewhat in the Southeast.

The Mideast and Far West had the smallest income gains. Manufacturing and construction payrolls were weak in both regions and the gains in most service-type industries were below the national average. Rental income was off sharply in the Mideast because of
the termination of assistance payments to homeowners for 1972 flood losses.
The States with the largest gains, ranging from 5 to $7 \frac{1}{4}$ percent, were Colorado, Florida, Maine, North Carolina, Oklahoma, and Idaho. Farm income was sharply higher in Florida, Maine, Oklahoma, and Idaho. The rise in manufacturing payrolls was well above the national average in all States except Idaho, and the rise in construction payrolls was strong in all six. In addition, there were large gains in service-type industries in four of the six States; the exceptions were Oklahoma and Idaho.
Personal income declined in the second quarter in Alaska, Wyoming, Mississippi, New Mexico, Montana, Utah, and the District of Columbia, and was little changed in Oregon, Hawaii, and Delaware. Farm income and manufacturing and construction payrolls were weak in seven of these nine States. A decline in Federal payrolls was an important factor in income weakness in the District of Columbia and Alaska; in Alaska, a drop in mining also contributed to the income decline. In most of these areas, there were only small gains or actual losses in income from service-type activities.

THE STATISTICS here update series published in the 1971 edition of Business Statistics, biennial statistical supplement to the Survey of Current Business. That volume (available from the Superintendent of Documents for $\$ 3.00$ ) provides a description of each series, references to sources of earlier figures, and historical data as follows: For all series, monthly or quarterly, 1967 through 1970 (1960-70 for major quarterly series), annually, 1947-70; for selected series, monthly or quarterly, 1947-70 (where available). Series added or significantly revised after the 1971 Business Statistics went to press are indicated by an asterisk (*) and a dagger ( $\dagger$ ), respectively; certain revisions for 1970 issued too late for inclusion in the 1971 volume appear in the monthly Survey beginning with the September 1971 issue. Also, unless otherwise noted, revised monthly data for periods not shown herein corresponding to revised annual data are available upon request.

The sources of the data are given in the 1971 edition of Business Statistics; they appear in the main descriptive note for each series, and are also listed alphabetically on pages 189-90. Statistics originating in Government agencies are not copyrighted and may be reprinted freely. Data from private sources are provided through the courtesy of the compilers, and are subject to their copyrights.

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shownin the 1971 edition of BUSINESS STATISTICS | 1970 | 1971 | 1972 | 1970 |  | 1971 |  |  |  | 1972 |  |  |  | 1973 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual total |  |  | III | IV | I | II | III | IV | I | II | III | IV | I | II | III ${ }^{\text {p }}$ |

GENERAL BUSINESS INDICATORS—Quarterly Series


| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1970 | 1971 | 1972 | 1970 | 1971 |  |  |  | 1972 |  |  |  | 1973 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual total |  |  | IV | I | II | III | IV | I | II | III | IV | I | II | III ${ }^{\text {p }}$ | IV |

## GENERAL BUSINESS INDICATORS—Quarterly Series—Continued

NATIONAL INCOME AND PRODUCT-Con. Quarterly Data Seasonally Adjusted at Annual Rates National income, totalt.
Compensation of employees, totall.

| Wages and salaries, totalPrivate |  |
| :---: | :---: |
|  |  |
|  | Military. |
|  | Government civilian |
|  | Supplements to wages and |
|  | Proprietors' income, totalo |
|  | Business and professional \% |
|  | Farm. |

Corporate profits and inventory valuation adjust ment, brod industry groups:
 Manufacturing, total Durable goods industries.-...-....-............


Corporate profits before tax, total. Corporate proint tax habinty. orporate proits after tax Undistributed profits
Inventory valuation adjustment.
DISPOSITION OF PEPSONAL Quarterly Data Seasonally Adjusted at Annual Rates Personal income, total....-.-...........-..........-bil. \$.
 Less: Personal outlays $\oplus$.......................................................... NEW PLANT AND EQUIPMENT
Unadjusted quarterly or annual totals:
All industries
Manufacta-Durable goods industries Nondurable goods inties f.-............................. Nonmanufacturing Mining
Railroad............. Other transportation Public utilities. Glectric and other Communication Commercial and other.

Seas. adj. qtrly. totals at annual rates:
 Durable goods industries 9

Nonmanufacturing Mining
Air transportation Other transportati Public utilities Electric-- and other Communication.....
U.S. BALANCE OF INTERNATIONAL PAYMENTS ${ }^{\circ}$
Quarterly Data Are Seasonally Adjusted
(Credits +; debits -)
Exports of goods and services (excl. transfers under military grants) --.-............................. Transfers under U.S. military agency sales contracts............................................. Receipts of income on U.S. investments
abroad
mports of goods and services
 Payments of income on foreign investments in the


Balance on goods and services, total Merchandise, adjusted, excl. milltary ................



800.5


## -



| Unless otherwise stated in footnotes below, data through 1970 and descriptive notesareas shown in the 1971 edition of BUSINESS STATISTICS | 1970 | 1971 | 1972 | 1970 | 1971 |  |  |  | 1972 |  |  |  | 1973 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual total |  |  | IV | 1 | II | III | IV | I | II | III | IV | I' | II ${ }^{\text {P }}$ | III | IV |

GENERAL BUSINESS INDICATORS-Quarterly Series-Continued

| U.S. BALANCE OF INTERNATIONAL Payments-Con. <br> Quarterly Data Are Seasonally Adjusted <br> Unilateral transactions (excl. military grants), net |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Balance on current account mil. \$-- | $-3,214$ | ${ }_{-2,790}^{-3,598}$ | $-3,744$ $-8,353$ | -839 -135 | $\begin{array}{r}\text {-803 } \\ \hline 151\end{array}$ | -859 | $-958$ | ${ }_{-1,538}^{-978}$ | -969 | -2388 | ${ }_{-1,893}^{-954}$ | ${ }_{-1,751}^{881}$ | -742 | 330 |  |  |
| Balance on current account . .-.-.----------- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | -2,018 | -2,359 | -1,339 | -680 | -642 | -575 | -598 | -544 | -289 | -95 | $-366$ | 586 | $-336$ | 94 |  |  |
|  | -1,429 | -4,401 | -152 | -53 | -895 | -1,691 | -2,018 |  | -1,143 | 604 | -393 | 781 | -19 | -562 |  |  |
| Balance on current account and long-term capital mil. \$ | -3,031 | -9,550 | -9,843 | -868 | -1,386 | -2,994 | -3, 294 | -1,881 | -3,775 | -1,855 | -2,652 | -1,556 | -947 | -782 |  |  |
| Nonliquid short-term private capital flows, net | -482 | -2,347 | $-1,637$ | -221 | -517 | -492 | -822 | -516 |  |  | -430 | -982 | -1,793 | -1,054 |  |  |
| Allocation of special drawing rights (SDR)...do...- | 867 |  |  | 216 | -180 | 179 | 179 | 179 |  | 178 | -477 | 177 |  |  |  |  |
| Errors and omissions, net..................-.-do. | -1,205 | -10,784 | -3, 112 | -33 | -949 | $-2,391$ | $-5,511$ | -1,933 | 944 | -940 | -1, 626 | -1,490 | -3,921 | 229 |  |  |
| Net liquidity balance - .-....-.-....-......-do. | ${ }_{-5,851}^{-3,858}$ | -21,965 | $-13,882$ | -2906 | -2,672 | -5,698 | $-9,448$ | ${ }_{-4,151}^{-1,181}$ | -3,188 | $-2,307$ | -4.531 | $-3,851$ | -6,661 | $-1,607$ |  |  |
| Liquid private capital flows, net. | -5,988 | -7,788 | 3,542 | $-2,258$ | -2,958 | ${ }_{-6,647}^{-645}$ | -2, 434 | ${ }^{-1,749}$ |  | 1,456 |  | 2,367 | -3,838 | 1,983 |  |  |
| Official reserve transactions balance-1-..--do- | -9,839 | -29,753 | -10,340 | -3,164 | -5, 630 | -6,345 | -11,882 | -5,900 | -3,476 |  | -4,524 | $-1,484$ | -10,499 | 376 |  |  |
| Liquid...............................mil. \$. | 7,637 | 27,615 | 9,720 | 2,451 | 5,157 | 5,854 | 10,870 | 5,738 | 2,546 | 1,057 | 4,467 | 1,645 | 9,121 | -820 |  |  |
| Other readily marketabie.....................do | 810 | 551 | 399 | -188 | -201 | -160 | -173 |  |  | 27 | 34 | 117 | 1,202 | 259 |  |  |
|  | 535 | 341 | 189 | 77 | -8 | -8 |  |  | 280 | $-2$ | 78 | -167 | -44 | 168 |  |  |
| Changes in U.S. official reserve assets, net _do | 2,477 $-4,466$ | r $\begin{array}{r}2,348 \\ -23,779\end{array}$ | - $\begin{array}{r}32 \\ -15,826\end{array}$ | 824 $-1,000$ | ( $\begin{array}{r}682 \\ -3,183\end{array}$ | -5,801 | -1,194 | - $\begin{array}{r}-187 \\ -420\end{array}$ | 429 +168 | ${ }_{-2,376}$ | -5, 118 | -4,159 |  |  |  |  |
| Unless otherwise stated in footnotes below, data | 1971 | 1972 |  |  | 1972 |  |  |  |  |  |  | 1973 |  |  |  |  |
|  |  | nual | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. D |

## GENERAL BUSINESS INDICATORS-Monthly Series

| PERSONAL INCOME, BY SOURCE $\dagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Seasonally adjusted, at annual rates: <br> Total personal income <br> bil. \$- | 863.5 | 939.2 | 944.4 | 951.3 | 967.0 | 977.6 | 983.6 | 989.1 | 997.4 | 1,003.3 | 1,011.6 | 1,018.7 | 1,026.6 | -1,035.6 | r1,047.3 | 1,057.2 |
| Wage and salary disbursements, total.-. do | 573.3 | 627.8 | ${ }^{632} 6$ | ${ }^{638.7}$ | 643.8 | 648.4 | ${ }^{654.0}$ | ${ }^{661.7}$ | 667.2 | 671.1 | 677.6 | 682.0 | 688.2 | 693.2 | $\stackrel{7}{688.9}$ | 704.6 |
| Commodity-producing industries, total.do. | 206.3 | 226.0 | 227.4 | 230.1 | 232.8 | 235.0 | 236.8 | 239.2 | 242.2 | 243.5 | 245.9 | 248.3 | 251.7 | 253.4 | - 254.8 | 257.7 |
| Manufacturing---.------------- do | 160.5 | 175.9 | 177.0 | 179.3 | 181.6 | 183.8 | 185.6 | 187.1 | 189.6 | 190.6. | 192.9 | 194.7 | 197.0 | 197.9 | -198.7 | 201.1 |
| Distributive industries....-.-.-.-.-.-.-.-. ${ }^{\text {do }}$ | 138.3 | 151.5 | 152.4 | 153.6 | 155.2 | 155.6 | 157.2 | 158.7 | 159.3 | 160.6 | 162.2 | 163.2 | 164.5 | 165.3 | +167.1 | 168.0 |
| Service industries ..----------........-- do | 104.7 | 116.1 | 117.6 | 118.8 | 119.2 | 119.8 | 121.3 | 122.9 | 124.1 | 124.9 | 126.4 | 126.8 | 127.7 | 129.4 | r 130.8 | 131.9 |
|  | 123.9 | 134.2 | 135.1 | 136.2 | 136.7 | 138.1 | 138.7 | 140.9 | 141.6 | 142.2 | 143.1 | 143.7 | 144.4 | 145.1 | ${ }^{1} 146.2$ | 147.0 |
|  | 36.6 | 40.7 | 41.3 | 41.6 | 42.0 | 42.3 | 42.7 | 43.0 | 43.3 | 43.6 | 43.9 | 44.2 | 44.5 | 44.8 | r 45.3 | 45.8 |
| Proprietors' income: <br> Business and professional........................... | 51.9 | 54.0 | 54.5 | 54.3 | 55.1 | 55.1 | 55.6 | 56.1 | 56.3 | 56.4 | 56.8 | 57.1 | 57.3 | 57.8 | +58.0 | 58.2 |
|  | 16.8 | 20.2 | 19.8 | 20.3 | 20.8 | 22.4 | 22.3 | 24.0 | 24.3 | 24.6 | 24.2 | 24.4 | 24.6 | 25.9 | + 27.1 | 28.3 |
| Rental income of persons ....-.-.-.-.-...-do | 24.5 | 24.1 | 25.2 | 25.1 | 25.1 | 24.7 | 24.9 | 24.8 | 24.8 | 24.6 | 24.3 | 24.6 | 24.9 | 25.0 | ${ }^{+25.3}$ | 25. 5 |
| Dividends.-----------------1.-.-.-. ${ }^{\text {do }}$ | ${ }^{25.1}$ | 26.0 | 26.3 | 26.2 | 26.3 | ${ }^{26.3}$ | 26.5 | 26.8 | ${ }^{26.9}$ | ${ }^{27.0}$ | 27.3 | ${ }^{27.3}$ | 27.4 | 27.6 | +28.2 | 28.3 |
| Personal interest income...-...-.-.-.-.-.-do | 73.0 | 78.0 | 78.5 | 78.9 | 79.6 | 80.4 | 81.1 | 81.9 | 82.6 | 83.4 | 84.5 | 85.7 | 86.5 | 87.8 | + 89.0 | 90.2 |
| Transfer payments Less persanal contributions for soctal insurance | 93.2 | 103.0 | 101.3 | 101.4 | 109.7 | 113.7 | 112.6 | 112.5 | 113.8 | 114.5 | 115.3 | 115.9 | 116.0 | 116.9 | +119.0 | 120.2 |
| Less personal contributions for social insurance bil. \$-- | 30.9 | 34.7 | 35.0 | 35.2 | 35.4 | 35.7 | 35.9 | 41.7 | 41.9 | 42.0 | 42.4 | 42.5 | 42.8 | 43.4 | $\stackrel{43.6}{ }$ | 43.9 |
| Total nonagricultural Income................-do. | 839.8 | 911.5 | 917.3 | 923.6 | 938.8 | 947.7 | 953.6 | 957.4 | 965.3 | 970.9 | 979.5 | 986.4 | 994.2 | 1,001.8 | $\cdot 1,012.1$ | 1,020.8 |
| FARM INCOME AND MARKETINGS $\ddagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cash recelpts from farming, including Government payments, total $\ddagger$...................................... | 55,950 | 64,632 | 5,469 | 5,520 | 7,453 | 7,220 | 5,963 | 6,295 | 4,814 | 5,112 | 4,560 | 5,148 | 5,582 | 8,858 | 7,495 |  |
| Farm marketings and CCC loans, total....do | 52,805 | 60,671 | 4,856 | 5,477 | 7,383 | 7,188 | 5,901 | 6,246 | 4,796 | 5,102 | 4,483 | 5,140 | 5,562 | 6,310 | -7,414 | 7,700 |
|  | 22, 245 | 29, 075 | 1,913 | 2, 313 | $\underset{3,827}{3}$ | 4, 178 | ${ }_{\text {3, }}^{2} 8838$ | ${ }_{3}^{2,841}$ | 1,1,636 <br> 3 <br> 160 | - 1,517 | 1,268 | 1,413 | 1,931 | 2,919 |  | 3,700 4,000 |
|  | 30,560 6,811 | - 7 7,575 | - ${ }^{2,943}$ | ${ }^{3,164}$ | ${ }^{3,556}$ | ${ }^{3} 172$ | 2,863 | ${ }^{3}, 405$ | ${ }^{3,160}$ | 3, 685 | $\xrightarrow{3,215}$ | $\begin{array}{r}1,727 \\ \hline 894\end{array}$ | 3,631 |  | $\xrightarrow{-}$ |  |
| Meat animals | 19,524 | 23, 955 | 1,933 | 2,178 | 2,543 | 2,178 | 1,860 | 2,336 | 2,186 | 2,436 | 2,043 | 2,476 | 2,367 | 2, 132 | -2,770 | 2,600 |
|  | 3,958 | 4,165 | 391 | 381 | 387 | 393 | 370 | 424 | 384 | 469 | 487 | 519 | 572 | 583 | +844 | 700 |
| Indexes of cash receipts from marketings and CCC loans. unadjusted: $\ddagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All commodities.....-------...------1967=100-- | 124 | 142 | 136 | 154 | 208 | 202 | 166 | 176 | 135 | 143 |  | 144 | 156 | 175 | ${ }_{2}^{208}$ | 218 |
|  | 121 | 136 | ${ }_{146}^{125}$ | $\stackrel{151}{157}$ | 249 | 261 | 198 | 185 | 106 | 99 | 83 | -92 | 126 | 182 170 | ${ }_{213}^{203}$ | 242 199 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Inderes of volume of farm marketings, unadjusted: $\ddagger$ <br> All commodities. <br> $.1967=100$. | 110 | 112 | 108 |  | 162 | 161 | 126 | 130 |  |  |  | 83 | 92 | 104 | 101 |  |
|  | 113 | 115 | 107 | 123 | 212 | 226 | 165 | 160 | 79 | 83 | 75 50 | ${ }_{51}^{83}$ | ${ }_{77} 7$ | 113 | 105 | 123 |
| Livestock and products.-------.-.-.-.-.-do | 108 | 109 | 109 | 112 | 124 | 113 | 98 | 107 | 95 | 101 | 94 | 108 | 104 | 96 | 99 | 100 |
| INDUSTRIAL PRODUCTION ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Federal Reserve Board Index of Quantity Output |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Unadjusted, total index $0^{\prime}$................ $1967=100$. | 106.8 | 115.2 | 116.4 | 121.6 | 122.7 | 120.4 | 117.3 | 118.9 | 123.6 | 124.6 | 124.5 | 125.6 | 128.9 | 122.4 | 126.9 | 131.7 |
| By market groupings: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 104.7 | 112.9 | 113.7 | 119.9 | 119.7 | ${ }_{126.8}^{116.1}$ | 112.0 | 115.3 ${ }^{125}$ | 119.1 | 120.0 | 118.9 129.2 | 120.0 | r 124.5 r 136.4 | ${ }_{7} 1188.9$ | $\stackrel{\text { ¢ }}{\sim}$ | 128.4 |
| Automotive produc | 119.5 | 127.7 | 1108.0 | 137.2 | 1147.0 | 141.9 | 123.9 | 138.5 | 149.1 | 151.5 | 1147.6 | 1474 | + 154.4 | ${ }_{r}{ }_{r} 12488$ | - 99.9 | 136.3 |
| Home goods and clothing-.-.-.......do | 107.4 | 117.7 | 121.6 | 126.2 | 127.8 | 122.3 | 115. 3 | 119.0 | 126.9 | 130.2 | 129.2 | 128.6 | r 133.8 | ${ }^{\text {r } 118.3}$ | - 132.5 | ${ }^{136.7}$ |
|  | 89.4 | 95.5 | 94.8 | 99.8 | 100.8 | 101.1 | 100.5 | 101.4 | 104.9 | 105.0 | 104.6 | 105.5 | + 109.2 | $\bigcirc 105.3$ | r 105.9 | 110.8 |
| Materials | 107.4 | 117.4 | 117.0 | 121.3 | 124.0 | 123.5 | 122.5 | 122.8 | 128.6 | 129.2 | 129.9 | 130.9 | -131.4 | r 123.5 | r 129.5 | 132.7 |
| By industry groupings: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 105.2 | 114.0 | 114.6 | 120.3 | 122.2 | 120.0 | 116.3 | 117.6 | 123.2 | 124.6 | 124.7 | 125.8 | 7128.9 | r 121.2 | ${ }^{\tau} 125.3$ | 130.9 |
| Durable manufactures | 99.4 | 108.4 | 106.3 | 113.5 | 116.4 | 115.3 | ${ }_{120.6}^{113.3}$ | 114.9 | ${ }_{121.3}^{121.3}$ | 122.5 127 | 122.4 | 123.2 129.5 | ${ }^{+} 128.8$ | ${ }_{+}^{+117.7}$ | $\begin{array}{r}\text { r } 119.4 \\ \text { 133.8 } \\ \hline\end{array}$ |  |
| Nondurable manulactures....--.......do | 113.5 | 122.1 | 126. 6 | 130.2 | 130.6 | 126.7 | 120.6 | 121.5 | 126.3 | 127.7 | 128.0 | 129, 5 | 133.3 | r 126.2 | 133.8 | 137.5 |
| Mining and utilities..........-..........-do | 118.9 | 124, 1 | 130.4 | 131.2 | 126.5 | 123.8 | 125 | 128.6 | 127.5 | 125.0 | 122.7 | 123.6 | 128.2 | 133.1 | 138 | 138.9 |
| r Revised. $\quad{ }^{p}$ Preliminary. tSee correspondi beginning 1969; monthly data prior to May 1972 app 1973, available from the U.S. Dept. of Agriculture cludes data for items not shown separately. | g note Econom | $\begin{aligned} & \text { ne. } \\ & \text { Farm } \\ & \text { Fa } \\ & \text { Reses } \end{aligned}$ | $\mathrm{iome}_{\text {ch }}^{\text {cherv }}$ |  |  | $\begin{gathered} \text { OTS }^{2} \text { els. } \\ \text { lever } \end{gathered}$ | es rev Month | d back revisio | $\text { to } 1970$ are av: | to reflec ailable u |  | asonal est. | djustme | at factor | and $p$ | oduction |


| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. ${ }^{\text {P }}$ |

GENERAL BUSINESS INDICATORS—Continued

## INDUSTRIAL PRODUCTION $\ddagger$-Continued <br> Federal Reserve Index of Quantity Output-Con.

Seasonally adjusted, total index $\ddagger \ldots \ldots . . \quad 1967=100$
By market groupings: $\ddagger$
Products, total.
Final products


Nondurable consumer goods........do..... Consumer staples. Consumer foods and tobacco. -do..
-do.
-do. Nonfood staples.

## Equipment.

Industrial equipmentor Building and mining equipment do.......... Manufacturing equipment

Commercial, transit, farm eq $9 .-$
Commercial equipment .do. Transit equipment........................

Defense and space equipment.-.
Intermediate products
Construction products $\qquad$
$\qquad$ Construction products.-....-
Misc. intermediate products



Fuel and power, industrial. materials...-...................
By industry groupings:
Manufacturing, total.....................................
Primary and fabricated metals........................... Primary metals. ............................... do. Iron and steel. Fabricated metal products.

Machinery and allied goods $\%$. $\qquad$ Machinery-....................................... Electrical machinery...

Transportation equipment. Motor vehicles and parts........... do Aerospace and misc. trans. eq-..-do.-.
Instruments.-...................................
Lumber, clay, and glass..
$\qquad$
Furniture and miscellaneous. Furniture and fixtures.-...
Nondurable manufactures.-
Textiles, apparel, and lea
Apparel products.
Paper and printingPrinting products Printing and publishing.-..............................

Chemicals, petroleum, and rubber .-. do.. Petroleum products Rubber and plastics products
Foods and tobacco. Foods.
Mining and utilities.
Mining ............
Stone and earth minerals.
Coal, oil and gas.
Oil and gas extraction.
Cru
Utilities.
Electric.-.-.......................................................................
Revised. ${ }^{\circ}$ Preliminary.
FIncludes data for items not shown separately. $\dagger$ Revised data for 1966-72 for the indi-

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

GENERAL BUSINESS INDICATORS—Continued

ing are shown below and on p . S-6; those for wholesale and retail trade on pp. $\mathrm{S}-11$ and $\mathrm{S}-12$. $\ddagger$ See corresponding nete on p. S-4 and note marked " $\ddagger$ " on pp. S-11 and S-12. $\ddagger$ See corresponding note on p. S-7. $\quad$ I Includes data for items not shown separately.


GENERAL BUSINESS INDICATORS—Continued


| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nor. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

## GENERAL BUSINESS INDICATORS—Continued

| MANUFACTURERS' SALES, INVENTORIES, <br> AND ORDERS $\ddagger$-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New orders, net (seas. adj.) $\ddagger$-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| y market category: Home goods and apparel.......-.........-mil. \$ | 265,383 | 271,896 | 6,006 | 6, 182 | 6,205 | 6,493 | 6,315 | 6,393 | 6,694 | 6, 707 | 6,858 | 6,695 | 6,778 | r 6, 642 | 6,571 |  |
|  | 2133,569 | 2146,254 | 12,382 | 12,405 | 12,330 | 12,742 | 12,941 | 12,964 | 13,146 | 13,533 | 13,565 | 13,561 | 13,738 | r 13,846 | 14,291 |  |
| Equip. and defense prod., excl. auto...-.-do | 291,469 | ${ }^{2108,318}$ | 8,989 | 9,690 | ${ }^{9}, 363$ | 9,810 | 9,864 | 10, 205 | 10, 100 | 10, 724 | 10,903 | 11, 097 | 11, 520 | +10,753 | 10,910 |  |
| Automotive equipment.---.-.-.-....-. do | ${ }^{2} \mathbf{2 8 8}$, 773 | 280, 395 | 7,022 | 7, 299 | 7,501 | 7,605 | 7,449 | 7,913 | 7, 655 | 7,577 | 7,523 | 7,746 | 7,708 | r 8,322 | 7,861 |  |
| Construction materials and supplies..----do | 255,786 <br> 2253 | 264,323 2290,984 | -5, 4 253 | -5, 58.459 | 5,439 25,517 | -5,565 | 5,909 26,430 | 5, 895 26,646 | 6,118 27,309 | 68,190 | 28,459 | 6,423 29,013 | 6,240 29.377 | r 6, 406 29,176 | 6, 321 <br> 29 <br> 18 |  |
| Supplementary series: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Household durables.......................do | 227, 200 | 231,645 | 2,691 | 2,796 | 2,797 | 2,860 | 2,785 | 2,751 | 3,061 | 3,033 | 3,077 | 3,007 | 3,078 | 3,154 | -2,996 | 1 3, 050 |
| Capital goods industriesๆ.-.-..............do | ${ }^{2107,755}$ | ${ }^{2128,461}$ | 10,533 | 11, 530 | 11,062 | 11, 124 | 11,815 | 12,037 | 11,830 | 12,461 | 12,571 | 12,768 | 13,590 | 12,603 | - 12,887 | 112,433 |
| Nondefense | 288,069 | ${ }^{2107,790}$ | 8,899 | 9, 727 | 9,625 | 9,699 | $\stackrel{9}{9} 991$ | 10, 277 | 10, 105 | 10,572 | 10, 619 | 10,919 | 11, 415 | 11, 404 | + 11,032 | 110,882 |
| Defense | 219,686 | 220,671 | 1,634 | 1,803 | 1,437 | 1,425 | 1,824 | 1,760 | 1,725 | 1,889 | 1,952 | 1,849 | 2,175 | 1,199 | r 1,855 | ${ }^{1} 1,551$ |
| Unfilled orders, end of year or month (unadjusted). totalt. mil. \$. | 72,731 | 85,314 | 80, 005 | 81,932 | 82,667 | 83, 175 | 85, 314 | 88, 077 | 90,788 | 94,583 | 97, 044 | 98,772 | 100,983 | 103,699 | 106, 055 |  |
| Durable goods industries, total.............-do....- | 69,652 | 81,345 | 76,408 | 78, 295 | 78,927 | 79, 251 | 81,345 | 83, 941 | 86, 422 | 90, 020 | 92,316 | 93, 950 | 96,222 | 98,995 | r101,441 | 1102,855 |
| Nondur. goods ind. with unfilled orders $\oplus$....d do | 3,079 | 3,969 | 3,597 | 3, 637 | 3,740 | 3, 924 | 3,969 | 4,136 | 4,366 | 4,563 | 4,728 | 4,822 | 4,761 | - 4, 704 | 4,628 |  |
| Unfilled orders, end of year or month (seasonally <br>  By industry group: | 73, 282 | 86,020 | 80,462 | 82,579 | 83,483 | 84, 216 | 86, 020 | 87,635 | 89,412 | 92,499 | 95, 354 | 98,602 | 102,355 | -104,246 | 107, 294 |  |
| Durable goods industries, total 9 .........-do.... | 70,152 | 81, 986 | 76, 815 | 78, 858 | 79,683 | 80, 275 | 81,986 | 83, 431 | 85, 074 | 88, 031 | 90,719 | 93, 882 | 97,647 | 99,560 | -102,621 | 1104,367 |
|  | 5,657 | 7,964 | 7, 570 | 7,799 | 7, 874 | 7,974 | 7,964 | 8. 209 | 8,572 | 9,438 | 10.623 | 11,954 | 13, 181 | 13, 815 | - 14,798 | ${ }^{1} 14,796$ |
| Blast furnaces, steel Nonferrous metals | 3,216 1,571 | 5,008 1,861 | 4, 1,790 1,79 |  | 5,037 1,791 | 5,064 1,848 | 5,008 1,861 | 5,076 1,999 | 5,317 2,106 | 2, ${ }_{2}, 292$ <br> 19 | 7,000 2,305 | 8,025 2,506 | 9,089 2,560 | $\begin{array}{r} r 9,658 \\ -2,534 \end{array}$ | 10,530 2,546 |  |
| Fabricated metal produ | 9,943 | 10,926 | 10,386 | 10,596 | 10,612 | 10, 580 | 10,926 | 11, 111 | 11,297 | 11,523 | 11,650 | 12,024 | 12,285 | 12,686 | 13, 191 |  |
| Machinery, except elect | 12,150 | 14, 917 | 13, 369 | 13, 669 | 13, 952 | 14,350 | 14,917 | 15, 349 | 15, 807 | 16, 432 | 16, 866 | 17,365 | 17,926 | - 18,587 | 19, 100 |  |
| Electrical machinery | 14,511 | 15, 748 | 14, 728 | 15, 194 | 15,424 | 15, 639 | 15,748 | 15, 983 | 16,338 | 16,850 | 17, 166 | 17,566 | 17.984 | r 18,256 | 18,622 |  |
| Transportation equipment Aircraft, missiles, | 22,098 15,400 | 26,107 18,010 | 24,662 17,073 | 25,254 17,396 | 25,584 | 25,482 17,468 | 26,107 18,010 | 26,505 | 26,690 | 18,617 | 27, 604 18,497 | 28, ${ }_{18,663}$ | 29,126 19,009 | 28,932 | 29,598 18,985 | 29,637 |
| Nondur. goods ind. wi | 3,130 | 4,034 | 3, 647 | 3,721 | 3,800 | 3,941 | 4,034 | 4,204 | 4,338 | 4,468 | 4,635 | 4,720 | 4,708 | - 4,686 | 4,687 |  |
| By market category : $\ddagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Home goods, apparel, consumer staples..-.do- | 2,083 38,696 | 2,432 44,365 |  | 2,456 42,491 | - ${ }_{42,515}$ | 2,466 43,558 | 2, 4432 | 2,355 45,142 | 2,493 | 2,562 47,159 | 2,663 48,076 | 2,668 | 2,770 50 | r 2,877 50,932 | 2,754 |  |
| Construction materials and supplies...--- | $\xrightarrow{9,433}$ | 10,270 | 9, ${ }^{41,468}$ | 42,991 | $\stackrel{4}{9} 9$ | $\stackrel{4}{4,908}$ | ${ }^{44,305}$ | 10,450 | - $\begin{aligned} & 45,843 \\ & 10,589\end{aligned}$ | 10,836 | 10,915 | 11,258 | 11, 477 | -11,785 | 12, 264 |  |
| Other materials and supplies. .----.-....-do | 23,070 | 28, 953 | 26,875 | 27,664 | 28,094 | 28, 284 | 28, 953 | 29,688 | 30,487 | 31, 942 | 33, 700 | 35, 511 | 37, 425 | 38,652 | 40, 092 |  |
| Supplementary series: $\ddagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1,637 43,298 | 1,933 50,165 | 1,874 46,847 | 48, 1272 | 2,035 48,644 | 1,973 | 1,933 50,165 | 1,849 50,907 | $\begin{array}{r}\text { 1, } \\ 51,581 \\ \hline 186\end{array}$ | 2,046 52,882 | - 23,112 | 24, 2,127 | 56, 308 | 26,773 | + 2,201 $+57,974$ | 1 1 1 58,619 |
| Nondéfense. | 26,079 | 30,612 | 27,527 | 28,549 | 29, 208 | 29, 742 | 30,612 | 31, 292 | 31, 866 | 32,948 | 33, 509 | 34, 329 | 35, 364 | 36, 303 | 37,202 | 37,896 |
| Defense...-......................................- | 17, 219 | 19,553 | 19,320 | 19,572 | 19, 436 | 19, 289 | 19,553 | 19,615 | 19,710 | 19, 934 | 20,246 | 20,350 | 20,944 | 20, 470 | - 20,772 | 20,723 |
| BUSINESS INCORPORATIONS ${ }^{\prime}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New incorporations ( 50 States and Dist. Col.): <br> Unadjusted $\odot$ <br> number. | 287, 577 | 316, 601 | 26,118 | 24,761 | 26,736 | 23, 991 | 26,059 | ${ }^{30,114}$ | 26, 821 | 31,967 | 29.304 | 30,476 | 29,003 | 27,797 |  |  |
|  |  |  | 26, 420 | 26,798 | 27,417 | 26, 387 | 27, 614 | 27, 173 | 28,640 | 29,914 | 28,693 | 28, 422 | 27, 859 | $27,832$ |  |  |
| INDUSTRIAL AND COMMERCIAL FAILURES ${ }^{\circ}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 10,326 | 9,566 | 824 | 730 | 755 | 799 | 708 | 772 | 753 | 874 | 796 | 838 | 840 | 714 | 837 |  |
| Commercial service. $\qquad$ do.... Construction | 1,464 1,545 | 1,252 | 101 | 106 103 | 83 106 | $\begin{array}{r}91 \\ 127 \\ \hline\end{array}$ | 98 118 | $\begin{array}{r}90 \\ 105 \\ \hline\end{array}$ | $\begin{aligned} & 85 \\ & 94 \end{aligned}$ | 117 | 94 119 | $\begin{array}{r} 97 \\ 149 \end{array}$ | $\begin{array}{r}94 \\ 124 \\ \hline\end{array}$ | $\begin{array}{r}89 \\ 120 \\ \hline 1\end{array}$ | 114 |  |
|  | 1,932 | 1,576 | 147 | 107 | 125 | 121 | 108 | 125 | 126 | 137 | 112 | 106 | 125 | 120 | 130 |  |
|  | 4,428 | 4,398 | 372 | 352 | 363 | 393 | 308 | 376 | 378 | 411 | 396 | 390 | 411 | 316 | 396 |  |
| Wholesale trad | 957 | 965 | 80 | 62 | 73 | 67 | 76 | 76 | 70 | 94 | 75 | 96 | 86 | 69 | 85 |  |
| Llabilitles (current), total...............-thous. \$.- | 1,916,929 | 2,000.244 | 253, 619 | 113, 540 | 152, 974 | 208, 583 | 86,786 | 205, 837 | 137, 162 | 252, 319 | 119, 343 | 167,949 | 180, 209 | 206, 186 | 190, 147 |  |
|  | 356,923 | 231, 213 | 16, 058 | 13,807 | 14, 073 | 17,502 | 16,089 | 17,526 | 5,407 | 37,035 | 8, 81 | 9, 290 | 9,822 | 37, 197 |  |  |
|  | 712, 611 | 193,530 | 22,000 114,160 | -9,435 | 12,737 | 22, 5244 | 13,728 19 | r $\begin{array}{r}20,282 \\ 115,440\end{array}$ | 18,490 73,929 | 21, 126 | 19, 202 | 37,9.32 | 16,928 | 35,800 55 | 21, 225 |  |
| Retail trade.. | 444,086 | 558, 270 | 87, 812 | 31, 597 | 63, 580 | 105.445 | 22,401 | 37,826 | 30, 184 | 73, 237 | 33, 528 | 33, 665 | 36, 923 | 42,572 | 68, 438 |  |
| Wholesale trad | 180,952 | 249, 640 | 13, 589 | 7,763 | 14,678 | 11,308 | 15,302 | 14, 763 | 9,152 | 36, 258 | 19,954 | 29,067 | 26,577 | 36,622 | 28,089 |  |
| Failure annual rate (seasonally adjusted) No. per 10,000 concerns.- | ${ }^{2} 41.7$ | ${ }^{2} 38.3$ | 40.5 | 39.1 | 38.8 | 38.5 | 37.4 | 34.9 | 36.0 | 35.9 | 35.2 | 36.3 | 38.2 | 35.7 | 39.1 |  |

## COMMODITY PRICES

| PRICES RECEIVED AND PAID BY FARMERS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Prices recelved, all farm products $\ldots-.-1910-14=100 \ldots$ | 285 | 320 | 324 | 328 | 329 | 332 | 349 | 365 | 379 | 405 | 400 | 413 | 437 | 438 | 527 | 486 |
|  | 242 | 261 | 265 | 264 | 264 | 272 | 287 | 295 | 299 | 316 | 324 | 348 | 385 | 371 | 440 | 414 |
| Commercial vegetables...-....-............-.-do...-. | 322 | 327 | 322 | 332 | 300 | 354 | 336 | 402 | 395 | 411 | 463 | 434 | 444 | 430 | 360 | 325 |
|  | 206 | 243 | 258 | 206 | ${ }_{216} 18$ | 229 | 216 | 187 | 199 | 222 | 229 | 255 | 249 | ${ }^{257}$ | 310 | 377 |
|  | 185 | 183 | 178 | 187 | 188 | 192 | 221 | 223 | 216 | 218 | 220 | 243 | 281 | 288 | 363 | 325 |
|  | 167 | 192 | 183 | 209 | 228 | 239 | 283 | 283 | 243 | 251 | 262 | 262 | 291 | 294 | 506 | 528 |
|  | 261 | 280 | 293 | 314 | 325 | 277 | 265 | 282 | 301 | 331 | 316 | 316 | 345 | 335 | 322 | 325 |
|  | 619 | 685 | 717 | 717 | 702 | 704 | 704 | 707 | 704 | 704 | 707 | 707 | 706 | 703 | 709 | 729 |
| Livestock and products $\%$....................do. | 321 | 371 | 375 | 383 | 385 | 383 | 402 | 424 | 447 | 481 | 466 | 469 | 480 | 495 | 602 | 548 |
|  | 354 | 366 | 361 | 373 | 383 | 391 | 391 | 391 | 392 | 388 | 381 | 378 | 378 | 386 | 411 | 456 |
|  | 402 | 494 | 508 | 512 | 513 | 497 | 527 | 560 | 612 | 669 | 638 | 650 | 664 | 687 | 843 | 731 |
|  | 133 | 137 | 133 | 145 | 136 | 151 | 168 | 192 | 179 | 204 | 211 | 204 | 221 | 228 | 310 | 282 |
| Prices pald: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All commodities and services.-.-.-.........-do.... | 352 | 371 | 372 | 376 | 377 | 381 | 386 | 394 | 401 | 409 | 413 | 421 | 434 | 433 | 451 | 447 |
| Family living items.-------.............-do....- | 382 | 401 | 403 | ${ }^{-} 405$ | 404 | 408 | 410 | 414 | 421 | 426 | 433 | 438 | 443 | 443 | 453 | 456 |
| Production items-.......-..........-...-do....- | 331 | 350 | 349 | r 355 | 358 | 361 | 369 | 379 | 386 | 396 | 399 | 409 | 428 | 426 | 451 | 441 |
| wage rates (parity index) $\ldots \ldots-1910-14=100$. | 410 | 432 | 433 | 437 | 440 | 443 | 449 | 458 | 465 | 473 | 480 | 488 | 500 | 499 | 516 | 512 |
|  | 69 | 74 | 75 | 75 | 75 | 75 | 78 | 80 | 82 | 86 | 83 | 85 | 87 | 88 | 102 | 95 |

Revised. ${ }^{p}$ Preliminary. ${ }^{1973 \text { do not reflect revisions for selected estimate; total mfrs. unfilled orders for Aug. }}$ vised back to 1966 to reflect benchmarking to Annual Surveys of Manufactures (1966-71) and calculation of new seasonal factors. Revisions and further details available from the
Census Bureau as follows: 1966 -Mfrs. Shipments, Inventories, ard Orders: 1966-72, M3-1.4,
Revised; 1967-Mar. 1973-Mfrs. Shipments, Inventories, and Orders: 1967-73, M3-1.5. ISee note marked "or" on p. S-6.
$\oplus$ Includes textile mill products, leather and products, paper and allied products, and printing and publishing industries, unfilled orders for other nondurable goods are zero. of Includes data for items not shown separately.
R Compiled by Dun \& Bradstreet, and Mar. 1970 -Dec. 1971 (seas. adj.) will be shown later. §Ratio of prices received to prices paid (parity index).

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

COMMODITY PRICES—Continued

| CONSUMER PRICES <br> (U.S. Department of Labor Indexes) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unadjusted indexes: <br> All items $-1967=100$ | 121.3 | 125.3 | 125.7 | 126.2 | 126.6 | 126.9 | 127.3 | 127.7 | 128.6 | 129.8 | 130.7 | 131.5 | 132.4 | 132.7 | 135.1 | 135.5 |
| Special group indexes: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All items less shelter--...-...-......-....do. | 119.3 | 122.9 | 123.2 | 123.8 | 124.2 | 124.6 | 124.8 | 125.3 | 126.4 | 127.8 | 128.9 | 129.7 | 130.6 | 131.0 | 133.5 | 133.6 |
|  | 122.1 | 125.8 | 126.1 125.3 | 126.7 125.9 | 127.1 | 127.4 126.6 | 127.6 126.9 | +127.5 127.3 | 127.9 128.2 | 128.4 129.5 | 129.1 130.5 | 129.7 131.3 | 130.3 132.2 | 131.4 132.5 | 130.9 135.0 | 131.8 135.4 |
| All items less medical care...............d. | 120.9 | 124,9 | 125.3 | 125.9 | 126.2 | 126.6 | 126.9 | 127.3 | 128.2 | 129.5 | 130.5 | 131.3 | 132.2 | 132.5 | 135.0 | 135.4 |
|  | 117.4 | 120.9 | 121.4 | 122.0 | 122.3 | 122.7 | 122.9 | 123.4 | 124.5 | 126.1 | 127.4 | 128.3 | 129.4 | 129.7 | 132.8 | 132.8 |
| Nondurables | 117.7 | 121.7 | 122.0 | 122.8 | 123.1 | 123.5 | 123.8 | 124.7 | 126.2 | 128.3 | 129.7 | 130.7 | 132.0 | 132.4 | 136. 6 | 136. 5 |
| Nondurables less food................d. ${ }^{\text {do }}$ | 117.0 | 119.8 | 119.4 | 120.8 | 121.3 | 121.7 | 121.7 | 120.9 | 121.6 | 122.4 | 123.3 | 124.0 | 124.7 | 124.4 | 124.7 | 125.5 |
|  | 116.5 | 118.9 | 119.7 | 119.8 | 120.1 | 120.3 | 120.3 | 119.9 | 119.9 | 120.2 | 121.0 | 121.8 | 122.3 | 122.4 | 122.6 | 122.6 |
| Commodities less food....................... do | 116.8 | 119.4 | 119.5 | 120.3 | 120.8 | 121.0 | 121. 1 | 120.5 | 120.9 | 121.5 | 122.3 | 123.0 | 123.7 | 123.5 | 123.8 | 124.3 |
| Services...-................................ do | 128.4 | 133.3 | 133.8 | 134.1 | 134.6 | 134.9 | 135.4 | 135.7 | 136.2 | 136.6 | -137.1 | F 137.6 | 138.1 | 138.4 | 139.3 | 140.6 |
| Services less rent.......................... do | 130.8 | 135.9 | 136.4 | 136.7 | 137.2 | 137.6 | 138.0 | 138.3 | 138.7 | 139.2 | 139.6 | 140.1 | 140.7 | 141.0 | 141.9 | 143.4 |
| Food $\bigcirc$ | 118.4 | 123.5 | 124.6 | 124.8 | 124.9 | 125.4 | 126.0 | 128.6 | 131.1 | 134.5 | 136.5 | 137.9 | 139.8 | 140.9 | 149.4 | 148.3 |
| Meats, poultry, and fish......................do | 116.9 | 128.0 | 130.8 | 130.9 | 131.3 | 131.5 | 131.2 | 136.1 | 142.8 | 152.7 | 155.4 | 155.6 | 156.5 | 157.8 | 184.0 | 180.2 |
| Dairy products .--.---.-.-.........--- do | 115.3 | 117.1 | 116.6 | 116.9 | 117.1 | 117.7 | 118.3 | 119.1 | 121.0 | 121.5 | 121.8 | 123.2 | 124. 1 | 124. 1 | 126.6 | 130.3 |
| Fruits and vegetables....-.-.-.-.-.-.-.- do | 119.1 | 125.0 | 128.1 | 125.7 | 124.5 | 126.5 | 127.3 | 130.5 | 133.3 | 136.8 | 141.8 | 144.6 | 151.7 | 153.7 | 152.6 | 137.3 |
|  | 124.3 | 129.2 | 129.9 | 130.1 | 130.4 | 130.8 | 131. 2 | - 131.5 | 132.0 | +132.4 | 132.8 | 133.3 | 133.9 | 134.2 | 135.2 | 136. 6 |
|  | 128.8 | 134.5 | 135.5 | 135.7 | 136.0 | 136.2 | 136.8 | - 137.0 | +137.4 | 137.7 | 138.1 | 138.7 | 139.4 | 139.7 | 141. 1 | 142.9 |
|  | 115.2 | 119.2 | 119.6 | 119.9 | 120.3 | 120.5 | 121.0 | r 121.8 | ז 122.3 | +122.8 | -123.2 | - 123.7 | r 124.0 | 124.4 | 125.0 | 125.4 |
| Homeownershi | 133.7 | 140.1 | 141.3 | 141.5 | 141.8 | 142.0 | 142.6 | 142.6 | 142.9 | 143.2 | 143.6 | 144.2 | 145.0 | 145.2 | 147.0 | 149.2 |
| Fuel and utilities...+ | 115.1 | 120.1 | 120.1 | 120.3 | 120.6 | 121.7 | 121.9 | 122.8 | 124.1 | 124.6 | 125.1 | 125.4 | 125.6 | 125.7 | 126.3 | 126.8 |
| Fuel oil and coal.......................-do | 117.5 | 118.5 | 117.9 | 118.0 | 118.1 | 119.3 | 119.4 | 120.7 | 127.2 | 127.8 | 128.3 | 129.3 | 131. 6 | 131.7 | 132.8 | 133.6 |
| Gas and electricity .-..---.............do | 114.7 | 120.5 | 120.5 | 120.5 | 120.9 | 122.2 | 122.5 | 124.1 | 124.5 | 125.0 | 125.5 | 125.7 | 125. 4 | 125.5 | 125.8 | 126.5 |
| Household furnishings and operation... do | 118.1 | 121.0 | 121.2 | 121.6 | 121.8 | 122.1 | 122.3 | 122.2 | 122.6 | 123.0 | 123.6 | 123.9 | 124.7 | 125.0 | 125.3 | 126.1 |
| Apparel and upkeep.......................- do. | 119.8 | 122.3 | 120.8 | 123.1 | 124.3 | 125.0 | 125.0 | 123.0 | 123.6 | 124.8 | 125.8 | 126.7 | 126.8 | 125.8 | 126.5 | 128.3 |
| Transportation................................. do | 118.6 | 119.9 | 120.5 | 121.0 | 121.2 | 121.4 | 121.3 | 121.0 | 121.1 | 121.5 | 122.6 | 123.5 | 124.6 | 124.8 | 124.5 | 123.9 |
|  | 116.6 | 117.5 | 118.1 | 118.6 | 118.7 | 119.0 | 118.9 | 118.5 | 118.7 | 119.1 | 120.3 | 121.3 | 122.4 | 122.6 | 122.3 | 121. 6 |
|  | 112.0 | 111.0 | 110.6 | 109.6 | 110.1 | 110.2 | 110.6 | 111.1 | 111.0 | 110.8 | 111.1 | 111.1 | 111.0 | 110.9 | 110.6 | 109.1 |
| Used | 110.2 | 110.5 | 112.4 | 113.6 | 115.2 | 116.0 | 115.0 | 112.8 | 112.4 | 113.7 | 117.3 | 120.6 | 122.3 | 122.7 | 121.3 | 120.3 |
| Public........................................- ${ }^{\text {do }}$ | 137.7 | 143.4 | 143.3 | 144.0 | 144.1 | 144.1 | 144.5 | 144.3 | 144.3 | 144.5 | 143.9 | 143.9 | 144.9 | 144.9 | 144.9 | 145.5 |
| Health and recreat | 122.2 | 126. 1 | 126.5 | 126.8 | 127.2 | 127.4 | 127.5 | 127.8 | 128.1 | 128.6 | 129.2 | 129.6 | 130.0 | 130.3 | 130.5 | 131.1 |
| Medical care. | 128.4 | 132.5 | 132.9 | 133.1 | 133.9 | 134.1 | 134.4 | 134.9 | 135.3 | 135.8 | 136.2 | 136.6 | 137.0 | 137.3 | 137.6 | 138.3 |
| Personal care | 116.8 | 119.8 | 120.2 | 120.5 | 120.8 | 121.0 | 121.5 | 121.8 | 122.4 | 123.1 | 123.8 | 124.4 | 124.9 | 125.3 | 125.7 | 126.3 |
|  | 119.3 | 122.8 | 123.0 | 123.7 | 124.0 | 124.1 | 124.0 | 124.1 | 124.3 | 124.5 | 125.2 | 125.6 | 125.9 | 126.2 | 126.1 | 126.8 |
| WHOLESALE PRICES ${ }^{\circ}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (U.S. Department of Labor Indexes) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spot market prices, basic commodities: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1108.0 | ${ }^{1} 120.0$ | 121.0 | 122.7 | 124.5 | 126. 2 | 130.8 | 134.4 | 143.0 | 149.9 | 152.9 | 161.1 | 171.2 | 181.9 | + 207.8 | 194.9 |
|  | 1109.3 | ${ }^{1} 115.0$ | 115.8 | 119.7 | 119.4 | 118.7 | 125.0 | 127.5 | 136.6 | 142.3 | 145.4 | 158.6 | 172.8 | 187.2 | 236.6 | 203.0 |
|  | 1107.1 | ${ }^{1} 123.0$ | 124.6 | 124.8 | 128.1 | 131.0 ò | 134.8 | 139.3 | 147.5 | 155.3 | 153.2 | 162.9 | 170.1 | 178.1 | +189.8 | 186.3 |
| All commodit | 113.9 | 119.1 | 119.9 | 120.2 | 120.0 | 120.7 | 122.9 | 124.5 | 126.9 | 129.7 | 130.7 | 133.5 | 136.7 | 134.9 | 142.7 | 140.2 |
| By stage of processing: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Crude materials for further processing....do. | 115.0 | 127.6 | 130.3 | 130.3 | 129.2 | 130.4 | 138.3 | 143.3 | 151.3 | 159.0 | 158.8 | 167.7 | 177.5 | 170.9 | 207.5 | 197.1 |
| Intermediate materials, supplies, etc......do. | 114.0 | 118.7 | 119.2 | 119.7 | 119.9 | 120.6 | 122.3 | 123.1 | 125.1 | 127.4 | 128.5 | 131.5 | 134.3 | 131.9 | 136. 1 | 133.9 |
| Finished goods $\odot$-----.---...............- do | 113.5 | 117.2 | 117.9 | 118.2 | 117.6 | 118.3 | 119.5 | 121.0 | 122.5 | 124.6 | 125.6 | 126.8 | 128.7 | 128.8 | 132.9 | 132.2 |
| Consumer finished goods - .-.-.-...-.... do | 112.7 | 116.6 | 117.4 | 117.7 | 117.1 | 117.9 | 119.3 | 121.2 | 122.9 | 125.5 | 128.6 | 127.9 | 130.2 | 130.4 | 135.4 | 134.5 |
| Producer finished goods .................... do | 116.6 | 119.5 | 119.8 | 119.9 | 119.7 | 119.9 | 120.3 | 120.6 | 121.2 | 121.7 | 122.3 | 123.1 | 123.4 | 123.5 | 123.9 | 124.2 |
| By durability of product: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Durable goods .-............................. do | 117.0 | 121.1 | 121.6 | 121.8 | 121.7 | 121.8 | 122.1 | 122.7 | 123.9 | 125.6 | 127.0 | 128.0 | 128.2 | 128.0 | 128.5 | 128.9 |
|  | 111.7 | 117.6 | 118.6 | 119.1 | 118.8 | 120.0 | 123.5 | 125.7 | 129.2 | 132.9 | 133.5 | 137.7 | 143.1 | 140.1 | 153.3 | 148.7 |
| Total manufactures...-.----.-.-.----------- do | 113.8 | 117.9 | 118.5 | 118.8 | 118.8 | 119.2 | 120.7 | 121.6 | 123.6 | 125.7 | 126.7 | 128.7 | 130.9 | 129.8 | 134.0 | 132.5 |
| Durable manufactures .--.-.-..-....--- do | 117.0 | 121.1 | 121.7 | 121.9 | 121.7 | 121.8 | 122.1 | 122.6 | 123.7 | 125.4 | 126.7 | 127.7 | 127.8 | 127.6 | 128.0 | 128.3 |
|  | 110.5 | 114.7 | 115.1 | 115.6 | 115.8 | 116.5 | 119.2 | 120.6 | 123.5 | 125.4 | 126.6 | 129.7 | 134.0 | 132.0 | 140.1 | 136.6 |
| Farm prod., processed foods and feeds....-do.. | 113.8 | 122.4 | 123.8 | 124.5 | 123.3 | 125.3 | 132.6 | 137.0 | 142.4 | 149.0 | 147.9 | 154.9 | 163.6 | 156.9 | 184.5 | 173.5 |
|  | 112.9 | 125.0 | 128.2 | 128.6 | 125.5 | 128.8 | 137.5 | 144.2 | 150.9 | 160.9 | 160.6 | 170.4 | 182.3 | 173.3 |  | 200.4 |
| Fruits and vegetables, fresh and dried do | 120.1 | 127.6 | 138.9 | 138.1 | 122.8 | 141.8 | 134.6 | 151.2 | 146.9 | 158.5 | 176.0 | 186.0 | 197.5 | 187.8 | 162.2 | 149.0 |
|  | 100.9 | 102.9 | 99.8 | 109.5 | 109.2 | 113.6 | 137.6 | 135.6 | 128.2 | 126.1 | 130.9 | 149.9 | 178.6 | 157.2 | 266.4 | 231.5 |
| Live poultr | 100.3 | 104.0 | 106.8 | 112.3 | 103.8 | 102.8 | 103.6 | 127.9 | 137.0 | 164.8 | 185.8 | 180.3 | 184.5 | 189.5 | 269.7 | 226.5 |
|  | 118.3 | 142.5 | 148.1 | 144.9 | 144.2 | 139.5 | 152.6 | 159.4 | 177.8 | 194.4 | 184.1 | 188.7 | 193.8 | 199.3 | 243.3 | 207.4 |
| Foods and feeds, processed $9 . . . . . . . . . . .$. do | 114.3 | 120.8 | 121.0 | 121.8 | 121.8 | 123.1 | 129.4 | 132.4 | 137.0 | 141.4 | 139.8 | 145.0 | 151.8 | 146.5 | 166.2 | 156.3 |
| Beverages and beverage materials.......do | 115.8 | 118.0 | 118.9 | 119.1 | 118.8 | 119.4 | 119.7 | 119.8 | 120.0 | 120.8 | 121.4 | 121.9 | 121.4 | 121.1 | 121.2 | 121.6 |
| Cereal and bakery products............-do | 111.4 | 114.7 | 115.3 | 116.1 | 116.9 | 118.3 | 120.1 | 121.0 | 120.8 | 121.3 | 123.7 | 124.3 | 125.9 | 125.5 | 136.2 | 147.7 |
| Dairy products.-.---...-.-.-.-.-....-- do | 115. 4 | 118.6 | 118.6 | 119.0 | 120.0 | 121.8 | 123.0 | 123.8 | 124.0 | 126.8 | 127.2 | 126.5 | 127.5 | 127.1 | 131.3 | 137.2 |
| Fruits and vegetables, processed.-.---do. | 114.3 | 119.7 | 120.2 | 120.1 | 121.8 | 123.8 | 124.7 | 125.3 | 125.9 | 126.? | 126.6 | 127.2 | 127.9 | 127.7 | 129.3 | 130.0 |
| Meats, poultry, and fish...........-.-.-do...- | 116.0 | 130.0 | 132.3 | 131.7 | 130.4 | 127.9 | 136.3 | 145.2 | 153.1 | 165.1 | 163.2 | 162.5 | 164.9 | 169.7 | 198.3 | 187.3 |
| Industrial commodities......................-do | 114.0 | 117.9 | 118.5 | 118.7 | 118.8 | 119.1 | 119.4 | 120.0 | 121.3 | 122.7 | 124.4 | 125.8 | 126.9 | 126.9 | 127.4 | 128.1 |
| Chemicals and allied products $\%$.........do... | 104.2 | 104.2 | 104.4 | 104.4 | 104.4 | 104.7 | 104.8 | 105.1 | 105. 6 | 106.7 | 107.7 | 109.3 | 110.4 | 110.8 | 111.0 | 111.5 |
| Agric. chemicals and chem. prod.-.....-d)-.- | 92.2 | 91.7 | 92.0 | 92.0 | 92.1 | 92.4 | 92.5 | 93.0 | 93.1 | 93.6 | 94.5 | 94.7 | 95.0 | 96.7 | 95.9 | 95.9 |
| Chemicals, industrial .....-.-...-.......do | 102.0 | 101. 2 | 101.3 | 101.3 | 100.8 | 100.9 | 101.0 | 101.4 | 101.8 | 101.9 | 102.6 | 102.7 | 103.0 | 103.4 | 103.5 | 104.3 |
| Drugs and pharmaceuticals.-...-------- do | 102.4 | 103.0 | 103.3 | 103.1 | 103.3 | 103. 6 | 103.7 | 103.5 | 103.6 | 103.8 | 103.8 | 104.0 | 104.4 | 104.4 | 104.3 | 104.7 |
| Fats and oils, inedible..-.-.-.---.-..... do... | 133.5 | 115.8 | 121.4 | 116.4 | 117.2 | 123.2 | 128.2 | 130.3 | 139.1 | 173.9 | 184.0 | 232.0 | 263.6 | 263.2 | 273.2 | 279.5 |
|  | 115.6 | 118.0 | 118.3 | 118.3 | 118.2 | 118.2 | 118.2 | 119.4 | 119.4 | 119.9 | 120.3 | 120.8 | 121.0 | 121.0 | 121.0 | 121.2 |
| Fuels and related prod., and power $9 . .$. do... | 114.2 | 118.6 | 119.7 | 120.3 | 120.6 | 121.3 | 121.9 | 122.2 | 126.0 | 126.7 | 131.8 | 135.5 | 142.8 | 142.8 | 142.9 | 144.8 |
|  | 181.8 | 193.8 | 191.5 | 192.2 | 192.4 | 201.2 | 205. 5 | 205.5 | 206.9 | 207.4 | 213.8 | 214.2 | 215.1 | 214.0 | 214.4 | 222.6 |
| Electrie power---------....................do | 113.6 | 121.5 | 122.1 | 122.6 | 123.1 | 123.0 | 122.9 | 123.8 | 125.9 | 126.8 | 127.6 | 128.2 | 128.4 | 129.0 | 129.1 | 130.9 |
|  | 108.0 | 114.1 | 114.3 | 116.7 | 117.5 | 119.0 | 119.2 | 118.4 | 118.6 | 118.9 | 120.1 | 121.4 | 128.0 | 128.7 | 130.4 | 132.2 |
| Petroleum products, refined..---.-...-.- do..- | 106.8 | 108.9 | 110.7 | 111.3 | 111.5 | 111.5 | 112.0 | 112.3 | 118.7 | 119.4 | 127.9 | 133.9 | 146.6 | 146.1 | 145.9 | 146.1 |
| Furniture and household durables $\uparrow . . .$. do | 109.9 | 111.4 | 111.7 | 112.0 | 112.0 | 112.3 | 112.4 | 112.6 |  | 113.5 | 114.1 | 115.1 | 115.2 | 115.2 | 115.9 | 116.0 |
| Appliances, household.----.---..--...- do. | 107.2 | 107.6 | 107.7 | 108.1 | 108.0 | 108. 0 | 107.9 | 107.8 | 108.2 | 108.4 | 108.3 | 108.0 | 107.4 | 107.7 | 109.0 | 109.0 |
|  | 114.8 | 117.3 | 117.8 | 117.7 | 117.7 | 118.1 | 118.5 | 119.1 | 119.4 | 120.0 | 121.8 | 122.3 | 123.3 | 123.2 | 123.6 | 124.4 |
| Home electronic equipment.....-.........do......... | 93.8 | 92.7 | 92.4 | 92.9 | 92.9 | 92.5 | 92.3 | 92.4 | 92.4 | 92.2 | 92.2 | 92.2 | 91.6 | 91.6 | 92.0 | 91.5 |
| ${ }^{1}$ Computed by BEA. OIncludes data for iter wholesale prices of individual commodities, see resp | ot sh | separ dities | y. | ${ }^{\text {a For ac }}$ |  | $\bigcirc \cdot \mathrm{Go}$ | ds to u | ers, incl. | raw food | and fu |  |  |  |  |  |  |


| Unless other wise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

COMMODITY PRICES-Continued

| WHOLESALE PRICES $\sigma^{\circ}-$ Continued <br> (U.S. Department of Labor Inderes-Continued) All commodities-Continued <br> Industrial commodities-Continued <br> Hides, skins, and leather products $\%$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Footwear $1967=100$. | 114.0 116.8 | 131.3 124 | $\begin{array}{r}194.6 \\ 126.5 \\ \hline\end{array}$ | 136.7 | 139.8 127.0 | 144.0 128.5 | 1428.2 | 143.9 129.0 | 144.9 130.9 | 143.5 | 145.0 | 142.2 | 140.9 | 141.4 | 143.0 | 143.8 130.3 |
| Hides and skins | 115.1 | 213.7 | 243.0 | 244.0 | 270.8 | 287.0 | 255.2 | 274.0 | 272.7 | 246.4 | 270.2 | 253.5 | 241.6 | 246.3 | 1291.6 | 130.3 257.3 |
| Leather-....-............................-d. ${ }^{\text {do }}$ | 112.5 | 140.3 | 140.6 | 143.5 | 153.3 | 162.6 | 162.2 | 162.8 | 162.9 | 164.5 | 161.1 | 159.7 | 156.4 | 156.8 | 157.5 | 162.8 |
| Lumber and wood products...-.-........do | 127.0 | 144.3 | 148.1 | 148.5 | 149.2 | 149.4 | 149.8 | 151.0 | 161.0 | 173.2 | 182.0 | 186.9 | 183.1 | 177.8 | 178.8 | 181.9 |
|  | 135.5 | 159.4 | 164.1 | 165.1 | 166.1 | 166.8 | 167.9 | 169.0 | 182.3 | 195.8 | 207.2 | 215.4 | 214.8 | 209.6 | 210.8 | 216.9 |
| Machinery and equipment $9 . . . . . . . . . . .-$ do | 115.5 | 117.9 | 118.3 | 118.3 | 118.4 | 118.5 | 118.6 | 118.9 | 119.4 | 120.0 | 120.8 | 121.5 | 121.9 | 122.0 | 122.3 | 122.6 |
| Agricultural machinery and equip.-... do | 117.2 | 122.3 | 122.8 | 122.6 | 122.6 | 122.9 | 122.9 | 123.6 | 124.4 | 124.7 | 124.7 | 125.0 | 125.4 | 125.5 | 125.5 | 125.6 |
| Construction machinery and equip....do | 121.4 | 125.7 | 126.1 | 126.1 | 126.1 | 126.3 | 126.3 | 126.6 | 127.4 | 128.6 | 130.4 | 130.9 | 131.3 | 130.9 | 131.4 | 131.4 |
| Electrical machlnery and equip.......-do | 109.5 | 110.4 | 110.6 | 110.6 | 110.5 | 110.6 | 110.6 | 110.9 | 111.0 | 111.3 | 111.7 | 112.3 | 112.7 | 112.7 | 112.7 | 112.8 |
| Metalworking machinery and equip...-do | 117.3 | 120.2 | 120.8 | 121.0 | 121.2 | 121.3 | 121.3 | 121.8 | 122.5 | 123.4 | 124.5 | 125.2 | 125.6 | 125.8 | 125.8 | 126.6 |
| Metals and metal products $9 . . .$. | 119.0 | 123.5 | 123.7 | 124.0 | 124.1 | 124.1 | 124.4 | 125.6 | 126.9 | 129.2 | 130.5 | 131.7 | 132.5 | 132.8 | 133.7 | 134.4 |
|  | 115.5 | 118.2 | 119.2 | 119.2 | 119.2 | 119.2 | 119.2 | 118.8 | 119.2 | 119.5 | 120.5 | 120.2 | 120.7 | 120.9 | 120.7 | 120.7 |
|  | 121.8 | 128.4 | 128.6 | 128.8 | 128.9 | 129.0 | 129.5 | 131.9 | 133.0 | 133.3 | 134.0 | 135.3 | 135.9 | 135.9 | 136.0 | 136.5 |
| Nonferrous metals.---..................do | 116.0 | 116.9 | 116.8 | 117.4 | 117.3 | 117.2 | 117.4 | 117.9 | 121.0 | 128.3 | 131.4 | 133.2 | 135.0 | 135.9 | 137.9 | 138.5 |
| Nonmetallic mineral products $\%$...........do.... Clay prod., structural, excl. refractories | 122.4 | 126.1 | 126.7 | 126.9 | 127.3 | 127.3 | 127.4 | 128.2 | 128.4 | 129.0 | 130.0 | 130.5 | 131.1 | 130.0 | 130.0 | 129.9 |
| do...- | 114.2 | 117.3 | 117.5 | 117.5 | 118.4 | 118.8 | 118.9 | 120.3 | 121.5 | 122.2 | 123.0 | 123.6 | 123.8 | 123.8 | 123.9 | 123.9 |
| Concrete products.-----------.--...... do | 120.6 | 125.6 | 126.1 | 126.3 | 127.2 | 127. 3 | 127.5 | 128.5 | 128.9 | 129.6 | 130.8 | 131.5 | 132.3 | 132.3 | 132.3 | 132.5 |
| Gypsum products......------...-.... do | 106.8 | 114.7 | 116.1 | 115.2 | 115.5 | 115.0 | 114.8 | 117.4 | 115.8 | 118.1 | 119.6 | 120.4 | 124.1 | 122.9 | 122.5 | 122.0 |
| Pulp, paper, and allied products . . . .-..--do | 110.1 | 113.4 | 114.1 | 114.3 | 114.7 | 115.0 | 115.1 | 115.8 | 116.5 | 118.3 | 119.8 | 120.7 | 122.0 | 122.3 | 123.3 | 124.4 |
|  | 114.1 | 116.3 | 116.7 | 116.7 | 116.8 | 117.3 | 117.5 | 117.8 | 118.5 | 119.2 | 120.2 | 120.8 | 122.5 | 121.8 | 121.5 | 121.7 |
| Rubber and plastics products..........-. do | 109.2 | 109.3 | 109.5 | 109.5 | 109.5 | 109.8 | 109.8 | 110.0 | 110.1 | 110.3 | 110.6 | 111.5 | 112.6 | 112.9 | 113.1 | 112.8 |
| Tires and tubes...--.---...............-do | 109.2 | 109.2 | 109.7 | 109.7 | 109.7 | 109.7 | 109.7 | 109.7 | 109.3 | 109.3 | 109.4 | 110.0 | 110.4 | 110.4 | 110.4 | 110.4 |
| Textile products and apparel $9 . .$. ........do. | 108.6 | 113.6 | 114. 1 | 114.3 | 114.8 | 115.1 | 115.6 | 116.6 | 117.4 | 119.0 | 120.8 | 122.3 | 123.7 | 124.2 | 125.2 | 126.8 |
|  | 112.9 | 114.8 | 115.1 | 115.3 | 115.6 | 115.9 | 116.0 | 116.5 | 116.8 | 117.0 | 117.7 | 118.4 | 118.8 | 118.8 | 119.3 | 119.5 |
| Cotton products - ${ }^{\text {Manmade }}$ fiber textle products | 110.6 | 121.8 | 122.8 | 123.6 | 124.0 | 124.2 | 124.8 | 126.0 | 128.2 | 130.0 | 133.3 | 137.4 | 141.3 | 144.6 | 147.3 | 153.1 |
| Manmade fiber textlle products......- do | 100.8 | 108.0 | 108.7 | 108.6 | 108.6 | 109.5 | 110.3 | 111.4 | 111.8 | 115.2 | 118.7 | 121.5 | 122.9 | 123.1 | 123.7 | 126.7 |
| Wool products....----.-.-............d. ${ }^{\text {do... }}$ | 93.5 | 99.4 | 101.1 | 102.5 | 106.6 | 107.1 | 108.8 | 114.5 | 119.2 | 127.7 | 129.8 | 127.5 | 131.3 | 132.1 | 134.9 | 133.7 |
| Transportation equipment $¢ . .$. Dec. $1968=100 \ldots$ | 110.3 | 113.7 | 114.2 | 114.2 | 112.9 | 113.0 | 114.2 | 114.1 | 114.2 | 114.5 | 114.9 | 115.1 | 115.0 | 115.0 | 115.1 | 114.5 |
| Motor vehicles and equip.......... $1967=100$ | 114.7 | 118.0 | 118.5 | 118.5 | 116.9 | 117.0 | 118.4 | 118.2 | 118.2 | 118.6 | 119.0 | 119.1 | 118.9 | 119.0 | 119.0 | 118.3 |
|  | 112.8 | 114.6 | ${ }^{115.1}$ | 115.2 | 115.0 | 115.0 | 115.1 | 115.8 | 117.1 | 117.9 | 118.6 | 119.5 | 120.2 | 120.9 | 121.0 | 121.1 |
| Toys, sporting goods, etc.........-.-...-do. | 112.6 | 114.4 | 114.5 | 114.8 | 114.9 | 115.0 | 115.1 | 116.2 | 116.5 | 117.1 | 117.2 | 117.3 | 117.5 | 117.6 | 117.8 | 118.3 |
| Tobacco products...------------.---do-- | 116.7 | 117.5 | 117.5 | 117.5 | 117.5 | 117.5 | 117.5 | 117.5 | 121.0 | 121.8 | 122.0 | 122.3 | 122.5 | 122.5 | 122.5 | 122.5 |
| PURCHASING POWER OF THE DOLLAR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| As measured by- <br> Wholesale prices $1967=\$ 1.00 .$ | \$0.878 | \$0.840 | \$0.834 | \$0.832 | \$0.833 | \$0.829 | \$0.814 | \$0.803 | \$0.788 | \$0. 771 | \$0.765 | \$0.749 | \$0.732 | \$0.741 | \$0.701 | \$0. 713 |
|  | . 824 | . 798 | . 796 | 792 | 790 | . 788 | 786 | . 783 | 778 | . 770 | . 765 | . 760 | . 755 | . 754 | . 740 | . 738 |

CONSTRUCTION AND REAL ESTATE

| CONSTRUCTION PUT IN PLACE 1 <br> New construction (unadjusted), total ๆ.....-mil. \$.- | 109, 238 | 123,836 | 11,420 | 11,489 | 11,571 | 11,048 | 10,502 | 9,569 | 9,199 | 10,068 | 10,913 | 11,772 | r 12, 277 | 411 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 79,367 | 93,640 | 8,542 | 8,597 | 8,686 | 8,506 | 8,114 | 7,338 | 6,991 | 7,646 | 8,333 | 8,925 | -9,378 | + 9,568 | 9,676 |  |
|  | 43, 268 | 54, 186 | 5, 054 | 5, 075 | 5,046 | 4,946 | 4, 677 | 4,249 | 4, 008 | 4,348 | 4, 800 | 5,177 | + 5,476 | - 5,551 | 5,536 |  |
|  | 35, 066 | 44, 736 | 4,143 | 4,215 | 4,236 | 4,181 | 3,954 | 3,553 | 3,328 | 3,559 | 3,822 | 4,096 | +4,411 | r 4,540 | 4,542 |  |
| Nonresidential buildings, except farm and public utilities, total o......................mil. \$.. | 22,479 | 24,036 | 2,144 | 2, 171 | 2,221 | 2,121 | 2,051 |  |  |  |  |  |  |  |  |  |
|  | 5,423 | 4,036 4,676 | 2,144 | 2, 401 | 2, 397 | 2, 399 | 2,051 420 | 1, 399 | 1,862 360 | 2,063 418 | $\begin{array}{r}2,194 \\ \hline 437\end{array}$ | 2,302 446 | $\begin{array}{r}\cdot 2,428 \\ r \\ \hline 10\end{array}$ | $+2,483$ +545 $+1,384$ | 2,568 589 |  |
|  | 11, 619 | 13,462 | 1, 203 | 1,252 | 1,274 | 1,187 | 1,137 | 1,088 | 1,051 | 1,154 | 1,235 | 1,322 | - 1,372 | r 1,384 | 1,425 |  |
| Public utilities: <br> Telephone and telegraph | 3,005 | 3,283 | 296 | 286 | - 307 | 307 | 314 | +223 | 1,245 | 1,15 300 | 1,295 299 | 1,322 336 | 1,35 356 | 1,381 348 |  |  |
|  | 29,871 | 30,196 | 2,878 | 2,892 | 2,885 | 2,542 | 2,388 | 2,231 | 2,208 | 2, 422 | 2,580 | 2,847 | -2,899 | +2,843 | 3, 059 |  |
| Buildings (excluding military) $¢$..-.-....-do...- | 11,397 | 11,500 | 1,040 | 1,049 | 1, 102 | 958 | 1,012 | 1,051 | 1,001 | 1,074 | 1,131 | 1,162 | 1,066 | 1,012 |  |  |
| Housing and redevelopment.-.-.-.-.-.-. do. | 1,136 | 875 | . 78 | 1,62 | 173 | 71 | 1, 77 | 1, 66 | - 57 | 1, 83 | 1, 74 | 1, 75 | ${ }^{1,81}$ | 1, 83 |  |  |
| Industrial................................... ${ }^{\text {do. }}$ | 572 | 534 | 42 | 44 | 47 | 43 | 51 | 56 | 45 | 48 | 52 | 52 | 57 | 37 | 32 |  |
|  | 901 | 1,080 | 85 | 98 | 100 | 108 | 103 | 94 | 96 | 94 | 85 | 106 | + 107 | r 101 | 103 |  |
|  | 10,658 | 10,448 | 1,104 | 1,093 | 1,045 | 914 | 717 | 579 | 598 | 643 | 727 | 858 | 1,015 | 10 | 103 |  |
| New construction (seasonally adjusted at annual rates), total $\qquad$ |  |  | 123.0 | 125.1 | 128.5 | 126.8 | 131.6 | 135.5 | 136.1 | 138.1 | 135.9 | 136.9 | + 135.9 | - 138.3 | 137.7 |  |
|  |  |  | 93.9 | 94.5 | 96.2 | 97.5 | 98.4 | 101.8 | 103.8 | 104.4 | 103.3 | 104.6 | + 104.9 | + 106.9 | 106.6 |  |
| Residential (including farm) .-.-.-.-.......do...- |  |  | 54.5 | 55.5 | 56.4 | 57.2 | 57.5 | 59.1 | 61.2 | 61.2 | 59.9 | 59.8 | + 60.1 | ${ }^{+} 60.2$ | 59.9 |  |
| New housing units......................do.... |  |  | 44.7 | 45.9 | 46.9 | 47.8 | 48.0 | 48.1 | 49.4 | 49.6 | 48.9 | 49.2 | - 49.5 | r 49.4 | 49.1 |  |
| Nonresidential buildings, except farm and public utilities, total 8 bil. \$- |  |  | 24.1 | 23.7 | 24.3 | 24.5 | 24.8 | 26.3 | 26.2 | 26.7 | 27.0 | 27.7 | -28.0 | 28.9 | 28.8 |  |
|  |  |  | 4.7 | 4.5 | 4.3 | 4.6 | 4.8 | 5.3 | 5.2 | 5.5 | 5.3 | 5.3 | r 5.9 | +6.3 | 6.7 |  |
|  |  |  | 13.4 | 13.4 | -13. 7 | 13.6 | 13.9 | 15.0 | 14.9 | 15.1 | 15.5 | 16.1 | ${ }^{+} 15.7$ | -16.1 | 15.8 |  |
| Public utilities: <br> Telephone and telegraph. $\qquad$ |  |  | 3.4 | 3.3 | 3.4 | 3.5 | 3.5 | 3.6 | 3.6 | 3.6 | 3.6 | 4.0 | 3.9 | 4.1 |  |  |
|  |  |  | 29.2 | 30.6 | 32.3 | 29.3 | 33.1 | 33.7 | 32.3 | 33.6 | 32.6 | 32.3 | ${ }^{+} 31.0$ | - 31.4 | 31.1 |  |
| Buildings (excluding military) $\%$..........do |  |  | 11.4 | 12.0 | 13.3 | 11.1 | 12.9 | 14.2 | 12.7 | 14.0 | ${ }^{+13.7}$ | 13.4 | ' 12.2 | 12.0 |  |  |
| Housing and redevelopment |  |  | 1.0 | . 8 | . 9 | . 7 | . 9 | . 8 | . 7 | 1.0 | . 9 | . 9 | . 9 | 1.0 |  |  |
| Industrial |  |  | . 5 | . 5 | . 5 | . 5 | . 6 | . 7 | . 6 | . 6 | . 6 | . 5 | . 6 | . 6 | . 4 |  |
| Military facilities.. |  |  | . 9 | 1.0 | 1.1 | 1.2 | 1.2 | 1.2 | 1.4 | 1.3 | 1. 2 | 1.3 | $r 1.2$ | r 1.3 | 1.0 |  |
| Highways and streets......--......-..........do. |  |  | 10.0 | 10.4 | 10.6 | 10.6 | 11.0 | 10.9 | 11.0 | 10.5 | 9.9 | 9.6 | 10.1 |  |  |  |

- Revised. $\quad$ Preliminary.

T'See corresponding note on p. S-8. $\quad$ Includes data for items not shown separately.
TBeginning Jan. 1969, data have been revised to reflect the incorporation of new basic
data and the introduction of new seasonal factors based upon data through 1972; monthly data are available upon request.

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. |  | Dec. | Jan. | Feb. | Mar. | Apr. |  | June | July | Aug. | Sept. |

CONSTRUCTION AND REAL ESTATE-Continued


[^35]| Unless otherwise stated in fontnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

DOMESTIC TRADE

| ADVERTISING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| McCann-Erickson national advertising index, seasonally adjusted: $\dagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Combined indext-....-.-.-.-......-1957-59 ${ }_{\text {Television }}=100 .-$ | 199 | ${ }_{262}^{219}$ | 219 | 225 281 | 228 275 | 233 272 | ${ }_{287}^{242}$ | 238 275 | 219 | ${ }_{289}^{224}$ | 233 300 | ${ }_{287}^{232}$ | ${ }_{277}^{231}$ | 233 |  |  |
|  | 302 | ${ }^{2} 341$ | 310 | 360 | 348 | 377 | 410 | 418 | 339 | 367 | 365 | 380 | 384 | 344 |  |  |
| Magazines. | 175 | 186 | 187 | 183 | 184 | 195 | 192 | 187 | 175 | 179 | 184 | 191 | 192 | 187 |  |  |
|  | 141 | 153 | 162 | 146 | 169 | 162 | 163 | 164 | 44 | 137 | 155 | 146 | 149 | 176 |  |  |
| Magazine advertising (general and natl. farm magazines): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost, total | $1,251.4$ 47.0 | 1, 2974.7 | 78.1 3.7 | 117.0 6.4 | 136.5 | 138.5 | 111.2 3.5 | 72.5 1.7 | 89.6 | 109.8 | 126.7 | 126.7 | 109.8 | 81.3 | 77.2 | 117.1 |
| Apparel and accessorles.---.-...........-do | 111.3 | 119.8 19 | 5.0 | 8.4 | 5.0 15.1 | 4.1 11.7 | 3.5 6.8 | 1.7 5.9 | $\stackrel{2.2}{8.8}$ | 4.9 11.3 | 5.7 13.6 | 3.5 13.3 | 2.0 11.0 | 1.5 | 3.7 6.0 | 6.2 7.9 |
| Building materials. | 19.2 | 23.2 | 9 | 2.2 | 2.1 | 2.1 | 1.0 | 1.0 | 1.7 | 2.8 | 3.4 | 3.5 | 2.5 | 1.2 | 1.3 | . 7 |
| Drugs and tolletr | 158.6 | 148.2 | 11.2 | 12.1 | 13.5 | 13.6 | 11.5 | 9.3 | 11.7 | 12.1 | 11. 6 | 13.0 | 12.6 | 10.1 | 10.6 | 11.2 |
| Foods, soft drinks, confectionery --------d | 108.1 | 115.2 | 6.3 | 8.9 | 11.8 | 13.7 | 9.7 | 5.0 | 8.6 | 8.0 | 9.5 | 8.3 | 9.3 | 8.4 | 5.3 | 6.8 |
| Beer, wine, llquors...----------........d | 88.2 | 91.0 | 4.7 | 6.7 | 10.2 | 11.4 | 14.8 | 3.4 | 3.7 | 5.1 | 6.9 | 8.0 | 7.4 | 5.6 | 3.9 | 6.4 |
| Household equip, supplies, furnishings..d | 64.0 | 76.7 | 3.4 | 7.6 | 10.2 | 9.5 | 4.9 | 2.9 | 3.8 | 6.5 | 9.5 | 9.4 | 7.3 | 3.9 | 3.5 | 6.7 |
| Industrial materials. | 33.1 | 29.7 | 2.3 | 3.3 | 2.4 | 3.0 | 1.9 | 1.9 | 1.6 | 2.5 | 2.7 | 3.9 | 3.4 | 2.6 | 2.6 | 2 |
| Soaps, cleansers, etc | 118.8 | 20.6 116.2 |  | 1.8 11.3 | 11.7 | 1.9 11.4 | 1.3 11.3 | .9 7.2 | 1.4 8.1 | 2.0 8.3 | 2. 9.3 | 8.0 | 1.3 8.6 | 1.1 <br> 8.4 <br> 8. | 8.1 | ${ }_{9.2}^{1.7}$ |
| All other. | 486.0 | 512.7 | 30.5 | 48.1 | 53.2 | 56.0 | 44.6 | 33.4 | 38.0 | 46.2 | 52.5 | 53.1 | 44.4 | 30.6 | 31.0 | 54.1 |
| Newspaper advertising expenditures ( 64 cities): $\oplus$ Total | 3,208.2 | 3,648 | 273.4 | 281.2 | 333.7 | 339.1 | 306.4 | 279.6 | 274.1 | 315.5 | 340.7 | 338.5 | 316.3 |  | 302.8 |  |
|  | 100.8 | 102.5 | 7.4 | 10.5 | 8.2 | 8.8 | 5.9 | 6.9 | 7.8 | 8.7 | 9.7 | 9.7 | 8.8 | 8.8 | 9.2 |  |
| Classified | 751.7 | 914.9 | 76.7 | 74.3 | 82.9 | 72.8 | 64.4 | 79.8 | 76.9 | 87.4 | 92.2 | 91.2 | 90.2 | 91.8 | 91.8 |  |
|  | 163.1 | 122.1 | 6.3 | 8.3 | 11.6 | 9.4 | 9.8 | 13.6 | 8.3 | 11.4 | 15.2 | 10.4 | 11.6 | 17.8 | 8.7 |  |
| General. | 445.4 | 504.4 | 30.0 | 40.2 | 50.6 | 50.5 | 35.4 | 36. 4 | 37.3 | 43.7 | 46.9 | 44.5 | 40.8 | 30.4 | 29.4 |  |
| Retail | 1,807.3 | 2,004. 7 | 153.0 | 147.9 | 180.3 | 197.6 | 190.9 | 143.0 | 143.9 | 164.4 | 176.8 | 182.8 | 164.9 | 150.0 | 163.8 |  |
| WHOLESALE TRADE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Merchant wholesalers sales (unadj.), total...mi | 267, 357 | 298, 199 | 26,654 | 25, 555 | 26, 823 | 27,154 | 26,089 | 26,326 | 25,562 | 29,852 | 28,859 | 31,232 | 30.104 | 29,892 | 32,455 |  |
| Durable goods establishments .-.-.-.---- do | 122,420 | 138,446 | 12,552 | 12,092 | 12,604 | 12,381 | 11, 557 | 11,856 | 11,699 | 13,831 | 13,841 | 14,828 | 14.567 | -14,073 | 14,983 |  |
| Nondurable goods establishments..........-do | 144,937 | 159, 753 | 14,102 | 13,463 | 14, 219 | 14,833 | 14, 532 | 14,470 | 13, 863 | 16,021 | 15,018 | 16, 404 | 15, 537 | ${ }^{+15,819}$ | 17, 472 |  |
| Merchant wholesalers inventories, book value, end of year or month (unadj.), total.....mil. \$. | 28, 828 | 31,895 | 29,868 | 30,367 | 31,255 | 31,665 | 31,895 |  | 33, 171 | 33,493 | 33,614 | 33, 820 | 33, 921 | , 34,295 | 34,356 |  |
| Durable goods establishments...-.......-. - do. | 16, 987 | 18,672 | 18,098 | 18,166 | 18,250 | 18,471 | 18,672 | 18,970 | 19,139 | 19,525 | 19,714 | 20, 062 | 20, 329 | +20,390 | 20, 277 |  |
| Nondurable goods establishments..........d | 11, 841 | 13, 223 | 11,769 | 12, 201 | 13,005 | 13,194 | 13, 223 | 13,895 | 14,032 | 13,968 | 13,900 | 13,758 | 13, 592 | - 13,905 | 14,079 |  |
| RETAIL TRADE $\ddagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All retall stores: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Estimated sales (unadj.), total $\ddagger$.-.-.-..--mil. \$ | 408, 850 | 448,379 | 37, 994 | 37, 522 | 39, 014 | 39,790 | 47,004 | 35,768 | 34,977 | 41,309 | 40,686 | 43, 190 | 43,597 | - 41,674 | 43,015 | 40,263 |
| Durable goods stores 9 - - -------------- do- | 131,814 | 149,659 | 12,785 | 12,501 | 13,569 | 13,229 | 13,725 | 12,154 | 12, 284 | 14,853 | 14,535 | 15,465 | 15, 410 | -14,518 | 14,581 | ${ }^{\text {: } 13,418}$ |
|  |  | 88, 612 | 7,406 | 7,192 | 8,043 | 7,775 | 7,274 | 7.504 | 7,612 | 9,374 | 8,989 | 9,428 | 9,242 | -8,707 | - 8,512 | 17,678 |
| Passenger car, other auto. dealers. ...do.... Tire, battery, accessory dealers.......do..... | 72,538 6,378 | 81,521 7,091 | 6. 770 | $6,592$ | $\begin{array}{r}7,396 \\ \hline 647\end{array}$ | 7,136 639 | 6,624 650 | $\begin{array}{r} 7,019 \\ 485 \end{array}$ | $\begin{array}{r} 7,143 \\ 469 \end{array}$ | 8,761 614 | 8,347 642 | 8,744 684 | 8, 722 | $+8,016$ +691 | 7,817 695 |  |
|  | 18,5 | 21,315 | 1,817 | 1,760 | 1,863 | 1,959 | 2,330 | 1,789 | 1.754 | 1,927 | 1,856 | 1,953 | 2,0 | 1,940 | 2,01 |  |
| Furniture, honiefurnishings stores....do | 11,004 | 12,550 | 1,070 | 1,022 | 1,107 | 1,166 | 1,235 | 1,044 | 1,058 | 1,158 | 1,137 | 1,214 | 1,228 | -1,179 | 1,225 |  |
| Household appliance, TV, radio.....do.. | 6,221 | 7,029 | ${ }^{6} 67$ | ${ }^{6} 695$ | ${ }^{1} 599$ | ${ }^{1} 623$ | 854 | ${ }^{1} 595$ | ${ }^{1} 563$ | 610 | 578 | ${ }^{1} 602$ | , 670 | ${ }^{-1,634}$ | 1,655 |  |
| Lumber, building, hardware group.-.-.do | 17, 378 | 20,06 | 1,952 | 1,883 | 1,924 | 1,759 | 1,664 | 1,458 | 1,470 | 1,746 | 1,861 | 2,098 | 2,185 | -2,080 | 2,173 |  |
| Lumber, bldg. materials dealers $\mathrm{\sigma}^{\prime}$.....do | 13,733 | 15,973 | J, 590 | 1,541 | 1,567 | 1,398 | 1,212 | 1,188 | 1,198 | 1,417 | 1,487 | 1, 656 | 1,704 | r 1,668 | 1,758 |  |
| Hardware stores..--..----------...-d. ${ }^{\text {do. }}$ | 3,645 | 4, 091 | 362 | 342 | , 57 | 361 | 452 | 270 | 272 | , 329 | 374 | 442 | 481 | ${ }^{\text {r }} 412$ | 415 |  |
| Nondurable goods stores $\%$. .-...........-do.. | 277,036 | 298,720 | 25,209 | 25,021 | 25,445 | 26,561 | 33, 279 | 23,614 | 22,693 | 26,456 | 26,151 | 27, 725 | 28, 187 | - 27,156 | + 28,434 | ${ }^{1} 26,845$ |
| Apparel group -------------.-.--....- | 20, 804 | 21,993 | 1,759 | 1,846 | 1,923 | 2,055 | 3,177 | 1,608 | 1,460 | 1,829 | 2,007 | 1,920 | 1,986 | r 1,749 | r 1,932 | 11,944 |
| Men's and boys' wear stores-.-.-...-do Women's apparel, accessory stores | $\stackrel{4}{4,727}$ | 5, 198 | 389 | 401 | 445 | 504 | 827 | 424 | 339 | 399 | 440 | 448 | 472 | $\checkmark 397$ | 408 |  |
|  | 8, 193 | 8,386 | ${ }_{6}^{667}$ | 708 | 737 | 777 | 1,197 | 595 | 585 | 712 | 743 | 738 | 756 | 677 | 703 |  |
| Shoe stores...--------------------.-.- ${ }^{\text {do }}$ | 3,532 | 3,774 | 317 | 361 | 340 | 351 | 480 | 283 | 247 | 342 | 408 | 324 | 345 | - 299 | 375 |  |
| Drug and proprietary stores. .-.-.-..-.do | ${ }^{13,736}$ | 14,523 | 1,222 | 1,184 | 1,189 | 1,201 | 1,668 | 1,205 | 1,151 | 1,222 | 1,219 | 1,281 | 1,300 | ${ }^{\text {r }} 1,240$ | - 1,287 | 11,232 |
| Eating and drinking places. --.-.-...-.-do | 31, 131 | 33, 891 | 3,127 | 2,943 | 2,902 | 2,782 | 2,910 | 2,715 | 2,623 | 2,975 | 2,950 | 3,238 | 3,353 | r 3, 359 | - 3,558 | ${ }^{13}$, 294 |
| Food group Grocery stores - | 89,239 82,793 | 95,020 <br> 88,340 | 8,100 | 8, 8153 | 7,862 7 7 | 7,991 | 8,948 | 7,995 | 7,646 | 88 | 8 | 8,745 | 9,135 | r8, 976 | r9, 268 | 18,769 |
|  | 29, 163 | 31,044 | - | 2,676 2,606 | 2,686 | 2,668 | $\stackrel{8}{2,724}$ | 7,468 2,589 | 2, 274 | $\stackrel{8}{2,773}$ | 2,808 | 8,947 | - 8, |  | r <br> $+8,618$ <br> 3,083 | 18,147 12,822 |
| General merchandise group with nonstores \% ---.-----................................ General merchandise group without non- | 68, 134 | 74,903 | 6,224 | 6,151 | 6, 540 | 7,487 | 10,765 | 4,909 | 4,933 | 6,307 | 6,467 | 6,713 | 6,771 | -6, 26 | 6,920 | 16,534 |
| stores \$ \% --- | ${ }^{62}, 242$ | 68, 936 | 5,735 | 5,628 | 5,985 | 6,887 | 10, 243 | 4,572 | 4,469 | 5,776 | 5,975 | 6, 194 | 6,284 | - 5,799 | 6, 391 | ${ }^{1} 6,000$ |
| Department stores | 42,027 4,301 |  | -3, 808 | - 3,854 | - 4,025 | - 4,642 | -7,144 | - 3, 0901 | -2,976 | -3, 868 | + + 4,055 | -4,229 | -4,308 | - 3,910 | -4,303 | 14,105 |
| Variety stores....................d. do | 6,972 | $\begin{array}{r}\text { + } \\ -7,498 \\ \hline\end{array}$ | 417 +617 | - ${ }_{-}^{3691}$ | $\begin{array}{r}\text { + } 477 \\ -604 \\ \hline\end{array}$ | $\begin{array}{r}620 \\ +678 \\ \hline\end{array}$ | $\begin{array}{r}\text { r } \\ +1,258 \\ \hline\end{array}$ | $\begin{array}{r}300 \\ +477 \\ \hline\end{array}$ | $\begin{array}{r}340 \\ +481 \\ \hline\end{array}$ | 473 +601 | $\begin{array}{r} \\ \\ r \\ 645 \\ 425 \\ \hline\end{array}$ | $\begin{array}{r}419 \\ 648 \\ \hline\end{array}$ | 370 +669 | $\begin{array}{r}\text { r } 401 \\ +603 \\ \hline\end{array}$ | 450 |  |
| Liquor stores..............................do. | 8,773 | 9,215 | 760 | 749 | 757 | 779 | 1,069 | 692 | 667 | 740 | 718 | 789 | 825 | r 826 | 825 |  |
| Estimated sales (seas. adj.), total $\ddagger . . . . . . . .$. d |  |  | 37,969 | 37,746 | 39, 106 | 38,713 | 39, 417 | 40,707 | 41,242 | 41,979 | 41,185 | 41,735 | 41, 179 | \% 42,778 | r 42,231 | ${ }^{1} 41,842$ |
|  |  |  | 12,842 | 12,614 | 13, 168 | 13,173 | 13, 640 | 14,234 | 14,405 | 14,612 | 14,339 | 14, 299 | 13, 731 | -14,409 | r 14,411 | ' 13,980 |
| Automotive group --.-.-.................do |  |  | 7,723 | 7,503 | 7,853 | 7,825 | 8,300 | 8,507 | 8,575 | 8,769 | 8,555 | 8,503 | 7,943 | -8,654 | 8,640 |  |
| Passenger car, other auto dealers....do |  |  | 7,104 | 6,888 | 7,195 | 7,215 | 7,729 | 7,904 | 7,945 | 8, 127 | 7,927 | 7,870 | 7,328 | - 7 , 992 | 7,977 |  |
| Tire, battery, accessory dealers.-.-..--do |  |  | 619 | 615 | 658 | 610 | 571 | 603 | 630 | 642 | 628 | 633 | 615 | ${ }^{\text {r } 662}$ | 663 |  |
| Furniture and appliance group $9 . . . . .$. do |  |  | 1,797 | 1,750 | 1,846 | 1,846 | 1,808 | 1,962 | 2,021 | 2,014 | 2,024 | 1,995 | 2,006 | r 2,000 | 1,997 |  |
| Furniture, homefurnishings stores...- do |  |  | 1,040 | 1,034 | 1,093 | 1,093 | 1,048 | 1,145 | 1,215 | 1,184 | 1,208 | 1,203 | 1,181 | ${ }^{\text {r } 1,217}$ | 1,185 |  |
| Household appliance, TV, radio...-.do...- |  |  | ${ }^{6} 13$ | 580 | 602 | 591 | 601 | 640 | 659 | 659 | 658 | 635 | 675 | $\stackrel{\text { r }}{ }$ | 660 |  |
| Lumber, building, hardware group --- do.--- |  |  | 1,714 | 1,746 | 1,780 | 1,747 | 1,711 | 1,915 | 1,937 | 1,936 | 1,896 | 1,939 | 1,946 | r 1,894 | 1,888 |  |
| Lumber, bldg. materials dealers $\sigma^{7}$. . . do.... |  |  | 1,362 | 1,406 340 | $\begin{array}{r}1,427 \\ \hline 353\end{array}$ | $\begin{array}{r}1,390 \\ \hline 357\end{array}$ | 1,379 | 1,545 370 | $\begin{array}{r}1,556 \\ \hline 881\end{array}$ | $\begin{array}{r}1,547 \\ \hline 89\end{array}$ | 1,508 | 1,546 | 1,520 | r $\begin{array}{r}1,515 \\ r \\ r\end{array}$ | 1,492 |  |

r Revised.
${ }^{1}$ Advance estimate. $\oplus$ Source: Media Records, Inc. 64 -City Newspaper Advertising Trend Chart. *New series. Beginning Jan. 1971 the series was revised to reflect trends in newspaper advertising expenditures in 64 cities instead of linage in 52 cities as formerly pub${ }_{\text {from }} \ddagger$ Revised to reflect new sample design, improved techniques, and new information of the Dec. 1971 Survey (complete details appear in the Census Bureau Monthly Retail

Trade Report, Aug. 1971 issue). $\%$ Includes data for items not shown separately,
$\dagger$ Formerly Marketing/Communications advertising index. Series revised in June 1971; comparable 1970 monthly data are in the SURVEY for that month (no comparable earlier are avaiable).
$\sigma^{3}$ Comprises lumber yards, building materials dealers, and paint, plumbing, and electrical stores. §Except department stores mail order.

| Unless otherwise stated in fontnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Alg. | Sopt. |

DOMESTIC TRADE-Continued

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline RETAIL TRADE \(\dagger\)-Continued \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline \begin{tabular}{l}
All retail storest-Continued \\
Estimated sales (seas. adj.)-Continued
\end{tabular} \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Nondurable goods stores \(\uparrow\). - \& \& \& 25, 127 \& 25, 132 \& 25,938 \& 25,540 \& 25,777 \& 26,473 \& 26,837 \& 27, 367 \& 26,846 \& 27,436 \& 27,448 \& - 28,369 \& -27, 820 \& \({ }^{1} 27,862\) \\
\hline A parel group. \& \& \& 1,813 \& 1,836 \& 1,947 \& 1,891 \& 1,899 \& 1,949 \& 2,012 \& 2, 175 \& 1,878 \& 1,974 \& 2, 009 \& -2,039 \& 1,967 \& \\
\hline Wemen's apparel, accessory stores....-do \& \& \& 438
699 \& \begin{tabular}{l}
433 \\
701 \\
\hline
\end{tabular} \& 468
718 \& 445
710 \& 438
730 \& 747 \& 788 \& 825 \& 744 \& \({ }^{456}\) \& 163
780 \& \(\begin{array}{r}\text { r } \\ \hline\end{array} 789\) \& 436
735 \& \\
\hline  \& \& \& 300 \& 318 \& 350 \& 344 \& 347 \& 349 \& 348 \& 307 \& 339 \& 335 \& 338 \& r 349 \& 349 \& \\
\hline Drug and proprietary store \& \& \& 1,246 \& 1,204 \& 1,226 \& 1,250 \& 1,236 \& 1,246 \& 1,254 \& 1,241 \& 1,280 \& 1,291 \& 1,314 \& -1,305 \& 1,282 \& \\
\hline Eating and drinking places \& \& \& 2,797 \& 2,830 \& 2,873 \& 2,913 \& 2,957 \& 3,057 \& 3,057 \& 3,089 \& 3, 060 \& 3,096 \& 3,085 \& -3,122 \& 3,160 \& \\
\hline  \& \& \& 8,039
7,457 \& 8,005
7,438 \& 8,209
7,637 \& 8, 134
7,570 \& 8,071
7,503 \& 8,476
7,894 \& 8,409
7,800 \& 8,431
7,834 \& 8,616
8,012 \& 8,665
8.074
8 \& 8,598
8,000 \& r 9,128
\(r 8,507\) \& 8,891
8,279 \& \\
\hline Gasoline service st \& \& \& 2,622 \& 2,611 \& 2,686 \& 2,681 \& 2,713 \& 2,714 \& 2,821 \& 2,821 \& 2,868 \& 2,884 \& 2,843 \& r 2,908 \& 2,892 \& \\
\hline General merchandise group with nonstores \(9 .-\)-.........................-mil. 8 . General merchandise group withont non- \& \& \& 6,288 \& 6,333 \& 6,548 \& 6,354 \& 6,362 \& 6,590 \& 6,763 \& 7,137 \& 6,696 \& 6,917 \& 6,939 \& -7,051 \& 6,929 \& \\
\hline stores \(\%\) §.......................-mil. \$. \& \& \& 5,772 \& 5,858 \& 6,065 \& 5,833 \& 5,884 \& 6,095 \& 6,223 \& 6,621 \& 6,166 \& 6,386 \& 6,430 \& -6,538 \& 6,403 \& \\
\hline Department stores.-.--..-.---.-.-- do \& \& \& - 3,866 \& -4,027 \& r 4,111 \& - 3,954 \& - 4,034 \& r 4, 121 \& r 4,233 \& r 4,461 \& - 4, 189 \& - 4,346 \& \({ }^{+4,352}\) \& '4,423 \& 4,369 \& \\
\hline \& \& \& 412 \& 400 \& 432 \& 415 \& 366 \& 412 \& 429 \& 489
+715 \& 452 \& 453
+667 \& 450
+686 \&  \& 439 \& \\
\hline \begin{tabular}{l}
Variety stores. \\
Liquor stores.
\end{tabular} \& \& \& 632
775 \& 614
767 \& 843
800 \& 664
763 \& 647
740 \& 681
769 \& 661
795 \& 779 \& \({ }_{783}^{635}\) \& \(\begin{array}{r}+698 \\ \\ \\ \hline\end{array}\) \& 686
807 \& - 817 \& -616 \& \\
\hline Estimated inventories, end of year or month: \(\ddagger\) \& 50,889 \& 53,283 \& 51, 693 \& 53, 187 \& 55,075 \& 56,816 \& 53,283 \& 53,605 \& 55, 168 \& 56,901 \& 57, 836 \& 58, 223 \& 58,421 \& 58,063 \& \& \\
\hline  \& 23, 152 \& 23, 782 \& 21, 749 \& 22,451 \& 22,984 \& 23,908 \& 23,782 \& 24, 078 \& 24, 839 \& 25, 574 \& 25,976 \& 26. 335 \& 26, 538 \& 26, 195 \& \({ }_{24,320}^{57,152}\) \& \\
\hline Automotive group. \& 11, 384 \& 10,950 \& 9,169 \& 9,845 \& 10,165 \& 10,707 \& 10,950 \& 11, 222 \& 11,845 \& 12,346 \& 12,613 \& 12,823 \& 13085 \& 12,909 \& 10,977 \& \\
\hline Furniture and appliance group...-.-d \& 3,557 \& 3,746 \& 3, 672 \& 3,750 \& \(\xrightarrow{3,803}\) \& 3,923 \& 3,746 \& 3,754 \& 3,766 \& 3,816 \& 3,932 \& 4, 003 \& 3,996 \& 3,959 \& 3,988 \& \\
\hline Lumber, building, hardware group. - d \& 3,219 \& 3,631 \& 3,536 \& 3,561 \& 3,574 \& 3,646 \& 3,631 \& 3,692 \& 3,809 \& 3,910 \& 4,006 \& 4, 061 \& 4,031 \& 4,037 \& 3,967 \& \\
\hline Nondurable goods stores \(\uparrow\). \& 27,737 \& 29,501 \& 29, 944 \& 30, 736 \& 32,091 \& 32,908 \& 29,501 \& 29,527 \& 30, 329 \& 31, 327 \& 31,860 \& 31,888 \& 31, 883 \& 31,863 \& 32, 832 \& \\
\hline Apparel group.---...................- do \& 4,397 \& 4,556 \& 4,834 \& 5,044 \& 5,188 \& 5,302 \& 4, 5556 \& 4, 3784 \& -4,616 \& 4,834 \& 4,886 \& 4,819
\(\mathbf{6}, 020\) \& 4,804
6,137 \& \({ }_{6}^{4,823}\) \& 5,061 \& \\
\hline Food group-...................................
General merchandise group with non- \& 5,507 \& 5,859 \& 5,631 \& 5,645 \& 5,893 \& 6,030 \& 5,859 \& 5,728 \& 5,731 \& 5,892 \& 6,012 \& 6, 020 \& 6,137 \& 6,046 \& 6,154 \& \\
\hline stores.....-.......-..---....-. mill \& 11, 062 \& 11,784 \& 12,541 \& 12,981 \& 13,680 \& 14, 132 \& 11,784 \& 12,097 \& 12,628 \& 13, 203 \& 13,482 \& 13,541 \& 13. 533 \& 13,692 \& 14, 154 \& \\
\hline Department stores .-.-----------.- do \& 6,613 \& 7,075 \& 7,469 \& 7,763 \& 8,316 \& 8,759 \& 7,075 \& 7, 200 \& 7,470 \& 7,859 \& 7,994 \& 7,993 \& 7,899 \& 8,022 \& 8,359 \& \\
\hline Book value (seas. adj.), total \(\ddagger\)-........... do \& 52, 261 \& 54,700 \& [3, 107 \& 53, 661 \& 53, 934 \& 54, 658 \& 54,700 \& 55, 526 \& 56,039 \& 56, 106 \& 56, 636 \& 57, 285 \& 58, 079 \& 58,250 \& 58,797 \& \\
\hline Durable goods stores \& 23, 808 \& 24, 442 \& 23,037 \& 23,608 \& 23,675 \& 24, 235 \& 24,442 \& 24, 472 \& 24, 638 \& 24, 538 \& 24, 624 \& 25, 094 \& 25, 454 \& 21, 797 \& 25,850 \& \\
\hline Automotive group --...........----.- do \& 11, 772 \& 11,324 \& 10,407 \& 10,937 \& 10,918 \& 11,247 \& 11,324 \& 11,335 \& 11, 522 \& 11,435 \& 11, 508 \& 11,788 \& 12,027 \& 12,424 \& 12,431 \& \\
\hline Lumber, building, hardware group...-do \& 3,604
3,312 \& \begin{tabular}{l} 
3,791 \\
3,732 \\
\hline
\end{tabular} \& 3,690
3,579 \& 3,743
3,612 \& 3,714
3,628 \& 3,761
3,705 \& 3,791
3,732 \& 3,886
3,764 \& 3,851
3,824 \& 3,835
3,826 \& 3,885
3,886 \& 3,972
3,931 \& +4,004 \& 3,995
4,029 \& 4,016
4,015 \& \\
\hline Nondurable goods stores 9. \& 28,453 \& 30, 258 \& 30,070 \& 30,053 \& 30, 259 \& 30,423 \& 30, 258 \& 31, 054 \& 31, 401 \& 31,568 \& 32,012 \& 32, 191 \& 32, 625 \& 32,4=3 \& 32,947 \& \\
\hline Apparel group \& 4, 5880 \& 4, 746 \& 4, 753 \& 4,777 \& \({ }^{4,835}\) \& 4, 860 \& 4,746 \& 4, 722 \& 4, 818 \& 4, 858 \& 4,920 \& 4,902
6,026 \& 4, 983
6,168 \& 4,9i2 \& 4,972 \& \\
\hline \begin{tabular}{l}
Food group \\
General merchandise group with
\end{tabular} \& 5,442 \& 5,790 \& 6,734 \& 5,714 \& 5,800 \& 5, 815 \& 5,790 \& 5,815 \& 5,806 \& 5,892 \& 6,012 \& 6,026 \& 6,168 \& 6,089 \& 6,260 \& \\
\hline  \& 11,753 \& 12,521 \& 12,561 \& 12,446 \& 12 \& 12,590 \& 12,521 \& 5 \& 6 \& 13, 427 \& 13,696 \& 13,664 \& 13, 921 \& 13,933 \& 61 \& \\
\hline \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline  \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Estimated sales (unadj.), total \(9 . . . . . . . . . .\). do \& 125, 607 \& 137, 650 \& 11, 465 \& 11, 661 \& 11,826 \& 12,814 \& 16,906 \& 10,482 \& 10, 162 \& 12,377 \& 12,119 \& 12,565 \& 12,956 \& r12,223 \& 12,965 \& \\
\hline  \& 5,741 \& 6, 0585 \& 487 \& 532
59 \& 545
66 \& 684 \& 910 \& 405 \& 383 \& 520 \& 610 \& 536 \& 555 \& \(r{ }^{+} 460\) \& 535 \& \\
\hline Men's and boys' wear stores .-........do \& \(\begin{array}{r}750 \\ 2,123 \\ \hline\end{array}\) \& \(\begin{array}{r}782 \\ 2,194 \\ \hline\end{array}\) \& \(\begin{array}{r}51 \\ 180 \\ \hline\end{array}\) \& \(\begin{array}{r}59 \\ 189 \\ \hline\end{array}\) \& 66
194 \& 75
213 \& 126
335 \& \(\begin{array}{r}53 \\ 141 \\ \hline\end{array}\) \& \(\begin{array}{r}40 \\ 152 \\ \hline\end{array}\) \& \(\begin{array}{r}56 \\ 193 \\ \hline\end{array}\) \& \(\begin{array}{r}64 \\ 215 \\ \hline 1\end{array}\) \& 63
200 \& \(\begin{array}{r}66 \\ 203 \\ \hline 1\end{array}\) \& r
+172
+172 \& 48 188 \& \\
\hline Sh oe stores....-...........................d. \({ }^{\text {do }}\) \& 1,498 \& -1,694 \& \({ }^{+137}\) \& \({ }^{1} 172\) \& -162 \& +168 \& 234 \& \({ }_{-} 123\) \& -112 \& \({ }^{1} 147\) \& +191 \& 144 \& 159 \& r 139 \& 169 \& \\
\hline Drug and proprietary stores....-...............do \& 4,693 \& 5,246 \& 445 \& 431 \& 431 \& 442 \& 695 \& 420 \& 407 \& 440 \& 445 \& 479 \& 493 \& - 471 \& 490 \& \\
\hline Eating and drinking places \& 2,735 \& 2, 887 \& 274 \& 230 \& 229 \& 222 \& 240 \& 228 \& 222 \& 263 \& 263 \& 277 \& 286 \& - 286 \& 305 \& \\
\hline Furniture and appliance gro \& 1,600 \& 1,902 \& 165 \& 156 \& 171 \& 168 \& 221 \& 160 \& 154 \& 178 \& 167 \& 159 \& 178 \& \({ }^{+156}\) \& 164 \& \\
\hline \begin{tabular}{l}
General merchandise group with non- \\
 General merchandise croup without non-
\end{tabular} \& 52,092 \& 68, 113 \& 4,814 \& 4,800 \& 5,096 \& 5, 904 \& 8,630 \& 3,878 \& 3,830 \& 4,964 \& 5,075 \& 5,268 \& 5,322 \& r 4,930 \& 5,431 \& \\
\hline  \& 49,008 \& 65, 100 \& 4, 578 \& 4, 631 \& 4,785 \& 5,593 \& 8,386 \& 3,680 \& 3,609 \& 4,686 \& 4,836 \& 5,005 \& 5,077 \& r 4,696 \& 5,173 \& \\
\hline Dept. stores, excl. mail order sales....do \& 36, 544 \& \& \(\underset{r}{\text { r }} \mathrm{r}\), 3886 \& \(\begin{array}{r}\text { r } \\ + \\ r \\ \hline\end{array} 4679\) \& - \(\begin{array}{r}\text { 3, } \\ + \\ \hline\end{array}\) \& \(\stackrel{\text { 4, }}{+} \mathbf{1 0 2}\) \& + \({ }^{8,286}\) \& + 2,736
+3 \& 2,644
+378 \& 3,451 \& - 3 3, 601 \& \(\begin{array}{r}\text { r } \\ + \\ +5 \\ + \\ \hline\end{array}\) \& \(\underset{r}{\text { r }}\) + 8181 \& \[
\begin{array}{r}
r 3,482 \\
r \\
r 487
\end{array}
\] \& 3.832 \& \\
\hline Variety s \& 5,398 \& \({ }^{5} 5,933\) \& \({ }^{+} 482\) \& \({ }^{5} 467\) \& , 481 \& \({ }^{+} 548\) \& - 1,029 \& \({ }_{+}{ }^{7} 76\) \& 378 \& '476 \& \({ }^{+} 518\) \& r 518 \& \({ }^{\text {r }} 543\) \& \(r 487\) \& 529 \& \\
\hline Grocery stores \& 45, 235 \& 49, 206 \& 4,122 \& 4, 315 \& 4,090 \& 4,232 \& 4,727 \& 4,243 \& 4,032 \& 4.719 \& 4,235 \& 4, 524 \& 4,723 \& -4,586 \& 4,741 \& \\
\hline Tire, battery, accessory \& 1,955 \& 2,094 \& 191 \& 171 \& 186 \& 188 \& 198 \& 141 \& 134 \& 180 \& 192 \& 189 \& 202 \& r 197 \& 196 \& \\
\hline Estimated sales (s \& \& \& 11,592 \& 11,660 \& 12, 202 \& 11,944 \& 11,830 \& 12,477 \& 12, 503 \& 12,814 \& 12,524 \& 12,742 \& 12,646 \& -13,172 \& 12,770 \& \\
\hline Apparel grou \& \& \& 491 \& 511 \& 551 \& 531 \& 528 \& 544 \& 574 \& 616 \& 548 \& 50 \& 556 \& \& 528 \& \\
\hline Men's and boys' wear stores...-...----- do \& \& \& 59 \& 63 \& \({ }^{66}\) \& \({ }^{63}\) \& 62 \& 64 \& 59 \& 72 \& 63 \& 64 \& 62 \& +59 \& \& \\
\hline Women's apparel, accessory stores...... do \& \& \& \(\begin{array}{r}185 \\ +131 \\ \hline 1\end{array}\) \& 183
+149 \& 189
+172 \& 194
+159 \& \({ }^{188}\) \& 197
+166 \& 226
+168 \& \(\begin{array}{r}224 \\ +173 \\ \hline\end{array}\) \& 202
+157 \& 203 \& 201 \& \(\begin{array}{r}\text { + } 210 \\ +173 \\ \hline\end{array}\) \& 187
155 \& \\
\hline Drug and proprietary stores....................d \& \& \& 450 \& 443 \& 455 \& 460 \& 451 \& + 461 \& + 472 \& 454 \& 483 \& 480 \& 507 \& -495 \& 483 \& \\
\hline  \& \& \& 249 \& 228 \& 223 \& 240 \& 243 \& 252 \& 260 \& 270 \& 258 \& 262 \& 263 \& - 255 \& 274 \& \\
\hline General merchandise group with nonstores 9 ............................................... \& \& \& 4,846 \& 4,969 \& 5,147 \& 5,008 \& 5,023 \& 5,242 \& 5,331 \& 5,665 \& 5,252 \& 5,426 \& 5,450 \& -5,490 \& 5,459 \& \\
\hline General merchandise group without nonstores § mil. \$. \& \& \& 4,597 \& 4,724 \& 5, 147
4,874 \& 5,008 \& 5,023
4,798 \& 5,242
4,986 \& 5,331
5,076 \& 5,605 \& 5,252
4.991 \& 5,458 \& 5,198 \& \(\begin{array}{r}\text {-5,40 } \\ \hline 5\end{array}\) \& 5,197 \& \\
\hline Dept. stores, excl. mall order sales.... do \& \& \& r 3 , 400 \& - 3,554 \& -3,647 \& - \({ }^{4,536}\) \& -3,580 \& -3, 692 \& - 3,772 \& - 3,922 \& , 3, 720 \& r 3, 841 \& -3, 850 \& -3,865 \& 3,859 \& \\
\hline Variety stores \& \& \& \(\underset{\sim}{494}\) \& \(\stackrel{+}{\square}\) \& \(\underset{5}{ }{ }_{5}\) \& \(\xrightarrow{+} \mathbf{4 9 9}\) \& \(\stackrel{5}{5} 5\) \& r

546 \& ${ }^{-} 525$ \&  \& $$
\begin{array}{r}
518 \\
r
\end{array}
$$ \& $\stackrel{-}{518}$ \& ${ }^{5} 560$ \& ${ }^{\text {r }} 558$ \& 540 \& <br>

\hline Grocery sto \& \& \& 4,223 \& 4, 133 \& 4,384 \& 4,288 \& 4, 139 \& 4,480 \& 4,335 \& 4. 369 \& 4, 525 \& 4,533 \& 4,406 \& -4,848 \& 4,572 \& <br>
\hline Tire, battery, access \& \& \& 187 \& ${ }^{182}$ \& 191 \& 177 \& 166 \& ${ }^{185}$ \& 184 \& 190 \& ${ }^{4} 184$ \& 174 \& 172 \& ${ }^{5} 191$ \& 185 \& <br>
\hline All retail stores, acts. receivable, end of yr. or mo.: $0^{7}$ \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Total (unadjusted) -...-.-.-.-.....-------mil \& 23, 514 \& 25,068 \& 22,288 \& 22, 808 \& ${ }^{23,061}$ \& 23, 563 \& 25, 068 \& 24, 143 \& 23, 703 \& 23, 655 \& 23,957 \& 24, 547 \& 24,712 \& 24, 373 \& \& <br>
\hline Nondurable goods sto \& 15,761 \& $\begin{array}{r}8,15 \\ 16,953 \\ \hline\end{array}$ \& 7.805
14.483 \& 7,966
14,842 \& 8,010
15,051 \& 7,942
15,621 \& 8, 115 \& 76, $\begin{array}{r}745 \\ 16,298\end{array}$ \& 15,822 \& 7,910 \& 8,065 \& 8,367
16,180 \& 8,541 \& 8,463
15,910 \& \& <br>
\hline Charge accounts. \& 9 \& 10,090 \& 9 \& - 9,442 \& ${ }_{9,664}$ \& ${ }_{9,653}$ \& 10, 090 \& $\xrightarrow{9}, 417$ \& ${ }_{9}$ \& 9,441 \& ${ }_{9}{ }^{8}$ \& 10, 195 \& 10,205 \& 9,834 \& \& <br>
\hline Installment account \& 14, 129 \& 14, 978 \& 13, 125 \& 13,366 \& 13,397 \& 13, 910 \& 14,978 \& 14,726 \& 14,370 \& 14,214 \& 14,252 \& 14,352 \& 14,507 \& 14, 339 \& \& <br>
\hline Total (seasonally adjusted) .--..-...-.......-d \& \& 23,518 \& 22,714 \& 23, 031 \& 23,139 \& 23,364 \& 23, 518 \& 23, 669 \& 23, 983 \& 24,106 \& 24,232 \& 24,665 \& 24,790 \& 24, 889 \& \& <br>

\hline Durable goods stores. \& 7, 880 \& \& 7,714 \& 7,781 \& 7,757 \& 7,847 \& $$
7,940
$$ \& 8,053 \& 8,123 \& 8,205 \& \[

8,276

\] \& \[

8,467

\] \& \[

8,383

\] \& \[

8,405
\] \& \& <br>

\hline Charge accounts....... \& 14,466
8,986 \& 15,578
9,671 \& 15.
9,238 \& 15,250
9,429 \& $\xrightarrow[\substack{15,382 \\ 9,530}]{1}$ \& 15,517
9,524
13, \& 15,578
9,671 \& 15,616
9,567 \& 15,860
9 \& 15,901
9,800 \& 15,956
9,785 \& 16,198
10,040

14 \& $$
\begin{gathered}
16,407 \\
9,995
\end{gathered}
$$ \& 16,484

9,908 \& \& <br>
\hline Installment accounts.-.-----.....................do \& 13,060 \& 13,847 \& 13, 476 \& 13,602 \& 13,609 \& 13,840 \& 13, 817 \& 14, 102 \& 14, 234 \& 14,306 \& 14,447 \& 14,625 \& 14,795 \& 14,981 \& \& <br>
\hline \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline
\end{tabular}

[^36]Oct. 1972 SURVEY (1970-71). §Includes data not shown separately. §Except department stores mail order. $\sigma^{7 S}$ See note marked " $\ddagger$ " on p. S-11; data prior to Feb. 1971 will be shown later. $\ominus$ Revised data (seas. adj.) back to Jan. 1971 appear in the Census Bureau Monthly Retail Trade Report, Dec. 1972 issue.

| Unless otherwise stated in footnotes below, data through 1970 and deacriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

LABOR FORCE. EMPLOYMENT, AND EARNINGS

-Revised. $\quad$ Preliminary. ${ }^{1}$ As of July 1. ${ }^{2}$ See note § below. †See note" $\dagger$," p. S-14 \$Effective Jan. 1972, data are adjusted to the 1970 Census and are not directly comparable with earlier data. On unadjusted basis, 330,000 were added to civilian labor force and 301,000 to civilian employment. Effective Mar. 1973, subsequent adjustments added 60,000 to the seasonal factors; comparable earlier figures appear in Employment \& Earnings (Fed. 1973) USDL, BLS.

New series: see also note " $\ddagger$ ".
Effective Oct. 1972 SURVET, employment, hours, earnings, etc., reflect revised bench marks and seasonal factors, and are not comparable with figures in earher surveys and in Business Statistics. Unadjusted data through June 1972 and seasonally adjusted data tive June 1973 SURvEy, all seasonally adjusted data again reflect new factors; comparable data, 1968-73, appear in Emplotment \& Earnings (June 1973), BLS

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

## LABOR FORCE, EMPLOYMENT, AND EARNINGS-Continued

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline EMPLOYMENT-Continued \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Seasonally Adjusted \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline \begin{tabular}{l}
Production or nonsupervisory workers on payrolls \(\ddagger\) - Continued \\
Manufacturing, durable goods industries-Con.
\end{tabular} \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Lumber and wood products.........thous.- \& 500 \& 527 \& 529 \& 529 \& 531 \& 535 \& 538 \& 539 \& 543 \& 543 \& 544 \& 542 \& 542 \& 541 \& 545 \& 543 \\
\hline Furniture and fixtures...-..............do...- \& 377 \& 408 \& 411 \& 413 \& 416 \& 419 \& 421 \& 424 \& 426 \& 428 \& 430 \& 428 \& 436 \& - 431 \& 434 \& 434 \\
\hline Stone, clay, and glass products.......do \& 503 \& 527 \& 530 \& 530 \& 537 \& 539 \& 538 \& 539 \& 547 \& 550 \& 550 \& 555 \& 555 \& 557 \& r 554 \& 549 \\
\hline Primary metal industries. \& 968 \& 984 \& 992 \& 1,013 \& 1,023 \& 1,025 \& 1,033 \& 1,031 \& 1,033 \& 1, 027 \& 1,033 \& 1,044 \& 1, 052 \& 1,050 \& - 1,067 \& 1,077 \\
\hline Fabricated metal products .-.-.-.......do. \& 1,010 \& 1,049 \& 1,056 \& 1,059 \& 1,069 \& 1,075 \& 1, 082 \& 1,091 \& 1, 104 \& 1, 108 \& 1,118 \& 1,123 \& 1, 126 \& 1, 127 \& r 1, 129 \& 1, 125 \\
\hline Machinery, except electrical.-.---.-.....-do. \& 1,178 \& 1,236 \& 1,246 \& 1.252 \& 1,277 \& 1,298 \& 1,314 \& 1,324 \& 1,328 \& 1,343 \& 1,356 \& 1, 366 \& 1,380 \& - 1,379 \& - 1,404 \& 1,404 \\
\hline Electrical equipment and supplies...do \& 1,171 \& 1,238 \& 1,240 \& 1,251 \& 1, 278 \& 1,288 \& 1,306 \& 1,316 \& 1,337 \& 1, 349 \& 1,361 \& 1,370 \& 1,389 \& \(\begin{array}{r}\text { r 1,392 } \\ -1,38 \\ \hline\end{array}\) \& \(\begin{array}{r}\text { r } \\ +1,378 \\ \hline\end{array}\) \& 1,381 \\
\hline Transportation equipment.-........do. \& 1, 218 \& 1,248 \& 1,260 \& 1,273 \& 1,278 \& 1,294 \& 1,305 \& 1,310 \& 1,327 \& 1,334 \& 1,351 \& 1,354 \& 1, 348 \& - 1,338 \& +1,336 \& 1,339 \\
\hline Instruments and related products....-do \& +261 \& 1,276 \& 1,279 \& , 281 \& - 284 \& , 287 \& - 289 \& + 292 \& +295 \& - 298 \& - 296 \& - 304 \& 306 \& \({ }_{+}+306\) \& \({ }_{+}^{+} 310\) \& 313 \\
\hline Misceilaneous manufacturing..........do. \& 316 \& 331 \& 332 \& 333 \& 335 \& 338 \& 338 \& 339 \& 343 \& 343 \& 343 \& 343 \& 341 \& - 342 \& 「339 \& 337 \\
\hline Nondurable goods.......-.............-do \& 5,836 \& 5,919 \& 5,912 \& 5,929 \& 5, 958 \& 5,975 \& 6, 990 \& 5, 088 \& 6, 016 \& 6. 026 \& 6,038 \& 6,023 \& 6, 041 \& 6,004 \& +6,013 \& 5,994 \\
\hline Food and kindred products.-..........do \& 1,186 \& 1,180 \& 1,168 \& 1, 174 \& 1,175 \& 1,171 \& 1,175 \& 1,181 \& 1,184 \& 1, 181 \& 1,178 \& 1, 170 \& 1, 165 \& 1,160 \& r 1, 145 \& 1,149 \\
\hline Tobacco manufactures....-.............-do. \& 1,63 \& 1, 59 \& - 57 \& - 54 \& 1, 55 \& + 57 \& 1, 59 \& \({ }^{59}\) \& \({ }^{61}\) \& \({ }^{6} 63\) \& \({ }^{63}\) \& \({ }^{63}\) \& 1,63 \& \({ }^{-} 64\) \& \({ }_{-} 60\) \& 58 \\
\hline Textile mill products......................-do. \& 839 \& 871 \& 874 \& 875 \& 882 \& 887 \& 894 \& 893 \& 902 \& 900 \& 900 \& 900 \& 900 \& -899 \& r 903 \& 901 \\
\hline Apparel and other textile products...do \& 1,168 \& 1,165 \& 1,164 \& 1, 168 \& 1,171 \& 1,176 \& 1,172 \& 1,161 \& 1,173 \& 1,174 \& 1,182 \& 1,174 \& 1,175 \& r 1, 140 \& r 1, 161 \& 1,148 \\
\hline Paper and allied products..........-. do \& - 523 \& \({ }^{5} 537\) \& - 540 \& 541 \& 545 \& 546 \& 547 \& 548 \& 552 \& 554 \& 552 \& 557 \& 557 \& 556 \& 「559 \& 556 \\
\hline Printing and publishing-.-.-........-do. \& 654 \& 657 \& 657 \& 658 \& 659 \& 659 \& 660 \& 662 \& 661 \& 661 \& 663 \& 661 \& 664 \& -663 \& r 660 \& 662 \\
\hline Chemicals and allied products.......do \& 580 \& 581 \& 580 \& 585 \& 587 \& 589 \& 590 \& 590 \& 587 \& 592 \& 593 \& 596 \& 599 \& 605 \& 603 \& 603 \\
\hline Petroleum and coal products...........do \& 117 \& 117 \& 117 \& 117 \& 118 \& 119 \& 119 \& 119 \& 115 \& 117 \& 115 \& 115 \& 117 \& 118 \& +120
+50 \& 122 \\
\hline Rubber and plastics products, nec. .-do \& 448 \& 489 \& 492 \& 495 \& 505 \& 513 \& 517 \& 522 \& 529 \& 531 \& 536 \& 531 \& 544 \& 546 \& +547
+25 \& 540 \\
\hline Leather and leather products.........do. \& 258 \& 261 \& 263 \& 262 \& 261 \& 258 \& 257 \& 253 \& 252 \& 253 \& 256 \& 256 \& 257 \& - 253 \& - 255 \& 255 \\
\hline Service-producing*-.........................-do. \& 31, 015 \& 32,018 \& 32,144 \& 32,231 \& 32,353 \& 32,482 \& 32,550 \& 32,692 \& 32,881 \& 32,940 \& 33,027 \& 33,094 \& 33,130 \& ז33, 154 \& r 33,284 \& 33, 365 \\
\hline Transportation, comm., elec., gas, etc*....do. \& 3, 844 \& 3, 883 \& 3,871 \& 3,885 \& 3,922 \& 3,930 \& 3,937 \& 3,947 \& 3,949 \& 3,945 \& 3,952 \& 3,957 \& 3,960 \& r 3, 952 \& - 3, 970 \& 3,964 \\
\hline Wholesale and retail trade*-......---...- do \& 13,439 \& 13, 923 \& 13,983 \& 14,025 \& 14,067 \& 14, 137 \& 14, 157 \& 14, 211 \& 14,320 \& 14,362 \& 14,404 \& 14, 435 \& 14,421 \& r 14,449 \& r 14,473 \& 14,505 \\
\hline Wholesale trade*...........................- do \& 3,181 \& 3,278 \& 3,296 \& 3,301 \& 3, 315 \& 3,319 \& 3,324 \& 3,350 \& 3,363 \& 3,372 \& 3,381 \& 3,385 \& 3,406 \& r 3,404 \& +3,414 \& 3,426 \\
\hline Retail trade*-.............................-do \& 10,258 \& 10,645 \& 10,687 \& 10,724 \& 10,752 \& 10,818 \& 10,833 \& 10, 861 \& 10,957 \& 10,990 \& 11,023 \& 11, 050 \& 11,015 \& r 11,045 \& + 11,059 \& 11, 079 \\
\hline Finance, insurance, and real estate*-.....d \& 2,984 \& 3,072 \& 3,083 \& 3,090 \& 3,097 \& 3,106 \& 3,111 \& 3,111 \& 3,127 \& 3,134 \& 3,139 \& 3,143 \& 3,144 \& 3,142 \& r 3,152 \& 3,155 \\
\hline Services*............. \& 10,748 \& 11, 140 \& 11,207 \& 11, 231 \& 11, 267 \& 11,309 \& 11,345 \& 11, 423 \& 11, 485 \& 11, 499 \& 11,532 \& 11, 559 \& 11, 605 \& r 11,611 \& r 11,689 \& 11,741 \\
\hline AVERAGE HOURS PER WEEK \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Seasonally Adjusted \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Avg. weekly hours per worker on private nonagric. payrolls: \(\ddagger\) fiSeasonally adjusted...........hours.. \& \& \& 37.1 \& 37.3 \& 37.3 \& 37.2 \& 37.0 \& 36. 9 \& 37.2 \& 37.1 \& 37.2 \& 37.2 \& 37.1 \& 37.2 \& r 37.0 \& 37.2 \\
\hline Not seasonally adjusted...-...-do..... \& 37.0 \& 37.2 \& 37.6 \& 37.4 \& 37.3 \& 37.1 \& 37.2 \& 36. 6 \& 36. 8 \& 36.9 \& 36.9 \& 37.0 \& 37.4 \& 37.6 \& r 37.5 \& 37.3 \\
\hline  \& 42.3 \& 42.5 \& 42.5 \& 42.7 \& 42.5 \& 42.4 \& 41.8 \& 41.5 \& 42.0
36.2 \& 41.9
37.0 \& 41.7 \& \& 42.5
37.4 \& r 42.4
-375 \& - 42.6 \& 41.9 \\
\hline Contract construction.......................-d \& 37.3
39.9 \& 37.0
40.6 \& 37.0
40.6 \& 36.9
41.0 \& 37.4
40.8 \& 36.9
41.0 \& \begin{tabular}{l}
35.8 \\
41.2 \\
\hline 1.8
\end{tabular} \& 36.1
40.0 \& 36.2
40.6 \& 37.0
40.8 \& 37.0
40.7 \& 37.5
40.7 \& 37.4
40.9 \& r 37.5
+40.5 \& 37.1
+40.5 \& 36.8
41.1 \\
\hline Manufacturing: Not seasonally adjusted....d Seasonally adjusted \& 39.9 \& 40.6 \& 40.6
40.6 \& 41.0
40.8 \& 40.8
40.7 \& 41.0
40.8 \& 41.2
40.7 \& 40.0
40.3 \& 40.6
41.0 \& 40.8
40.9 \& 40.7
40.9 \& 40.7
40.7 \& 40.9
40.6 \& +40.5
+40.7 \& r 40.5
+40.5 \& 41.1
40.9 \\
\hline Seasonally adjusted \& 2.9 \& 3.5 \& 40.6
3.5 \& 40.8
3.6 \& 40.7
3.6 \& 40.8
3.7 \& \(\begin{array}{r}40.7 \\ 3.8 \\ \hline\end{array}\) \& 40.3
3.7 \& 41.0
3.9 \& 40.9
3.9 \& 40.9
4.1 \& 4.9 \& 40.6
3.8 \& 40.7
3.8 \& +40.5
3.6 \& 40.9
3.7 \\
\hline Durable goods..............................- \({ }^{\text {do }}\) \& 40.4 \& 41.3 \& 41.3 \& 41.4 \& 41.4 \& 41.7 \& 41.5 \& 41.3 \& 42.0 \& 41.6 \& 41.8 \& 41.6 \& 41.4 \& -41.4 \& - 41.2 \& 41.5 \\
\hline Overtime hours.................................- \& 2.8 \& 3.6 \& 3.6 \& 3.8 \& 3.8 \& 3.9 \& 4.0 \& 4. 1 \& 4.4 \& 4.1 \& 4.4 \& 4.2 \& 4.0 \& 4.1 \& 3.9 \& 3.9 \\
\hline  \& 41.7 \& 42.2 \& 42.6 \& 42.3 \& 42.5 \& 42.3 \& 42.5 \& 42.5 \& 42.7 \& 42.4 \& 42.0 \& 41.9 \& 41.9 \& - 42.7 \& +41.6 \& 42.4 \\
\hline Lumber and wood products.................do \& 40.3 \& 41.0 \& 41.2 \& 41.3 \& 41.0 \& 41.0 \& 39.8 \& 39.9 \& 40.7 \& 41.0 \& 41.1 \& 40.7 \& 40.9 \& r 40.5 \& - 40.8 \& 40.8 \\
\hline Furniture and fixtures.....................- do \& 39.8 \& 40.5 \& 40.5 \& 40.5 \& 40.3 \& 40.3 \& 40.0 \& 39.0 \& 40. 6 \& 40.6 \& 40.4 \& 40.1 \& 40.1 \& - 39.8 \& - 39.7 \& 39.5 \\
\hline Stone, clay, and glass prod \& 41.6 \& 41.9 \& 41.9 \& 42.0 \& 42.1 \& 41.8 \& 41.6 \& 41.1 \& 42.2 \& 42.3 \& 42.3 \& 42.3 \& 42.2 \& -42. 1 \& - 41.8 \& 41.9 \\
\hline Primary metal industries...................do \& 40.4 \& 41.6 \& 41.6 \& 41.9 \& 42.2 \& 42.7 \& 42.4 \& 42.4 \& 42.4 \& 42.1 \& 42.2 \& 41.9 \& 41.9 \& - 42.2 \& r 41.8 \& 42.6 \\
\hline Fabricated metal products....................d. \& 40.4 \& 41.2 \& 41.2 \& 41.3 \& 41.4 \& 41.6 \& 41. 6 \& 41.4 \& 41.9 \& 41.7 \& 41.8 \& 41.6 \& 41.5 \& r 41.6 \& -41. 4 \& 41.8 \\
\hline Machinery, except electrical \& 40.6 \& 42.0 \& 42.2 \& 42.4 \& 42.4 \& 42.6 \& 42.6 \& 42.4 \& 42.9 \& 42.6 \& 42.5 \& 42.6 \& 42.5 \& - 42.2 \& r 42.2 \& 42.9 \\
\hline Electrical equipment and supplies......-do \& 39.9 \& 40.5 \& 40.5 \& 40.6 \& 40.6 \& 40.8 \& 40.5 \& 40.4 \& 41.1 \& 40.6 \& 40.6 \& 40.6 \& 40.1 \& r 40.2 \& - 40.2 \& 40.5 \\
\hline Transportation equipment..........-.-.-. do \& 40.7 \& 41.8 \& 41.4 \& 41.9 \& 41.7 \& 42.2 \& 42.4 \& 42.3 \& 43.2 \& 42.0 \& 43.5 \& \& 41.9 \& \(\stackrel{42.3}{ }\) \& \({ }^{+} 41.1\) \& 42.1 \\
\hline Instruments and related products.......do.....- \& 39.8 \& 40.5 \& 40.6
30.4 \& 40.7
39 \& 40.6
39.3 \& 40.5
30.3 \& 40.6
39.1 \& 40.4
38.7 \& 40.8
39.4 \& 40.7
39.3 \& 40.8
39.0 \& 40.7
39.1 \& 40.5
38.9 \& ' 40.6 \& +40.3
+38.7 \& 40.7 \\
\hline Miscellaneous manufacturing ind......-do \& 38.9 \& 39.3 \& 39.4 \& 39.5 \& 39.3 \& 39.3 \& 39.1 \& 38.7 \& 39.4 \& 39.3 \& 39.0 \& 39.1 \& 38.9 \& 38.9 \& 38.7 \& 39.1 \\
\hline Nondurable goods.-....-.-.................- do \& 39.3 \& 39.7 \& 39.7 \& 39.8 \& 39.8 \& 39.8 \& 39.6 \& 39. 1 \& 39.7 \& 39.8 \& 39.8 \& 39.6 \& 39.6 \& 39.6 \& - 39.5 \& 39.8 \\
\hline Overtime hours \& 3.0 \& 3.3 \& 3.3 \& 3.4 \& 3. 4 \& 3.5 \& 3.4 \& \(\begin{array}{r}3.4 \\ 40.1 \\ \hline\end{array}\) \& \& 3.5
40.2 \& 3.6 \& 3.4
40.4 \& 3.3 \& 3.4 \& 3.3 \& 3.4 \\
\hline Food and kindred products................-do \& 40.3
+37 \& 40.4

374 \& $\begin{array}{r}40.3 \\ +37.8 \\ \hline\end{array}$ \& 40.3
$r 36.9$ \& $\begin{array}{r}40.4 \\ +38.0 \\ \hline\end{array}$ \& 40.3
-38.0 \& 40.4
+37.9 \& $\begin{array}{r}\text { 40.1 } \\ +36.6 \\ \hline\end{array}$ \& $\begin{array}{r}\text { + } \\ +38.2 \\ \hline\end{array}$ \& $\begin{array}{r}\text { + } 38.2 \\ \hline 88\end{array}$ \& 40.1
+39.2 \& 40.4
+37.9 \& 40.1
37.8 \& r 40.2
+36.0 \& 40.4
+38.1 \& 40.7 <br>
\hline Tobacco manufactures § .................... do \& $\begin{array}{r}+37.8 \\ 40.6 \\ \hline\end{array}$ \& 37.4
41.3 \& $\begin{array}{r}+37.8 \\ 41.3 \\ \hline\end{array}$ \& r 36.9
41.4 \& 38.0
+41.3 \& r 38.0
41.3 \& $\begin{array}{r}\text { '37.9 } \\ \hline 1.2\end{array}$ \& r

30.6
39.5 \& '38.4 \& r
48.8
41.3 \& +39.2
41.6 \& $\begin{array}{r}\text { + } 37.9 \\ 40.9 \\ \hline\end{array}$ \& 37.8
40.8 \& + 36.0
r 40.8 \& r 38.1
r 40.8 \& 38.1
40.9 <br>
\hline Textile mill products....................do \& 40.6
35.6 \& 41.3
36.0 \& 41.3
36.0 \& 41.4
36.2 \& 41.3
36.2 \& 41.3
36.1 \& 41.2
35 \& 39.5
34.5 \& 46.0 \& 46.2
36 \& 46.1
36 \& 36.0 \& 40.8
36.0 \& r 40.8
35.9 \& $\begin{array}{r}\text { r } \\ \text { r } 35.8 \\ \hline\end{array}$ \& 40.9
36.0 <br>
\hline Paper and allied products...-.-.-.-....-do \& 42.1 \& 42.8 \& 43.0 \& 42.9 \& 42.9 \& 43.1 \& 42.9 \& 42.5 \& 43.0 \& 43.1 \& 42.8 \& 42.8 \& 42.7 \& r 42.7 \& r 42.3 \& 42.6 <br>
\hline  \& 37.5 \& 37.9 \& 37.9 \& 38.2 \& 38.0 \& 38.2 \& 37.7 \& 37.8 \& 38.0 \& 38.0 \& 38.0 \& 38.0 \& 37.8 \& 37.7 \& - 37.8 \& 37.9 <br>
\hline Chemicals and allied products............do \& 41.6 \& 41.8 \& 41.8

41.8 \& | 41.9 |
| :--- |
| 42 | \& 42.0 \& 41.9 \& 41.9 \& \& \& \& \& 42.0

42.1 \& 42.0
417 \& $\begin{array}{r}+42.1 \\ \hline 424\end{array}$ \& 42.2
+421 \& 42.2 <br>
\hline Petroleum and coal products.-.-.-......-do...-- \& 4.24
4.3
4.3 \& 42.2
41.2 \& 41.8
41.3 \& 42.3
41.2 \& 42.3
41.3 \& 42.4
41.6 \& 42.2
41.3 \& 41.9
41.0 \& 41.9
41.5 \& 42.0
41.5 \& 41.9
41.5 \& 42.1
40.8 \& 41.7
40.7 \& 42.4
+40.8 \& r 42.1
-40.8 \& 42.5
41.0 <br>
\hline Rubber and plastics products, nec.....-do...-.
Leather and leather products.......do...- \& 40.3
37.7 \& 41.2
38.3 \& 41.3
38.9 \& 31.7 \& 41.3

37.9 \& \begin{tabular}{l}
41. <br>
37 <br>
\hline 1.8

 \& 

41. <br>
36 <br>
\hline 6.5
\end{tabular} \& 41.0

37.2 \& 41.5
37.8 \& 41.5
37.9 \& 41.5
38.2 \& 40.8
37.9 \& 40.7
38.1 \& +40.8
+37.8 \& r 40.8
r 38.0 \& 41.0
38.5 <br>
\hline Trans., comm., elec., gas, \& 40.2 \& 40.4 \& 40.6 \& 40.3 \& 40.5 \& 40.4 \& 40.5 \& 40.6 \& 40.4 \& 40.4 \& 40.7 \& 41.0 \& 40.7 \& 40.7 \& - 40.8 \& 40.6 <br>
\hline Wholesale and retail trade.......................... do \& 35.1 \& 35.1 \& 35.0 \& 35. 0 \& 35. 1 \& 35.0 \& 35.1 \& 34. 9 \& 35.0 \& 34. 8 \& 34.8 \& 34.8 \& 34. 9 \& - 34.7 \& r 34.6 \& 34.7 <br>
\hline  \& 39.8 \& 39.8 \& 39.6

336 \& 39.9 \& | 39.8 |
| :--- |
| 3 | \& 39.8

33 \& 39.7

33 \& \begin{tabular}{l}
39.7 <br>
33 <br>
\hline

 \& 

39.7 <br>
33.5 <br>
\hline

 \& 

39.7 <br>
33.4 <br>
\hline
\end{tabular} \& $\begin{array}{r}39.5 \\ 33 \\ \hline\end{array}$ \& 39.7

33.4 \& 39.5 \& + 39.5 \& - 39.4 \& 39.7 <br>

\hline  \& 33.7 \& 33.6 \& | 33.6 |
| :--- |
| 37.1 | \& \& 33.5

37.2 \& 33.5
37.0 \& 33.6
37.1 \& 33.4
37.0 \& 33.5
37.1 \& \& 33.4
37.2 \& 33.4
37.0 \& 33.5
37.1 \& r 33.2
372 \& r 33.1
+371 \& 33.2 <br>
\hline Finance, insurance, and real estate............do \& 37.0
34.2 \& 37.2
34.1 \& 37.1
34.1 \& 37.2
34.2 \& 37.2
34.2 \& 37.0
34.1 \& 37.1
34.0 \& 37.0
34.1 \& 37.1
34.1 \& 37.0
34.0 \& 37.2
34.1 \& 37.0
34.2 \& 37.1
34.4 \& 37.2
34.2 \& +37.1
+34.2 \& 37.1
34.2 <br>
\hline MAN-HOURS \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Seasonally Adjusted \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Man-hours of wage and salary workers, nonagric. establishments, for 1 week in the month, seasonally adjusted at annual rate $t$. bil. man-hours \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Total private sector*-....-.........-....-di. do...- \& 137.72
111.72 \& 142.46
115.37 \& 142.67
115.74 \& 143.73
116.26 \& 144.27
116.90 \& 144.60
117.20 \& 144.52
117.10 \& 145.15
117.67 \& 146.28
118.69 \& 146.38
118.85 \& 146.98
119.37 \& 147.50
119.84 \& 147.92
120.22 \& $\begin{array}{r}+147.69 \\ \hline 119.95\end{array}$ \& $r$
$r$
$r$
120.75 \& 148.41
120.53 <br>
\hline  \& 11.72
1.32 \& 1.34 \& 1.33 \& $\begin{array}{r}1.35 \\ \hline\end{array}$ \& 1.34 \& 1.34 \& 1.32 \& 1.32 \& 1 \& 1.33
18 \& 1.32 \& 1.34 \& 1.39 \& - 1.39 \& - r 1.40 \& 1.37 <br>
\hline Contract construction \& 6. 62 \& 6.78 \& 6. 84 \& 6. 83 \& 6. 94 \& 6. 78 \& 6. 46 \& 6.57 \& 6. 76 \& 6. 93 \& 6.87 \& 7.06 \& 7.11 \& r 7.18 \& $\begin{array}{r}\text { r } \\ + \\ +4.08 \\ \hline\end{array}$ \& 7.05 <br>
\hline Manufacturing. \& 38.34 \& 39.68 \& 39.78 \& 40.05 \& 40.35 \& 40.69 \& 40.74 \& 40.94 \& 41.37 \& 41.35 \& 41.62 \& 41. 58 \& 41.65 \& - 41.54 \& +
+1.53 \& 41.77 <br>
\hline Wholesale and retail trade....... \& 9. 29 \& 9.47 \& 9.49
98 \& 9.46 \& 9.58 \& 9. 58 \& 9. 62 \& 9. 66 \& 9. 62 \& 9. 62 \& 9. 72 \& 9.79
29 \& 9.73 \& 9. 73 \& + +9.80 \& 9. 76 <br>
\hline Finance, insurance, and real esta \& 27.74 \& 28. 68 \& ${ }^{28.76}$ \& ${ }^{28.85}$ \& 28.88 \& 29. 01 \& 29.11 \& ${ }^{29.12}$ \& 29.37 \& 29.39 \& 29.45 \& 29.56
7 \& ${ }^{29.60}$ \& +29.46 \& r 29.45
+784 \& $\begin{array}{r}29.64 \\ 7 \\ \hline 85\end{array}$ <br>
\hline Services-........................... \& 7.30 \& 21.83 \& 21.94 \& 72.04 \& 72. 12 \& 7. 274 \& 7.71 \& 7.69 \& 7.74
22.49 \& 22.78 \& 72.80 \& 22.72 \& 22.93 \& - 22.81 \& + 22.84 \& 7.85
23.08 <br>
\hline  \& ${ }_{26.00}$ \& 27.09 \& 26.92 \& 27.47 \& 27.37 \& 27.40 \& 27.43 \& 27.47 \& 27.59 \& 27. 53 \& 27.61 \& 27.67 \& 27.70 \& 27.74 \& - 27.71 \& 27.08
27.88 <br>
\hline Indexes of man-hours (aggregate weekly) : $\ddagger$ II \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Private nonapric. payrolls, total* ${ }^{*}$. ${ }^{\text {a }} 1967=100 .$. \& 102.8 \& 106.6 \& 106.9 \& 107.5 \& 108.1 \& 108.4 \& 108.2 \& 108.4 \& 109.8 \& 109.9 \& 110.4 \& 110.8 \& 111.1 \& r 110.9 \& + 110.9 \& 111.4 <br>
\hline Goods-producing*.........-................d. do.... \& 94.0 \& 98.1 \& 98.4 \& 99.2 \& 100.1 \& 100.5 \& 99.8 \& 99.5 \& 102.1 \& 102.4 \& 102.9 \& 103.1 \& 103.4 \& $\stackrel{103.4}{ }$ \& - 103.1 \& 103.7 <br>
\hline  \& 95.6 \& 97.5 \& 97.0 \& 97.8 \& 97.8 \& 97.4 \& 95.8 \& 95.9 \& 97.5 \& 96.9 \& 96.2 \& 98.0 \& 101.4 \& - 101.6 \& - 102.5 \& 100.8 <br>
\hline Contract construction*...-............... do \& 103.5 \& 105.5 \& 106. 2 \& 106. 2 \& 107.9 \& 105.0 \& 99.7 \& 101.4 \& 105.0 \& 107.9 \& 106.5 \& 109.7 \& 110.7 \& r 112.0 \& r 110.4 \& 110.0 <br>
\hline
\end{tabular}

${ }^{r}$ Revised. ${ }^{p}$ Preliminary. *New series. $\ddagger$ See note " $\ddagger$, " p. S-13. I. Production
\& Revised beginning June 1971 to correct errors of estimation; revisions are as follows (hours):
June-Dec. 1971-36.8; 40.0; 37.8; 37.8; 36.2; 37.9; 37.8; Jan.-July 1972-37.3; 36.9; 37.3; 37.3; 36.9;

NOTE FOR S-13: †Revisions (back to 1960), to adjust to the 1970 Census, appear in "EstiNo. 499 (May 1973), Bureau of the Census.

| Unless otherwise stated in footnotes below, data through 1970 and descrintive notes are 9 s shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. ${ }^{\text {b }}$ |

## LABOR FORCE, EMPLOYMENT, AND EARNINGS-Continued



| Urless otherwise stated in footnotes below, data through 1970 and descrivive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

## LABOR FORCE, EMPLOYMENT, AND EARNINGS—Continued



FINANCE

| BANKING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Open market paper outstanding, end of period: Bankers acceptances |  | 6.808 | 6, 639 |  | 6, 748 | 6, 864 | 6.898 | 6, 564 | 6,734 | 6,859 | 6,713 | 6,888 | 7,237 | 7,693 |  |  |
| Commrrcial and finance co. paper, total-.-.-do. | 232,126 | 34,721 | 34, 233 | 34,012 | 35,651 | 35, 775 | 34, 721 | 35, 727 | 35, 196 | 34,052 | 34, 404 | 35, 672 | 35, 786 | 35,463 |  |  |
| Placed through dealers...................-do. | 11,418 | 12, 172 | 12,944 | 13,088 | 13,558 | 13, 221 | 12,172 | 12,552 | 10,924 | 9,359 | 9,334 | 9,436 | 9,489 | 9,161 |  |  |
| Placed directly (finance paper) -............-d | 2 20,703 | 22, 519 | 21, 289 | 20,924 | 22,093 | 22,554 | 22,549 | 23, 175 | 24, 272 | 24,693 | 25,070 | 26, 236 | 26, 297 | 26, 302 |  |  |
| Agricultural loans and discounts outstanding of agencies supervised by the Farm Credit Adm.: Total, end of period |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total, end of period ....--............................. | 16,347 | 18, 294 | 17,722 | 17,872 | 18,012 | 18,046 | 18,294 | 18,925 | 19,343 | 19,733 | 20,075 | 20,319 | 20,641 | 20,856 | 21,206 |  |
| Federal land banks. | 7,917 | 9 | 8,631 | 8, 749 | 8,857 | 8,972 | 9, 107 | 9, 251 | 9,387 | 9, 591 | 9,767 | 9,953 | 10, 118 | 10,256 | 10, 441 |  |
| Loans to cooperatives | 2,076 | 2,993 | 2,156 | 2,233 | 2,335 | 2.313 | 2,298 | 2,808 | 2,936 | 2,895 | 2,859 | 2,765 | 2, 725 | 2,811 | 2,865 |  |
| Other loans and discou | 6,354 | 6,889 | 6,935 | 6, 890 | 6,799 | 6,661 | 6,889 | 6,866 | 7,020 | 7,246 | 7,449 | 7,601 | 7,798 | 7,789 | 7,899 |  |
| Bank debits to demand deposit accounts, except interbank and U.S. Government accounts, annual rates, seasonally adjusted: $\oplus$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | $\begin{aligned} & 13,969.4 \\ & 6,151.8 \end{aligned}$ | $\begin{aligned} & 14,022.7 \\ & 6,285.1 \end{aligned}$ | $\begin{gathered} 1,896.7 \\ 6,148.6 \end{gathered}$ | $15,154.7$ <br> $6,979.3$ | $14,783.7$ <br> 6,604 | 15,471.2 | ${ }^{1616,048.9} 7$ | 115,932.0 $6,844.8$ | ${ }_{6,927.5}^{15,999}$ | ${ }^{16,431.1}$ | $\left\lvert\, \begin{aligned} & 16,620.0 \\ & 7,224.6 \end{aligned}\right.$ | $\left\lvert\, \begin{array}{r} 17,215.6 \\ 7,381.4 \end{array}\right.$ | $\begin{aligned} & 17,896.3 \\ & 7,744.6 \end{aligned}$ |  |
| Total 232 SMSA's (except N.Y.)......... do |  |  | 7,817.6 | 7,737.6 | 7,748.1 | 8, 175.3 | +8,178.9 | 8,615.8 | r8,821.9 | r9,087.2 | r9,071.5 | r9,254.1 | r9,395.4 | r9,833.6 | 10,151.7 |  |
| 6 other leading SMSA's <br> 226 other SMSA's |  |  | $3,233.0$ 4,584 | $3,191.0$ $4,546.5$ | $3,225.8$ $4,522.3$ | 3.411 .9 4.763 .5 | $3,495.4$ $4,683.5$ | $3,652.6$ $4,963.2$ | 3,787.3 | $\begin{aligned} & \mathbf{3}, 855.9 \\ & r 5.231 .3 \end{aligned}$ | $\begin{aligned} & 3,8730 \\ & \mathbf{r}, 8.198 .6 \end{aligned}$ | $\begin{aligned} & \mathbf{3}, 906.1 \\ & 5,348.0 \end{aligned}$ | 4,034.9 $\times 5,360.5$ | $r 4,277.8$ $r 5,555.7$ | $\begin{aligned} & 4,315.1 \\ & 5.836 .5 \end{aligned}$ |  |
| Federal Reserve banks, condition, end of period: <br> Assets, total 9 $\qquad$ _mil. \$ | 99,523 | 97,675 | 99,541 | 98,658 | 100,039 | 93, 635 | 97,675 | 99,061 | 99,492 | 99,325 | 100,010 | 100,010 | 100, 509 | 104, 439 | r101,577 | p 101,894 |
| Reserve bank credit outstanding, total \% _ d | 75, 821 | 77, 291 | 76,474 | 74, 859 | 75,173 | 73, 476 | 77, 291 | 73,228 | + 78,539 | 「79,717 | 79,832 | 79,392 | 80,355 | 83, 349 | $\begin{array}{r}\text { r } \\ \mathbf{8 2} 2,489 \\ \hline 2,842\end{array}$ | 82,834 1,559 |
| Discounts and advances. <br> Discounts and ad securities | 39 70,218 | 69,906 | 1,092 70,740 | 239 69,874 | 481 70,094 | 501 69,501 | 1,981 69,906 | 1,310 72,022 | 12, 620 | 2,048 74,276 | 75, 495 | - 74,128 | 75, 1,770 |  | r2, 242 76,093 | 76, 16.5 |
| Gold certificate account.-.-...............-d | 9, 875 | 10,303 | 10, 303 | 10,303 | 10,303 | 10,303 | 10,303 | 10,303 | 10,303 | 10,303 | 10,303 | 10,303 | 10,303 | 10,303 | 10,303 | 10,303 |
|  | 99,523 | 97, 675 | 99,541 | 98,658 | 100,039 | 93,635 | 97, 675 | 99,061 | 99,492 | 99,325 | 100, 010 | 100,010 | 100, 509 | 101, 439 | -101,577 | p 101,894 |
| Deposits, |  | 28,667 | 30,738 | 29,719 | 29,159 | 25, 666 | 28,667 | 30,458 | 30.814 | 31,626 | 30,968 | 29,123 | 29,920 | 32. 461 | + $\begin{array}{r}\text { 30, } \\ \mathbf{r a 2} \\ \hline\end{array}$ | 30, 869 |
| Member-bank reserve balances....-....-do | 27,780 | 25,647 | 28, 227 | 27,515 | 26,757 | 23,667 | 25,647 | 26, 727 | 27,653 | 27,713 | 25,700 | 24,892 | 24,818 | 23,495 | - 28,955 | 28,190 |
| Federal Reserve notes in circulation......do... | 54,954 | 59, 914 | 56,347 | 56,351 | 57,062 | 58,419 | 59,914 | 58,402 | 58, 466 | 58,676 | 59,414 | 60,223 | 60,847 | 61,362 | 61,640 | 61,628 |

[^37][^38]| Unless otherwise stated in footnotes below, data through 1970 and descript've notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | End of year |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

FINANCE-Continued

| BANKING-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All member banks of Federal Reserve System, averages of daily figures: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reserves held, total $\oplus$......-....-.-.-.-...-mil. \$-. | 131,329 | 131,353 | 33. 148 | 33,003 | 33,803 | 4 31,774 | 31,353 | 32,962 | 31,742 | 31,973 | 32,277 | 32,393 | 32,028 | 33, 524 | -33,785 | 33,999 |
|  | 131, 164 | ${ }^{1} 31,134$ | 32, 893 | 32, 841 | 33, 556 | 31, 460 | 31, 134 | 32,620 | 31, 537 | 31,678 | 32,125 | 32,275 | 31, 969 | 33, 202 | r33,539 | 33,781 |
|  | 1165 | 1219 | - 255 | 162 | 247 | ${ }^{4} 314$ | - 219 | -342 | , 205 | ${ }^{295}$ | -152 | -118 | -59 | ${ }^{3} 222$ | $\begin{array}{r}\text { r } \\ \hline\end{array}$ | ${ }^{218}$ |
| Borrowings from Federal Reserve banks ..- do...- | 1107 158 | ${ }^{1} 11,049$ | 438 | 514 | 574 | - 606 | 1,649 | 1,165 | 1,593 | 1,858 | 1,721 | 1,786 | 1,789 | 2,051 | r 2,143 | 1,862 |
|  | 158 | $1-830$ | -183 | -352 | -327 | 4-292 | -830 | -823 | -1,388 | -1,563 | $-1,560$ | -1,638 | -1,653 | -1,605 | r 1,734 | -1,497 |
| Large commereial banks reporting to Federal Reserve System, Wed, nearest end of yr. or mo.: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Demand, adjustedor $\qquad$ mil. $\$$ | 91,683 | 106, 219 | 91,355 | 91,964 | 96,220 | 97, 444 | 106, 219 | 97, 765 | 95, 489 | 96,237 | 97,246 | 95, 932 | 97, 944 | 100, 189 | r96,441 | 97,578 |
|  | 152, 699 | 169,768 | 140, 450 | 146, 133 | 155, 144 | 152, 024 | 169,768 | 156,909 | 157, 135 | 149,421 | 156,704 | 150,507 | 149,950 | 157, 605 | ${ }^{\text {r } 143,516 ~}$ | 156, 014 |
| Individuals, partnerships, and corp... do... | 106, 885 | 121,308 | 102,374 | 103, 334 | 109, 379 | 108, 876 | 121,308 | 110,248 | 109, 337 | 105,786 | 109,067 | 109, 212 | 107, 431 | 111,528 | r105,635 | 110, 371 |
| State and local governments...--......do. | 6,563 | 7,221 | 6,038 | 6, 491 | 7, 403 | 6, 483 | 7,221 | 7,180 | 6,968 | 6,582 | 7,504 | 6,561 | 6,836 | 6, 901 | -5,703 | 6,417 |
| U.S. Government---1------.-.......-- do | 7,571 | -6,469 | 1,715 | 6,479 | 3,888 | 4,824 | 6, 469 | 6, 289 | 7,230 | 7,258 | 7,447 | 2,891 | 5,646 | 3, 010 | 1,816 | 5,512 |
| Domestic commercial banks ....----.-. do | 20,880 | 22,412 | 20,357 | 20,010 | 21,947 | 20,620 | 22,412 | 21,992 | 22,531 | 19,059 | 21,021 | 20,342 | 19,362 | 22,749 | r19,076 | 21,246 |
|  | 140,932 | 160, 661 | 155, 495 | 156,270 | 157, 686 | 158, 858 | 160, 661 | 162,936 | 168, 212 | 174, 302 | 176, 383 | 180,341 | 179,961 | 185, 434 | r190,774 | 189,784 |
|  | 54,542 | 58,572 | 59, 827 | 58,069 | 58,113 | 58, 184 | 58, 572 | 58, 186 | 58,091 | 58,591 | 58,093 | 58, 219 | 58, 250 | 57,345 | -56,299 | 56,162 |
|  | 61,274 | 72,334 | 70,796 | 70,841 | 71,778 | 73, 103 | 72,334 | 74,310 | 78,195 | 82,599 | 83,266 | 86,317 | 87, 207 | 92,791 | -97, 917 | 96,590 |
|  | 192,238 | 226,042 | 206,401 | 211,016 | -215,876 | 217,337 | 226, 042 | 225, 638 | 232,731 | 238,308 | 242,960 | 246,091 | 250,625 | 256, 139 | r256,706 | 259,742 |
| For purchasing or carrying securities......do do | $\begin{array}{r}83,770 \\ 8,835 \\ \hline\end{array}$ | 91,442 12,535 | 85,011 10,924 | -86,631 | 88,014 12,218 | 88,642 11,868 | 91,442 | 92,314 12,007 | 96,250 11,457 | 99,872 10,671 | 102,487 | 2102,794 10,119 | 104,997 9,705 | 107,557 9,130 | 106,957 r 9,631 $\mathbf{2}, 50$ | 108,362 9,301 |
| To nonbank financial institutions...-.-. do | 14, 504 | 20,524 | 16,527 | 17,030 | 18,234 | 18,249 | 20.524 | 19,850 | 20,938 | 22,246 | 23,107 | 23, 651 | 24, 879 | 26,496 | +25,804 | 26,299 |
| Real estate loans...---------------.---..- do | 38,400 | 45,992 | 43,517 | 44,112 | 44,972 | 45,630 | 45,992 | 46,473 | 46, 955 | 47, 501 | 48,193 | 49,060 | 50,003 | 51, 006 | r51,799 | 53,083 |
| Other loans.--------------------------.- ${ }^{\text {d }}$ do | 57, 183 | 72, 063 | 61,738 | 63,117 | 63,989 | 66,363 | 72,063 | 68,619 | 72,218 | 72,812 | 74,540 | 74,849 | 75, 226 | 76,612 | r77,906 | 79,276 |
|  | 81, 033 | 85, 146 | 80,031 | 81,013 | 81,615 | 83,394 | 85,146 | 84, 343 | 80,868 | 80,653 | 79,618 | 79,498 | 79,388 | 78, 333 | r78,331 | 80,235 |
| U.S. Government securities, total........ do | 28,944 | 29, 133 | 25,651 | 26,307 | 25,985 | 27,925 | 29,133 | 28,926 | 25, 663 | 25, 373 | 24,495 | 23, 991 | 23, 839 | 22, 301 | r22,000 | 22,523 |
|  | 24,605 | 22,552 | 22,085 | 21,535 | 21,837 | 22,357 | 22,552 | 22, 426 | 21, 066 | 20,473 | 19,973 | 19,770 | 19, 800 | 19,447 | r18,576 | 19, 202 |
| Other securities......-...........-........... do. | 52,089 | 56,013 | 54,380 | 54,706 | 55,630 | 55,469 | 56,013 | 55, 417 | 55, 205 | 55, 280 | 55,123 | 55, 507 | 55, 549 | \% 55,970 | - 56,331 | 57, 712 |
| Commercial bank credit (last Wed. of mo., except for June 30 and Dec. 31 call dates), seas. adj.: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total loans and investments $\odot . . . . . . . . . . . . . b i l . ~ \$ . . ~$ | 485.7 | 557.5 | 529.1 | 535.6 | 540.5 | 549.8 | 557.5 | 564.6 | 573.7 | 582.6 | 585.3 | 596.4 | 596.6 | 601.4 | 610.9 | 613.5 |
|  | 320.6 | 378.2 | 355.3 | 360.1 | 366.9 | 373.6 | 378.2 | 385.5 | 396.2 | 404.9 | 408.0 | 418.1 | 417.8 | 423.3 | 433.7 | 436.4 |
| U.S. Government securities | 60.7 | 62.4 | 61.4 | 62.0 | 59.9 | 60.6 | 62.4 | 61.9 | 60.2 | 60.6 | 60.6 | 59.6 | 60.8 | 58.7 | 56.6 | 55.5 |
|  | 104.5 | 116.9 | 112.5 | 113.5 | 113.6 | 115.6 | 116.9 | 117.1 | 117.2 | 117.2 | 116.6 | 118.7 | 118.0 | 119.5 | 120.6 | 121.7 |
| In 35 centers.-.-.-........- percent per annum. | ${ }^{2} 6.32$ | 25.82 | 5. 84 |  |  | 6.33 |  |  | 6.52 |  |  | 7.35 |  |  | 9.24 |  |
| New York aety....-.---...-.-........-do. | 26.01 | ${ }^{2} 5.57$ | 5.55 |  |  | 6.09 |  |  | 6. 22 |  |  | 7.04 |  |  | 9.08 |  |
| 7 other northeast centers.................do | ${ }^{2} 6.56$ | 26.07 | 6.14 |  |  | 6.61 |  |  | 6.89 |  |  | 7.71 |  |  | 9.49 |  |
| 8 diorth central centers .--................ do. | 26.30 | 25.74 | 5.79 |  |  | 6.27 |  |  | 6.45 |  |  | r 7.44 |  |  | 9.24 |  |
| 7 southeast centers..-..................... do | 26.62 | 26.07 | 6.06 |  |  | 6.56 |  |  | 6.76 |  |  | 7.37 |  |  | 9.25 |  |
| 8 southwest centers...........--.........- do | ${ }^{2} 6.46$ | ${ }^{2} 6.02$ | 6.07 |  |  | 6.30 |  |  | 6.63 |  |  | 7.33 |  |  | 9.16 |  |
|  | ${ }^{2} 6.38$ | 25.80 | 8. 82 |  |  | 6.41 |  |  | 6. 50 |  |  | 7.25 |  |  | 9.25 |  |
| Discount rate (N.Y.F.R. Bank), end of year or month. $\qquad$ percent | 4.50 | 4. 50 | 4.50 | 4. 50 | 4.50 | 4.50 | 4.50 | 5. 60 | 5.50 | 5. 50 | b. 50 | 6.00 | 6.50 | 7.00 | 7.50 | 7.50 |
| Federal intermediate credit ban | 26.37 | 26.00 | 5.81 | 5.84 | 5.90 | 6.05 | 6. 20 | 6.32 | 6.40 | 6. 50 | 6.71 | 6.34 | 7.08 | 7.21 | 7.38 |  |
| Home mortgage rates (conventional 1st mortgages): <br> New home purchase (U.S. avg.) .....percent | 2 7.59 |  |  |  |  |  |  | 87.68 |  |  |  |  |  |  |  |  |
| Existing home purchase (U.S. avg.).-...do... | 27.54 | 27.38 | 7.39 | 7.42 | 7.43 | 7.44 | 7.45 | ${ }^{5} 7.68$ | 7.72 | 7.69 | 7.70 7.70 | 7.77 | 7.79 | 7.84 | 7.94 8.01 | $\begin{aligned} & 8.13 \\ & 08.25 \end{aligned}$ |
| Open market rates, New York City: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bankers' acceptances (prime, 90 days) ... do... | 34.85 | 34.47 | 4.67 | 4. 84 | 5.05 | 5.01 | 5. 16 | 5. 60 | 6.14 | 6.82 | 6.97 | 7.15 | 7.98 | 9.19 | 10.18 | 10.19 |
| Commercial paper (prime, 4-6 months).-do..- | ${ }^{3} 5.11$ | 34.69 | 4.82 | 5. 13 | 5. 30 | 5.25 | 5.45 | 5. 78 | 6. 22 | 6. 89 | 7.14 | 7.27 | 7.99 | 9.18 | 10.21 | 10. 23 |
| Finance Co. paper placed directly . 3 - 6 mo.do. | 34.91 | 34.52 | 4.58 | 4.91 | 5. 13 | 5.13 | 5. 24 | 5. 56 | 5.97 | 6.44 | 6.76 | 6.85 | 7.41 | 8.09 | 8.90 | 8. 90 |
| Stoek Exchange eall loans, golng rate....do.... | ${ }^{3} 5.73$ | 35.16 | 5.25 | 5. 25 | 5. 70 | 5.75 | 5.75 | 6.01 | 6. 29 | 6.80 | 7.00 | 7.18 | 7.83 | 8.41 | 9.41 | 10.04 |
| Yield on U.S. Government securities (taxahle): <br> 3 -month hills (rate on new issue).... percent. | ${ }^{3} 4.348$ | ${ }^{3} 4.071$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ${ }^{3} 5.77$ | 35.85 | 5.92 | 6.16 | 6.11 | 6.03 | 6. 07 | 6. 29 | 5.61 | 6.084 6.85 | 6.74 | 6.78 | 6.76 | 7.49 | 8.672 7.75 | 8.478 7.16 |
| CONSUMER CREDIT $\uparrow$ (Short-and Intermediate-term) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total outstanding, end of year or month.... mil. \$. | 138,394 | 157, 564 | 147, 631 | 148,976 | 150, 576 | 152,968 | 157, 564 | 157, 227 | 157, 582 | 159,320 | 161, 491 | 164, 277 | 167, 083 | 169, 148 | 171,978 |  |
|  | 111,295 | 127, 332 | 119, 911 | 121, 193 | 122, 505 | 124, 325 | 127, 332 | 127, 368 | 127, 959 | 129,375 | 131, 022 | 133, 531 | 136, 018 | 138, 212 | 140, 810 |  |
|  | 38, 664 | 44, 129 | 42,323 | 42,644 | 43, 162 | 43, 674 | 44, 129 | 44,353 | 44, 817 | 45,610 | 46, 478 | 47,518 | 48,549 | 49,352 | 50, 232 |  |
| Other consumer goods paper.........--.-. ${ }^{\text {do }}$ | 34, 353 | 40, 080 | 36,188 | 36,745 | 37, 216 | 38, 064 | 40,080 | 39, 952 | 39,795 | 39,951 | 40,441 | 41,096 | 41, 853 | 42, 575 | 43, 505 |  |
| Repair and modernization loans........... do | 5,413 | 6, 201 | 5, 950 | 6,049 | 6,124 | 6, 174 | 6,201 | 6,193 | 6,239 | 6,328 | 6, 408 | 6,541 | 6, 688 | 6,845 | 7,009 |  |
|  | 32, 865 | 36, 922 | 35,450 | 35,755 | 36, 003 | 36, 413 | 36,922 | 36, 870 | 37, 108 | 37,486 | 37,695 | 38,376 | 38,928 | 39,440 | 40,064 |  |
| By type of holder: <br> Financial institutions, total. $\qquad$ | 97, 144 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Commercial banks..........----------- do. | 51, 240 | 59,783 | 106,140 | 17, 566 | 103,405 58,266 | 109, 8878 | 111, 5982 | (11, 690 | 112,630 60,582 | 114,190 61,388 | 115,727 62,459 | 118, 165 | 120,450 64,999 | 122, 479 | 124,823 67,381 |  |
| Finance companies . .-...-.-.-.......... do | 28,883 | 32,088 | 30,464 | 30,650 | 30,970 | 31, 427 | 32,088 | 32, 177 | 32, 431 | 32, 750 | 33, 078 | 33, 859 | 34, 367 | 35, 020 | 35, 634 |  |
|  | 14,770 | 16,913 | 16,278 | 16,439 | 16,556 | 16, 742 | 16,913 | 16,847 | 16,973 | 17, 239 | 17, 455 | 17, 832 | 18,269 | 18, 517 |  |  |
| Miscellaneous lenders...................- do | 2,251 | 2,598 | 2,558 | 2, 623 | 2,613 | 2, 626 | 2, 598 | 2,518 | 2,644 | 2,813 | 2,735 | 2,767 | 2,815 | 2,877 | 2,847 |  |
| Retail outlets, total. do. $\qquad$ <br> Automobile dealers $\qquad$ $\qquad$ do | 14,151 226 | 15,950 261 | 13,765 251 | 13,915 253 | 14,100 257 | $\begin{array}{r} 14,652 \\ 259 \end{array}$ | 15,950 261 | $\begin{array}{r} 15,678 \\ 263 \end{array}$ | $\begin{array}{r} 15,329 \\ 266 \end{array}$ | $\begin{array}{r} 15,185 \\ 272 \end{array}$ | $\begin{array}{r} 15,295 \\ 278 \end{array}$ | $\begin{array}{r} 15,366 \\ 284 \end{array}$ | $\begin{array}{r} 15,568 \\ 289 \end{array}$ | $\begin{array}{r} 15,733 \\ 293 \end{array}$ | 15,987 ${ }^{296}$ |  |

TRevised. ${ }^{p}$ Preliminary. ${ }^{2}$ Average for Dec. ${ }^{2}$ Average for year. ${ }^{3}$ Daily average. "See note " $\oplus$ " for this page. ${ }^{2}$ Beginning Jan. 1973 , data reflect changes in average. "See note " $\oplus$ " for this ning Nov. 1972, data are not comparable with those for earlier periods because of regulatory changes affecting reserve requirements (Regulation D) and check collection processing (Regulation J) that became effective in early November.
or For derrand deposits, the term "adjusted" denotes demand deposits other than domestic commercia! bank and U.S. Government, less cash items in process of collection; for loans, exclusive of loans to and Federal funds transactions with domestic commercial banks and
after deduction of valuation reserves (individual loan items are shown gross; i.e., before deduc ion of valuation reserves)

+ Revisions for months prior to Feb. 1971 will be shown later.
§or bond yields, see p. S-20
TRevised: new data incorporate adjustment of sample-based estimates to reflect recent benchmarks and new seasonal factors. Monthly revisions appear in the October 1972 Federal Reserve Bulletin.

| Unless other wise stated in footnote below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

FINANCE—Continued

| CONSUMER CREDIT $\mathrm{f}_{\text {- }- \text { Continued }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Outstanding credit-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Noninstallment credit, total | 27,099 10,585 | 30,232 12 12 | 27,720 11,411 | 27,783 11,541 | 28,071 11,717 | 28.643 | 30,232 12,256 | 29,859 | 29,623 12,409 | 29,945 12,540 | 30,469 12,686 | 30,746 12,817 | 31,065 | 30,936 12,968 | 31,168 13,111 |  |
| Single-payment loans, total $\qquad$ do Tommercial banks. do | 10,585 9,316 | 12,256 10,857 | 11,411 10,053 | 11,541 10,165 | 11,717 10,339 | 11,917 10.527 | 12,256 10,857 | 12,204 10,825 | 12,409 10,989 | 12,540 | 12,686 11,237 | 12,817 11,359 | 12,990 11,520 | 12,968 | 13,111 11,655 |  |
| Oth r financial institutions | 1,269 | 1,399 | 1,358 | 1,376 | 1,378 | 1,390 | 1,399 | 1,379 | 1,420 | 1,466 | 1,449 | 1,458 | 1,470 | 1,477 | 1,456 |  |
| Charge accounts, total...................- do. | 8,350 | 9,002 | 7,717 | 7,693 | 7,780 | 8,010 | 9,002 | 8,357 | 7,646 | 7, 702 | 8,036 | 3. 319 | 8,555 | 8,479 | 8,605 |  |
|  | 6,397 | 7,055 | 5,676 | 5,613 | 5,794 | 6. 081 | 7.055 | 6,402 | 5, 735 | 5. 825 | 6.129 | 6,387 | 6,544 | 6,424 | 6, 475 |  |
| Credit cards | 1,953 | 1,947 | 2, 041 | 2,080 | 1,986 | 1.929 | 1, 47 | 1,955 | 1,911 | 1,877 | 1,907 | 1,932 | 2,011 | 2,055 | 2,130 |  |
|  | 8,164 | 8,974 | 8,592 | 8,549 | 8,574 | 8,716 | 8,974 | 9, 298 | 9,568 | 9, 703 | 0,747 | 9,610 | 9,520 | 9,489 | 9,452 |  |
| Iustallment credit extended and repaid: Unadjusted: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 124,281 | 142,951 | 13,166 | 11,535 | 12, 337 | 12,806 | 13, 6.43 | 11,923 | 11, 214 | 13, 681 | 13,661 | 14,792 | 14,608 | 14,812 4 177 | $\begin{array}{r}14,965 \\ 4 \\ \hline\end{array}$ |  |
| Antomobile paper-.-.-......-.-.........-do. | 34,873 47891 | 40,194 <br> 55 | 3,696 5,094 S | 3, 110 4,695 | 3,663 4,831 | 3, 505 <br> 5,202 | 3, 6175 | 3,393 4,949 | 3,407 4,252 3, | 4, 164 5,169 | 4, 101 | 4,409 5,698 | 4,313 5,678 | 4,177 5,753 | 4,252 5,931 |  |
|  | 47.821 41,587 | 55,599 47,111 | 5,094 4,376 | 4,695 3,730 | 4,831 3,843 | 5,202 4,052 | 6, 171 4,275 | 4,949 3,581 | 4,252 3,555 | 5,169 4,348 | 5,378 4,182 | 5,698 4,685 | 5,678 4,617 | 5,753 4,882 | 5,931 4,782 |  |
|  | 115,050 | 126, 914 | 10,957 | 10, 253 | 11,025 | 10, 986 | 10, 636 | 11,887 | 10,623 | 12, 265 | 12,014 | 12,283 | 12,121 | 12, 618 | 12,367 |  |
| Automobile paper---.-.-.----...-.-- do. | 31,393 | 34, 729 | 2,976 | 2,789 | 3, 145 | 2,993 | 2. 740 | 3,169 | 2, 943 | 3,371 | 3,233 | 2,369 | 3,282 | 3,374 | 3,372 |  |
| Other consumer goods paper....-....-. do | 44,933 38,724 | 49,872 42,313 | 4,376 3,605 | 4,138 3,326 | 4,360 3,520 | 4,354 3,639 | 4, ${ }^{4}, 155$ | 5,077 3,641 | 4, 409 $3,28 t$ | 5,013 3,881 | 4,888 3,893 | 5,043 | 4,921 | 5,031 | 5,001 |  |
| All other---------------------.-..---- ${ }^{\text {do }}$ | 38,72 | 42,313 |  |  |  |  |  |  | 3,284 | 3,881 | 3,893 | 3,871 | 3,918 | 4,213 | 3,094 |  |
| Seasonally adjusted: Extended, total |  |  | 12,484 | 11,953 | 12,404 | 12,846 | 12,627 | 13,304 | 13,43 ${ }^{\text {a }}$ | 13,852 | 13,465 | 13, 932 | 13,646 | -14,542 | 14,158 |  |
| Automobile pap |  |  | 3,491 | 3,368 | 3,504 | 3, 620 | 3, 763 | 4,006 | 3, 172 | 4,001 | 3,822 | 3,989 | 3, 762 | 3,930 | 3,968 |  |
| Other consumer g |  |  | 4,990 | 4,772 | 4,971 | 5. 118 | 4,876 | 5,282 | 5, 245 | 5,349 | 5,563 | 5,504 | 5,505 | r 5 , 943 | 5,825 |  |
|  |  |  | 4,003 | 3,813 | 3, 929 | 4, 108 | 3,988 | 4,016 | 4,217 | 4,502 | 4, 080 | 4, 439 | 4,379 | r 4,639 | 4,365 |  |
| Repaid, total.......-.....-.-.-.--..........- do |  |  | 10,841 | 10,667 | 10,908 | 11, 128 | 10,964 | 11,355 | 11, 437 | 11, 808 | 12,061 | 11,941 | 12,034 | -12,544 | 12, 261 |  |
|  |  |  | 2,896 | 2,873 | 3, 041 | 3.023 | 29.97 | 3,097 | 3, $1+5$ | 3,225 | 3,218 | 3, 261 | 3,253 | r 3,334 | 3,293 |  |
| Other consumer good |  |  | 4,395 | 4,303 | 4, 354 | 4,444 | 4.341 | 4,649 | +,627 | 4, 755 | 4, 963 | 4,917 | 4,955 | ${ }^{\text {r 5 5, }} 141$ | 5,030 |  |
| All other.....-. |  |  | 3, 550 | 3,491 | 3,513 | 3,661 | 3, 616 | 3,609 | 3, 665 | 3,828 | 3,880 | 3,763 | 3,826 | r 4, 069 | 3,938 |  |
| FEDERAL GOVERNMENT FINANCE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Budget receipts and outlays: mil. \$ | ${ }^{1} 188,392$ |  | 18,213 | 22, 183 | 14,738 | 16,748 | 18,972 | 21, 130 | 18,067 | 15,987 | 25,860 | 16,584 | 28,504 | 18,121 |  |  |
| Recelpts (net) <br> Outlays (net) | 1211,425 | 1231, 876 | 20,581 | 18,471 | 20,055 | 21,165 | 10, 21 | 23, 631 | 20,227 | 20,806 | 22, 306 | 20, 157 | 20,892 | 22, 607 | 22, 139 |  |
| Budget surplus or defic | 1-23,033 | $1-23,227$ | -2,369 | 3,712 | $-5,317$ | -4,418 | $-750$ | -2, 501 | -2, 160 | $-4,820$ | 3, 554 | -3,573 | 7,612 | -4, 486 | -847 |  |
| Budget financing, total ...-...-.-.-.-.-.-....- do | 1 23,633 | ${ }^{1} 23,227$ | 2,369 | $-3,712$ | 5,317 | 4,418 | 750 | 2, 501 | 2. 160 | 4.820 | -3,554 | 3,573 | -7,612 | 4,486 | 817 |  |
|  | ${ }^{1} 19,448$ | 1 19,442 | , 934 | + 376 | 2,851 | 5, 298 | 4, 197 | 1,519 | 3, 863 | 3,005 | $-2,159$ | -1,970 | -2, 369 | -713 | -563 |  |
| Reduction in cash balances..--............. do | 13,794 | ${ }^{1} 3,785$ | 1,435 | 4,088 | 2,466 | -880 | $-3,4.4$ | 982 | $-1,703$ | 1,815 | -1,395 | 5,543 | $-5,243$ | 3,773 | 284 |  |
| Gross amount of debt outstanding............do. | ${ }^{1} 409,468$ | 1437, 329 | 446, 051 | 444,580 | 450.604 | 455,285 | 460.243 | 461,030 | 465,762 | 469,587 | 467.322 | 467,555 | 468, 426 | 469.296 | 472, 438 |  |
| Held by the public................................. ${ }^{\text {d }}$ | 1304, 328 | 1323, 770 | 328, 433 | 328, 809 | 331, 660 | 336, 958 | 341, 155 | 312, 674 | 346, 537 | 349,542 | 347,383 | 345, 414 | 343, 045 | 342, 332 | 341, 769 |  |
| Budget receipts by source and outlays by ageney: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recejpts (net), total ......................mil. \$. | 1 188,392 18620 | 1208,649 194 1937 | 18.213 8,380 | 22, 183 |  | 16,748 8,613 | 18,92 8,206 | 21.130 12.897 | 18,067 8,067 | 15,987 3,409 | 25,860 11.587 | $\begin{array}{r}16.584 \\ 3,825 \\ \hline\end{array}$ | 28, 504 | 18,121 8.814 |  |  |
| Individual income taxes (net) ................. do Corporation income taxes (net) .............do | 188,230 126,785 | 1984,737 <br> 132,166 <br> 1 | 8,380 665 | 11,005 4,965 | $\begin{array}{r}7,595 \\ \hline 965\end{array}$ | 8,613 559 | 8,206 5,632 | 12,897 1,382 | 8,067 672 | 3,409 4,867 | 11,587 5,657 | 3,825 923 | 12,321 8,739 | 8,814 1,350 | 9,279 695 |  |
| Social insurance taxes and contributions (net) ................................................ | 148,578 | ${ }^{1} 53,914$ | 6,849 | 4, 038 | 3,759 | 4,969 | 2,975 | 4,486 | 7,029 | 5,340 | 6,359 | 9,380 | 5, 085 | 5,336 | 8,778 |  |
|  | 126,748 | 127,832 | 2,318 | 2, 175 | 2,420 | 2,606 | 2,160 | 2,366 | 2,298 | 2,371 | 2,258 | 2, 456 | 2,359 | 2, 221 | 2,539 |  |
| Outlavs, total | 1211. 425 | 1231,876 | 20,581 | 18, 471 | 20.055 | 21, 165 | 19, 721 | 23,631 | 20,227 | 20.806 | 22,306 | 20,157 | 20,892 | 22,607 | 22, 139 |  |
|  | 18,560 | 1 1 1 1 | ${ }^{r} 1,531$ | ${ }^{T} 401$ | -1,082 | r 680 6,250 | $r 20.5$ 5 | 1,366 | ${ }^{770}$ | ${ }_{6} 328$ | 643 | 62 | 433 | 2,326 | 817 |  |
| Defense Department, military ........... do | 174,546 | 175,150 | 5,662 | 5, 204 | 6,066 | 6,250 | 5,965 | 6,332 | 6,075 | 6,633 | 6, 207 | 6,238 | 7,503 | 5,033 | 6,662 |  |
| h, Education, and Welfare Department <br> mil. $\$$ | 161,866 | 1 71, 779 | 6,013 | 6, 271 | 7,044 | 7,037 | 6,972 | 7. 121 | 7,051 | 6,554 | 7,125 | 7,583 | 7,782 | 6,902 | 7,203 |  |
| Treasury Department.....................do | 120,990 | ${ }^{1} 222,124$ | 1,864 | 1,991 | 1,720 | 2,098 | +,518 | 4,210 | 2,148 | 2,475 | 3,760 | 2,214 | 2,123 | 3,863 | 2,284 |  |
| National Aeronautics and Space Adm....do | 13,381 | 3,42) | 289 | 273 | 271 | 272 | 284 | 271 | 241 | 301 | 265 | 255 | 306 | 278 | 262 |  |
| Veterans Administration.................-do...-. | 19,750 | ${ }^{1} 10,710$ | 8.55 | 831 | 803 | 1,276 | 986 | 1,154 | 1,043 | 1,061 | 1,111 | 1,014 | 862 | 1,097 | 1,050 |  |
| Receipts and expenditures (national income and product accounts basis), atrly. totals seas. adj. at annual rates: |  |  |  |  |  |  | 236.9 |  |  |  |  |  |  |  |  |  |
| Federal Government receipts, total......bil. \$. | 198.9 | 228.7 |  | 229.6 |  |  | 236.9 |  |  | 253.6 |  |  | 262.4 |  |  |  |
| Personal tax and nontax receipts........ do | 89.9 | 107.9 |  | 108. 1 |  |  | 111.3 |  |  | 108.5 |  |  | 111.4 |  |  | p 116.8 |
| Corporate profit tax accruals..............do | 33.3 | 37.8 |  | 38.0 |  |  | 40.7 |  |  | 46.6 |  |  | 50.8 |  |  |  |
| Indirect business tax and nontax accruals do.... | 20.4 | 19.9 |  | 19.9 |  |  | 20.3 |  |  | 20.7 |  |  | 21.2 |  |  | P 20.9 |
| Contributions for social insurance........do. | 55.2 | 63.0 |  | 63.6 |  |  | 64.6 |  |  | 77.8 |  |  | 79.1 |  |  | ${ }^{\circ} 80.8$ |
| Federal Government expenditures, total... do | 221.0 | 244.6 |  | 237.0 |  |  | 260.3 |  |  | 258.6 |  |  | 262.4 |  |  | p 265.7 |
| Purchases of goods and services.......... do | 98.1 | 104.4 |  | 102.3 |  |  | 102.7 |  |  | 105.5 |  |  | 107.3 |  |  | จ 107.1 |
| National defense..............................do | 71.6 | 74.4 |  | 71.9 |  |  | T2. 4 |  |  | 74.3 |  |  | 74.2 |  |  | 273.6 |
| Transfer payments...--.-.-................do | 74.9 | 82.9 |  | 80.8 |  |  | 91.0 |  |  | 91.8 |  |  | 93.8 |  |  | ${ }^{p} 96.7$ |
| Orants-in-aid to State and local govts.... do | 29.1 | 37.7 |  | 34.4 |  |  | 46.1 |  |  | 41.1 |  |  | 40.5 |  |  | p 40.5 |
| Net interest paid.....--...-.-..-.-...... do...- | 13.6 | 13.5 |  | 13.4 |  |  | 13.7 |  |  | 14.7 |  |  | 15.6 |  |  | p 16.2 |
| Subsidies less current surplus of government enterprises. bil. \$ | 5.3 | 6.1 |  | 6.2 |  |  | 6.7 |  |  | 5.5 |  |  | 5.1 |  |  | p 5.2 |
| Less: Wage accruals less disbursements...do. |  | . 0 |  | . 0 |  |  | . 0 |  |  | . 0 |  |  | -. 1 |  |  |  |
| Surplus or deficit (-).--...................... d | -22.2 | $-15.9$ |  | $-7.4$ |  |  | -23.4 |  |  | $-5.0$ |  |  | . 0 |  |  |  |
| LIFE INSURANCE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Institute of Iffe Insurance: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Assets, total, all U.S. life insurance cos..... bil. \$.- | 223.10 | 239.73 | 233.54 | 234.63 | 236.23 | 238.34 | 239.73 | 2+1.03 | 242.07 | 243.08 | 24.56 | 243.59 | 244.53 | 247.08 | 247.66 |  |
| Government securities.-.-.-........-. - . do. | 11.00 | 11.37 | 11.32 | 11. 40 | 11. 47 | 11.62 | 11.37 | 11. 19 | 11. 14 | 11.15 | 11. 46 | 11.43 | 11.36 | 11. 43 | 11.42 |  |
|  | 99.80 | 112.98 | 109.88 | 110.34 | 111.66 | 113.18 | 112.98 | 11.4. 53 | 115.39 | 115.97 | 115.18 | 115.90 | 116.15 | p118.06 | 117.84 |  |
| Mortgage loans, total.-.....-.-----.-......do. | 75.50 | 76.95 | 75.52 | 75.59 | 75.69 | 75.90 | 76.93 | 73.48 | 7.51 | 77. 59 | 73. 26 | 77. 40 | 77.91 | 78.24 | 78.66 |  |
| Nonfarm | 69.90 | 71.27 | 89.91 | 69.97 | 70.06 | 70.27 | 71.27 | 71.86 | 71.89 | 71.95 | 71.61 | 71.72 | 72.19 | 72.47 | 72.84 |  |
| Real estate..................-.-............-do. | 6. 90 | 7.30 | 7. 25 | 7.24 | 7.22 | 7. 26 | 7.30 | $7.3 \%$ | 7.43 | 7.45 | 7.52 | 7.54 | 7.55 | c 7.58 | 7.63 |  |
| Policy loans and premium notes....---. - do | 17.06 | 1800 | 17.69 | 17.75 | 17.86 | 17.03 | 18.00 | 15.08 | 18.17 | 18. 29 | 18. 42 | 18.53 | 18.67 | 18.84 | 19.18 |  |
| Other assets | 1.76 10.07 | 1.98 11.15 | 1.36 10.52 | 1.42 10.87 | 1.46 10.86 | 11.43 | 1.98 11.15 | 1.60 | 1.57 10.80 | 1.55 11.08 | 11.66 | 1.69 11.09 | 11. 78 | 1.80 11.13 | 1.73 11.20 |  |

Revised. p Preliminary, © Corrected.

respective years; they incluce revisions rot distrituted to n.onths.

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

FINANCE-Continued

| LIFE INSURANCE-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Institute of Life Insurance-Continued <br> Payments to policyholders and beneficiaries in U.S., total .-.-.................................. | 17, 177.2 | 18,574. 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 7, 423.3 | 8, 007.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 956.2 29.8 | ${ }^{1,000.4} 271$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1,944.4 | 2,213.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Surrender values..........---.-.-.....-...-do. | 2,881.6 | 3,027.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 3,680.9 | 4,054.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Life Insurance Agency Management Association: Insurance written (new paid-for insurance): $\ddagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Value, estimated total........................mil. \$. | 189, 484 | 208, 497 | 16,726 | 16,544 | 17, 371 | 17,531 | 23, 526 | 15, 285 | 16, 265 | 20,604 | 18,793 | 19,244 | 19,680 | 18,861 | 18,984 |  |
| Ordinary (incl. mass-marketed ord.)... do .-. | 132,803 49 4 7 | 146, 116 | 12, 145 | 11, 218 | 12, 686 | 12,855 | 13,838 | 11, 316 | 12, 048 | 14,905 | 13,733 | 14, 362 | 13, 858 | 13, 11.5 | 13,555 |  |
| Group | 49,407 7,274 | 55, ${ }^{\text {7,327 }}$ | 4, ${ }^{557}$ | $\begin{array}{r}4,788 \\ \hline 538\end{array}$ | ${ }^{4,118} 5$ | 4, 116 | ${ }^{9,181}$ | 3,443 526 | 3,691 526 | $5,077$ | ${ }^{4,458}$ | 4,274 608 | 5,242 580 | $\begin{array}{r} 5,204 \\ 542 \end{array}$ | $\begin{array}{r} 4,851 \\ 4,878 \end{array}$ |  |
| monetary Statistics |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gold and silver: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Monetary stock, U.S. (end of period) . . . mill \$ | 10,132 | 10.410 | 10, 410 | 10,410 | 10,410 | 10,410 | 10,410 | 10,410 | 10,410 | 10,410 | 10,410 | 10,410 | -10, 410 | 10,410 | 10,410 | 10,410 |
| Net release from earmark§ do Exports $\qquad$ $\qquad$ thous. 5 | 51,249 | $-1,715$ 63,053 | 16, 12 | $\xrightarrow{-7,705}$ | ${ }_{4,257}{ }^{0}$ | 1 983 | - $\begin{array}{r}0 \\ 3,322\end{array}$ | 2, $\mathbf{7 8 6}^{4}$ | 4 2,015 | 3 2,405 | - ${ }^{6}$ | $3,056$ | $\begin{aligned} & 25,503 \\ & \end{aligned}$ | $\begin{array}{r} 22 \\ 24,958 \end{array}$ | $\begin{array}{r} 9 \\ 4,012 \end{array}$ |  |
| Imports. $\qquad$ do. | 283,948 | 357,689 | 52, 656 | 31,502 | 29, 216 | 44,535 | 42,212 | 19,745 | 32,487 | 27,526 | 41,127 | 33,070 | 34,990 | - 27,134 | 17,061 |  |
| Production: <br> South Africa $\qquad$ mil. | 1,098.7 |  |  |  |  |  |  |  |  |  |  |  |  | 88.3 |  |  |
|  | 1,77.3 | 77.2 | 5.9 | 6.3 | 94.2 6.3 | 69.5 | ${ }_{6}^{84.3}$ | 88.2 | 86.1 | 68.3 | 86.6 6.2 | 86.0 6.8 | 8.4 | 5.6 |  |  |
| United States-.---.........-..................do.. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Silver: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 19,499 | 31, 592 | 9.040 | 774 | 1,515 | 1,640 | 2,331 | ${ }^{616}$ | 436 | 1,960 | 856 | 1,718 | 876 | 5,627 3298 | 4,563 27569 |  |
|  | 49,507 1.546 | 59,357 1.685 | 2,963 1.846 | 5, 431 1.777 | 5,911 1.811 | 5,735 1.832 | 4,765 1.976 | 8.287 2.017 | 6, 993 2.236 | 8, 664 2.309 | 6,838 2.207 | 7, 2 2.490 | 15,231 2.621 | 32,988 2.700 | 27,569 2.636 | 2.675 |
| Production: <br> Canada. thous. fine oz ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States-....---...-.............. do...- | 41,030 | 39, 727 | 3, 244 | 3,597 | 2,865 | 2,420 | 3,212 | 3,275 | 3,629 | 2,953 | 4,615 | 4,118 | 3, 036 | 2,089 | 3,385 |  |
| Currency in circulation (end of period) ...... bil. \$ | 61.1 | 66.5 | 62.7 | 62.6 | 63.6 | 65.1 | 66.5 | 64.3 | 64.7 | 65.2 | 66.1 | 67.2 | 67.8 | 68.2 | 68.4 |  |
| Money supply and related data (avg. of daily fg.) : $\oplus$ Unadjusted for seasonal variation: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 231.2 51.1 | 246.2 54.6 | 245.5 55.1 | 248.7 55.2 | 251.2 55.7 | 254.3 56.7 | 262.9 57.8 | 262.6 56.7 | 254.0 56.7 | 254.1 57.3 | 259.5 58.2 | 256.0 58.7 | 261.2 59.4 | 263.2 59.9 | 260.7 60.0 | $p 262.1$ 60.0 |
| Demand deposits .-..------------------- do- | 180.1 | 191.6 | 190.5 | 193.5 | 195.5 | 197.7 | 205.0 | 205.9 | 197.3 | 196.7 | 201.5 | 197.3 | 201.8 | 203.2 | 200.8 | 202.1 |
|  | 254.0 | 293.4 | 299.5 | 302.7 | 305.9 | 307.7 | 311.7 | 316.6 | 322.5 | 331.4 | 336.1 | 340.9 | 342.7 | 345.8 | ${ }^{\text {r }} 354.7$ | 357.2 |
| U.S. Government demand depositsT.....do.. | 6.5 | 7.3 | 5.3 | 5.9 | 6.6 | 6. 2 | 7.3 | 8.0 | 9.6 | 10.1 | 8.2 | 8.4 | 6.9 | 6.3 | 4.0 | 5.1 |
| Adjusted for seasonal variation: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total money supply .-.----......-...-- - do |  |  | 248.6 | 250.1 | 251.6 | 252.7 | 255.5 | 255.4 | 256.7 | 256.6 | 258.2 58.7 | 260.5 59.0 | 263.2 59.4 | 264.3 59.5 | r 263.9 59.7 | $p 263.6$ 60.1 |
| Currency outside banks......................... |  |  | $\begin{array}{r}54.8 \\ 193.8 \\ \hline\end{array}$ | 55.3 194.8 | 55.7 195.9 | 56.2 196.5 | 56.8 198.7 | 57.0 1984 | 57.5 199.3 | 57.9 198.7 | 58.7 199.5 | 59.0 201.6 | 59.4 203.9 | 29.9 | r 204.2 | 203.5 |
|  |  |  | 298.9 | 301.9 | 304.8 | 308.4 | 312. 8 | 317.0 | 322.6 | 330.9 | 336.7 | 341.8 | 344.1 | 347.7 | 353.6 | 355.6 |
| Turnover of demand deposits except interbank and U.S. Govt., annual rates, seas. adjusted: $\ddagger$ Total ( 233 SMSA's) © _ratio of debits to deposits. |  |  | 87.6 | 88.7 | 86.7 | 93.5 | 90.7 | 94.0 | 97.8 | 96.9 | 95.9 | 97.7 | 99.8 | 102.5 | 106.2 |  |
| New York SMSA |  |  | 206.9 | 214.9 | 208.3 | 229.2 | 215.7 | 224.0 | 238.0 | 228.3 | 228.9 | 235.1 | 245.0 | 247.5 | 252.5 |  |
| Total 232 SMSA's (except N.Y.)..........do |  |  | 60.2 | 60.1 | 59.2 59.2 | 62.1 | 61.8 | 64.3 | 65.9 | 67.6 | 66.4 | 67.2 | 68.6 | 71.2 | 73.7 |  |
| 6 other leading SMSA'so' |  |  | 90.2 | 89.8 | 89.2 | 93.9 | 95.6 | 98.5 | 102.6 | 104.0 | 102.3 | 103.4 | r 107.2 | + 111.5 | ${ }_{58}^{113.5}$ |  |
| 226 other SMSA's...-....-.-...........-do...- |  |  | 48.8 | 48.8 | 47.8 | 50.0 | 48.9 | 51.2 | 51.9 | 53.7 | 52.7 | 53.5 | 54.0 | 55.7 | 58.5 |  |
| PROFITS AND DIVIDENDS (QTRIY.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturing corps. (Fed. Trade and SEC): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Net proft after taxes, allindustries.......-mil. \$.- | 31,038 | $\begin{array}{r}36,467 \\ 3 \\ \hline\end{array}$ |  | 8,776 |  |  | 10,125 |  |  | 10,506 |  |  | 12, 878 |  |  |  |
| Food and kindred products...-..........-do...- | 2,754 | 3,021 |  | 770 |  |  | 807 |  |  | ${ }_{190} 19$ |  |  | ${ }_{256}$ |  |  |  |
| Lextile mill products-a | 558 | 659 |  | 163 |  |  |  |  |  |  |  |  |  |  |  |  |
| mil. § | 603 | 1,012 |  | 312 |  |  | 234 |  |  | 370 |  |  | 574 |  |  |  |
| Paper and allied products Chemicals and alled products. | $\begin{array}{r}501 \\ 3.780 \\ \hline\end{array}$ | 941 |  | 1, 223 |  |  | 279 |  |  |  |  |  | 1,473 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Stone, clay, and glass products............-. - do...- | 5,829 853 8 | 5,151 |  | 1, 296 |  |  | 1, 478 |  |  | 1,406 |  |  | 1,690 376 |  |  |  |
| Primary nonferrous metal.............----- -- do- | 621 | ${ }^{1} 687$ |  | 145 |  |  | 168 |  |  | 252 |  |  | 363 |  |  |  |
| Primary iron and steel -.-.-.-.......do | 748 | 1,022 |  | 208 |  |  | 327 |  |  | 336 |  |  | 458 |  |  |  |
| Fabricated metal products (except ordnance, machinery, and transport. cquip.) .... mil. \$. | 1, 070 | 1,569 |  | 437 |  |  | 374 |  |  | 465 |  |  | 608 |  |  |  |
| Machinery (except electrical) -...........do.... |  |  |  | 916 |  |  | 877 |  |  | 1,091 |  |  | 1,340 |  |  |  |
| Elec. machinery, equip., and supplies---do... | 2,563 | 2,999 |  | 716 |  |  | 956 |  |  | 1851 |  |  | 994 |  |  |  |
| Transportation vehicles, equipment (except motor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{array}{r}585 \\ 3,097 \\ \hline\end{array}$ | $\begin{array}{r} 780 \\ 3,639 \end{array}$ |  | 188 |  |  | 175 |  |  | ${ }_{1}^{223}$ |  |  | 1,461 |  |  |  |
| All other manufacturing industries.-------do. | 4,990 | 5,944 |  | 1,555 |  |  | 1,730 |  |  | 1,369 |  |  | 1,811 |  |  |  |
| Dividends paid (cash), all industries ......do.... | 15,252 | 16,110 |  | 3, 570 |  |  | 4,553 |  |  | 4, 122 |  |  | 4,268 |  |  |  |
| Electric utilities, profits after taxes (Federal Reserve) $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SECURITIES ISSUED |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Securities and Exchange Commission: <br> Estimated gross proceeds, total. mil. \$. | 106,430 | c 96,481 | 7,136 | 5,635 | 9,505 | 10,987 | 8,210 | 6, 523 | 7,325 | 9, 030 | 6,567 | 11,219 | 7,821 |  |  |  |
| By type of security: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bonds and notes, total.......-.-.-......- ${ }^{\text {Corporate }}$ do | 92,289 | ${ }^{83,420}$ | 6,187 | 4,566 | 8,051 | 9,953 | 7,440 | 5,472 | 6,320 | 7,213 | 5,809 | 10,403 | 7,011 |  |  |  |
| Common stock | 31,883 10,459 | 28,896 9,694 | 1,945 743 | 1,651 | 2, 1,036 1,033 | $\begin{array}{r}2,343 \\ 880 \\ \hline\end{array}$ | $\begin{array}{r}2,625 \\ \hline 498 \\ \hline\end{array}$ | 1,276 913 | 957 832 | 2,117 | 1,739 +558 | 1,722 627 | $\begin{array}{r}2,646 \\ \hline 95\end{array}$ |  |  |  |
|  | 3, 683 | 3,367 | 206 | 305 | 421 | 154 | $2 \overline{2}$ | 137 | 172 | 833 | 200 | 187 | 216 |  |  |  |

* Revised. P Preliminary. ${ }^{1}$ Beginning Jan. 1972 valued $\$ 38$ per fine ounce.
\& Orincrease in earmarked gold ( - ). $\oplus$ Effective February 1973 SURVEY, data revised to reflect: Annual review of seasonal factors; regular benchmark adjustment; effect of changes in check collection procedures (Regulation J); and adjustments to include new figures from internationally oriented banking institutions. Monthly revisions back to 1959 are in the Feb. 1973
Federal Reserve Bulletin.

TAt all commercial banks. $\ddagger$ Series revised to reflect recalculation of seasonal factors; revisions back to 1964 are shown in the July 1972 Federal Reserve Bulletin, p. 634 . ©Total SMSA's include some cities and counties not designated as SMSA's. of Includes Boston, Philadelphia Chicago, Detroit, San Francisco-Oakland, and Los Angeles-Long Deach. ${ }_{c}$ Corrected.

Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown
in the 1971 edition of BUSINESS STA TISTICS

| 1973 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Annual | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept.

FINANCE-Continued

| SECURITIES ISSUED-Continued <br> Securitiev and Exchange Commission-Continued Est imated gross proceeds-Continued By type of issuer: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 46, 025 | 41,957 | 2, 893 | 2,720 | 3,791 | 3,377 | 3,396 | 2, 327 | 1,962 | 3,933 | 2,497 | 2,537 | 3,456 |  |  |  |
|  | 1, 261 | $\stackrel{1}{2,010}$ | 255 | ${ }_{93}$ | 278 | 338 | 176 | 90 | 68 | 91 | 141 | 109 | 50 |  |  |  |
|  | 11, 752 | 11,357 | 635 | 1,247 | 1,280 | 794 | 861 | 900 | 596 | 931 | 519 | 765 | 1.532 |  |  |  |
|  | 2,411 5,818 | 3,048 4,817 | $\begin{array}{r}96 \\ 237 \\ \hline 8\end{array}$ | ${ }_{61}^{61}$ | ${ }_{371}^{165}$ | $\begin{array}{r}69 \\ 658 \\ \hline\end{array}$ | 238 50 | 121 33 | 1700 | 108 1,008 | $\begin{array}{r}92 \\ 258 \\ \hline 8\end{array}$ | ${ }_{374}^{245}$ | 183 |  |  |  |
| Financlaland real | 8,662 | 10,580 | 823 | 232 | 1,074 | 730 | 1,165 | 903 | 751 | 1,222 | 971 | 581 | 491 |  |  |  |
| Noncornorate, total9 .-................ do. | 60,406 | 54,523 | 4,243 | 2,915 | 5,714 | 7,610 | 4, 814 | 4,196 | 5,363 | 5,096 | 4,070 | 8,681 | 4,365 |  |  |  |
| U.S. Government---.-.-.-.-..........do | 17,325 | 17,080 | 606 | 474 | $\stackrel{2}{2}, 530$ | 3,590 | 2, 553 | 1,199 | 1,603 |  | 564 | 3,353 | 559 |  |  |  |
| State and municipal...................do | 24, 370 | 23,028 | 1,898 | 1,701 | 1,970 | 1,817 | 1,760 | 1,889 | 1,445 | 2,304 | 1,688 | 1,870 | 2,046 |  |  |  |
| State and municipal issues (Bond Buyer): | 24,370 | 22,941 | 1,898 | 1,701 | 1,970 | 1,814 | 1,801 | 1,887 | 1,445 | 2,297 | 1,688 | 1,870 | 2,031 | 1,992 | r 1,474 |  |
|  | 26, 281 | 25, 222 | 1,840 | 2,475 | 1,587 | 2, 764 | 1,640 | 1,622 | 1,130 | 1,638 | 2,062 | 2,492 | 2,517 | 1,924 | -1,744 | 2,733 |
| SECURITY MARKETS <br> Stock Market Customer Financing* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Margin credit at brokers and banks, end of month, <br>  | 16,535 | 19,045 | 9,092 | 9,091 | 9,024 | 9,008 | 9,045 | 8,840 | 8,620 | 8,344 | 8,165 | 7,650 | 7, 287 |  |  |  |
|  | ${ }^{15} 5$ | ${ }^{1} 8,180$ | 8,060 | 8,083 | 8,081 | 8, 166 | 8,180 | 7,975 | 7,753 | 7,465 | 7, 293 | 6,784 | 6,416 | 6,243 |  |  |
|  |  | ${ }^{1} 1865$ | 1,032 | 1,008 |  | 1902 | -865 | 865 | -867 | -879 | 1872 | 866 | 871 |  |  |  |
| Other security credit at banks....-.-.-........ do Free credit balances at brokers: | ${ }^{1} 1,298$ | ${ }^{1} 1,528$ | 1,298 | 1,255 | 1,351 | 1,396 | 1,528 | 1,484 | 1,508 | 1,566 | 1,482 | 1,502 |  |  |  |  |
|  | $\begin{array}{r} 1387 \\ \mathrm{r} 1,837 \end{array}$ | $\begin{array}{r} 1414 \\ 11,957 \end{array}$ | $\begin{array}{r} 384 \\ 1,733 \end{array}$ | $\begin{array}{r} 380 \\ 1,677 \end{array}$ | $\begin{array}{r} 389 \\ 1,708 \end{array}$ | $\begin{array}{r} 390 \\ 1,828 \end{array}$ | $\begin{array}{r} 414 \\ 1,957 \end{array}$ | $\begin{array}{r} 413 \\ 1,883 \end{array}$ | $\begin{array}{r} 431 \\ 1,770 \end{array}$ | $\begin{array}{r} 442 \\ 1,719 \end{array}$ | $\begin{array}{r} 389 \\ 1,536 \end{array}$ | $\begin{array}{r} 413 \\ 1,564 \end{array}$ | $\begin{array}{r} 396 \\ 1,472 \end{array}$ | $\begin{array}{r} 379 \\ 1,542 \end{array}$ |  |  |
| Bonds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prices: <br> Standard \& Poor's Corporation: High grade corporate: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Composite ${ }^{3}$-...-.....dol. per $\$ 100$ hond. | 65.0 | 65.9 | 65.8 | 65.6 | 65.5 | 65.9 | 66.0 | 66.0 | 65.5 | 65.2 | 64.9 | 64.7 | 64.4 | 63.8 | 61.0 | 61.2 86.2 |
| Domestic municlpal (15 bonds) .-.--...-. do..- | 80.0 | 84.4 | 84.2 | 83.4 | 85.2 | 87.1 | 87.1 | 86.9 | 86.1 | 84.1 | 85.7 | 86.1 | 85.8 | 83.2 | 82.2 |  |
| U.S. Treasury honds, taxablef.............-do. | 67.73 | 68.71 | 69.65 | 68.06 | 68.09 | 69.87 | 68.68 | 65. 89 | 64.09 | 63.59 | 64. 39 | 63.43 | 62.61 | 60.87 | 58.71 | 61.81 |
| Sales: <br> Total. excl. U.S. Government honds (SEC): <br> All registered exchanges: <br> Market value | 8,803.91 | 9,515,67 | 723.49 | 525.26 | 676.38 | 935.61 |  |  |  |  |  |  |  |  |  |  |
|  | 10,157.90 | 10,077.35 | 775. 83 | 580.92 | 747. 69 | 989. 33 | 866.54 | 952. 20 | 790.10 | 869.21 | 923. 56 | 738. 59 | 725. 34 | 701.33 | 852.43 |  |
| N ew York Stock Exchange: <br> Market value....-.........................-. do. <br>  | $8,009.57$ $9,880.68$ | 8,717.24 | 669.41 | 481.76 527.60 | 629.34 692.12 | ${ }_{928.53}^{886.17}$ | 740.76 790.08 | 786.18 837.91 | ${ }^{692.06} 7$ | 7408.122 | 747. 12 810.76 | 606.45 684.98 | 585. 14 | $\begin{array}{\|l} 579.43 \\ 663.75 \end{array}$ | $\begin{aligned} & 744.67 \\ & 807.02 \end{aligned}$ |  |
| New York Stock Exchance, exclusive of some stopped sales, face varue, total. .mil. \$. | 6,563.82 | 5, 444.12 | 415.73 | 309.72 | 370.69 | 463. 55 | 417.92 | 448. 44 | 362.93 | 392.08 | 351.32 | 379.95 | 335.55 | 354. 44 | 351.15 | 355. 69 |
| Y Yelds: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Domestic corporate (Moody's).-.-..........percent. By rating: | 7.94 | 7.63 | 7.61 | 7.59 | 7.59 | 7.52 | 7.47 | 7.49 | 7.57 | 7.62 | 7.62 | 7.62 | 7.69 | 7.80 | 8.04 | 8.06 |
|  | 7.39 | 7.21 | 7.19 | 7.22 | 7.21 | 7.12 | 7.08 | 7.15 | 7.22 | 7.29 | 7.26 | 7.29 | 7.37 | 7.45 | 7.68 | 7.63 |
|  | 7.78 | 7.48 | 7.43 | 7.41 | 7.45 | 7.39 | 7.36 | 7.37 | 7.47 | 7.49 | 7.49 | 7.49 | 7.55 | 7.64 | 7.84 | 7.86 |
|  | 8.03 | 7.66 | 7.64 | 7.64 | 7.64 | 7.58 | 7.50 | 7.53 | 7. 60 | 7.66 | 7.64 | 7.64 | 7.71 | 7.86 | 8.11 | 8.11 |
|  | 8.56 | 8.15 | 8.19 | 8.09 | 8.05 | 7.99 | 7.93 | 7.90 | 7.97 | 8.03 | 8.09 | 8.06 | 8.13 | 8.24 | 8.53 | 8.63 |
| By group: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Industrials--..-.-...--.................. do... | 7.57 | 7.35 | 7.35 | 7.36 | 7.36 | 7.28 | 7.22 | 7.27 | 7.34 | 7.43 | 7.43 | 7.41 | 7.49 | 7.69 | 7.91 | 7.89 |
|  | 8.13 | 7.74 | 7.69 | 7. 63 | 7. 63 | 7.55 | 7.48 | 7.51 | 7.61 | 7.64 | 7.64 | 7.63 | 7.69 | 7.81 | 8.06 | 8.09 |
|  | 8.38 | 7.98 | 7.99 | 7.97 | 7.97 | 7.95 | 7.91 | 7.87 | 7.92 | 7.94 | 7.98 | 8.01 | 8.07 | 8.17 | 8.32 | 8.37 |
| Domestic municipal: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 5.46 5.70 | 5. 25 5.27 5. | 5. 38 5. 29 | 5. 30 5.36 | 5. 04 5. 20 | 4. 99 5. 03 | 5.11 5.03 | 5. 16 5.05 | 5.22 5.12 | 5.26 5.30 | 5. 10 5. 16 | 5.22 5.12 | 5.25 5.15 | 5. 59 5.39 | 5. 34 5.47 | 5.00 5.11 |
| U.S. Treasury bonds, taxahle $\odot$ $\qquad$ do... <br> Stock s | 5.74 | 5. 63 | 5.54 | 5. 70 | 5. 69 | 5.80 | 5.63 | 5.94 | 6.14 | 6.20 | 6.11 | 6. 22 | 6. 32 | 6. 53 | 6.81 | 6.42 |
| Mividend rates, prices, yields, and earnings, common stocks (Moody's): <br> Dividends per share, annual rate, composite |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Industrials.............-.-.-...........do.... do. | 8.81 9.50 | ${ }_{8}^{8.92}$ | 8.97 9.60 | 8. 97 | 8. 98 | 9. 21 | 9. 22 | 9. 29 | 9.32 | 9. 34 | 9. 38 | 99.39 | 9. 41 | 9. 53 | 9. 59 | 9.62 |
|  | 4.77 | 9.61 <br> 4.87 | 9.60 4.88 | 8. 4.89 4.89 | 9. 4.62 4.89 | 9.97 4.90 | 9.97 4.92 | 10.06 4.95 | $\begin{array}{r}10.09 \\ 4.98 \\ \hline\end{array}$ | 10.10 4.99 | 10.17 4.99 | 10.18 4.99 | 10.19 5.00 | 10.45 5.01 | 10.53 5.02 | 10.58 5.03 |
| ${ }_{\text {Railroads }}$ | 3.78 788 | 3.73 | 3.78 | 3.78 | 3. 79 | 3.83 | 3. 92 | 3.95 | 3. 96 | 3.96 | 4. 00 | 4.00 | 3.97 | 3.97 | 4.06 | 4.06 |
|  | 7.28 10.62 | 7.32 | 7.31 | 7.31 | 7.31 | 7.31 | 7.39 | 7. 39 | 7.39 | 7.54 | 7. 53 | 7.54 | 7.54 | 7.54 | 7.54 | 7.54 |
| Property and casualty insurance cos.......do | 10.62 | 10.99 | 11.02 | 11.02 | 11.02 | 11.02 | 11. 10 | 11. 38 | 11. 53 | 11.53 | 11.53 | 11.64 | 12. 89 | 13.20 | 13.23 | 11.88 |
| Price per share, end of mo., composite...... do | ${ }^{261.43}$ | 290.65 | 295.79 | 294. 25 |  | 309.50 | 313.81 | 311.61 | 298. 69 | 298.30 | 286. 63 | 281.78 | 280.68 | 289.38 | 279.25 | 287.99 |
|  | 318.75 84.16 | 362.44 80 80 | 369.60 78.25 | 366.24 78.48 | 365.83 83 83 | $\begin{array}{r}383.21 \\ 868 \\ \hline 8.86\end{array}$ | 389.48 83.61 | 388.63 79.43 | 373.23 77.54 81 | 374.61 75.20 | 358.35 74.73 | 352.21 74.69 | 351.31 72.89 71 | 363.50 69.70 | $\begin{array}{r}350.38 \\ 67 \\ 78 \\ \hline 18\end{array}$ | 357.90 72.38 |
|  | 85.12 | ${ }_{91} 900$ | 70.16 | 75.86 8.8 | 83.36 83.85 | ${ }_{93} 93$ | 91.26 | 86.38 | 81.39 | 84.58 | 77.95 | 71.60 | 71.40 | 74.55 | 71.44 | 77.35 |
| Yfelds, composite....-....-............... percent .- | 3.37 | 3.07 |  | 3.05 |  | 2.98 | 2.94 | 2.98 | 3.12 | 3.13 | 3. 27 | 3.33 | 3.35 | 3.29 | 3.43 | 3.34 |
| Industrials | ${ }_{5}^{2.98}$ | 2.65 | 2.60 | 2.62 | 2.63 | 2.60 | 2.56 | 2. 59 | 2.70 | 2.70 | 2.84 | 2.89 | 2.90 | 2.87 | 3. 01 | 2.96 |
|  | 5. <br> 4.44 | 6. 67 | 6.24 4 4 | 6. 23 | 5.87 4.82 | 5.64 | 5. ${ }^{\text {5. }} 88$ | 6. 23 <br> 4 <br> 4 | 6. 42 | 6. 64 <br> 4.68 | 6.68 5.13 | 6.68 |  | 7.19 5.33 | 7.40 5.68 | 6.95 5.25 |
|  | 4.14 | 4.10 3.35 | 4.19 3.08 | 4.40 3.02 | 4. 3 3.05 | 4.10 | 4.30 3.06 | 4.57 3.07 | 3. ${ }^{4.86}$ | 4.68 3.30 | 3. ${ }^{\text {3. }} 49$ | 5. 59 3.46 | 5. 3. 26 36 | 5.33 2.91 | 5.68 | - |
| Property and casualty insurance cos.......do.... | 3.25 | 2. 92 | 2.90 | 2.94 | 2. 70 | 2. 52 | 2.67 | 3.09 | 3.30 | 3.20 | 3. 56 | 3.71 | 3.82 | 3.60 | 3.69 | 3.20 |
| Earnings per share (indust., qtrly. at ann. rate; pub. util. and RR., for 12 mo. ending each qtr.): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 17.65 7.14 | 20.28 7.73 |  | 17.44 7.72 |  |  | 24.42 |  |  | 23.95 7.78 |  |  | ${ }^{\text {p }}$ + 27.15 | -...... |  |  |
|  | 3.93 | 6.71 |  | 5. 28 |  |  | 6. 71 |  |  | 7.17 |  |  | ${ }^{2} 7.10$ |  |  |  |

-Revised. Preliminary. ${ }^{1}$ End of year. New series; more detailed information
appears in the February 1972 Federal Recerve Bulletin.
© Includes data not shown separately. $\$$ Beginning Apri] 1971 SURver, data retated to include "other transporiation" in addificn to raiload day formerly shown.
$\sigma^{\prime}$ Number of bonds represented fluctuates; the change in the number does not affect the annies or the series.
〔Prices are derived from average yields on basis of an assumed 3 percent 20 -year bond.
$\odot$ For bonds due or callable in 10 years or more.

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

FINANCE-Continued

| SECURITY MARKETS-Continued Stocks-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dividend yields, preferred stocks, 10 high-grade (Standard \& Poor's Corp.). .percent. | 6.75 | 6.89 | 6.90 | 7.00 | 7.03 | 6.93 | 6.92 | 6.87 | 6.91 | 7.03 | 7.11 | 7.13 | 7.25 | 7.35 | 7.43 | 7.38 |
| Prices: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dow-Jones averages (65 st | 298.12 | ${ }^{319.36}$ | 315.22 | 310.15 | 321.92 | 322.19 | 332.15 | 325.94 | 308.40 | 300. 94 | 297.65 | 286. 34 | 274.32 | 275.35 | 267. 36 | 277.54 |
| Industrial (30 stocks) | 884.76 | 950.71 | 958.34 | 950.58 | 944. 10 | 1,001.19 | 1,020.32 | 1.026.82 | 974.04 | 957.35 | 944.10 | 922.41 | 893.90 | 903.61 | 883.73 | 909.98 |
| Public utility (15 stocks) | 117.22 | 112.83 | 109.07 | 109.76 | 113.06 | 121.33 | 121.47 | 118.06 | 113.08 | 109.52 | 108.02 | 107.38 | 105.34 | 101.38 | 95.72 | 99. 96 |
| Transportation (20 stocks) | 217.20 | 241.44 | 233.53 | 222.86 | 215.88 | 227.89 | 232.74 | 216. 58 | 202.04 | 194.60 | 194.22 | 175. 53 | 159.79 | 162.70 | 157.72 | 166. 82 |
| Standard \& Poor's Corporation: $0^{7}$ <br> Industrial, puhlic utility , and railroad: <br> Combined index ( 500 stocks) $\ldots .1941-43=10$. | 98.29 | 109, 20 | 111.01 | 109.39 | 109.56 | 115.05 | 117.50 | 118.42 | 114.16 | 112.42 | 110.27 | 107.22 | 104.75 | 105.83 | 103.80 | 105. 61 |
| Industrial, total (425 stocks) $\%$....... do | 108.35 | 121.79 | 124.35 | 122.33 | 122.39 | 128.29 | 131.08 | 132.55 | 127.87 | 126.05 | 123.56 | 119.95 | 117.20 | 118.65 | 116. 75 | 118.52 |
| Capital goods (116 stocks).-........do | 102.80 | 119.39 | 124.47 | 121.63 | 119.50 | 122.11 | 124.57 | 127.04 | 125.56 | 124.53 | 120.38 | 116.48 | 114.75 | 116.31 | 115.98 | 116. 60 |
| Consumers' goods (184 stocks).....do | 99.78 | 113.90 | 116.17 | 113.19 | 112.94 | 119.51 | 122. 26 | 122.57 | 117.54 | 116.41 | 111.24 | 107.44 | 104.83 | 105.94 | 104. 35 | 105. 16 |
| Public utilits ( 55 stocks).............do | 59.33 | 56.89 | 54. 66 | 55. 36 | 56. 66 | 61.16 | 61.73 | 60.01 | 57.52 | 55.94 | 55.34 | 55. 43 | 54.37 | 53.31 | 50.14 | 52.31 |
| Railroad (20 stocks)....-.............-do | 41.94 | 44.11 | 43.28 | 42.37 | 41. 20 | 42.41 | 44.62 | 42.87 | 40.61 | 39.29 | 35.88 | 36.14 | 34.35 | 35.22 | 33.76 | 35.49 |
| Banks: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New York City (9 stocks)....-.........do | 46.31 | 67.37 | 61.28 | 62.11 | 63.99 | 63.45 | 62.48 | 65.03 | 59.30 | 61.21 | 59.50 | 59.79 | 58.28 | 66.05 | 66.62 | 71.08 |
| Outside New York City (16 stocks)....do | 87.06 | 105.81 | 112.21 | 116.62 | 118.20 | 117.74 | 114.24 | 113.88 | 103.73 | 105.59 | 100.49 | 97.72 | 97.45 | 102.23 | 102.43 | 107. 24 |
| Property-liability insurance (16 stocks)...do. | 115.04 | 132. 58 | 131.71 | 129.86 | 133.04 | 149.68 | 144. 16 | 134.69 | 124.23 | 124.67 | 119.77 | 109.50 | 113.36 | 122.09 | 114.02 | 115.33 |
| New York Stock Exchange common stock indexes: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 54.22 | ${ }^{60 .} 29$ | ${ }^{61 .} 07$ | ${ }^{60.05}$ | 59. 99 | 62.99 | 64.26 | ${ }^{64.38}$ | 61.52 | 60.15 | 58.67 | 56.74 | 55.14 | 56.12 | 55. 33 | 56.71 |
|  | 57. 92 | ${ }^{65} .73$ | ${ }_{48} 67.25$ | 65.72 | 65.35 | 68. 29 | 69.96 | 70.55 | 67.67 | 66.20 | 64.41 | 62.22 | 60.52 | 61.53 | 31.09 | 62. 25 |
|  | 44.35 39.44 | 30.17 388 | 48.97 36.87 | 46. 49 | $\stackrel{44.95}{38.93}$ | 47.50 41.81 | 48. 44 | 41.72 | 42.34 39.95 | 40.92 39.13 | 40.57 38.97 | 36.66 39.01 | 33.72 37.95 | 34.22 <br> 37.68 | 33.48 35.40 | - $\begin{aligned} & \text { 35. } 82 \\ & 36.79\end{aligned}$ |
|  | 70.38 | 78.35 | 78.27 | 78.41 | 79.64 | 84.57 | 83.45 | 81.62 | 74.47 | 72.32 | 69.42 | 65.33 | 63.52 | 68.95 | 68.26 | 72. 23 |
| Sales: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total on all registered exchanges (SEC): <br> Market value |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 185,027 | $\begin{array}{r} 204,032 \\ 6,299 \end{array}$ | 17,596 525 | $\begin{array}{r} 12,183 \\ 367 \end{array}$ | -14,810 | 18,540 | $\begin{array}{r} 17,856 \\ 547 \end{array}$ | $\begin{array}{r} 18,926 \\ 665 \end{array}$ | $\begin{array}{r} 15,062 \\ 446 \end{array}$ | $\begin{array}{r} 16,486 \\ 519 \end{array}$ |  | 14,931 475 | $\begin{array}{r} 12,085 \\ 409 \end{array}$ | 11,399 | $\begin{array}{r} 12,659 \\ 424 \end{array}$ |  |
| On New York Stock Exchange: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ket value | 098 | , | 13,828 | 9,669 | 11,930 | 15,047 | 14, 473 | 15, 407 | 12, 323 | 13,449 | 10,591 | 12,343 | 9,852 | 9,717 | 342 |  |
| Shares sold (cleared or settled).......-millions.- <br> New York Stock Exchange: | 4,265 | 4,496 | 378 | 264 | 346 | 414 | 398 | 414 | 330 | 382 | 301 | 357 | 308 | 306 | 330 |  |
| Exclusive of odd-lot and stopped stock sales (sales effected) millions. | 3,891 | 4,138 | 357 | 246 | 317 | 406 | 345 | 394 | 318 | 342 | 278 | 337 | 269 | 308 | 271 | 329 |
| Shares listed, N.Y. Stock Exchange, end of period: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Market value, all listed shares............bll. \$- | 741.83 | 871.54 | 821.15 | 816.22 | 824.96 | 863. 52 | 871.54 | 854.13 | 816. 96 | 809.76 | 775.81 | 758.69 | 752.58 | 792.06 | 765.77 | 807.24 |
| Number of shares listed.-..-----------millions.- | 17, 500 | 19, 159 | 18,773 | 18,875 | 19,002 | 19,063 | 19,159 | 19,323 | 19,403 | 19,525 | 19,686 | 20,066 | 20,327 | 20,466 | 20,521 | 20,548 |

## FOREIGN TRADE OF THE UNITED STATES

| FOREIGN TRADE <br> Value of Exports <br> Exports (midse.), incl. reexports, total $\qquad$ mill. s.- | 44,129.9 | 49,788.2 | 3,979.8 | 4,006.6 | 4,508.5 | 4,613.5 | 4,722.7 | 4,789.1 | 4,900.6 | 5,975.7 | 5,595.8 | 6,064.0 | 5,896.9 | 5, 387.7 | 5, 810.4 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Excl. Dept. of Defense shipments.-...... do. | 43, 548.6 | 49,218.6 | 3,934.0 | 3,963.4 | 4,441.0 | 4,582.9 | 4,690.6 | 4, 747.2 | 4, 864.0 | 5,922.8 | 5, 560. 5 | 6,023.0 | 5, 858.4 | 5,321.6 | 5,778. 5 |  |
|  | 43, 548.6 | 4,218.6 | 4,196.5 | 4,176.4 | 4,316.3 | 4,472.9 | 4,558.0 | 4,977. 1 | 5, 064.6 | 5,379.5 | 5, 487.0 | 5,602.8 | 5,778.1 | 5,868.5 | 6,004.3 |  |
| By geographic regions: <br> Africa | , 69 | 572 | 134.1 | 111.5 | 146.6 |  |  |  |  |  | 167.4 | 200.4 | 232.0 | 171.3 | 172.2 |  |
| Asia | 1,855.3 | 11, 275.7 | 893.3 | 855.2 | I, 1416.8 | 1,072.5 | 1,130.6 | 1,161.1 | I, 216.8 | 1,536.9 | 1,417.7 | 1,444.2 | 1, 2344.2 | 1,466.3 | 1, 574.0 |  |
|  | 1,168. 4 | 1,034.9 | 104.3 | 83.9 | 1, 93.9 | 1,93.9 | 1,82.8 | 1, 128.5 | 1, 107.2 | 1,596.0 | 1, 109.3 | 1, 150.5 | 1, 134.0 | 1, 125.5 | 1, 158.1 |  |
|  | 14,562.3 | 16, 098.4 | 1,246. 5 | 1, 282. 7 | 1,407. 2 | 1,535.8 | 1,629.6 | 1,649.5 | 1, 705.5 | 2,132.3 | 1, 827.4 | 2, 022.5 | 1, 899.0 | 1, 729.6 | 1,825.8 |  |
| Northern North America---.------.-.... do | 10,367.4 | 12, 419.0 | 1,008.9 | 1,062.9 | 1,158. 3 | 1,138. 6 | 1,060.0 | 1,080.3 | 1,090.4 | 1,283.3 | 1,314. 1 | 1,422.1 | 1,334. 3 | 1, 049.3 | 1,080.9 |  |
| Southern North America | 3,154. 5 | 3, 564.2 | ${ }^{1} 298.1$ | 1,304.0 | ${ }^{1} 348.6$ | ${ }^{1}, 325.6$ | +327.0 | 1, 308.9 | 1, 324.2 | ${ }^{1} 383.8$ | 1,314.1 | 1, 415.9 | $1,331.3$ 410.5 | 1 +430.9 | 460.2 |  |
|  | 3,327. 7 | 3,711.4 | 306.3 | 308.1 | 337.7 | 296.1 | 353.0 | 303.9 | 307.5 | 352.2 | 356.8 | 353.6 | 375.2 | 「353.8 | 436.0 |  |
| By leading countries: <br> Alrica: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Egypt $\qquad$ do. <br> Republic of South Africa $\qquad$ do. | 62.9 622.3 | 76.1 597.1 | 12.1 64.0 | 4.4 48.6 | 3.0 70.1 | 8.8 50.9 | 2.9 53.9 | 7.4 61.3 | 12.5 55.1 | 29.9 52.5 | 12.7 57.6 | 26.2 56.5 | 34.4 60.3 | 20.7 59.8 | 13.2 60.8 |  |
| Asia; Australia and Oceania: <br> Australia, including New Guinea.......do. | 1,018. 3 | 857.0 | 90.3 | 69.2 | 75.3 | 76.1 | 67.5 | 86.7 | 89.2 | 80.3 | 90.5 | 130.2 | 108.6 | 107.6 | 135.2 |  |
|  | 1,048.1 | 350.0 | 20.8 | 20.9 | 21.0 | 25.3 | 27.6 | 23.8 | 28.7 | 39.4 | 35.1 | 31.4 | 35.5 | 37.3 | 49.7 |  |
|  | 211.4 | 183.0 | 15. 1 | 8.2 | 16.0 | 8.9 | 14.2 | 15.7 | 21.0 | 10.3 | 16. 6 | 16.0 | 15.7 | 24.9 | 9.1 |  |
|  | 71.5 | 128.0 | 16.9 | 21.0 | 18.7 | 8.5 | 9.1 | 8.1 | 11.7 | 11.2 | 8.6 | 12.8 | 10.4 | 12.3 | 14.3 |  |
| Indonesia_--....-.-.-.-.....................do | 263.0 | 307.6 | 11.3 | 21.5 | 21.1 | 24.0 | 44.0 | 46.3 | 34, 1 | 21.8 | 27.2 | 30.6 | 35.7 | 34.4 | 30.2 |  |
|  | 340.2 | 365.6 | 27.8 | 32.8 | 29.5 | 29.4 | 32.0 | 25.3 | 29.1 | 32.4 | 41.4 | 39.0 | 44.6 | 45.6 | 41.4 |  |
|  | 4, 054.8 | 4,941.2 | 405.3 | 378.5 | 463.7 | 488.5 | 511.6 | 547.8 | 565.3 | 771.7 | 657.5 | 697.9 | 706.2 | 621.9 | 747.8 |  |
| Europe: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1,373. 2 | 1,609.6 | 108.8 | 117.6 | 150.6 | 151.2 | 160.9 | 187.4 | 180.2 | 240.6 | 191.4 | 200.1 | 160.5 | 154.0 | 165.2 |  |
| West Germany..................................do | 2, 23.4 | 14.9 2811.2 | . 6 199.0 | 206. ${ }^{2}$ | 247.3 | 18.3 268 | 3.0 2720 | 24.3 | 2.4 |  | 2.0 306.9 | 1.2 293.6 |  | .8 280.9 | 11.0 308.4 |  |
|  | 2,831.1 | 2,811.2 | 199.0 | 206.9 | 247.3 | 262.9 | 272.0 | 246.5 | 259.1 | 314.0 | 306.9 | 293.6 | 322.1 | 280.9 | 308.4 |  |
| Italy | 1,313.9 | 1,425.2 | 93.3 | 105.2 | 100.9 | 129.4 | 138.9 | 129.6 | 143.3 | 183.5 | 188.7 | 172.6 | 225.3 | 182.3 | 166.9 |  |
| Union of Sovjet Socialist Republics....do | $160.9$ | 546.7 | 75.1 | 67.8 | 64. 0 | 56.1 | 101.4 | 98.3 | 99.8 | 111.6 | 103.1 | 137.7 | 142.9 | 103.8 | 97.3 267.9 |  |
| United Kingdom........................d.do. | 2,369.2 | 2,658.2 | 184.9 | 236.2 | 215.2 | 275.3 | 241.0 | 249.7 | 238.0 | 310.4 | 248.9 | 340.5 | 282.5 | 272.5 | 267.9 |  |
| North and South America: <br> Canada. | 10,365.4 | 415. 4 | 008.2 | 062.8 | 157.9 | 138.5 | , 060.0 | , 080.1 | , 090.1 | 1,283.2 | ,313.5 | 1,422.0 | 1,334. 1 | 1,049.1 | 1,080.8 |  |

- Revised. © Corrected
$\sigma^{7}$ Number of stocks represents number currently used; the change in number does not
affect continuity of the series.

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

## FOREIGN TRADE OF THE UNITED STATES-Continued

| FOREIGN TRADE-Continued Value of Exports-Continued <br> Exports (mdse.), incl. reexports-Continued By leading countries-Continued North and South America-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Latin American Republics, total 8 .-.- mil. \$ . | 5,666. 5 | 6, 471. 2 | 541.2 | 550.4 | 617.9 | 548.7 | 604.9 | 547.4 | 554.4 | 648.7 | 644.4 | 688.1 | 705.7 | 706.3 | 812.9 |  |
| Argentina.-.....-.-.................- do | 390.9 | 400.1 1.242 .9 | $\square 4.9$ 106.9 | 43.1 100.4 | 45.1 118.5 | 26.8 104.2 | 27.1 119.7 | 28.0 113.7 | 20.8 101.4 1 | 27.3 123.0 | 34.9 118.4 | 30.6 139.3 | 29.4 149.0 | 25.2 151.3 | 57.9 160.8 |  |
|  | 966.3 223.7 | 1, 242.9 | 106.9 15.0 | 100.4 12.1 | 118.5 15.5 | 104.2 9.6 | 119.7 14.4 | 113.7 14.0 | 101.4 14.1 | 123.0 15.4 | 118.4 15.6 | 139.3 11.2 | 149.0 19.4 | 151.3 10.2 | 160.8 15.2 |  |
| Colombia | 377.5 | 317.3 | 23.3 | 23.9 | 26.9 | 26.4 | 32.9 | 23.6 | 30.3 | 34.9 | 32.1 | 27.0 | 39.0 | 33.2 | 47.5 |  |
| Mexico | 1,620.0 | 1,982. 2 | 171.4 | 171.2 | 207.6 | 184.4 | 188.9 | 180.2 | 180.6 | 215.6 | 214.8 | 240.4 | 235.8 | 253.0 | 268.1 |  |
| Veneruel | 787.1 | 923.7 | 73.0 | 78.1 | 73.1 | 76.2 | 96.6 | 74.4 | 92.5 | 81.0 | 94.9 | 77.9 | 71.4 | 81.9 | 84.8 |  |
| Exports of U.S. merchandise, total............do | 43, 491. 8 | 48,978.6 | 3,909.5 | 3,936.6 | 4,447.2 | 4,527.2 | 4,649.2 | 4, 719.5 | 4, 831.1 | 5,878.7 | 5,491.8 | 5,967.7 | 5,793.4 | 5,305.9 | 5,706. 5 |  |
| Excluding military grant-aid....-------.-do | 42,910.5 | 48,419.1 | 3,863.9 | 3,893.4 | 4,379.7 | 4,496.6 | 4,617.1 | 4, 677.7 | 4, 794.5 | 5, 825.8 | 5,456. 4 | $5,926.7$ | 5,754.9 | 5,239.8 | 5,674.6 |  |
| Agricultural products, total....-............ do | 7,608. 0 | 9, 409.6 | 684.0 | 709.9 | 908.0 | 1, 079.9 | 1,110.8 | 1, 336.1 | 1,179.4 | 1,407.7 | 1, 26 +. 1 | 1,364.9 | 1,376.0 | 1,218.1 | 1,469.5 |  |
| Nonagricultural products, total..-------.-. do | 35,793.7 | 39, 466.6 | 3,236. 0 | 3,228. 1 | 3,540.9 | 3,447.2 | 3,540.9 | 3,583.5 | 3.651.7 | 4,471.0 | 4, 227.7 | 4,602.8 | 4, 417.4 | 4, 087.8 | 4, 236.9 |  |
| By commodity groups and principal commodities: <br> Food and live apimals $:$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 4, 366.6 | $5,660.8$ 252.0 | 469.3 18.7 | 517.2 19.6 | 550.6 29.9 | 615.7 23.9 | 658.0 23.1 | 688.6 21.7 | 669.4 26.2 | 802.3 48.4 | 767.9 45.6 | 834.7 45.1 | 949.6 38.5 | 901.9 27.5 | $1,207.5$ 32.4 |  |
| Grains and cereal preparations..........do | 2,449.1 | 3,505.0 | 318.4 | 333.6 | 337.4 | 384.8 | 441.4 | 476.7 | 455.5 | 531.1 | 510.0 | 565.1 | 660.3 | 660.5 | 920.2 |  |
| Beverages and tobacco...-.-...............do | 709.2 | 908.5 | 66.2 | 76.3 | 85.8 | 94.8 | 90.5 | 62.9 | 74.5 | 78.4 | 74.8 | 68.4 | 73.3 | 72.1 | 77.3 |  |
| Crude materials, inedible, exc. fuels $\%$.... do | 4,328.6 | 5,030.5 | 353.2 | 311.4 | 500.0 | 566.0 | 566.4 | 586.4 | 663.1 | 840.7 | 718.0 | 779.7 | 676.6 | 562.7 | 558.9 |  |
| Cotton, raw, ex cl. linters and waste...-do | 583.2 | 502.8 | 10.1 | 13.8 | 30.4 | 55.9 | 85.7 | 103.2 | 82.0 | 104.7 | 92.5 | 69.8 | 81.5 | 58.6 | 52.1 |  |
| Soybeans, exc. canned or prepared.....do | 1, 324, 8 | 1,507. 7 | 84.5 | 53.0 | 186.2 | 214.8 | 185.5 | 185.9 | 254.6 | 304.4 | 248.1 | 290.4 | 187.0 | 112.0 | 93.4 |  |
| Metal ores, concen trates, and scrap....do | 486.7 | 507.9 | 49.3 | 43.1 | 51.2 | 44.2 | 61.6 | 55.8 | 59.3 | 90.8 | 67.5 | 101.3 | 93.3 | 129.0 | 129.4 |  |
| Mineral fuels, lubricants, etc. $8 . . . . . . . . .$. do | 1,497. 4 | 1,552.5 | 157.2 | 130.3 | 137.1 | 146.9 | 127.4 | 105.3 | 106.7 | 121.2 | 142.0 | 141.0 | 137.8 | 132.3 | 153.6 |  |
| Coal and related products..........-.-. do | 950.7 | 1,019.1 | 113.9 | 89.1 | 91.1 | 95.3 | 67.5 | 62.0 | 55.5 | 71.4 | 95.1 | 95.9 | 91.1 | 81.3 | 102.8 |  |
| Petroleum and products.....-.-.----- do | 478.9 | 445.0 | 38.2 | 35.6 | 37.2 | 41.8 | 41.4 | 36.2 | 36.3 | 38.2 | 40.2 | 40.7 | 39.8 | 44.2 | 41.8 |  |
| Animal and vegetable oils, fats, waxes...-do | 615.2 | 508.0 | 38.3 | 36.3 | 35.2 | 47.8 | 35.9 | 44.0 | 44.8 | 61.0 | 38.0 | 54.4 | 58.9 | 59.9 | 60.2 |  |
| Chemicals......-----..---..................- ${ }^{\text {do }}$ | 3,836.0 | 4,132.9 | 349.1 | 335.9 | 392.9 | 331.9 | 386.0 | 403.8 | 384.7 | 441.8 | 443.6 | 460.0 | 475.8 | 468.0 | 516.6 |  |
| Manufactured goods $\%$...................-- do | 4,413.4 | 4,904.1 | 421.8 | 405.7 | 445.7 | 426.4 | 440.6 | 478.2 | 457.6 | 534.0 | 564.9 | 578.4 | 587.0 | 556.6 | 607.1 |  |
|  | 632.1 | 778.8 | 66. 2 | 64.9 | 74.2 | 72.0 | 75.5 | 78.3 | 71.6 | 85.9 | 91.8 | 94.2 | 96.4 | 89.0 | 94.9 |  |
| Iron and steel............................-d ${ }^{\text {do }}$ | 791.6 | 825.9 | 73.8 | 75.0 | 70.9 | 66.2 | 71.2 | 85.5 | 75.2 | 98.0 | 98.6 | 109.7 | 102.2 | 103.2 | 107.3 |  |
| Nonferrous base metals.................... do | 595.6 | 566.8 | 38.6 | 44.6 | 51.5 | 47.1 | 51.2 | 57.8 | 54.1 | 59.7 | 69.0 | 64.3 | 71.2 | 78.7 | 87.1 |  |
| Machinery and transport equipment, total mil. \$. | 19,459.8 | 21,532.7 | 1,673.8 | 1,739.7 | 1,885.9 | 1,904.1 | 1,937.2 | 1,956. 4 | 2,026.9 | 2,527.8 | 2, 250.0 | 2,569.7 | 2,317.7 | 2,050.3 | 2,067. 6 |  |
| Machinery, totalp.......................- do | 11,560.9 | 13, 244. 4 | 1,063.2 | 1,054. 6 | 1, 132.6 | 1,185. 2 | 1, 199.0 | 1, 222.6 | 1,223.0 | 1,444.5 | 1,360.9 | 1,474.2 | 1,428.8 | 1,383.2 | 1, 402.1 |  |
|  | 599.7 | 749.6 | 58.8 | 56.7 | 62.8 | 59.3 | 61.8 | 64.3 | 78.3 | 105.0 | 92.6 | 97.0 | 86.6 | 79.0 | 69.0 |  |
| Metalworking | 404.5 | 410.0 | 30.4 | 32.4 | 35. 6 | 30.6 | 44.4 | 42.1 | 31.4 | 32.5 | 37.2 | 37.0 | 35.8 | 38.7 | 39.2 |  |
| Construction, excav. and mining.---do | 1, 404.2 | 1,601. 1 | 130.2 | 119.3 | 124.1 | 148.1 | 130.4 | 135.0 | 151.0 | 180.7 | 176.3 | 179.8 | 182.9 | 169.1 | 178.2 |  |
| Electrical...............................-d | 3,066. 7 | 3,697.8 | 296.5 | 309.6 | 334.8 | 341.3 | 337.5 | 369.7 | 352.4 | 409.7 | 389.6 | 439.5 | 413.8 | 397.9 | 414.1 |  |
| Transport equipment, total...------ do | 7,899.0 | 8,296.6 | 610.8 | 675.1 | 754.8 | 721.8 | 738.2 | 733.8 | 803.9 | 1,083.4 | 889.1 | 1,095.5 | 889.0 | 667.1 | 665.4 |  |
| Motor vebicles and parts.........-.-.-. do | 4,157. 1 | 4,796. 4 | 357.4 | 433.2 | 474.2 | 448.5 | 426.7 | 455.8 | 477.5 | 551.0 | 527.8 | ${ }^{1} 543.6$ | 521.7 | 407.7 | 389.5 |  |
| Miscellaneous manufactured articles......do | 2, 734.1 | 3,189.7 | 264.7 | 263.3 | 282.8 | 264.9 | 276.3 | 275.1 | 270.8 | 325.7 | 324.3 | 334.7 | 345.4 | 308.9 | 331.0 |  |
| Commodities not classfified.....-.-.-......do. | 1,531.4 | 1,559.4 | 116.0 | 120.5 | 131.0 | 128.7 | 131.0 | 118.9 | 132.6 | 145.7 | 168.4 | 146.7 | 171.1 | 193.2 | 126.8 |  |
| Value of Imports |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 45,562.7 | 55,563.4 | 4,727.0 | 4,491.4 | 5,008.5 | 5,201.4 | 4,795.7 | 5,423.0 | 4, 944. 6 | 5,595. 6 | 5,347. 3 | 6, 032.0 | 5,900.8 | 5,651.8 | 5,997. 4 |  |
| Seasonally adjusted.-.-.-.....-.-...........d. do. |  |  | 4, 726.0 | 4,612.2 | 4,737.5 | 5,147.9 | 5,002.3 | 5, 280.9 | 5,540.8 | 5,432.1 | 5,290.7 | 5,760.7 | 5, 793.6 | 5,762.4 | 6,020.9 |  |
| By geographic regions: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1,236.3 |  | 137.8 | 1 124.5 | 165.5 | 141.4 | 164.7 | 155.4 | 182. 5 | 216. 4 | 184.2 | 226. 3 | 187.5 | ${ }^{201.2}$ | 245.9 |  |
|  | 11,774.5 | 15, 111.5 | 1,488.6 | 1,339.8 | 1,398.7 | 1,404. 1 | 1,247. 6 | 1,364.3 | 1,245. 0 | 1,413.3 | 1,352. 4 | 1, 515.7 | 1,549.1 | 1,567.0 | 1,789.0 |  |
| Australia and Oceanla --.................- do | 894.9 | 1, 145.4 | 127.8 | 128.0 | 123.4 | 101.0 | 83.4 | 101. 2 | 90.1 | 190.1 | 108.5 | 120.3 | 123.0 | 124.0 | 175.0 |  |
|  | 12,881.1 | 15, 740.3 | 1,341.6 | 1, 122.0 | 1,355.3 | 1,491.7 | 1,366. 4 | 1,555.3 | 1,405.2 | 1,587.9 | 1, 529.7 | 1,723.2 | 1,628.9 | 1,668.8 | 1,769.1 |  |
| Northern North Arıerica......-......-.-- do | 12,695.4 | 14,915.3 | 1, 027.3 | 1,206. 1 | 1,372.9 | 1,456.8 | 1, 302. 4 | 1. 477.9 | 1.337 .8 | 1,546.9 | 1, 443.4 | 1,667. 1 | 1,673.7 | 1,395.7 | 1,177.7 |  |
| Southern North America.-.-...---.-...- do. | 3.000. 5 | 3, 536.3 | 308.7 | 248. 7 | 287.7 | 305.5 | 310.4 | 368.4 | 277.7 | 411.6 | 428.3 | r 419.2 | 418.4 | - 366.0 | 452.6 |  |
|  | 3,033.7 | 3,460.0 | 292.0 | 312.5 | 299.6 | 283.9 | 314.3 | 393.4 | 301.8 | 324.3 | 297.4 | 356.4 | 316.0 | - 324.0 | 386.3 |  |
| By leading countries: Africa: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Egypt_-......-.........................- ${ }^{\text {do }}$ | 19.1 | 16.9 | 1.9 | 1.3 | 1.1 | 1.6 | 1.6 | 3.7 | . 5 | 1.2 | 2.6 | 1.4 | 2.2 | 1.0 | 4.9 |  |
| Republic of South Africa....-.-.-.-.-.-. do...- | 286.5 | 324.7 | 26.4 | 26.7 | 33.9 | 26.5 | 23.1 | 25.2 | 37.2 | 30.1 | 32.3 | 31.7 | 28.4 | 38.5 | 27.0 |  |
| Asia; Australia and Oceania: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Australia, including New Guinea..... do. | 636.1 | 819.9 | 92.0 | 91.3 | 89.1 | 79.9 | 61.9 | 72.3 | 62.3 | 61.9 | 70.7 | 76.9 | 82.5 | 84.0 | 123.8 |  |
|  | 329.1 77.1 | 426.6 40.2 | 27.3 5.1 | 30.2 2.2 | 27.3 2.5 | 34.0 2.3 | 29.1 2.6 | 35. ${ }^{3} \mathbf{3}$ | 29.0 3.3 | 38.4 3.6 | 29.7 2.5 | 35.9 2 | 39.2 | 33.1 3.4 | 40.8 4.2 |  |
|  | 269.0 | 301.2 | 21.5 | 17.6 | 33.9 | 24.9 | 21.8 | 23.3 | 23.6 | 30.9 | 25.4 | 40.7 | 40.0 | 38.5 | 38.0 |  |
| Indonesia | 207.2 | 277.8 | 26.1 | 29.5 | 28.2 | 24.2 | 26.1 | 29.4 | 25.0 | 34.2 | 30.1 | 43.8 | 48.4 | 32.5 | 51.4 |  |
| Philippines---...--....................--- do | 455.6 | 483.5 | 50.8 | 52.7 | 34.9 | 41.5 | 56.0 | 35.0 | 31.3 | 50.3 | 44.6 | 56.1 | 55.0 | 80.9 | 75.6 |  |
|  | 7,258.8 | 9,064.3 | 911.1 | 805.5 | 819.0 | 863.9 | 724.6 | 800.8 | 708.7 | 792.2 | 779.9 | 812.6 | 810.9 | 821.1 | 944.1 |  |
| Europe: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1,087.7 | 1,368.5 | 132.5 | 94.3 | 113.8 | 127.1 | 121.6 | 138.1 | 123.1 | 128.3 | 140.9 | 153.3 | 145.7 | 162.3 | 168.7 |  |
| East Germany.-.-.-.-.-------------- do | 10.1 | 10.3 | . 9 |  |  | 1.0 |  | . 9 | . 5 | 436. ${ }^{7}$ | 1.6 | 1.1 | 1.2 | 1.1 |  |  |
| West Germany------.-.-...............- do | 3,650. 5 | 4, 248.7 | 380.6 | 282.0 | 364.5 | 380.9 | 357.5 | 421.2 | 379.7 | 436.8 | 415.3 | 482.8 | 460.1 | 470.9 |  |  |
| Union of Soviet Socialist Republics.... do | 1,405.7 | $1,755.8$ 95.4 | 173.1 9.7 | 134.6 14.0 | 124.4 9.5 | 156.2 11.1 | 147.9 12.8 | 170.2 18.4 | 162.6 12.5 | 167.0 15.5 | 138.9 17.8 | 156.6 10.9 | 166.8 11.4 | 166.7 12.5 | 208.2 18.7 |  |
| United Kingdom........--.............do... | 2,498. 5 | 195.4 $2,985.9$ | 9.7 208.2 | 197.1 | 9.5 271.8 | 11.1 319.0 | $\underline{ } 264.8$ | 18.4 296.4 | 12.5 266.6 | 1592.6 | 17.8 288.6 | 10.9 317.0 | 11.4 298.5 | 12.5 300.1 | 343.0 |  |
| North and South America: <br> Canada | 12,691.5 | 14,908, 9 | 1,025.8 | 1,205. 6 | 1,372.3 | 1,456. 5 | 1,301.8 | 1,477.8 | 1,337.8 | 1,546.1 | 1,443.4 | 1,666. 4 | 1,672.8 | 1,394. 5 | 1,176.1 |  |
| Latin American Republies, total \& .....-do | 4,881.0 | $5,772.1$ | 482.9 | 473.6 | 488.9 | 486.1 | 521.1 | 615.8 | 562.5 | 608.9 | 604.1 | 644.4 | 604.9 | 569.8 | 671.8 |  |
|  | 175.8 | 201.4 | 16.1 | 16.8 | 17.1 | 16.3 | 21.3 | 24.4 | 16.9 | 15.5 | 23.6 | 18.6 | 17.9 | 22.4 | 24.9 |  |
| Brazil | 761.7 | 941.6 | 76.5 | 108.2 | 85.2 | 78.9 | 70.6 | 131.2 | 80.5 | 85.3 | 74.2 | 102.7 | 94.5 | 77.2 | 99.0 |  |
|  | 90.9 | 82.9 | 10.1 | 6.3 | 7.1 | 6.8 | 5.3 | 13.3 | 12.4 | 5.4 | 6.5 | 4.9 | 2.9 | 1.0 | 1.5 |  |
|  | 239.2 | 284.1 | 30.7 | 17.0 | 26.1 | 23.2 | 27.9 | 35.1 | 24.9 | 30.1 | 33.6 | 38.7 | 32.8 | 34.7 | 21.9 |  |
|  | 1,261.6 | 1,631.6 | 126.6 | 114.6 | 125. 2 | 146.6 | 149.4 | 161.7 | 170.5 | 196.8 | 193.2 | 189.5 | 206.6 | 170.8 | 198.0 |  |
|  | 1,215.9 | 1,297. 5 | 104.1 | 108.6 | 101.9 | 108.8 | 134.4 | 130.6 | 109.2 | 130.8 | 107.8 | 126.8 | 121.9 | 128.5 | 169.8 |  |
| By commodity groups and principal commodities: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Agricultural products.total...............mil. \$.. | 5, 765.5 | 6,504.9 | 556.1 | 545.4 | 580.3 | 554.1 | 564.3 | 659.7 | 618.1 | 666.0 | 709.4 | 787.8 | 670.1 | 641.8 | 725.4 |  |
| Nonagricultural products, total.---.-......d. do..-- | 39,797.3 | 49, 050.4 | 4, 171.2 | 3,939.4 | 4, 426.7 | 4, 635.7 | 4, 230.7 | 4, 763.3 | 4, 326.5 | 4,929.6 | 14,637.8 | 5,244.2 | 15,230.7 | 5,010.0 | 5,272.0 |  |
| - Revised. $\%$ Includes data not shown separa |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Unless other wise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

FOREIGN TRADE OF THE UNITED STATES—Continued

| FOREIGN TRADE-Continued <br> Value of Imports-Continued <br> Qeneral imports-Continued <br> By commodity groups and principal commodities: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Food and live animals $\bigcirc$ | 5,528.6 | 6,369.9 | 576.2 | 555.1 | 585.1 | 545.1 | 539.4 | 616.7 | 568.4 | 630.1 | 658.2 | 732.7 | 627.1 | 598.9 | 696.9 |  |
|  | 181.3 | 150.7 | 7.6 | 4.0 | 8.0 | 6.8 | 23.6 | 25.7 | 24.1 | 20.1 | 21.6 | 24.0 | 15.5 | 14.4 | 10.1 |  |
|  | 1,166. 6 | 1,181.7 | 111.7 | 130.1 | 128.8 | 103.5 | 83.7 | 132.9 | 121.5 | 141.1 | 145.2 | 180.1 | 126.1 | 117.0 | 127.6 |  |
|  | 1,050.1 | 1,222.8 | 128.4 | 1254 | 127.0 | 111.9 | 89.6 | 108.8 | 99.7 | 96.6 | 119.8 | 135.9 | 120.8 | 125.7 | 175.1 |  |
|  | 763.6 | 824.1 | 91.0 | 64.4 | 62.0 | 52.4 | 62.7 | 71.9 | 48.9 | 72.1 | 80.3 | 85.5 | 69.3 | 75.5 | 100.5 |  |
|  | 875.5 | 1,009.5 | 55.7 | 72.4 | 107.1 | 117.3 | 99.3 | 109.2 | 76.3 | 83.5 | 98.9 | 102.5 | 97.3 | 94.4 | 91.2 |  |
| Crude materials, inedible, exc. fuels $\%$....do | 3,382.0 | 3,859.8 | 316.9 | 334.9 | 347.3 | 383.1 | 324.9 | 388.5 | 341.2 | 383.8 | 398.3 | 444.3 | 453.1 | 431.3 | 408. 7 |  |
|  | 1,043.9 | 1,021.6 | 90.3 | 85.6 | 87.8 | 112.5 | 88.5 | 84.4 | 62.6 | 69.8 | 92.7 | 103. 6 | 121.9 | 128.4 | 128.5 |  |
|  | 502.3 | 509.9 | 41.4 | 43.4 | 45.9 | 49.0 | 38.5 | 56.7 | 48.1 | 52.2 | 50.0 | 57.5 | 51.9 | 55.3 | 45.0 |  |
|  | 158.4 | 195.9 | 19.6 | 14.6 | 15.7 | 16.9 | 14.9 | 21.9 | 21.0 | 21.8 | 19.2 | 23.2 | 21.0 | 22.1 | 20.6 |  |
|  | 216.0 | 196.2 | 16.4 | 14.3 | 18.0 | 17.6 | 18.3 | 19.5 | 18.0 | 23.3 | 20.0 | 27.0 | 29.2 | 22.3 | 38.9 |  |
| Mineral fuels, lubricants, ete...---.-.-.- do. | 3,714.8 | 4,798.9 | 400.2 | 409.3 | 412.4 | 417.0 | 475.7 | 532.7 | 494.9 | 595.1 | 502.2 | 609.4 | 604.3 | 554.9 | 776.4 |  |
| Petroleum and products..-..........-.-. do. | 3,323.3 | 4,299.6 | 365.8 | 366.7 | 371.0 | 374.4 | 431.1 | 488.1 | 452.4 | 553.7 | 463.2 | 565.2 | 566.7 | 515.5 | 728.8 |  |
| Animal and vegetable olls and fats.......do | 171.6 | 179.6 | 11.1 | 11.5 | 15.5 | 10.1 | 21.7 | 8.8 | 16.8 | 14.7 | 13.6 | 15.8 | 19.8 | 18.9 | 23.5 |  |
| Chemicals.-.--------------------------- do | 1,612.3 | 2,014. 8 | 168.1 | 159.0 | 165.8 | 177.4 | 166.4 | 189.1 | 190.2 | 202.7 | 221.9 | 213.1 | 208.7 | 185.8 | 206.2 |  |
|  | 9,545. 8 | 11,421.5 | 994.1 | 939.7 | 1,086.4 | 1,072.5 | 968.4 | 1,107.8 | 983.8 | 1,078.2 | 992.8 | 1, 178.7 | 1,114.0 | 1, 192.7 | 1,135.2 |  |
|  | 2,725.2 | 2,926. 4 | 291.9 | 263.1 | 1,08.9 | 303.8 | 286.6 | 1, 240.7 | 232.0 | 1, 220.1 | 204.4 | 1, 296.2 | 1, 243.5 | 279.5 | 1,135. 27 |  |
|  | 1988. 5 | 1,053.9 | 83.3 | 87.0 | 96.5 | 96.4 | 87.9 | 110.6 | 90.6 | 107.3 | 100.5 | 104.8 | 109.4 | 97.4 | 80.9 |  |
| Nonferrous metals .------------------- ${ }^{\text {do. }}$ | 1,551.6 | 1,933.2 | 141.3 | 151.2 | 173.0 | 179.8 | 161.5 | 224.7 | 178.2 | 199.5 | 159.1 | 186.2 | 178.9 | 211.2 | 188.8 |  |
| Textiles----------------------------- - | 1,391.2 | 1,528.4 | 140.2 | 116.3 | 125.8 | 141.5 | 114.4 | 144.2 | 124.1 | 143.5 | 133.5 | 137.8 | 128.3 | 128.9 | 136.5 |  |
| Machinery and transport equipment....-do | 13,873.2 | 17,400.6 | 1,370.6 | 1,273.8 | 1,523.6 | 1,713.6 | 1,492.3 | 1,675.9 | 1,560.0 | 1,813.0 | 1,710.1 | 1,954. 3 | 1,918.2 | 1,700. 7 | 1,683.7 |  |
|  | 5,967.8 | 7,786.9 | 667.1 | 613.1 | 687.4 | 737.5 | 647.4 | 698.4 | 702.0 | 812.3 | 806.8 | 853.8 | 865.0 | 855.3 | 907.2 |  |
|  | 106.8 | 1140.4 | 12.0 | 9.0 | 11.4 | 17.4 | 12.8 | 14.4 | 11.8 | 13.3 | 10.9 | 16.5 | 14.5 | 17.3 387.0 | 19.1 |  |
|  | 2,555. 1 | 3,375.4 | 315. 8 | 299.1 | 331.4 | 332.0 | 284.6 | 275.0 | 317.0 | 363.8 | 344.4 | 377.4 | 391.2 | 387.0 | 421.6 |  |
| Transport equipment.-.------------- ${ }^{\text {do }}$ | 7,905. 5 | 9,613. 2 | 703.4 | 652.0 | 836.0 | 965.2 | 844.5 | 977.5 | 858.0 | 1,000. 6 | 903.3 | 1, 100. 5 | 1,053. 2 | 845.4 | 776. 5 |  |
| Automobiles and parts....-.-.-.-.......do. | 6,776. 4 | 7,945.9 | 552.8 | 527.8 | 699.6 | 797.7 | 697.3 | 805.0 | 715.8 | 1841.0 | 748.3 | 941.7 | 896.2 | 706.7 | 608.3 |  |
| Niscellancous manufactured articles | 5,372.9 | 6,910.6 | 698.8 | 603.0 | 618.2 | 621.4 | 563.0 | 631.5 | 584.2 | 643.2 | 609.8 | 649.7 | 697.1 | 720.4 | 820.0 |  |
| Commodities not classified . . . . . . .-. .-. - do | 1,475.6 | 1,598.0 | 135.6 | 132.7 | 147.1 | 143.9 | 144.6 | 162.8 | 128.7 | 151.3 | 141.4 | 131.6 | 160.9 | 153.8 | 155.7 |  |
| Indexes Exports (U.S. mdse., excl. military grant-aid): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 114.4 | 117.6 | 116.7 | 118.0 | 118.4 | 122.8 | 122.6 | 123.5 | 126.8 | 127.2 | 128.4 | 132.4 | 134.5 | 137.6 |  |  |
|  | 122.4 | 134.3 | 130.0 | 129.2 | 145.0 | 143.3 | 144.6 | 147.5 | 148.0 | 179.3 | 166.3 | 175.3 | 167.5 | 149.1 |  |  |
|  | 140.0 | 158.0 | 151.7 | 152.5 | 171.6 | 176. 1 | 177.3 | 182.1 | 187.7 | 228.0 | 213.6 | 232.1 | 225.3 | 205.2 |  |  |
| General imports: Unit value.-..............................do |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 117.4 | 126.1 | 127.3 165.8 | 128.3 156.0 | 129.8 | 130.4 | 130.3 | 133.3 | 134.3 | 137.5 | $145.1$ | 146.9 | $147.8$ | $150.3$ |  |  |
|  | 144.5 169.6 | 163.8 206.6 | 165.8 211.0 | 156.0 200.1 | 172.1 | 177.5 231.6 | 164.3 214.0 | 181.5 242.0 | 164.3 220.7 | 181.6 249.7 | 164.5 238.6 | 183.3 269.2 | 178.2 263.3 | 167.8 252.2 |  |  |
| Shipping Weight and Value |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Waterborne trade: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exports (incl. reexports): <br> Shipping weight-..--.-........thous. sh. tons. | 204, 132 |  |  | 20,432 | 21,680 |  |  |  |  |  |  |  |  |  |  |  |
|  | 22,610 | 25, 520 | 2,088 | 2,025 | 2,338 | 2, 2,449 | 2,531 | 19,814 2,600 | 18,865 2,633 | 22,144 | 2,946 | - 3,177 |  |  |  |  |
| General imports: <br> Shipping weight thous. sh. tons.- | $313,167$ | 350,845 | 31,753 | 28,377 |  | 22.531 | 2,531 33,428 | 2,000 | 2,033 29,981 | 3,144 34,408 | 31,522 | 38,259 |  |  |  |  |
|  | $\begin{array}{r} 11,1,104 \\ 26,993 \end{array}$ | 350,84 33,617 | 31,753 3,154 | 28,377 2,825 | 30,923 3,107 | 32.531 3.076 | 33,428 2,853 | 33,411 3,207 | 29,981 $\mathbf{2 , 9 1 9}$ | $\begin{array}{r} 34,408 \\ 3,319 \end{array}$ | $\begin{array}{r} 31,522 \\ 3,171 \end{array}$ | 38,259 3,680 |  |  |  |  |

## TRANSPORTATION AND COMMUNICATION

| TRANSPORTATION |  |
| :---: | :---: |
| Alr Carriers (Scheduled Service) |  |
| Certificated route carriers: |  |
| Passenger miles (revenue) --.---...-.-...... bil--Passenger-load factors) |  |
|  |  |
|  |  |
| erating revenues $¢ \odot$ |  |
| Passenger revenues.-...-..........-....-do. |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Domestic operations: |  |
| Passenger-miles (revenue) |  |
|  |  |
| Mail ton-miles...-----.----...............din...- |  |
|  <br> Operating expenses© $\qquad$ .do <br> Net income after tares $\odot$ do. |  |
|  |  |
|  |  |
| International and territorial operations: <br> Passenger-miles (revenue) <br> Express and freight ton-miles. $\qquad$ .bil. $\qquad$ mil-Mail ton-miles |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Local Transit Lines |  |
| Passengers carried (revenne). |  |
|  |  |

[^39]*Applies to passengers, baggage, cargo, and mall carried.

§Passenger-miles as a percent of available seat-miles in revenue service; reflects proportion
of seating capacity actually sold and utilized. OTotal revenues, expenses. and income for all groups of carriers also reflect nonscheduled service.

| Unless otherwise stated in footnotes below, data throurh 1970 and descriptive noteB are as shownin the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

## TRANSPORTATION AND COMMUNICATION-Continued

| TRANSPORTATION-Continued Motor Carriens (Intercity) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Carriers of property, class I: $\Delta$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 11,475 12,693 | 1 1,475 14,270 |  |  |  |  | 1,475 8 7 |  |  | $\begin{array}{r}94 \\ 2007 \\ \hline\end{array}$ |  | $\begin{array}{r}94 \\ 1,824 \\ \hline\end{array}$ | 94 2,109 |  |  |  |
|  | 11,907 | 13,434 |  |  |  |  | 8 6.766 |  | 101147 | 2,007 |  | 10869 | 2, 1064 |  |  |  |
| Freight carried (revenue) ------....-.-.-mil. tons.- | 596 | 642 |  |  |  |  | ${ }^{8} 321$ |  | ${ }^{11} 39$ | 44 |  | ${ }^{6} 42$ | 47 |  |  |  |
| Frelght carried, volume inderes, class I and II (ATA): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Common and contract carriers of property (qtrly.) $\sigma^{7}$........average same perlod, $1967=100 .$. | 119.0 | 128.0 |  | 129.0 |  |  | 124.0 |  |  | 140.0 |  |  |  |  |  |  |
| Common carriers of general frelght, seas. adj. $1967=100$ | 124.5 | 136.4 | 134.4 | 137.6 | 144.9 | 150.2 | 154.8 | 153.1 | 160.1 | 166.0 | 162.5 | 163.4 | 162.2 | 159.6 |  |  |
|  | 172 759.9 | $\begin{array}{r}1 \\ 768.1 \\ \hline\end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 665.4 | 682.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Passengers carried (revenue) | 166.7 | 156.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Class I Railroads |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Financlal operations, qtrly. (AAR): <br> Operating revenues, total o |  | ${ }^{7} 13,411$ |  | 73,302 |  |  |  |  |  | 7 3, 523 |  |  |  |  |  |  |
|  | 12,697 11,793 | 12, 1271 |  | 7,302 3,088 |  |  | 73,475 3,255 |  |  | 3,305 |  |  | - 3,484 |  |  |  |
|  | ${ }^{7} 294$ | 7257 |  | ${ }^{7} 66$ |  |  | 760 |  |  | ${ }^{7} 59$ |  |  |  |  |  |  |
|  | 10,058 | 10,550 |  | 2,616 |  | -..--... | 2,716 |  |  | 2,761 |  |  | 2,925 |  |  |  |
|  | 1,939 | 2, 026 |  | 508 |  |  | 509 |  |  | 562 |  |  | 592 |  |  |  |
| Net railway operating income....-....-...... do.... | 700 | . 835 |  | 178 |  |  | 250 |  |  | 200 |  |  | 211 |  |  |  |
|  | - 351 | - 500 |  | 188 |  |  | -184 |  |  | - 119 |  |  | 6151 |  |  |  |
| Traffic: <br> Ton-miles of frelght (net), revenue and nonrev. enue. $\qquad$ | 752.2 | 800.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Revenue ton-miles, qtrly. (AAR)........do.... | 739.7 | 780.7 |  | 190.4 |  | -........ | 204.4 |  |  | 204.1 |  |  | 213.0 | 260.8 | ${ }^{2} 64.8$ | 283.1 |
| Revenue per ton-mile....-.-...-.........cents | 1.594 | 1.616 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Passengers (revenue) carried 1 mile..--.-.---mil. | 8,901 | 8,560 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Travel |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hotels and motor-hotels: § |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A verage sale per occupled room.....--... dollars.- | 18. 74 | 19. 21 | 19.83 | 19.54 | 20.43 | 19.38 | 18.88 | 19.52 | 19.85 | 20.32 | 20.06 | 20.53 | 20.39 68 | 20.25 | 20.93 70 |  |
| Rooms occupted ..--....-.-.-...-.....-\% of total.- | 60 | ${ }_{6}^{62}$ | 68 | 64 | 71 | 60 | 48 | 57 | 60 | 65 143 | 67 | 69 | 68 | 65 130 | 128 |  |
| Restaurant sales index...same mo. 1951 $=100$. | 114 | 123 | 117 | 125 | 125 | 111 | 122 | 105 | 118 | 143 | 129 | 153 | 143 | 130 | 128 |  |
| Foreign travel: <br> U.S. citizens: Arrivals <br> thous | 7,591 | 49,068 | 1,130 | 844 | 771 | 664 | 543 | 663 | 589 | 713 | 780 | 775 | 790 |  |  |  |
|  | 7,059 | 4, 8, 312 | - 856 | 736 | 625 | 542 | 606 | 548 | 583 | 686 | 746 | 787 | 941 |  |  |  |
|  | 4,325 | 48, 193 | 586 | 542 | 434 | 368 | 407 | 452 | 346 | 426 | 451 | 427 | 474 |  |  |  |
|  | 3,567 | 64,310 | 539 | 416 | 383 | 324 | 382 | 342 | 272 | 343 | 359 | 376 | 418 |  |  |  |
|  | 2,399 | 2, 728 | 235 | 174 | 140 | 132 | 119 | 183 | 230 | 322 | 345 | 335 | 306 | 255 | 213 | 152 |
|  | 48,863 | 54,087 | 10,293 | 5,651 | 3,896 | 2,055 | 1,716 | 1,656 | 1,848 | 2,252 | 3,356 | 4,826 | 7,618 | 10,030 | 10,296 |  |
| COMMUNICATION (QTRLY.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Telephone carriers (63 carriers except as noted): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 20,410 9 | 23,079 | 9 8,155 0 8 | 5,854 |  | $35,297$ | 6,033 | ------- | $\square$ | 126,214 129285 | ---..... |  |  |  |  |  |
|  | 9,970 | 11, 261 | $\bigcirc{ }^{9} 2,513$ | 2, 860 |  | $32,593$ | 2,923 |  | ......... | $\begin{aligned} & 122,985 \\ & 12 ?, 467 \end{aligned}$ | -------- |  |  |  |  |  |
| Tolls, message...-...---..-...-.-.-.-. do | 7,945 13,253 | 18,984 | ${ }^{9} 2.012$ | 2, 264 |  | $32,032$ | 2,371 |  |  | 12 2, 467 <br> 123,928 |  |  |  |  |  |  |
| Operating expenses (excluding taxes) ........do | 13,253 | 14, 869 | ${ }^{\circ} 3.415$ | 3,754 |  | 3 3, 504 | 3,867 |  |  | $123,928$ |  |  |  |  |  |  |
| Net operating income (after taxes)......... do.-.- | 3,487 | 4,032 | -842 | 1,033 |  | ${ }^{3} 906$ | 1, 088 |  |  | 121,108 |  |  |  |  |  |  |
| Phones in service, end of period...............mil. | 111.6 | 117.3 | ${ }^{\circ} 110.3$ | 115.7 |  | 1111.6 | 117.3 |  |  | 12119.1 |  |  |  |  |  |  |
| Telegraph carriers: Domestic: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 396.8 | 428.7 |  | 102.6 |  |  | 108.1 |  |  | 110.8 |  |  | 113.7 |  |  |  |
|  | 337.0 | 349.7 |  | 89.0 |  |  | 81.3 |  |  | 90.4 |  |  | 93.4 |  |  |  |
| Net operating revenues (before taxes)...do.... | 31.7 | 62.1 |  | 8.0 |  |  | 18.5 |  |  | 12.0 |  |  | 15.7 | ------- |  |  |
| International: <br> Operating revenues do | 206.0 | 226.0 |  | 56.0 |  |  | 58.5 |  |  | 61.2 |  |  | 63.8 |  |  |  |
|  | 150.8 | 163.7 |  | 40.4 |  |  | 44.1 |  |  | 43.5 |  |  | 44.2 |  |  |  |
| Net operating revenues (before taxes) .--do...- | 44.3 | 49.4 |  | 12.5 |  |  | 11.0 |  |  | 14.3 |  |  | 16.2 |  |  |  |

## CHEMICALS AND ALLIED PRODUCTS



| 12,349 | 11,568 | 961 | 912 | 984 |
| :---: | :---: | :---: | :---: | :---: |
| 14, 029 | 14,302 | 1,223 | 1, 133 | 1,167 |
| 1,344 | 1,481 | 140 | 132 | 128 |
| 9,352 | 9, 869 | 857 | 809 | 851 |
| 2, 099 | 42,201 | 190 | 179 | 194 |
| 6,742 | 7,022 | 524 | 552 | 608 |
| 319,171 | 353,190 | 29,064 | 29,269 | 31,796 |
| 6,240 | 6,263 | 507 | 512 | 557 |
| 4,275 | 4,301 | 380 | 331 | 376 |
| 138 | 137 | 13 | 11 | 12 |
| 9,667 | 10,263 | 892 | 840 | 886 |
| 628 | 663 | 49 | 55 | 65 |
| 1,356 | 1,358 | 109 | 109 | 117 |
| - 29,035 | - 31,300 | - 2,667 | -2,509 | -2,672 |

[^40]hauled refers to common and contract services. $\sigma^{2}$ 'idexes are comparable for the (AMTRAK) 1972 operations (not included in AAR data above), mil. dol.: Passenger revenues, 138.2; expenses, 286.3; net income, -147.5 (ICC). OIncludes data not shown separately. $\ddagger$ Fevised monthly data back to 1969 will be shown later. $\bigcirc$ Not comparable with data in 1971 BUSINESS STATISTICS. Corrected.
§Effective Jan. 1972, data reflect an expanded sample that includes many motor-hotels.
IData include visits, effective Jan. 1972, to Arches and Capitol Reef National Parks, and effective July 1973 to Voyageurs Natl. Park.

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as ahown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

## CHEMICALS AND ALLIED PRODUCTS—Continued

| CHEMICALS-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Oranice chemicals, production: $0^{\circ} \oplus$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ${ }^{1,545.8} 8$ | 1, 134.6 | 124.2 2.5 | 3.0 | 2.9 | ${ }_{20} 2.1$ | 2.3 | 3.0 | 2.8 | 3.0 | 2.4 | 2.4 | 3.0 | 2.5 | 2.4 |  |
|  | 119.2 | 119.1 | 11.3 | 9.8 | 11.0 | 8.9 | 8.7 | 7.8 | 11.4 | 10.7 | 8.9 | 9.1 | 8.7 | 8.5 | 9.1 |  |
| Ethyl acetate (85\%) - | 1159.8 | 1217.2 | 21.3 | 19.6 | 19.8 | 18.4 | 20.3 | 18.1 | 14.7 | 23.8 | 24.5 | 17.1 | 18.7 | + 15.0 | 21.3 |  |
| Formahdehyde (37\% HCHO) -.........---- do.... | 14,373.1 | 15,500.0 | 519.8 | 430.8 | 458.8 | 458.5 | 450.0 |  | 465.7 | 519.2 | 527.7 | 511.3 | 524.5 | -506.9 | 528.4 |  |
| Glvcerin, refined. all grades: <br> Production. $\qquad$ do | 339.8 | 353.0 | 32.1 | 29.1 | 30.8 | 25.7 | 30.9 | 31.5 | 28.1 | 30.8 | 29.5 | 29.8 | 30.0 | r29.9 | 31.4 |  |
|  | 28.2 | 25.6 | 26.1 | 0.1 | 24.5 | 24.3 | 25.6 | 24.7 | 23.8 | 21.6 | 22.6 | 17.1 | 15.0 | +18.2 | 15.6 |  |
| Methanol synthetic......................mil. gal.- | 1754.7 | 1897.0 | 85.3 | 81.0 | 64.7 | 87.5 | 84.4 | 83.5 | 79.4 | 93.1 | 88.7 | 79.7 | 94.3 | 85.6 | 94.5 |  |
| Phthalic anhydride...........................-mil. ib.- | 1766.4 | ${ }^{1} 936.0$ | 74.2 | 73.6 | 75.5 | 71.2 | 77.7 | 75.5 | 71.4 | 89.8 | 81.9 | 91.6 | 87.3 | 80.1 | 92.2 |  |
| ALCOHOL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ethyl alcohol and spirits: $\ddagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production--.-.---..............-mil. tax gal... | 552.9 132.8 | 621.4 76.9 | 57.7 98.9 | 64.0 103.8 | 59.3 105.4 | 51.5 96.2 | 63.4 76.9 | 57.1 95.9 | 52.5 90.7 | ${ }_{87.8}^{57.1}$ | 68.4 97.6 | 58.1 87.7 | 55.9 89.6 |  |  |  |
|  | 432.7 | 453.0 | 39.0 | 36.4 | 40.7 | 37.3 | 35.3 | 41.3 | 37.5 | 41.3 | 36.7 | 38.8 | 37.8 |  |  |  |
| Taxable withdrawals...-........................-- ${ }^{\text {do-...- }}$ | 88.0 | 82.5 | 6.1 | 6.1 | 7.3 | 7.0 | 8.8 | 6.1 | 4.9 | 6.2 | 5.7 | 6.6 | 6.4 |  |  |  |
| Denatured alcohol: $\ddagger$ |  |  |  |  |  |  |  |  |  |  | 19.8 |  |  |  |  |  |
|  | ${ }_{234.6}^{234.1}$ | 245.9 246.7 | 21.2 21.4 | 19.4 19.5 | 21.9 22.0 | 20.1 19.9 | 19.1 19.5 | 22.2 21.8 | 20.2 20.4 | 22.5 | 19.8 19.6 | 21.6 21.5 | 20.3 20.2 |  |  |  |
| Stocks, end of period.........................-do...... | 2.9 | 2.0 | 2.7 | 2.7 | 2.6 | 2.8 | 2.0 | 2.8 | 2.6 | 2.5 | 2.7 | 2.8 | 2.9 |  |  |  |
| FERTILIZERS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ${ }^{1} 17,106$ | 19,612 | 1,643 | 1,802 | 1,702 | 1,358 | 1,699 | 1,666 | 1,451 | 1,830 | 1,770 | 1,518 | 1,540 | 1,785 | 1,899 |  |
|  | 11,050 | $\begin{array}{r}1,123 \\ 14 \\ \hline 1953\end{array}$ |  |  |  |  | 1, 107 |  |  |  |  | 1110 | , 68 | , 88 |  |  |
|  | 113,431 1,033 | 14,953 1,353 | 1,217 124 | 1,292 | 1. 209 | 1,013 | 1,103 111 | 1,259 95 | 1,054 136 | 1,438 129 | 1,391 83 | 1,141 | 1,109 146 | 1,295 184 | 1,376 $\mathbf{1 2 5}$ |  |
| Imports: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ammonium nitrate ..........................- do | 374 | 378 | 15 | 17 | 20 | 20 | 17 | 27 | 28 | 39 | 74 | 37 | 25 | 15 | 11 |  |
| A mmonium sulfate...-..................--- do.... | 229 | 264 | 16 | 13 | 23 | 22 | 14 | 27 | 23 | 46 | 46 | 22 | 12 | 11 | 12 |  |
|  | ${ }^{1} 4,549$ | 4,865 | 298 | 410 | 507 | 303 | 274 | 442 | 431 | 761 | ${ }_{0}^{713}$ | 547 | 305 | 261 | 295 |  |
| Potash dellveries ( $\mathrm{K}, \mathrm{O}$ ) . .....................-do. | 5,026 | 4,913 | 307 | 369 | 494 | 246 | 330 | 384 | 611 | 782 | 706 | 581 |  |  |  |  |
| Superphosphate and other phosphatic fertilizers |  |  |  |  |  |  |  |  |  |  |  |  |  |  | r 335 | 416 |
| $\left(100 \% \mathrm{P}_{3} \mathrm{O}_{\mathrm{s}}\right)$ : <br> Productiont.. thous. sh. tons |  | 5, 482 | 415 | 449 | 461 |  |  | 491 |  |  | 494 |  | '446 | 438 |  |  |
| Stocks, end of period....-.-..................d. do...- | , 389 | 433 | 369 | 369 | 347 | 418 | 433 | 455 | 437 | 333 | 233 | 233 | ${ }^{\text {r } 298}$ | 370 |  |  |
| Miscellaneous products |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Explosives (industrial), shipments, quarterly 8 mill. 1b. | 2,120.0 | 2, 108.7 |  | 534.0 |  |  | 479.1 |  |  | 476.0 |  |  | 528.5 |  |  |  |
| Paints, Farnish, and lacquer, factory shipments: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2, 830.9 | 3,009. 2 | 286.4 | 269.0 | 254.0 | 224.7 | 190.0 | 225.5 | 235.0 | 264.0 | ${ }^{270.0}$ | 294.4 | 297.5 +166.3 | 277.3 |  |  |
| Sulfur, native (Frasch) and recovered: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production. .-.-.-.-.-...---thous. Ig. tons.- | 48,620 |  |  |  |  |  |  |  |  |  | 802 |  | 830 | 791 |  |  |
| Btocks (producers'), end or period...-...-. do.--- | 4,120 | 3,794 | 4,127 | 4,008 | 4, 019 | 4,003 | 3,956 | 3,832 | 3, 807 | 3,783 | 3,779 | 3,762 | 3,802 | 3,752 |  |  |
| PLASTICS AND RESIN MATERIALS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thermosetting resins: <br> Alkyd resins. mll. 1b. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Polyester resins................................do.... | 1637.7 | (2) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phenolic and other tar acid resins ...........do... Urea and melamine resins | $\begin{array}{r} 11,141.8 \\ 1683.4 \end{array}$ | $\left.\right\|^{1} 1,680.1$ | 124.1 | 146.5 | 173.3 | 156.9 | 155.4 | 215.7 | 162.9 | 182.6 | 159.1 | 172.6 | 169.4 | F149.5 | 163.0 |  |
| Thermoplastic resins: <br> Cellulose plastic materials. $\qquad$ do. $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Coumarone-indene and petroleum polymer resins.......................................... mil. 1b. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Styrene-type materials (polystyrene) ....do.... | 13,749.8 | 14,602.0 | 389.9 | 386.1 | 404.4 | 406.9 | 413.0 | 421.6 | 403.1 | 443.6 | 407.3 | 418.4 | 420.5 | $\bigcirc 411.6$ | 414.2 |  |
| Vinyl resins (resin content basis)T.....-. do...- | 1 $\begin{aligned} & 1,075.8 \\ & 163958\end{aligned}$ | (14,288.9 | 349.0 658.0 | 357.9 682.2 | 384.1 686.2 | 377.1 669.0 | 396.7 689 | 384.2 679.5 | 363.2 | 395.0 7210 |  | 388.8 705.8 | 358.7 682.2 | + $\begin{array}{r}354.1 \\ r 699.7\end{array}$ | 349.8 696.9 |  |
|  |  | 17,629. 5 | 658.0 | 662.2 | 686.2 | 669.0 | 689.8 | 679.5 | 638.5 | 721.0 | 693.8 | 705.8 | 682.2 | r 699.7 | 696.9 |  |

## ELECTRIC POWER AND GAS


 polyvinyl alcohol, and other vinyl resins.
$\oplus$ Except for glycerin, seattered revisions have been made in the annual data back to 1965;
monthly revisions are not available. 100 percent content of the specifled material unless $\sigma^{*}$ Data are reported on the basis of 100 percent content of the
otherwise indicated.
8Data exclude black blasting powder
Data exclude black blasting powder.
Revised monthly data for $19 ? 0$ will be show later.

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. |  | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |  |

## ELECTRIC POWER AND GAS-Continued



FOOD AND KINDRED PRODUCTS; TOBACCO

| Beer: ALCOHOLIC BEVERAGES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 137.36 | 141. 28 | 13. 09 | 11.41 | 11. 15 | 9.92 | 9.59 | 10.98 | 10.72 | 13.14 | 12.86 | 13.83 | 13. 09 | 13.76 |  |  |
|  | 127.40 | 131.81 | 12.89 | 10.88 | 10.61 | 9.92 | 9.27 | 9.67 | 9.43 | 12.01 | 11. 65 | 12.87 | 12.55 | 12.77 |  |  |
|  | 12.23 | 12.44 | 13.75 | 13. 54 | 13.36 | 12.77 | 12. 44 | 13.07 | 13.70 | 14.00 | 14.42 | 14.48 | 14.20 | 14.30 |  |  |
| Distilled spirits (total): <br> Production. mil. tax gal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production $\qquad$ mil. tax gal-Consumption, apparent, for beverage purposes | 183.27 | 190.27 | 8.04 | 12.79 | 16.08 | 16.33 | 15.52 | 15. 25 | 15.75 | 18.44 | 16. 14 | 18.31 | 17.49 |  |  |  |
| mil. wine gal | ${ }^{2} 382.35$ | : 393.37 | 29.34 | 30.68 | 33.73 | 39.52 | 48.34 | 28. 20 | 26.73 | 33.79 | 30.44 | 33. 64 | 33.65 |  |  |  |
| Taxable withdrawals..................mil. tax gal.- | 182.07 | 200.43 | 16.73 | 18.65 | 22.14 | 20.75 | 16.46 | 15. 14 | 13.87 | 17.98 | 16.00 | 19.36 | 17.39 |  |  |  |
| Stocks, end of period....-....................do....- | 996.62 | 971.70 | 991.93 | 984.85 | 977.70 | 972.30 | 971.70 | 970.43 | 971.96 | 972.74 | 971.86 | 970.31 | 971.05 |  |  |  |
| Whisky: | 102.14 | 100.16 | 6.13 | 7.10 | 11.61 | 11.64 | 12.65 | 7.77 | 6.78 | 8.37 | 7.58 | 9.30 | 8.17 | 7.12 | 7.73 |  |
|  | 119.38 | 116. 56 | 3.63 | 6. 62 | 9.32 | 10.52 | 9.94 | 10.47 | 11.00 | 11.89 | 11.18 | 11.93 | 10.78 |  |  |  |
| Taxable withdrawals...........................-do...-- | 116.84 | 130.09 | 10.94 | 12. 75 | 15. 86 | 14. 29 | 10.22 | 9.64 | 8.90 | 11.33 | 10.23 | 11.96 | 10.44 |  |  |  |
|  | 945.80 | 924.41 | 944. 46 | 937. 44 | 929.65 | 924.70 | 924.41 | 924.02 | 926.03 | 926.32 | 926.58 | 925. 34 | 926.11 |  |  |  |
|  | 189.29 | 87.69 | 5.26 | 6.19 | 10. 17 | 10.29 | 11.33 | 6.68 | 5. 70 | 7.21 | 6.55 | 7.95 | 6.98 | 6.07 | 6.68 |  |
| Rectifled spirits and wines, production, total mil. proof gal.. | 116.12 | 120.32 | 9.26 | 9.51 | 12.59 | 12. 29 | 9.21 | 9. 24 | 7.51 | 9.77 | 9.11 | 10.78 | 9.70 |  |  |  |
| Whisky $\qquad$ do. Wines and distilling materials: | 63.05 | 62.64 | 4.43 | 4.75 | 6.69 | 6.35 | 4. 14 | 3.86 | 3.53 | 4.40 | 4. 42 | 5.27 | 4.62 |  |  |  |
| Effervescent wines: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 23.83 | 21.13 | 2.83 | 1.37 | 1. 91 | 1.98 | 2.30 | 1.41 | 1.42 | 1.93 | 1.91 | 1.72 | . 85 | 1.26 |  |  |
| Taxable withdrawals....-.-.-.-..............do. | 21. 64 | 20.36 | 1.35 | 1.63 | 2.51 | 2.80 | 2.74 | 1.11 | 1.10 | 1.24 | 1.06 | 1.54 | 1.58 | . 90 |  |  |
| Stocks, end of period..............-.-.-....... do | 8.57 | 8.09 | 10.65 | 10.36 | 9.64 | 8.71 | 8.09 | 8.19 | 8.44 | 9.07 | 9.88 | 10.00 | 9.17 | 9. 45 |  |  |
|  | 1.88 | 1.98 | . 12 | . 10 | . 20 | . 24 | . 31 | . 18 | . 15 | . 18 | . 14 | . 15 | . 14 | .14 | . 12 |  |
| St111 wines: | 357.36 | 301.16 | 26.39 | 75. 58 | 84.87 | 42.62 | 19.87 | 12.26 | 10.28 | 12.19 | 10.54 | 10.01 | 8.83 | 8.42 |  |  |
| Taxable withdrawals | 246.97 | 269.89 | 19.95 | 22.98 | 25.04 | 25.09 | 19.87 25.39 | 12.26 22.13 | 10.90 | 12. 26 | 22.87 | 10.01 | 8.83 22.60 | 8.42 18.19 |  |  |
|  | 366.31 | 350.88 | 255. 37 | 305.25 | 356. 65 | 366. 39 | 350.88 | 331. 79 | 314. 70 | 294. 31 | 277.34 | 257.93 | 236.95 | 221.03 |  |  |
|  | 134.28 | 45.07 | 4.02 | 3.33 | 3.90 | 4.94 | 4.66 | 4.38 | 3.52 | 4.30 | 4.42 | 5. 10 | 4.93 | 4.86 | 4. 26 |  |
| Distilling materials produced at wineries.--do.--- | 402. 38 | 261.10 | 60.22 | 123.59 | 50.38 | 6.96 | 7.84 | 1.97 | 3.05 | 4.25 | 1.10 | 3.41 | 4.18 | 1.32 |  |  |
| DAIRY PRODUCTS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Butter, creamery: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1,143.7 | 1,101.9 | 75.0 | 66.4 | 75.2 | 73.5 | 81.6 | 96.1 | 84.4 | 90.6 | 93.7 | 100.3 |  |  |  |  |
| Stocks, cold storage, end of period...........do...-- | 96.8 | 107.5 | 198.4 | 178.4 | 154.7 | 132.5 | 107.5 | 108.7 | 109.5 | 116.6 | 125.8 | 140.8 | 149.4 | 143.4 | r 114.3 | 92. 4 |
| Price, wholesale, 92 -score (N.Y.) .......... $\$$ per lb.Cheese: | . 693 | . 696 | . 704 | . 710 | . 708 | . 703 | . 715 | . 687 | . 687 |  | . 624 | . 620 | . 619 | . 639 |  |  |
|  | 12,380, 4 | 2,611.8 | 220.0 | 199.7 | 197.3 | 184.9 | 204.7 | 202.9 | 193.7 | 226.5 | 238.8 | 261.5 |  |  |  |  |
|  | 1,511.5 | 1,644.3 | 142.7 | 124.2 | 119.5 | 107.9 | 119.5 | 123.5 | 120.1 | 142.7 | 151.3 | 171.7 |  |  |  |  |
| Stocks, cold storage, end of period...........do. | 304.3 | 331.4 | 409.7 | 404.0 | 379.3 | 353.6 | 331.4 | 322.1 | 321.1 | 302.4 | 303.4 | 330.6 | 376.3 | 393.3 | ${ }^{\text {r }} 396.4$ | 374.7 |
| American, whole milk | 238.9 | 269.4 | 341.9 | 335.8 | 314.2 | 291.7 | 269.4 | 260.4 | 260.1 | 244.9 | 247.3 | 271.1 | 309.6 | 320.6 | - 321.5 | 301.0 |
| Imports. $\qquad$ do Price, wholesale, American, single daisies (Chi- | 95.5 | 179.4 | 14.1 | 15.6 | 17.8 | 20.3 | 19.9 | 15.2 | 11.4 | 14.9 | 12.2 | 16.1 | 20.2 | 31.2 | 14.5 |  |
| cago) | . 671 | . 714 | . 709 | . 709 | . 718 | . 736 | . 744 | . 745 | . 746 | . 765 | . 783 | . 792 | . 802 | . 801 | . 847 | . 898 |
| r Revised. ${ }_{1}$ Reported annual total; revisions are not distributed to the monthly data. <br> ${ }^{2}$ Incl udes Hawali: no monthly data available for Hawaii. <br> §Data are not wholly comparable on a year to year basis because of changes from one |  |  |  |  |  | classification to another. $\dagger$ Data restated to represent the total gas utility industry, 99 percent of which is natural gas; also, sales are expressed in B.t.u. instead of therms. <br> $\ddagger$ Revised data for months prior to May 1971 will be shown later. |  |  |  |  |  |  |  |  |  |  |


| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

FOOD AND KINDRED PRODUCTS; TOBACCO-Continued

| DAIRY PRODUCTS-Continued Condensed and evaporated mill: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Production, case goods $0^{4}$..................mil. lb.. | 1,268.1 | 1,174.2 | 109.5 | 85.7 | 83.8 | 69.6 | 80.8 | 75.8 | 73.5 | 92.4 | 97.4 | 114.2 |  |  |  |  |
| Stocks, manufacturers', case goods, end of month or yearơ…-.-.-.-....................................... | 88.6 | 74.7 | 140.2 | 143.8 | 138.8 | 104.1 | 74.7 | 60.2 | 65.2 | 35.6 | 66.2 | 85.4 |  |  |  |  |
| Exports: <br> Condensed (sweetened) ................................ <br> Evaporated (unsweetened) do...- | 35.1 32.7 | 14.4 40.5 | 5. ${ }^{1}$ | 3.6 | 2.9 | $\stackrel{.2}{4}$ | 3. ${ }^{3}$ | 3. ${ }_{8}^{\text {2 }}$ | 3. ${ }^{1}$ | $\stackrel{.2}{4.8}$ | ${ }^{(1)} 4.0$ | 3.1 | $\stackrel{.2}{3.0}$ | 3. ${ }^{1}$ | + 4.6 |  |
| Fluld milk: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production on farms -...................-do-... | ${ }^{118,532}$ | ${ }_{860}^{120,278}$ | 9, ${ }_{\text {¢ }}^{6}$, 582 | 9,443 | 9,460 | 8,987 | 9, 401 | 9, 630 | 9. 055 | 10,321 | 10,488 | 11,078 | 10,706 | 10, 105 | 9,598 | 9,044 |
| Utilization in mfd. dalry products-.................. Price, wholesale, U.S. average...... per 100 ib. | 180,369 5.87 | 860,930 6.07 | 6,551 5.99 | 4,447 6.21 | 4,330 6.38 | 3,962 6.52 | 4,284 6.54 | 4,713 6.55 | 4,475 6.56 | 5,176 6.52 | 5,386 6.40 | 5,960 6.37 | 5,923 6.37 | 5,261 6.52 | 4,779 +7.17 | - 7.63 |
| Dry milk: <br> Production: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dry whole milk-.................................. lo.... Nonfat dry milk (human food-.......... | $1,77.8$ $1,417.6$ | 78.9 $1,223.5$ | 4.8 92.4 | 5.4 69.1 | 6.8 63.6 | 6.3 57.2 | 6.1 72.1 | 6.7 85.2 | $\begin{array}{r} 5.9 \\ 79.9 \end{array}$ | 6.9 95.1 | 8.6 97.3 | $\begin{array}{r} 9.3 \\ 121.5 \end{array}$ |  |  |  |  |
| Stocks, manufacturers', end of period: <br> Dry whole milk <br> Nonfat dry milk (human food) $\qquad$ | $\begin{array}{r}4.0 \\ \hline 77.0\end{array}$ | 3.4 37.9 | 6.0 86.3 | 5.4 64.7 | 4.8 47.9 | 4.7 34.9 | 3.4 37.9 | 4.4 34.5 | 4.1 36.9 | 3.4 38.3 | 5.2 56.8 | 65. 7 |  |  |  |  |
| Exports: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{array}{r} 25.0 \\ 7124.2 \end{array}$ | $\begin{array}{r} 38.3 \\ 164.1 \end{array}$ | 12.5 | $\begin{array}{r} 4.5 \\ 17.0 \end{array}$ | 3.0 10.8 | $\begin{aligned} & 2.4 \\ & 7.9 \end{aligned}$ | 3.0 | $\begin{aligned} & 3.7 \\ & 3.6 \end{aligned}$ | 4.3 4 | 1.1 | 4.6 1.0 | 5.2 .2 | ${ }_{1}^{6.2}$ | 3. 8 | 3.7 |  |
| Price, manufacturers' average seliing, nonfat dry milk (human food) $\qquad$ \$ per 1 b . | . 307 | . 331 | . 322 | . 330 | 10.8 .342 | 2.9 .359 | . 376 | 3.6 .394 | .4 .398 | 1.4 .422 | . 440 | .2 .445 | 1.5 | . 2 | 2 |  |
| Grain and grain products |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exports (barley, corn, oats rye, wheat) ...mil. bu.. | 11,204, 5 | ${ }^{71,789.3}$ | 170.9 | 181.5 | 168.8 | 181.2 | 202.1 | 211.2 | 192.2 | 216.2 | 217.4 | 243.0 | 282.7 | 257.8 | 301.0 |  |
| Barley: <br> Production (crop estimate) | 2463.6 | 2423.5 |  |  |  |  |  |  |  |  |  |  |  |  |  | 10429.1 |
| Stocks (domestic), end of period................ do | 392.4 | 361.8 |  | 453.6 |  |  | 361.8 |  |  | 263.7 |  |  | ${ }^{-764}$ |  |  | 109.1 |
| On farms-.....................................do | 255.5 | 246.2 |  | 321.7 |  |  | 246.2 |  |  | 166.4 |  |  | 388.8 |  |  |  |
|  | 136.9 | 115.6 |  | 132.0 |  |  | 115.6 |  |  | 97.3 |  |  | ${ }^{3} 75.4$ |  |  |  |
| Exports, including malts....-7--..........-do... | ${ }^{7} 53.2$ | 60.6 | 2.2 | 1.2 | 3.4 | 2.1 | 7.3 | 2.7 | 5.4 | 7.7 | 7.5 | 10.4 | 7.6 | 9.8 | 8.8 |  |
| Corn: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (crop estimate, grain only) . .mil. bu-. | 2 5, 641 | ${ }^{2} 5,553$ |  |  |  |  |  |  |  |  |  |  |  |  |  | ${ }^{10} 5,763$ |
| Streks (domestic), end of period, total.....do.... | 4,700 <br> 3 <br> 3 |  |  | 21,126 |  |  | $4,815$ |  |  | 3,330 |  |  | 1,931 |  |  |  |
|  | 3, 1,149 | 3,674 <br> 1,141 |  | 1751 <br> 3 <br> 375 |  |  | $3,674$ |  |  | 2,375 955 |  |  | 1,366 |  |  |  |
| Exports, including meal and four..........-.-. do | ${ }_{7} \mathbf{7 1 1 . 7 9}$ | 1,141 | 97.1 | 3 1085 108 | 79.8 | 91.0 | 1,141 | 102.5 | 92.0 | 955 104.6 | 92.0 | 92.2 | 564 136.6 | 124.3 | 138.1 |  |
| Prices, wholesale: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No. 3, yellow (Chicago) -..................... | - 1.36 | 1.30 | 1.21 | 1.36 1.28 | 1.31 1.28 | 1.31 1.30 | 1.53 | 1.55 1.57 | 1.57 1.57 | 1.57 1.56 | $\begin{aligned} & 1.63 \\ & 1.65 \end{aligned}$ | $\begin{aligned} & 2.01 \\ & 2.02 \end{aligned}$ | $\begin{aligned} & 2.43 \\ & 2.30 \end{aligned}$ | 2.59 2.33 | 2.98 2.70 | 2.39 2.40 |
| Oats: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (crop estimate) .......-.-....mil. bu.. | ${ }^{2} 881$ | 2695 |  |  |  |  |  |  |  |  |  |  |  |  |  | 10702 |
| Stocks (domestic), end of period, total.....do...- | 943 | 780 |  | 932 |  |  | 780 |  |  | 586 |  |  | 3414 |  |  |  |
|  | ${ }_{6}^{693}$ | 559 |  | 683 |  |  | 559 |  |  | 380 |  |  | 3231 |  |  |  |
| Off farms.----------........................ ${ }^{\text {do }}$ | 251 | 220 |  | 249 |  |  | 220 |  |  | 207 |  |  | ${ }^{3} 183$ |  |  |  |
| Exports, Including oatmeal .....-..........d | 7.1 | 25.2 | .4 | . 4 | . 6 | . 7 | . 7 | . 5 | . 5 | . 9 | 4.0 | 7.0 | 6.9 | b. 8 | 5.7 |  |
| \$ per bu.. | 4.75 | 0.85 | . 79 | . 82 |  |  | 1.00 |  |  |  | . 95 | 1.03 |  |  |  |  |
| Rice: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (crop estimate) Callfornia mills: $\qquad$ mill. bags \& .- | 285.8 | 285.2 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1095.5 |
| Receipts, domestic, rough ---........mil. lb.- | 2.004 | 1,774 | 328 | 82 | 174 | 102 | 120 | 186 | 21.5 | 252 | 272 | 151 | 120 |  | 78 |  |
| Shipments from mills, milled rice-a--do- | 1,446 | 1,266 | 259 | 112 | 46 | 71 | 112 | 97 | 182 | 141 | 311 | 123 | 83 | 47 | 80 |  |
|  | 98 | 86 | 104 | 46 | 117 | 114 | 86 | 135 | 120 | 174 | 80 | 62 | 61 | 77 | 52 |  |
| Southern States mills (Ark., La., Tenn., Tex.): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts, rough, from producers-....--mil. Ib.- | 5,567 | 7,472 | 1,128 | 1,814 | 1,728 | 645 | 270 | 252 | 124 | 90 | 57 | 67 | 41 | 37 | 645 |  |
| Shipments from mills, milled rice...-.-do.-- | 4,206 | 5,133 | 332 | 456 | 528 | 503 | 453 | 438 | 384 | 367 | 313 | 234 | 227 | 259 | 233 |  |
| basis), end of period cleaned | 1,737 | 1,967 | 858 | 1,643 | 2,275 | 2,217 | 1,967 | 1,713 | 1,429 | 1,138 | 876 | 672 | 499 | 240 | 35 |  |
|  <br> Price, wholesale, Nato, No. 2 (New Orleans) | 3,252 | 4,447 | 360 | 242 | 313 | 444 | 407 | 329 | 299 | 478 | 423 | 271 | 159 | 204 | 132 |  |
| \$ per lb.- | . 087 | - 098 | . 091 | . 100 | . 106 | . 125 | . 125 | . 129 | . 129 | . 129 | . 153 | . 153 | . 153 | . 153 | . 163 | . 185 |
| Rye: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (crop estimate) ----.-.-.----mil. bu.- Stocks (domestic) end of period | $\begin{array}{r}2493 \\ \\ 54.6 \\ \hline 1\end{array}$ | ${ }^{8} 29.5$ |  |  |  |  |  |  |  |  |  |  |  |  |  | 1025.5 |
| Price, wholesale, No. 2 (Minneapolis)... ${ }^{\text {P }}$ per bu.. | 1.06 | 1.07 | 1.00 | 62.0 1.02 | 1.08 | 1.15 | 1.18 | 1.17 | 1.20 | 1.12 | 1.18 | 1.27 | $\begin{array}{r} 333.3 \\ 1.35 \end{array}$ | 1.52 | 2.23 | 2.92 |
| Wheat: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (crop estimate), total..........mil. bu_ Spring wheat .................................................. |  | 21,545 ${ }^{2} 359$ 2 8 1 |  |  |  |  |  |  |  |  |  |  |  |  | 11436 | ${ }^{10} 1,727$ |
|  | ${ }^{2} 1,144$ | ${ }^{2} 1,186$ |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 1,291 |
| Distribution .--.-.-.-.-.......................do..... | 1,482 | 1,697 |  | 543 |  |  | 470 |  |  | 470 |  |  | 499 |  |  |  |
|  | 1,547 <br> 694 <br> 853 | 1,396 507 889 | ...... | 1,866 1,145 |  |  | 1,396 507 889 |  |  | 927 316 611 |  |  | 3428 3125 3 303 |  |  |  |

Revised. ${ }^{\text {PPreliminary. }}{ }^{1}$ Less than 50 thousand pounds. ${ }^{2}$ Crop estimate for the year. barley ous years and wheat; Oct. for corn markets, all grades. ${ }^{2}$ Average for Jan.-April, June-Oct., and Dec. © Average for JulySept., and Dec. ${ }^{7}$ Annual total reflects revisions not distributed to the months.
${ }^{8}$ Revised monthly data for Jan. 1970 -June 1972 will be shown later. ${ }^{8}$ Effective May 1972, price is for No. 2 (Southwest Louisiana). ${ }^{\prime}$ Condensed milk included with evaporated to a 1 void disclosing operations of individual firms. §Excludes pearl barley. $\%$ Bags of 100 lbs .

| Unless other wise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

## FOOD AND KINDRED PRODUCTS; TOBACCO—Continued

| Grain and grain products-Con. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wheat-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exports, total, including flour..................dil. bu. Wheat only | 627.1 688.3 | 1817.0 1788.5 | 71.2 69.1 | 71.2 69.0 | 85.0 82.6 | 87.4 83.5 | 109.7 107.3 | 105.5 101.9 | 94.3 92.9 | 101.9 98.1 | 111.4 108.8 | 130.6 128.3 | 128.4 126.1 | 113.2 | 143.6 139.9 |  |
| Prices, wholesale: <br> No. 1, dark northern spring (Minneapolis) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% ${ }^{\text {s }}$ per bu.. | 1.77 | 1. 86 | 1.91 | 2.03 | 2.12 | 2. 23 | 2. 42 | 2. 42 | ${ }^{2} 28$ | 2.32 | 2.39 | 2.61 | 2.75 | 3.06 | 4. 49 | 4. 84 |
| No. 2, hd, and dk. hd, winter (Kans. City) do-... | 1. 67 | 1.86 | 1.86 | 2.10 | 2. 18 | 2.29 | 2.60 | 2.67 | 2. 48 | 2.50 | 2.65 | 2.64 | 2.79 | 2.81 | 4.71 | 5. 09 |
| Weighted avg., 6 markets, all grades... do.... | ${ }^{2} 1.72$ | ${ }^{2} 1.87$ | 1.88 | 2.05 | 2.12 | 2.20 | 2.42 | 2.46 | 2.36 | 2.40 | 2. 45 | 2.62 | 2.77 | 3.22 | 4.92 | 5.34 |
| Wheat flour: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production. --.............thous sacks (100 ib.) | 249,810 | 250, 441 | 21, 293 | 21,347 | 22,4 ${ }^{\text {n }}$ | 21,072 | 20,799 | 21,346 | 20,023 | 21,051 | 19,310 | 20,603 | 19,771 | r 20,068 | 21, 893 |  |
|  | 4, 279 | 4,303 | 369 | -369 | 50, 384 |  | , 358 | , 375 | 346 | , 358 | -327 | ${ }^{2}, 354$ | 342 | $\xrightarrow{+348}$ | -380 |  |
|  | 555, 092 | 557, 801 | 47,459 | 47, 713 | 50, 121 | 46, 822 | 46,380 | 47, 529 | 44, 475 | 46,777 | 42, 792 | 45,808 | 43,765 | r 44,681 | 48,889 |  |
| stocks held by mills, end of period thous. sacks (100 lb.).- | 4,362 | 4,746 |  | 4, 886 |  |  | 4,746 |  |  | 5,581 |  |  | 5,393 |  |  |  |
| Exports | 16,637 | 16, 549 | 930 | ${ }^{1} 965$ | 1,049 | 1,665 | 1,049 | 1,553 | 611 | 1,636 | 1,134 | 977 | 993 | 1,352 | 1,596 |  |
| Pring, standard patent (Minneapolis) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Winter, hard, $95 \%$ patent (Kans. City) \$ do.... | 6.145 | 6. 534 | 6. 525 | 6.888 | $\begin{aligned} & 6.850 \\ & 6.413 \end{aligned}$ | 6,938 6.500 | 7.625 | 7.613 | 7.138 | 7.263 | 7.325 | 7.313 7.038 | 7.875 7.738 | 7.738 7.538 | 10.280 | 10.600 10.463 |
| LIVESTOCK |  |  | , | 6.363 |  |  |  |  | 6.81 | 6.87 | 7.103 |  |  | 7.338 |  |  |
| Cattlo and calves: Slaughter (federally inspected): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2,807 | 2,421 | 208 | 197 | 211 | 209 | 202 | 209 | 169 |  | 139 | 131 | 117 | 118 | 115 |  |
| Cattle | 31,419 | 32, 266 | 2,925 | 2,789 | 2,909 | 2,705 | 2,615 | 2,807 | 2,422 | 2,618 | 2,167 | 2,692 | 2,560 | 2,441 | 2, 363 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 32.03 32.09 | 35.49 38.89 | 35.18 38.20 | 34.69 41.29 | 34.68 40.87 | 33.38 40.66 | 36.58 42.61 | 40.25 44.25 | 42.76 4806 | 44.98 50.90 | 44. 61 50.67 | 45.83 50.79 | 46.66 49.38 | 47.77 53.23 | 53.13 56.40 | 45.05 49.73 |
|  | 38.58 | 46.88 | 48.10 | 49.00 | 49.00 | 49.00 | 49.00 | 49.00 | 54.00 | 56.00 | 57.80 | 57.50 | 61. 40 | 59.30 | 67.50 | 56.40 |
| Hogs: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Slaughter (federally inspected)... thous. animals.Prices: | 86,667 | 78,759 | 6,512 | 6.420 | 7,048 | 6,988 | 6,197 | 6,641 | 5,712 | 6,652 | 5,992 | 6,637 | 5,711 | 4,996 | 5,569 |  |
| Wholesale, a verage, all grades (Sioux City) <br> \$per 100 lb | 18.41 | 26. 58 | 27.87 | 28.41 | 27.37 | 26.91 | 29.33 | 31. 28 | 35. 47 | 37.62 | 35.12 | 35.82 | 37.66 | 45.69 | 55. 28 | 42.96 |
| Hog-corn price ratio (bu of corn equal in value to 100 lb .11 ve hog ) | 14.5 | 22.2 | 24.3 | 23.0 | 23.0 | 22.3 | 20.8 | 22.3 | 25.3 | 28.0 | 24.7 | 21.9 | 18.7 | 20.2 | 21.1 | 20.4 |
| Sheep and lambs: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Slaughter (federally inspected).- thous. animals.- | 10,256 | 9,905 | 840 | 866 | 937 | 828 | 751 | 835 | 700 | 710 | 690 | 858 | 727 | 807 | 844 |  |
| \$ per 100 lb . | 27.43 | 30. 13 | 31.25 | 30.00 | 26.75 | 27.00 | 29.25 | 33.62 | 39. 25 | 40.75 | 34. 50 | 36.25 | 38.00 | 39.25 | 41.50 | 33.38 |
| meats and lard |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total meats: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (carcass weight, leaf lard in), Inspected <br>  | 36, 209 | -35,632 | -3,082 | -2,968 | 3,228 | 3,130 | 2,893 | 3,077 | 2,658 | 2,911 | 2,511 | 2,992 | 2,747 | 2,561 | 2,567 |  |
| Stocks (excluding lard), cold storage, end of period mil. .b. |  | 670 | 699 | 594 | 642 | 702 | 670 | 680 | 661 | 687 | 706 | $\begin{array}{r}700 \\ 74 \\ \hline\end{array}$ | 675 | 590 | -508 | 520 |
| Exports (meat and meat preparations) --.-dio.-- | 1547 | 614 | 49 | 47 | 67 | 57 | 57 | 48 | 52 | 81 | 75 | 74 | 66 | 49 | 57 |  |
| Imports (meat and meat preparations) --.--do.-.-- | 11,789 | 2,012 | 216 | 206 | 202 | 174 | 138 | 165 | 148 | 133 | 149 | 166 | 143 | 153 | 209 |  |
| Beef and veal: |  |  |  |  |  |  |  |  |  |  |  | 1,696 |  |  |  |  |
| Production, inspected slaughter-.-.-......do-...- Stocks, | 19,697 ${ }^{375}$ | - 20,523 | +1,849 | 1,760 308 | 1,876 |  | 1,693 380 | 1,801 |  |  | 1,363 374 | 1, 349 | $\begin{array}{r}1,624 \\ \hline 83\end{array}$ | $\begin{array}{r}1,366 \\ \hline 09\end{array}$ | 1,482 +264 | 255 |
|  |  | 54 |  | 4 | 4 | 7 | 6 | 5 | 4 | 6 | 5 | ${ }^{7}$ | 8 | ${ }_{6}$ | 6 |  |
|  | 11,265 | 1,461 | 168 | 169 | 156 | 131 | 101 | 121 | 108 | 94 | 104 | 119 | 102 | 116 | 167 |  |
| Price, wholesale, beef, fresh, steer carcasses, choice ( $600-700$ lbs.) (New York) .............s per lb.. | . 547 | ${ }^{3} .577$ | . 568 | . 553 | . 548 | . 633 | . 690 | . 645 | 690 | .712 | .719 | 710 | 728 | . 749 |  | 713 |
| Lamb and mutton: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production, inspected slaughter . . ......-mil. lb. <br> Stocks, cold storage, end of period $\qquad$ do- | 522 19 | 515 16 | $\begin{array}{r}\text { r } \\ \\ 21 \\ \hline\end{array}$ | 43 19 | 49 18 | $\stackrel{44}{17}$ | 40 16 | $\stackrel{45}{13}$ | ${ }_{11}^{38}$ | ${ }_{11}^{39}$ | ${ }_{13}^{38}$ | $\stackrel{47}{45}$ | 16 | 42 14 | 13 | 13 |
| Pork (including lard), production, inspected slaughter $\qquad$ -mil. 1b. | 15,989 | - 14,594 | 1,192 | - 1,165 | r 1,303 | 1,325 | 1,160 | 1,232 | 1,068 | 1,227 | 1,110 | 1,250 | 1,086 | 953 | 1,040 |  |
| Pork (excluding lard): Production inspected slaughter .........do |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production, inspected slaughter--........- do...- |  |  | 1,023 201 | - 1,013 192 | 1,132 209 | 1,144 | 1,015 214 | $\begin{array}{r}1,077 \\ \hline 207\end{array}$ | ${ }_{204}^{938}$ | $\begin{array}{r}1,074 \\ \hline 242\end{array}$ | 976 248 | $\begin{array}{r}1,079 \\ \hline 29\end{array}$ | 940 253 | 839 202 | 924 +180 | 193 |
|  | $\begin{array}{r}330 \\ 72 \\ \\ \hline\end{array}$ | 214 105 | 2015 | 192 8 8 | $\begin{array}{r}129 \\ 17 \\ \hline\end{array}$ | $\begin{array}{r}242 \\ 7 \\ \hline\end{array}$ | $\begin{array}{r}7 \\ \\ \\ \hline 1\end{array}$ | ${ }^{6} 6$ | 12 | 33 | 31 | 29 | 14 | 6 | 4 |  |
| Imports | 357 | 395 | 29 | 24 | 35 | 35 | 31 | 34 | 30 | 29 | 37 | 37 | 35 | 30 | 34 |  |
| Prices, wholesale: <br> Hams, smoked composite $\qquad$ per lb. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hams, smoked composite-............. $\$$ per lb.. | .534 .498 | .625 .645 | . 5851 | .594 .668 | . 6842 | . 703 | .752 .720 | .730 .768 | . 705 | . 7988 | .764 .737 | ${ }_{.} 737$ | .745 .730 | .784 .883 | 1.045 1.167 | .889 |
| Lard: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production, inspected slaughter - .-......mil. lb.- | 1,830 | 1,465 | 121 | 108 | 124 | 130 | 103 | 111 | 92 | 109 | 95 | 122 | $\xrightarrow{105}$ | ${ }_{34} 83$ | ${ }_{32}^{82}$ | -..... |
| Stocks, dry and cold storage, end of period.. do-..- | 100 | 51 | ${ }_{5}^{52}$ | ${ }_{14}^{44}$ | 44 12 12 | ${ }_{32}^{58}$ | 51 4 | 11 19 | 44 | 50 7 | 119 | 50 5 | +40 | ${ }_{4}$ | ${ }^{32}$ |  |
| Exports....-.......................do | . 282 | 164 .148 | + 5 | 14 149 | . 1123 | 32 .164 | . 157 | 19 .156 | 178 | . 205 | ${ }_{203}$ | 215 | . 238 | . 240 | . 425 | .245 |
| POULTRY AND EGGS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry: <br> Slaughter (commercial production).......mil. lb.- | 10,357 | 10,883 | 1,113 | 981 | 1,091 | 977 | 833 | 855 | 721 | 781 | 725 | 886 | 949 | 920 | 1,070 |  |
| Stocks, cold storage (frozen), end of period, total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 378 223 | 324 208 | ${ }_{314}^{422}$ | 408 | 473 | 297 | 208 | 187 | 153 | 116 | ${ }_{90}$ | 88 | 138 | 200 | - 262 | ${ }_{357}^{467}$ |
| Price, in Georgia producing area, live broilers |  |  |  | . 145 | . 135 | . 130 | . 130 | . 155 | 190 | . 235 | . 255 | . 220 | . 240 | . 260 | . 420 | . 305 |

; Revised.
${ }^{1}$ Annual total reflects revisions not distributed to the months.

[^41]| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

## FOOD AND KINDRED PRODUCTS; TOBACCO—Continued

| POULTRY AND EGGS-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Eggs: <br> Production on farms $\qquad$ mill. cases® | 194.9 | 193.1 | 16.0 | 15.3 | 15.8 | 15.3 | 15.9 | 15.8 | 14.4 | 16.1 | 15.7 | 16.0 | 15.1 | 15.2 | 15.0 | 14.6 |
| Stocks, cold storage, end of period: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shell | 60 | 41 | 200 | 247 | 173 | 85 | 41 | 116 | 87 | 97 | 37 | 41 | 72 | 51 | 65 | 79 |
|  |  |  |  |  |  | 76 | 68 |  |  |  | 46 | 45 |  |  | 50 |  |
| Price, wholesale, large (delivered; Chicago) $\$$ per doz.. | . 332 | . 338 | . 327 | . 373 | . 344 | . 402 | . 498 | . 526 | . 431 | . 499 | . 500 | . 486 | 562 | . 650 | . 756 | . 688 |
| MISCELLANEOUS FOOD PRODUCTS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cocoa (cacao) beans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports (Incl. shells).-.-.-. thous. Ig. tons.. | 315.8 | 282.2 | 13.4 | 6.8 | 13.1 | 10.0 | 36.1 | 38.1 | 34. 2 | 27.7 | 29.0 | 29.3 | 17.0 | 15.8 | 9.9 |  |
| Price, wholesale, Accra (Now York)....-\$ per lb... |  | . 322 | . 341 | 360 | . 385 | . 376 | . 384 | . 369 | . 389 | . 414 | . 525 | . 614 | . 674 | . 870 | 790 | . 758 |
| Coffee (green) : |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Inventories (roasters', Importers', dealers'), end of period. thous. bagsor | 4,000 | 3,663 |  | 3,852 |  |  | 3,663 |  |  |  |  |  |  |  |  |  |
|  | 19,607 | 20,075 |  | 4,660 |  |  | 5,127 |  |  | 5,203 |  |  | 4,795 |  |  |  |
| ports, total................................do. | 21,669 | 20, 75 | 1,947 | 2,149 | 2,057 | 1,643 | 1,288 | 1,996 | 1,844 | 2,101 | 2,040 | 2,494 | 1,710 | 1,573 | 1,731 |  |
|  | 5, 991 | 6,152 | , 383 | -969 | 454 | 430 | 319 | , 696 | 250 | ${ }^{2}, 166$ | , 321 | -475 | + 424 | , 211 | , 411 |  |
| Price, wholesale, Santos, No. 4 (N.Y.).-\$ per ib.- | ${ }^{21} 461$ | ${ }^{3} \cdot 544$ | 625 | . 590 | 580 | 560 | . 570 | 570 | 620 | . 655 | 650 | 650 | 670 | 700 | 700 | . 725 |
| Confectionery, manufacturers' sales......--mil. \$-. | 1,974 | 1,976 | 177 | 221 | 195 | 199 | 172 | 184 | 172 | 182 | 154 | 143 | 135 | 114 | 183 |  |
| Fish: <br> Stocks, cold storage, end of period.........mll. lb.- | 302 | 415 | 352 | 398 | 419 | 416 | 415 | 382 | 344 | 298 | 263 | 270 | 291 | - 324 | ${ }^{\square} 336$ |  |
| sugar (Unlted States): <br> Dellverles and supply (raw basis): Production and recelpts: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production....-.....-......thous. sh. tons.- | 4, 585 | 4,938 | 130 | 188 | 783 | 1,028 | 996 | 650 | 397 | 305 | 281 | 212 | 168 | 112 |  |  |
| Entries from off-shore, total $9 . . . . . . . . . . ~ d o . . .-~$ | 6,601 1,230 | 6,700 1,262 | 617 90 | 542 160 | 481 | 391 30 | 396 43 | 547 55 | 379 49 | 536 90 | 617 120 | 592 137 | 648 140 | 707 103 | $\begin{array}{r} 408 \\ 92 \end{array}$ |  |
| Deliveries, total8........................do. | 11,439 | 11, 531 | 1,167 | 1,106 | 865 | 855 | 1,043 | 787 | 743 | 1,058 | 892 | 988 | 1,063 | 1,027 |  |  |
| For domestle consumption..............do | 11, 288 | 11, 420 | 1,155 | 1,099 | 853 | 849 | 1,035 | 780 | 738 | 1,049 | 886 | 984 | 1,058 | 1,025 |  |  |
| Stocks, raw and ref., end of period...------do | 2,687 | 2, 757 | 1,532 | 1,204 | 1,638 | 2,217 | 2,757 | 2,941 | 3,038 | 2,777 | 2,831 | 2, 604 | 2, 291 | - 2, 040 | p 1,398 |  |
| Exports, raw and refned..-..............sh. tons . | 481 | 778 | 55 | 100 | 67 | 61 | 104 | 35 | 1,454 | 64 | 134 | 137 | 313 | 239 | 286 |  |
| Imports: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 5,262 | 5,154 | 579 | 401 | 352 | 317 | 381 | 435 | 288 | 441 | 475 | 506 | 418 | 448 | 566 |  |
| From the Phillpplnes ....................- do- Reflned | 11,544 48 | 1,246 76 | 217 1 | 187 3 | 45 35 | 117 | 143 5 | 104 | 47 5 | 127 3 | 139 2 | 168 1 | ${ }_{(1)}^{153}$ | 262 5 | 215 5 |  |
| Prices (New York): <br> Raw wholesale | . 085 | . 091 | . 094 | . 094 | . 094 | . 090 | . 092 | . 094 | . 092 | . 094 | . 097 | . 100 | . 103 | 102 | . 108 | . 109 |
| Reflned: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail (Incl. N.E. New Jersey).... \$ per 5 lb-- | . 695 | . 704 | . 695 |  | . 704 | . 711 | . 713 | . 713 | . 725 | . 734 | . 736 | . 751 | . 767 | .775 | . 779 |  |
| Wholesale (excl. exclse tax) ...........\$ per lb-- | . 117 | . 123 | . 124 | . 124 | . 124 | . 122 | . 122 | . 122 | . 132 | . 132 | . 133 | . 127 | . 127 | 132 | . 137 | .137 |
|  | 175, 432 | 151, 495 | 11, 581 | 12,830 | 14,348 | 11,460 | 10,731 | 15,481 | 14,295 | 15,399 | 14,107 | 17,423 | 12, 425 | 13, 660 | 12,614 |  |
| Fats, OILS, and related products |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Baking or frying fats (Incl. shortening): Productlon. | 3,515.0 | 3, 532. 5 |  | 295.6 | 329.2 | 316.1 | 288.5 |  | 275.5 |  | 275.3 | 291.6 |  | r 240.4 |  |  |
|  | 3, 127.6 | - 127.3 | 114.2 | 120.8 | 118.7 | 127.8 | 127.3 | 140.5 | 128.8 | 125.1 | 136.8 | 120.6 | 137.3 | + 120.4 | 84.0 |  |
| Salad or cooking olls: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 3,500.0 | 3, 904.8 | 344.7 | 307.8 | 320.2 | 307.5 | 317.0 | 320.6 | 314. | 367.9 | 306.2 | 354.3 | 352.3 | - 287 | 334.1 |  |
|  | 76.1 | 85.6 | 88.2 | 78.2 | 84.5 | 92.0 | 85.6 | 92.9 | 88.8 | 88.8 | 92.6 | 90.9 | 112.2 | 「72.3 | 51.2 |  |
| Production...-.-............................- do.. | 2,290.0 | 2,361.2 | 194.5 | 197.1 | 203.5 | 215.8 | 228.4 | 232.5 | 191.5 | 198.4 | 184.3 | 200.1 | 168.3 | +151.7 |  |  |
| Stocks, end of period $\oplus$.............................do-- | 57.1 | 69.3 | 71.0 | 68.9 | 69.8 | 67.7 | 69.3 | 80.6 | 80.2 | 70.1 | ${ }_{66.6}$ | 68.2 | 69.7 | ${ }_{r}{ }_{57.4}$ | 46.2 |  |
| Price, wholesale (colored; mir. to wholesaler or large retailer; delivered) $\qquad$ $\$$ per lb | . 308 | . 313 | . 313 | 313 | 313 | . 313 | 313 | . 313 | . 313 | . 313 | . 317 | . 324 | . 327 | . 327 | . 348 | . 367 |
| Animal and fish fats: $\triangle$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tallow, edible: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (quantities rendered)..-..--mill 1b-- | 541.6 | 544.8 | 47. 6 | 46.2 | 52.9 | 51.5 | 48.1 | 44.4 | 34.2 | 40.5 | 32.4 | 39.5 | 39.6 | ${ }^{\text {r }} 34.9$ | 28.0 |  |
| Consumption in end products..--------- do---- | 598.6 | 633.6 | 57.8 | 53.9 | 59.1 | 53.9 | 47.3 | 54.1 | 54.3 | 61.8 | 44.9 | 44.3 | 41.7 | - 36.2 | 37.2 |  |
|  | 41.3 | 45.3 | 36.7 | 35.7 | 37.2 | 38.3 | 45.3 | 50.8 | 43.9 | 31.8 | 28.3 | 26.9 | 22.8 | - 22.2 | 20.6 |  |
| Production (quantitles rendered) .........do.... | 4,967.7 | 4,834.3 | 408.2 | 394.0 | 423.6 | 424.9 | 404.2 | 408.1 | 341.1 | 365.5 | 312.3 | 375.9 | 352.0 | - 345.5 | 333.7 |  |
| Consumption in end products...-..........do. | 2,622.7 | 2,761. 6 | 241.8 | 236.7 | 240.3 | 222.5 | 204.5 | 232.6 | 205.7 | 234.7 | 205.3 | 231.1 | 206.8 | r 191.4 | 201.3 |  |
|  | 379.7 | 346. 1 | 326.5 | 346.1 | 330.7 | 323.5 | 346.1 | 343.0 | 392.0 | 363.7 | 336.3 | 313.4 | 326.2 | +370.3 | 361.0 |  |
| Fish and marine mammal oils: <br> Consumption in end products $\qquad$ do $\qquad$ | 57.1 | 41.9 | 4.5 | 3.3 | 3.5 | 3.3 | 3.2 | 3.7 | 2.0 | 1.8 | 1.8 | 2.1 | 2.1 | - 2. | 3.1 |  |
| Vegetable oils and related products: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Coronut oil: Production: Crude | (d) | (d) |  | (d) | (d) | (d) |  |  | (d) |  |  | (d) | (d) |  |  |  |
|  | 553.3 | 593.0 | 48.3 | 50.6 | 54.2 | 48.0 | 44.9 | 58.7 | 50.1 | 56.5 | 54.2 | 62.5 | 54.0 | - 44.2 | 47.3 |  |
| Consumption in end products....-........do | 740.4 | 824.9 | 75.1 | 71.4 | 69.7 | 70.9 | 66. 6 | 80.5 | 69.4 | 79.4 | 71.0 | 82.1 | 78.2 | -64.7 | 66.4 |  |
| Stocks, crude and ref., end of period $1 . . .$. do | 191.1 | 229.1 | 127.8 | 126.6 | 182.1 | 186.1 | 229.1 | 232.5 | 240.4 | 218.8 | 181.0 | 183.4 | 166.6 | 148.4 | 136.3 |  |
| Imports...........-.-.......-............-do....- | 628.6 | 677.0 | 47.0 | 31.7 | 67.0 | 37.3 | 50.4 | 69.8 | 112.5 | 70.9 | 36.7 | 61.3 | 43.7 | 41.9 | 64.1 |  |
| Corn oil: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 485.1 | 507.2 | 43. 5 | 43.2 | 44. 1 | 40.3 | 40. 1 | 42.6 | 41.7 | 46.3 | 40.6 | 46.2 | 45.9 | r 45.8 | 45.2 |  |
| Consumption Refned |  |  | 38.2 41.3 | 40.4 <br> 38.0 | 43.0 39.6 | 42.8 41.6 | 38.1 41.1 | 45.3 41 | 34.7 <br> 39 | 51.2 45.5 | 40.4 40.2 | 41.0 39.5 | 44.1 | r +4.1 +37.1 | 41.2 |  |
| Consumption in end products. | 446.3 57.0 | 463.7 76.8 | 41.3 67.3 | 38.0 69.8 | 39.6 73.3 | 41.6 72.7 | 41.1 76.8 | 41.6 69.7 | 39.7 65.9 | 45.5 66.7 | 40.2 79.5 | 39.5 88.4 | 41.7 91.2 | + 37.4 +92.1 | 45.2 70.5 |  |


dividual firms. ${ }^{1}$ Reffects revisions not available by months. ${ }^{2}$ Average for Jan.-Nov
${ }_{3}$ Average for Apr.-June and Aug.-Dec. ${ }^{4}$ Less than 500 sh. tons.
©Cases of 30 dozen. for prior periods. $\%$ Includes data not shown separately: see also note " $\S$ ". $\triangle$ For data on lard, see p. S-28. $\oplus$ Producers' and warehouse stocks. $\begin{aligned} & \text { stocks. }\end{aligned}$ Factory and warehouse

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

## FOOD AND KINDRED PRODUCTS; TOBACCO-Continued

| FATS, OILS, AND RELATED PRODUCTS-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vegetable olls and related products-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cotronsed cake and meal: | 1,720.6 | 1,923.8 | 87.2 | 78.4 | 200.4 | 242.4 | 228.4 | 238.7 | 218.0 | 236.8 | 208.9 | 195.7 | 158.8 | \% 131.0 | 124.4 |  |
| Stocks (at oil mills), end of period.......do.-.- | 93.1 | 50.0 | 67.7 | 32.9 | 37.5 | 44.5 | 50.0 | 48.7 | 51.7 | 73.2 | 100.6 | 114.8 | 122.1 | -108.9 | 82.3 |  |
| Cottonseed oil: <br> Production: Crude. $\qquad$ mil. lb.- | 1,209.4 | 1,355. 2 | 61.2 | 53.4 | 139.3 | 165.5 | 157.3 | 163.3 | 152.0 | 163.4 | 172.0 | 136.3 | 108.4 | - 92.9 | 87.1 |  |
|  | 1,985.7 | 1,133.5 | 74.6 | 41.8 | 95.4 | 121.9 | 140.1 | 124.9 | 135.0 | 140.7 | 128.9 | 126.0 | 99. 1 | -76.8 | 101.6 |  |
| Consumption in end products..---------- | 728.5 | ${ }^{1} 712.0$ | 70.6 | 50.9 | 65.7 | 68.7 | 63.5 | 61.2 | 55.4 | 88.4 | 73.7 | 88.1 | 80.5 | -69.5 | 65.1 |  |
| Stocks, crude and refined (factory and warehouse), end of period .................mill. lb | 188.3 | 187.4 | 137.9 | 114.2 | 142.5 | 161.5 | 187.4 | 215.4 | 239.1 | 212.7 | 220.6 | 232.5 | 215.8 | - 190.0 |  |  |
| Exports (erude and refined) .-...............do. | 2400.7 | 475.4 | 58.3 | 13.0 | 18.9 | 70.6 | +32.2 | 57.9 | 56.6 | 78.7 | 20.6 40.7 | 63.7 | 25.8 55 | 39.0 | 180.9 23.8 |  |
| Price, wholesale (N.Y.)...............-. ${ }^{\text {\% }}$ per li.. | . 190 | . 159 | . 150 | . 147 | . 150 | . 139 | . 141 | . 141 | . 166 | . 185 | . 190 | . 210 | . 223 |  |  |  |
| Linseed oll: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production, crude (raw) ......-.........-mil. lb.- | ${ }^{412.2}$ | 439.7 | 40.4 | ${ }^{41.1}$ | 34.0 | 35.0 | 28.2 | 31.3 | 25.1 | 26.5 | 28.5 | 30.2 | 39.9 | 29.6 | 33.4 |  |
|  | 213.6 | 243.7 | 23.2 | 20.9 | 21.7 | 18.5 | 17.1 | 15.8 | 14.5 | 18.7 | 17.3 | 20.2 | 21.1 | r 19.8 | 20.1 |  |
| tocks, crude and refined (lactory and warehouse), end of period. | 224.8 | 253.7 | ${ }^{253.3}$ | 259.1 | 258.4 | 246.3 | 253.7 | 225.3 | 22.1 | 177.3 | 153.4 | 127.1 | 113.0 | 「86.4 | 73.4 |  |
| Price, wholesale (Minneapolis) .........\$ per lb.- | . 089 | . 092 | . 095 | . 095 | . 095 | . 095 | . 095 | . 095 | . 095 | . 095 | . 095 | . 095 | . 140 | . 150 | . 150 |  |
| Soybean cake and meal: <br> Production thous. sh. tons | 17,104.2 | 16, 993.1 | 1,335 4 | 1,198 5 | 1,519.2 | 1,612.0 | 1,571.5 | 1,611.9 | 1,479.7 | 1,461.6 | 1,324.3 | 1,406.2 | 1,189.1 | 1,009.0 | 1,080. 5 |  |
| Stocks (at oil milis), end of period....-- do...- | 119.8 | 18, 180.5 | 174.6 | 150.6 | 148.3 | 133.7 | ${ }_{1}^{1,50.5}$ | ${ }^{1,62.3}$ | 1,47.8 | 1,167.1 | 169.4 | 156.5 | $1,188.5$ 158 | r'166.0 | ${ }^{1,08.2}$ |  |
| Soybean oil: |  |  | 645.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 8,298.0 | 6, 864.0 | 655.7 550.4 | 528.1 | 561.1 | 758.4 | 76.6 553.9 | 783.5 570.1 | 676.8 519.4 | 680.8 575.2 | 618.3 511.8 | 655.8 538.9 | 553.1 | r 470.1 $r$ 428. | 500.8 539.8 |  |
| Consumption in end products.-.-.-...-- - | 6, 322.9 | 6,748.7 | 571.6 | 560.6 | 595.1 | 584.7 | 588.1 | 589.2 | 538.9 | 589.0 | 521.2 | 581.8 | 534.3 | ¢ 464.2 | 577.8 |  |
| Stocks, crude and refined (factory and warehouse), end of period mil. Ib. | 802.2 | 896.5 | 84.6 | 785.2 | 806.2 | 839.1 | 896. 5 | 948.6 | 966.5 | 920.5 | 1,004.8 | 900.1 | 822.7 | r 748.7 | 623.3 |  |
| Exports '(crude and refined) $\qquad$ do | 21,611.7 | 1,148.7 | 57.5 | 68.3 | 58.4 | 109.7 | 50.7 | 52.7 | 120.9 | 132.3 | 49.3 | 111.8 | 90.3 | 81.5 | 39.7 |  |
| Price, wholesale (refned; N.Y.)........\$ per ib.- | . 151 | . 131 | . 128 | . 125 | . 120 | . 117 | . 124 | . 117 | . 150 | . 166 | . 174 | . 189 | . 226 |  |  |  |
| TOBACCO |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Leaf: <br> Production (crop estimate) $\qquad$ mil. lb. | ${ }^{11,705}$ | ${ }^{11,749}$ |  |  |  |  |  |  |  |  |  |  |  |  |  | 70 |
| Stocks, dealers' and manufacturers' end of perlod | - 4.828 | 1,749 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exports, incl. serap and stems..........thous. 1 l .. | 2474,209 | 606, 176 | 40,455 | 48, 264 | -54,114 | -63,105 | 66, 151 | -43,050 | -45,276 | 45,597 | 43,573 | 46, 140 | 45,321 | 40,122 | 40,593 |  |
| Imports, incl. scrap and stems...-.-...-...-- do.... | 2488, 529 | 240, 509 | 23,934 | 21,040 | 20,924 | 17,123 | 19,637 | 21, 516 | 24, 416 | 20,052 | 20, 904 | 25,603 | 19,045 | 19,069 | 21,650 |  |
| Manulactured: <br> Consumption (withdrawals): Cigarettes (small): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 528, ${ }^{49} \mathbf{2 0 6}$ | ${ }^{47,171}$ | -4, ${ }^{4,676}$ | 45, 172 | 51, 321 | 4,136 46,937 | 4,079 36,762 | 4,070 48,230 | - $\begin{array}{r}4,917 \\ 45,576\end{array}$ | 5,219 49,346 | 4, 4.821 | 3,988 52,042 | -4,237 | 4,469 43,525 |  |  |
|  | 6,506 | 5, 591 | -3,563 | 45, 485 | 51,321 | $\begin{array}{r}46,937 \\ \hline 20\end{array}$ |  | 48, 464 |  |  | 44,693 485 | 52, 507 | 50, 483 | 43,503 403 |  |  |
|  | 31,802 | 34,602 | 2,923 | 2,921 | 3,544 | 3,476 | 3,089 | 2,343 | 3,546 | 3,834 | 4,226 | 2, 642 | 2,917 | 3,133 | 4,391 |  |

## LEATHER AND PRODUCTS

| Exports: HIDES AND SEINS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 155, 821 | 292, 023 | 23,993 | 24,376 | 36, 113 | 40,816 | 37, 255 | 35,887 | 45,483 | 44,199 | 30, 863 | 33,474 | 25,441 | 23,731 | 24,077 |  |
|  | 2,222 | 2,064 | ${ }^{180}$ | -153 | 3,164 | -156 | ${ }_{1} 172$ | 223 | -177 | -200 | ${ }^{5} 131$ | 33, 209 | 25,413 | ${ }^{2}, 117$ | -135 |  |
| Cattle hides.........................thous. hides.- | 15,962 | 17,589 | 1,324 | 1,290 | 1,893 | 1,733 | 1,524 | 1,461 | 1,837 | 1,802 | 1,340 | 1,411 | 1,266 | 1,155 | 1,100 |  |
| Imports: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 52, 100 | 65, 200 | 5,700 | 4,400 | 5,700 | 4, 200 | 3,800 | 7,000 | 7,500 | 9,700 | 9,400 | 8,700 | 7,900 | $8{ }^{8} 600$ | 6,900 |  |
| Sheep and lamb skins_..----.....-.thous. pieces | 19, 283 | 16, 852 | 1,393 | 1,075 | 704 | ${ }_{1} 326$ | 405 | ${ }^{910}$ | 1,437 | 1,883 | 1,547 | 1,219 | 804 | 1,598 | 1,157 |  |
|  | 1,956 | 3,355 | 268 | 206 | 425 | 159 | 165 | 256 | 253 | 152 | , 237 | 272 | 52 |  | 113 |  |
| Prices, wholesale, f.o.b shipping point: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caliskins, packer, heavy, $93 / 2 / 15 \mathrm{lb}-\ldots . .$. per lb.. Hides, steer, heavy, native, over 63 lb .....do... | . 294 | .563 .296 | .650 .340 | .650 .335 | .650 .405 | .650 .430 | 660 .320 | .660 .340 | .660 .335 | .660 .283 | .610 .383 | .610 .363 | . 610 | .610 .363 | .610 .883 | .610 .355 |
| Leather |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production: ${ }_{\text {Calf }}$ and whole klp.................thous. skins.. | 1,621 | 1,603 | 148 | 118 | 133 | 143 | 108 | 114 | 88 | 99 | 77 | 117 | 124 | 81 |  |  |
| Cattle hide and side kip.-...thous. hides and kips-- | 20, 477 | 20,084 | 1,804 | 1,693 | 1,712 | 1,546 | 1,387 | 1,504 | 1,446 | 1,637 | c 1,515 | 1,627 | 1,582 | 1,141 |  |  |
| Goat and kid.-......................thous. skins. - | 3, 148 | 3, 522 | , 334 | , 292 | 309 | , 291 | ${ }^{1} 330$ | 278 | ${ }^{1} 215$ | ${ }^{246}$ | - 251 | 257 | 248 | 141 |  |  |
|  | 21,385 | 20, 191 | 1,869 | 1,545 | 1,663 | 1,727 | 1,514 | 1,312 | 1,268 | 1,422 | 1,374 | 1,418 | 1,380 | 968 |  |  |
| Exports: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Upper and lining leather ....-.-.......thous. sq. ft.- | 82,944 | 2117, 558 | 10,935 | 11,781 | 11.413 | 10,323 | 8,223 | 8,746 | 7,872 | 9,254 | 11,311 | 12,618 | 10,873 | 8,154 | 10,353 |  |
| Prices, wholesale, f.o.b. tannery: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  <br> Upper, chrome calf, B and C grades | 114.4 | ${ }^{2} 157.5$ |  |  | 194. 2 | 194, 2 | 194.2 | 194.2 | 194.2 | 194.2 | 194.2 | 194.2 | 166.8 | 166.8 |  | 187.0 |
| index, $1967=100 .$. | 81.8 | 106.7 | 111.7 | 115.3 | 117.9 | 117.9 | 117.9 | 117.9 | 117.9 | 117.9 | 124.2 |  |  |  |  |  |
| LEATHER MANUFACTURES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shoes and sllppers: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production, total. $\qquad$ thous, pairs Shoes, sandals, and play shoes, except athletic | 535,777 | 525,665 | r 47,246 | 44, 243 | r 46,243 | 41,056 | 38,547 | 42, 874 | 41, 555 | 46,495 | 41,678 | 41,669 | 41,513 | 31,939 | 43,865 |  |
| Slippers thous. pairs.. | 425,875 | 417,604 | 36, 546 | 33, 749 | 34, 615 | 30,663 | 31,298 | 34, 301 | 33, 265 | 36,761 | 32, 584 | 31, 395 | 32, 301 | 25, 536 | 33, 025 |  |
|  | 98,147 8,440 |  | 9,760 729 | -9,526 | 10,818 810 | -9,305 | 6, 705 | $\begin{array}{r}7 . \\ \hline 861 \\ \hline 8\end{array}$ | $\begin{array}{r}7,343 \\ 802 \\ \hline\end{array}$ | 8,701 | 8,059 860 | 9,094 | 8,169 842 | 5.745 569 | 9,723 880 |  |
|  | 3,315 | 2, 053 | 211 | 196 | 155 | 227 | 180 | 163 | 145 | 149 | 175 | 237 | 201 | 89 | 237 |  |
|  | 2,106 | 22,253 | 222 | 206 | 218 | 231 | 220 | 190 | 226 | 254 | 264 | 284 | 335 | 312 | 357 |  |
| Prices, wholesale, f.o.b. factory: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Men's and hoys' oxfords, dress, elk or side upper, Goodyear welt $\ldots \ldots$ index, $1967=100$ | 117.5 | 128.6 | 131.4 | 131.4 | 131.4 | 135.0 | 135.0 | 135.0 | 138.9 | 138.9 | 140.1 | 140.1 | 140.1 | 140.1 | 140.1 | 140.1 |
| Women's oxfords, elk side upper, Goodyear |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wemen's pumps, low-medium quality | 120.1 | 125.7 4127 | $127.9$ | 127.9 | 127.9 | 129.2 | 129.2 | 129.2 | 131.2 | 131.2 | 135.5 130.4 | 135.5 | 135.5 121.1 | 135.5 121.1 | $\begin{aligned} & 135.5 \\ & 121.1 \end{aligned}$ | $\begin{aligned} & 135.5 \\ & 121.1 \end{aligned}$ |

R Revised. ${ }^{1}$ Crop estimate for the year. $\quad$ Corrected.
${ }^{2}$ A nnual total reflects revisions not distributed to the monthly data

4 Jan.-Aug. average.
6 Oct. 1 estimate of 1973 crop.
\& Includes data for items not shown separately.

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

LUMBER AND PRODUCTS

| LUMBER-ALL TYPES ${ }^{\text {\% }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| National Forest Products Association: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 136,693 6,949 | $\begin{array}{r}1 \\ 38,867 \\ 7 \\ \hline 1,244\end{array}$ | 3,417 600 | $\begin{array}{r}3,303 \\ \hline 95\end{array}$ | ${ }^{3,528}$ | 3,193 615 | 2,664 430 | 3, 012 | 3,074 545 | 3,456 | 3,272 510 | 3,290 491 | 3,207 | 3,038 580 | 3,456 |  |
|  | 29, 744 | 31,622 | 2,817 | 2,708 | 2,901 | 2,578 | 2,234 | 2,477 | 2,529 | 2, 890 | 2,763 | 2,799 | 2,658 | 2,458 | 2,825 |  |
| Shipments, total...-.-.-.-.-................- do.... | ${ }^{1} 37,769$ | ${ }^{1} 40,070$ | 3,468 | 3,387 | 3,520 | 3,203 | 2,776 | 3,153 | 3, 102 | 3,474 | 3,386 | 3,351 | 3,264 | 3,044 | 3,402 |  |
|  | 7,455 | 7,731 | 609 | 6 630 | 627 | 615 | 479 |  | 606 | 642 | 620 | 563 | 5 544 | 534 | , 582 |  |
|  | 30,314 | 32,339 | 2,859 | 2,757 | 2,893 | 2,588 | 2,297 | 2,475 | 2,496 | 2,832 | 2,766 | 2,788 | 2,720 | 2,511 | 2,820 |  |
|  | $\begin{array}{r}5,288 \\ \hline 999\end{array}$ | 4, 086 | 4, 184 | 4, 0974 | 4, 149 | 4,094 438 | + $\begin{array}{r}\text { 4, } 086 \\ 512\end{array}$ | 3,954 369 | 3,926 | 3,802 224 | 3, 8296 | 3,835 150 | 3,765 152 | $\begin{array}{r}\text { 3,758 } \\ \hline 198\end{array}$ | $\begin{array}{r}3,813 \\ \hline 248 \\ \hline\end{array}$ |  |
|  | 4,289 | 3,574 | 3,705 | 3,656 | 3,708 | 3, 656 | -3,574 | 3,586 | 3,619 | 3,677 | 3,674 | 3,686 | 3,613 | 3,561 | 3,565 |  |
|  | 1,081 <br> 7 | 1,390 $\mathbf{9 , 4 2 8}$ | 132 690 | 129 820 | 139 815 | 104 886 | 103 689 | 125 935 | 130 760 | 176 883 | 194 837 | 201 931 | 174 899 | 152 823 | 181 |  |
| SOFTWOODS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Douglas fr: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Orders, new mil. <br> Orders, unfiled, end of period $\qquad$ bd ft.- | 8,507 | 9,242 617 | 720 583 | 942 <br> 684 | 776 686 | 638 577 | 636 617 | 759 666 | 720 695 | 864 752 | 783 731 | 692 643 | 813 636 | 803 726 | 736 622 |  |
| Production.-.------..........................do..-. | 8,283 | 8,983 | 714 | 861 | 784 | 742 | 552 | 743 | 736 | 877 | 814 | 769 | 792 | 682 | 814 |  |
|  | 8,308 | 9,191 | 747 | 841 | 774 | 747 | 596 | 710 | 691 | 807 | 804 | 780 | 820 | 713 | 840 |  |
| Stocks (gross), mill, end of period..-------do.-.- | 943 | 735 | 754 | 774 | 784 | 779 | 735 | 768 | 813 | 883 | 893 | 882 | 854 | 823 | 797 |  |
| Exports, total sawmill products....-.-..... do | 329 | 405 | 35 | 37 | 34 | 35 | 25 | 46 | 45 | 53 | 7 | 79 | 53 | 47 | 56 |  |
|  | 88 | 111 | 12 | 9 | 17 | 4 | 4 | 16 | 14 | 6 | 27 | 39 | 13 | 10 | 16 |  |
| Boards, planks, scantings, etc..--------do..- | 240 | 294 | 24 | 28 | 18 | 31 | 21 | 31 | 31 | 47 | 49 | 40 | 40 | 37 | 40 |  |
| Prices, wholesale: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| er M bd. It.. | 2117.68 | 144.27 | 149.72 | 150.30 | 150.70 | 151. 28 | 151.28 | 152.46 | 168.46 | 193.96 | 197.22 | 209.91 | 192.13 | 180.93 | 180.19 | 190.27 |
| Southrrn pine: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Orders, new | 17,942 421 | 18,539 435 | 824 508 | 798 510 | 794 <br> 504 | 706 494 | 634 435 | 677 | 703 536 | 763 | 644 525 | 726 | ${ }_{546}^{656}$ | 609 | 690 |  |
|  | 17.73 | 18,337 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 17,894 | 18,525 | 826 | 796 | 800 | 716 | 693 | 640 | 639 | 738 | 680 | 695 | 666 | 627 | 668 |  |
| Stocks (gross), mill and concentration yards, end of period. mill. bd. ft- | 1,216 | 1,028 | 1,041 | 1,015 | 1,030 | 1,024 | 1,028 | 1,047 | 1,048 | 1,041 | 1,004 | 1,014 | 997 | 998 | 1,019 |  |
| Exports, total sawmill products......... M bd. it-- | 64,923 | 64, 456 | 5, 044 | 4,852 | 7,728 | 4,429 | 6,618 | 4,877 | 4,715 | 6,508 | 10,020 | 8,803 | 9,580 | 7,946 | 9,696 |  |
| Prices, wholesale, (Indexes): <br> Boards No. 2 and better, $1^{\prime \prime} \times 6^{\prime \prime}$ R. L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Boards, No. 2 and better 1 , $1967=100$. | 133.7 | 154.7 | 158.5 | 159.6 | 159.9 | 159.9 | 159.9 | 160.4 | 168.5 | 176. 5 | 188.4 | 195.0 | 204.9 | 201.4 | 214.1 | 217.6 |
| $67=100$. | 132.8 | 140.8 | 140.7 | 141.5 | 141.8 | 143.4 | 143.4 | 143.4 | 150.3 | 162.7 | 169.9 | 178.6 | 200.1 | 185.9 | 192.4 | 211.0 |
| Western pine: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Orders, new | $\begin{array}{r} 10,299 \\ 362 \end{array}$ | $\begin{array}{r} 10,756 \\ 555 \\ \hline \end{array}$ | $\begin{aligned} & 9444 \\ & 540 \end{aligned}$ | $\begin{array}{r} 1,037 \\ 591 \end{array}$ | 929 555 | $\begin{aligned} & 731 \\ & 494 \end{aligned}$ | $\begin{aligned} & 803 \\ & 555 \end{aligned}$ | $\begin{aligned} & 820 \\ & 569 \end{aligned}$ | 877 616 | $\begin{aligned} & 950 \\ & 629 \end{aligned}$ | $\begin{aligned} & 877 \\ & 602 \end{aligned}$ | $\begin{aligned} & 901 \\ & 552 \end{aligned}$ | $\begin{aligned} & 885 \\ & 551 \end{aligned}$ | $\begin{aligned} & 9494 \\ & 631 \end{aligned}$ | $\begin{aligned} & 957 \\ & 627 \end{aligned}$ |  |
|  | 10.019 | 10,395 | 929 | 970 | 956 | 812 | 723 | 745 | 818 | 933 | 934 | 971 | 882 | 857 | 970 |  |
|  | 10, 271 | 10, 563 | 938 | 986 | 965 | 792 | 742 | 806 | 830 | 937 | 904 | 951 | 886 | 869 | 961 |  |
| Stocks (gross), mill, end of perlod....--....do...- | 1,382 | 1,214 | 1,238 | 1,222 | 1,213 | 1,233 | 1,214 | 1,153 | 1,141 | 1,137 | 1,167 | 1,187 | 1,183 | 1,171 | 1,180 |  |
| Price, wholesale, Ponderosa, boards, No. 3, $1^{\prime \prime} x$ $12^{\prime \prime}$, R. L. ( $6^{\prime}$ and over)......... $\$$ per M bd. ft. | 96.44 | 130.91 | 139.34 | 138.78 | 138.44 | 138.05 | 136. 37 | 139.85 | 154. 21 | 183.12 | 212.59 | 243.95 | 228.13 | 197.73 | 160.65 | 155.33 |
| HARDWOOD FLOORING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oak: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Orders, new--........................ mil. bd. It.- | 323.3 | 268.2 | 26.1 | 21.6 | 20.2 | 17.3 | 14.6 | 18.4 | 14.8 | 16.3 | 13.3 | 15.1 | 16.2 | 13.2 | 17.4 |  |
| Orders, unfilled, end of period.----------- do...- | 8.1 | 11.6 | 14.6 | 14.0 | 13.4 | 12.2 | 11.6 | 9.2 | 7.9 | 7.3 | 5.0 | 4.0 | 6.0 | ${ }^{6} 6.3$ | 5.5 |  |
|  | ${ }^{206.6}$ | 244.8 | 25.1 | 20.5 | 20.4 | 19.7 | 15.4 | 16.8 | 14.9 | 16.3 | 15.1 | 15.8 | 14.6 | 12.6 | 18.9 |  |
|  | 320.9 | 261.1 | 25.7 | 22.1 | 20.8 | 20.0 | 14.8 | 18.6 | 15.8 | 17.1 | 15.9 | 16.6 | 15.3 | 11.6 | 18.1 |  |
| Stocks (gross), mill, end of period....-......do...- | 22.0 | 6.6 | 8.8 | 7.2 | 6.8 | 6.8 | 6.6 | 5.7 | 5.1 | 4.6 | 3.8 | 3.7 | 3.2 | 3.6 | 4.4 |  |

METALS AND MANUFACTURES

| Exports: IRON AND STEEL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Steel mill products_-------.-----thous. sh. tons.- | 2, 827 | 2,873 | 301 | 304 | 252 | 207 | 245 | 288 | 221 |  | 340 | 372 | 323 | 343 | 324 |  |
|  | 6,256 | 7,383 | 595 | 611 | 653 | 695 | 895 | 900 | 836 | 1,090 | 771 | 1,217 | 1,057 | 1,130 | 1,234 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ${ }^{1} 18,304$ | 17,681 | 1,787 | 1,570 | 1,910 | 1,824 | 1,609 | 1,381 | 1,306 | 1,170 | 1,051 | 1,604 | 1,229 | 1,380 | 1,316 |  |
|  | 325 320 | 373 653 | 24 43 | 31 68 | 26 68 | 32 49 | 35 116 | 36 27 | 25 7 | $\begin{aligned} & 31 \\ & 11 \end{aligned}$ | 33 59 | $\begin{aligned} & 46 \\ & 71 \end{aligned}$ | 51 53 |  | $\begin{aligned} & 36 \\ & 36 \end{aligned}$ |  |
| Iron and Steel Scrap |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 49, 169 | ${ }^{1} 51,184$ | 4.334 | 4,336 | 4,542 | 4,342 | 4,408 | 4,731 | 4,465 | 5,071 | 5,013 | 5,099 | ${ }^{-4,810}$ | -4, 551 |  |  |
|  | 133,987 | 1 42, 599 | 3,087 | 3, 142 | 3,480 | 3,351 | 3,187 | 3, 459 | 3,328 | 3, 899 | 3,693 | 3,856 | -3,668 | p 3, 378 |  |  |
|  | ${ }^{1} 82.567$ | ${ }^{1} 94,300$ | 7,279 | 7,591 | 8,149 | 7,877 | 7,848 | 8,381 | 7,866 | 8,915 | 8,846 | 9,039 | -8,495 |  |  |  |
|  | 8,494 | 8,169 | 8,792 | 8,644 | 8, 593 | 8,390 | 8, 134 | 7,878 | 7,918 | 7,973 | 7,843 | 7,792 | $\stackrel{+789}{ }$ | p 7,880 |  |  |
| Prices, steel scrap, No. 1 heavy melting: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Composite ( 5 markets) .-....-...-...-\$ per lg. ton.. | 33.19 | 34.65 | 35.68 | 35.76 | 36.62 | 37.09 | 39.08 | 43.53 | 48.27 | 46.37 | 44.57 | 49.65 | 52.92 | 52.95 | 52.95 | 56.28 |
| Pittshurgh district....-....- ----.....do.... | 36. 80 | 38.00 | 40.50 | 40.50 | 38.50 | 40.50 | 43.00 | 48.50 | 48.00 | 48.00 | 44.50 | 52.50 | 55.50 | 55.50 | 56.00 | 58.50 |

$r$ Revised. $\quad$ Preliminary. ${ }^{1}$ Annual data; monthly revisions are not available.
${ }^{2}$ Beginning Jan. 1971, data reflect changes in size specifications, and are not comparable with
those for earlier periods. ${ }^{3}$ Less than 500 tons.
o Totals include data for types of lumber not shown separately

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

METALS AND MANUFACTURES—Continued


| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. Nov. Dec. |  |  | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

METALS AND MANUFACTURES-Continued

| NONFERROUS METALS AND PRODUCTS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aluminum: Production, |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| thous. sh. tons <br> Recovery from scrap (aluminum content) .-do.... | 3,925 1943 | 4,122 | 349 87 | 347 89 | 363 90 | 357 83 | 364 88 | 372 87 | 351 | 389 99 | 371 90 | 380 99 | 373 90 | 382 81 |  |  |
| Imports (general): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Metal and alloys, crude.-....-.-.......-. - do | 560.4 | 646.4 | 39.2 | 52.2 | 47.0 | 5? . 3 | 54.5 | 58.2 | 38.8 | 50.9 | 43.1 | 44.7 | 50.7 | 34.6 | 36.0 |  |
|  | 71.0 | 80.9 | 7.5 | 5.0 | 5.4 | 5.9 | 6.0 | 6.5 | 6.2 | 6.4 | 4.6 | 5. 6 | 4.8 | 4.3 | . 9 |  |
| Exports: Metal and alloys, crude | 112.3 | 108.3 | 7.3 | 9.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Metal and allovs, crude Plates, sheets, bars, etc.*- | 149.0 | 154.0 | 9.7 | 11.9 | 14.2 14.4 | 10.0 14.8 | 14.0 13.7 | 12.4 18.5 | 11.5 13.1 | 10.6 18.5 | 12.4 19.4 | 11.10 | 10.3 17.3 | 14.1 15.1 | 16.4 15.7 |  |
| Price, primary ingot, $99.5 \%$ minimum... $\$$ per $\mathrm{lb} .$. | . 2900 | 2645 | . 2500 | . 2500 | . 2500 | 2500 | . 2500 | . 2500 | . 2500 | 2500 | . 2500 | . 2500 | . 2500 | 2500 | . 2500 | . 2500 |
| Alaminum products: Shipments: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ingot and mill prod. (net ship.).........mil | 10,258.2 | 111,821.8 | 9988 | 983.1 | 1,015.4 | 1,038.8 | 1,024.0 | 1,157.0 | 1.101.8 | 1,257. 1 | 1,178.7 | -1,262.2 | 1,228.7 |  |  |  |
| Mill products, total | 7,846.2 4 | $9,209.2$ $4,760.4$ | 797.1 407.3 | 778.6 403.6 | 794.2 397.3 | 776.9 393.0 | 765.8 <br> 404 <br> 1 | 826.3 424.2 | 818.8 430.5 | 951.3 502.0 | 906.5 479.1 | +968.8 +517.7 | 939.7 493.7 |  |  |  |
| Castings_.-...... | 1,577.2 | -1,860.0 | 147.7 | 152.1 | 165.8 | 171.6 | 154.3 | ${ }_{186.3}^{48}$ | 478.6 | 191.9 | 172.7 | 180.0 | 171.3 |  |  |  |
| Inventories, total (ingot, mill prod., and serap), end of period. mil. lb. | 5,029 | 4,804 | 4,877 | 4,840 | 4,828 | 4,808 | 4,804 | 4,840 | 4,764 | 4,696 | 4,622 | +4,561 | 4,547 |  |  |  |
| Copper: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production: Mine, recoverable copper......thous. sh. tons. | 1,522.2 | 1,664.8 | 136.7 | 138.2 | 140. | 135. | 137. | 137.3 | 135 | 151 | 150.4 | 152.1 | 147.5 | 131.5 |  |  |
| Refinery, primary ..........................do... | 1,591.8 | 1,809.1 | 142.0 | 149.9 | 149.2 | 157.6 | 143.8 | 1157.4 | 143.8 | 166.7 | 158.1 | 168.7 | 163.4 | 145.0 |  |  |
|  | 1,410. 5 | 1,616.2 | 129.4 | 128.7 | 11.2 | 134.9 | 132.7 | 141.1 | 128.8 | 145.6 | 143.1 | 153.7 | 147.3 | 132.8 |  |  |
| From forelgn ores | 181.3 | 192.8 | 12.6 | 21.2 | 18.0 | 22.7 | 11.1 | 16.4 | 15.0 | 21.0 | 15.0 | 15.0 | 16.1 | 12.2 |  |  |
| Secondary, recovered as | 371.0 | 383.0 |  | 493 |  |  | 494 |  |  |  |  |  |  |  |  |  |
| Imports (general) : |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reffned, unrefined, scrap (copper cont.).-do..-- | 365.8 | 423.6 189.8 | 35.6 | 36.3 | 43.0 | 47.6 | 22.8 | 40.8 | 39.9 | 44.6 | 27.9 | 31.5 | 21.5 | 36.4 | 21.1 |  |
|  | 162.1 | 189.8 | 18.5 | 14.0 | 21.7 | 23.3 | 11.6 | 21.3 | 18.2 | 21.5 | 12.7 | 16.2 | 10.4 | 12.2 | 8.0 |  |
| Exports: <br> Refined an | 283.0 | 267.7 | 19.6 | 20.8 | 20.3 | 15.8 | 19.9 | 22.1 | 24.4 | 23.6 | 28.8 | 23.4 | 31.1 | 48.9 | 36.3 |  |
|  | 187.7 | 182.7 | 12.3 | 12.8 | 13.7 | 10.7 | 14.7 | 15.9 | 15.6 | 12.8 | 17.7 | 13.5 | 18.3 | 19.7 | 18.4 |  |
| Consumption, refined (by mills, etc.)......do | 2,014 | 2,230 |  | 4504 |  |  | -601 |  |  |  |  |  |  |  |  |  |
| Stocks, refined, end of period................do. | 277 | 114 |  | 294 |  |  | 271 |  |  |  |  |  |  |  |  |  |
| Fabricators | 174 | 114 |  | 136 |  |  | 114 |  |  |  |  |  |  |  |  |  |
| Price, 日lectrolytic (wirebars), dom., delivered \$ per lb.- | 2. 5201 | . 5124 | 5061 | . 5061 | . 5061 | . 5061 | . 5061 | . 5239 | . 5457 | 6978 | . 6008 | . 6008 | . 6008 | . 6008 | 6008 | . 6008 |
| Copner-base mill and foundry products, shipments <br> (quarterly total): <br> Brass mill products | 2,711 | 2,985 |  | 700 |  |  | 786 |  |  |  |  |  |  |  |  |  |
| Copper wire mill products (copper cont.) .-do..- | 2,354 | 2,647 |  | 628 |  |  | 699 |  |  | 791 |  |  |  |  |  |  |
| Brass and bronze foundry products .......-do | - 705 | 767 |  | 172 |  |  | 187 |  |  | 200 |  |  |  |  |  |  |
| Lead: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mine, recoverable lead .-.....thous. sh. tons.- | 578.6 | 618.9 | 56.9 | 50.6 | 51.7 | 46.1 | 45.0 | 53.5 | 49.5 | 44.8 | 39.3 | 56.1 | - 43.4 | 51.2 |  |  |
| Recovered from scrap (lead cont.)........do..-- | ${ }^{1} 596.8$ | 595.1 | 49.6 | 51.4 | 49.5 | 51.6 | 45.4 | 55.3 | 56.2 | 56.4 | 56.8 | 59.1 | 56.3 | 45.7 |  |  |
| Imports (general), ore (lead cont.), metal...do | 261.7 | 344.6 | 22.9 | 38. 4 | 22.6 | 27.2 | 23.6 | 45.1 | 27.6 | 17.7 | 16.5 | 22.1 | 21.3 | 36.5 | 28.4 |  |
|  | 1,431. 5 | 1,485.3 | 123.4 | 122.2 | 127.6 | 126.8 | 116.0 | 128.8 | 124.1 | 134.4 | 121.7 | 123.7 | 124.0 | 99.7 |  |  |
| Stocks, end of period: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Producers', ore, base bullion, and In process (lead content), A BMS...... thous. sh. tons | 154.7 | 168.0 | 161.4 | 165.3 | 169.4 | 173.0 | 168.0 | 165.9 | 151.9 | 141.7 | 127.4 | 126.3 | 134.3 | 154.2 |  |  |
| Refners' (primary), refined and antimonial (lead content) ,.......thous. sh. tons | 52.1 | 64.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Consumers' (lead content) ${ }^{\text {at---.........do..-- }}$ | 125.6 | 113.2 | 128.6 | 125.8 | 119.4 | 117.2 | 113.2 | 115. 1 | 109.8 | 115.6 | 117.1 | 118.7 | 120.3 | 131.0 |  |  |
| Scrap (lear-base, purchased), all smelters (gross weight) thous. sh tons | 76.2 | 60.2 |  | 62.9 | 63.3 | 53.7 |  |  |  | 63.0 |  |  |  |  |  |  |
|  | . 1380 | . 1503 | . 1541 | . 1600 | . 1467 | . 1450 | . 1450 | . 1482 | . 1526 | . 1600 | . 1602 | . 1648 | 1650 | . 1650 | . 1650 | 1650 |
| Tin: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports (for consumption): <br> Ore (tin content) | 3, 060 |  |  | 529 |  | 91 |  |  |  |  |  | 564 |  |  |  |  |
| Metal, unwrought, unalloyed......--...-- do..-- | 1 46.940 | 52, 451 | 3,406 | 2,105 | 6,532 | 4,723 | 4, 135 | 5. 103 | 2,967 | 5,221 | 3,547 | 5,474 | 4, ${ }^{489}$ | 4,858 | 3,622 |  |
| Recovery from scrap, total (tIn cont.) .....-do | 120, 1296 |  | 1,690 | 1, 815 | 1,685 | 1, 820 | 1,470 | 1,670 | 1,710 | 1,955 | 1,755 | 1,725 | 1,705 | 1,290 |  |  |
| As metal | 12,324 | 12,199 169 | ${ }_{5} 220$ | 195 | , 215 | 180 |  | 175 | 145 | 150 | 155 | 190 | ${ }^{160}$ | 150 |  |  |
|  | 169,950 151,980 | 169,033 153,506 | 5,660 4,335 | 5,405 4,210 | 5, 700 4,345 | 5, 365 4,115 | 5, 525 4,180 | 5, 870 4,735 | 5,945 4,625 | 6, 370 $\mathbf{5 , 0 2 5}$ | 6,310 5,040 | 6,465 5,185 | 6,230 4,850 | 5,210 4,255 | $\begin{aligned} & 5,630 \\ & 4,460 \end{aligned}$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exports, incl. reexports (metal) .-........do Stocks, plg (industrial), end of period.-. do | 2,306 | 1,466 | 95 | 145 | 34 | 81 | 226 | 126 | 311 | 130 | 95 | 51 | 158 | 291 | 249 |  |
| Stocks, pig (industrial), end of period.....do | 2, 9,804 1.6734 | 11,766 | ${ }_{1}^{12,7912}$ | 10.080 1.8199 | 11,370 | 12,180 | 11,766 1.7625 | 10,270 1.7904 | 8,880 1.9197 | 9,610 2. 0509 | 2. 9.2744 | 8,155 2.0911 | 2. ${ }^{9,1230}$ | 8,895 2.3755 | 10,795 | 2. 4023 |
| Zinc: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mine prod., recoverable zinc....thous. sh. tons.- | 502.6 | 1478.3 | 41.4 | 38.9 | 40.7 | 38.9 | 33.9 | 40.8 | 36.5 | 39.3 | 36.9 | 40.1 | r 36.8 | 40.0 |  |  |
| Imports (general): <br> Ores (zinc content) $\qquad$ do | 342.6 | 254.9 | 8.9 | 16.2 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 319.6 | 522.6 | 40.6 | 56.5 | 21.8 46.9 | 14.4 60.4 | 11.8 37.8 | 69.8 | ${ }_{46.2}^{19.8}$ | 52.1 | ${ }_{38.8}^{18.0}$ | 40.7 | 19.0 50.3 | 53.4 | 49.8 |  |
| Consumption (recoverable zinc content): |  | 1118 | 8.5 | 9.3 |  |  | 13.3 |  |  | 13.9 | 15.1 | 14.9 | 12.5 | 4 |  |  |
|  | 1277.3 | ${ }^{1} 292.1$ | 22.2 | 21.7 | 22.0 | ${ }_{22.8}^{13.2}$ | ${ }_{21.9}^{13.3}$ | 22.0 | 22.1 | ${ }_{22.8}^{13.9}$ | 22.3 | 25.6 | 24.8 | 23.0 |  |  |
| Slab zinc: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (primary smelter), from domestic and foreign ores thous. sh. tons | : 766.4 | p 1630.4 | 56.3 | 53.1 | 57.1 | 56.6 | 51.8 | 56.0 | 50.7 | 56.8 | 54.1 | 53.2 |  | 49.8 |  |  |
| Secondary (redistilled) production.......do... | 180.9 | 67.5 | 5.8 | 5.4 | 7.0 | 6.4 | 5.3 | 5.8 | 5.3 | 6.4 | 6.4 | 6.4 | 5.3 | 5.3 |  |  |
| Consumption, fabricators.....-........... do | ${ }^{1} 1,254.1$ | ${ }^{11,418.3}$ | ${ }^{125.4}$ | $\underset{(5)}{121.8}$ | 129.0 | $\underset{(3)}{123.6}$ | 112.8 | ${ }_{(3)}^{129.6}$ | 123.7 | $\begin{array}{r}134.7 \\ \hline\end{array}$ | 128.3 .4 | $\begin{array}{r}134.0 \\ \hline .4\end{array}$ | 122.3 .6 | 111.4 1.0 | 1.5 |  |
| Stocks, end of period: |  |  |  | () |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ${ }^{1} 41.3$ | 121.2 | 23.5 | 28.0 | 31.2 | 32.3 | 31.8 | 32.7 | 31.3 | 30.4 | 28.1 | 24.6 | 22.2 1109 | ${ }_{116.3}^{25.1}$ | 27.4 | 33.0 |
|  | ${ }^{1} 104.3$ | 1126.1 | 138.4 | 144.3 | 140.4 | 143.9 | 138.8 | 123.9 | 121.1 | 127.4 | 120.9 | 114.0 | $110.9$ | ${ }_{2034}^{116.3}$ |  |  |
|  | - . 1613 | . 1775 | . 1800 | . 1800 | . 1800 | . 1800 | . 1811 | . 1866 | . 1928 | . 1985 | . 2032 |  | . 2031 |  | 2034 | . 2034 |
| - Revised. ${ }^{2}$ Preliminary. ${ }^{1}$ Annual data; m <br> ${ }^{2}$ Average for 11 months. ${ }^{3}$ Less than 50 tons. <br> * New series. | onthly rev ${ }^{4}$ For $q$ | visions are quarter en | not avai ding in | able. onth sh | own. |  | Effective ncludes Produce | Dec. 197 econdar ' stocks | 1, nati y smel elsewh | wide d <br> ' lead <br> e, end | vered pr tocks in Aug. 19 | ice subs <br> 73, 7,800 | tuted for apes and hort ton | N.Y.-ba | asis price. per-base s | scrap. |


| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | . 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

METALS AND MANUFACTURES-Continued

| MACHINERY AND EQUIPMENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Foundry equipment (new), new orders, net mo. avg. shipments $1967=100$. | 84.2 | 75.4 | 58.4 | 90.0 | 101.1 | 58.2 | 101.1 | 74.6 | 83.9 | 113.6 | 108.7 | 84.6 | 166.5 | 119.7 |  |  |
| Heating, combustion, atmosphere equipment, new orders (domestic), net, qtrly $\qquad$ mil. \$. | 63.7 | 79.3 |  | 18.3 |  |  | 21.1 |  |  | 27.0 |  |  | 32.8 |  |  |  |
| Electric processing heating equip............do....- | 7.5 | 12.8 |  | 2.9 |  |  | 3.4 |  |  | 5.7 |  |  | 5.2 |  |  |  |
| Fuel-fired processing heating equip.........do.... | 30.3 | 41.3 |  | 9.7 |  |  | 11.4 |  |  | 13.0 |  |  | 18.9 |  |  |  |
| Material handing equipment (industrial): <br> Orders (new), index, seas. adj $\ddagger . . . . . . .-1967=100$. | 99.6 | 128.4 | 153.7 | 136.5 | 132.9 | 155.0 | 149.4 | 157.4 | 164.1 | 180.6 | 186.7 | 174.0 | 168.0 | 186.5 |  |  |
| Industrial trucks (electric), shipments: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 12,644 | 15,482 16,902 | 1,312 1,385 | 1,619 1,544 | 1,377 1,457 | 1,416 1,518 | 1,476 1,701 | 1,544 1,525 | 1,696 1,626 | 1,849 1,978 | 1,740 1,860 | 2,001 2,055 | $\begin{aligned} & 2,155 \\ & 1,947 \end{aligned}$ | 1,621 | 1,765 1,737 |  |
| Industrial trucks and tractors (internal combustion engines), shipmentstinumber | 36,645 | 40,698 | 1,385 2,940 | 1,544 | 3, 589 | 3,995 | 1,701 | 1,525 | 1,626 3,797 | 1,988 | 4, 260 | 4,654 | 4,865 | 1,361 | 1,737 |  |
| Industrial supplies, machinery and equipment: New orders index, seas. adjusted* $\dagger .1967-69=100 \ldots$ | 99.1 | 116.3 | 118.4 | 121.4 | 123.7 | 127.8 | 129.5 | 130.4 | 134.6 | 139.1 | 144.2 | 147.7 | 148.0 | 154.0 |  |  |
| Industrial suppliers distribution: <br> Sales index, seas. adjusted* $1967=100 \ldots$ | 104.7 | 120.3 | 120.7 | 120.4 | 118.9 | 123.5 | 121.5 | 130.5 | 129.4 | 129.9 | 135.4 | 140.0 | 143.4 | 144.8 | 154.4 | 146.8 |
| Machine tools: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Metal cutting type tools: <br> Orders, new (net), total $\qquad$ mil. \$ | 608. 75 | 1,008.95 | 77.60 | 97.50 | 94. 45 | 112.70 | 118.30 | 124.80 | 130.40 | 170.80 | 159.95 | 154.85 | 133.20 | 131.30 | p 126.20 |  |
| Domestic .-.-.-.-.-....................-do. | 524. 10 | 1, 877.25 | 69.45 | 76. 80 | 84.35 | 103.45 | 104. 20 | 103.25 | ${ }_{117.80}$ | 149.10 | 145.90 | 139.55 | 110.00 | 108.20 | D 110.40 |  |
|  | 672.30 | 714. 45 | 48.45 | 76. 25 | 63.85 | 66. 20 | 92.40 | 66.15 | 74.40 | 98.80 | 76.30 | 100.60 | 102.90 | 72.65 | p 78.00 |  |
|  | 554.20 | 627.15 | 44.05 | 65.00 | 56.05 | 58.80 | 83.45 | 58.60 | 67.40 | 83.95 | 68.80 | 84.55 | 90.40 | 63.15 | p 65.45 |  |
| Order backlog, end of period.-........--. do | 407.5 | 702.0 | 577.8 | 599.0 | 629.6 | 676.1 | 702.0 | 760.6 | 816.6 | 888.6 | 972.2 | 1,026.4 | 1,056.7 | 1,115.4 | p 1,163.6 |  |
| Metal forming type tools: Orders, new (net), total |  | 403. |  | 42.25 | 47,35 | 53.20 | 37.65 | 56.85 |  | 76.70 | 80.95 | 70.95 | 78.20 | 52.90 | $\bigcirc 59.55$ |  |
| Domestic | 223.20 | 368.20 | 29.70 | ${ }_{38.05}$ | 42.10 | 48.90 | ${ }_{34.10}$ | 49.55 | 66.40 | 72. 05 | 74.45 | 66.50 | 74.15 | 48.40 | - 53.70 |  |
| Shipments, | 325.60 | 304.25 | 19.30 | 19.95 | 27.40 | 30.65 | 25.95 | 27.15 | 28.70 | 35. 35 | 30.60 | 38.25 | 42.05 | 30.05 | ${ }^{\circ} 33.75$ |  |
| Domestic <br> Order backlog, end of period | 285.60 161.8 | 267.20 260.5 | 17.25 184.0 | 18.10 206.3 | ${ }_{226.2}^{25.95}$ | 26.05 248.8 | 21.45 260.5 | 25.70 290.2 | 25.85 334.0 | 33.55 375.4 | 28.60 425.8 | 35.30 458.5 | 39.85 494.6 | 27.45 517.4 | P 29.25 $>543.2$ |  |
| Tractors used in construction: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tracklaying, total....---.......---.........units.- | 1 18,520 | 21,225 |  | 5,157 |  |  | 4,591 |  |  | 6,405 |  |  | 6,467 | ${ }^{3} 1,793$ |  |  |
| Wheel (contractors' off-highway) | 1489.6 14.334 | 1546.0 15,056 1 |  | 135. 1,230 |  |  | 120.1 2940 |  |  |  |  |  |  | ${ }^{3} 54.4$ |  |  |
| Weel (contractors | ${ }_{1}^{1} 166.9$ | ${ }^{1} 198.5$ |  | 1, 49.4 |  |  | ${ }^{2} 35.1$ |  |  | 1,45.0 |  |  | ${ }_{2}^{1,77.7}$ |  |  |  |
| Tractor shovel loaders (integral units only), wheel and tracklaying types............................... | 127,145 | 46,052 |  | 10, 276 |  |  | 11,798 |  |  | 13,831 |  |  | 14,350 |  |  |  |
| Tractors, wheel (excl. garden and contractors' off- | 1640.9 | ${ }^{1} 801.7$ |  | 184.3 |  |  | 205.8 |  |  |  |  |  | 255.0 |  |  |  |
| highway types) ---.-......................................... | $\begin{array}{r} 1165,343 \\ 1891.9 \end{array}$ | $\begin{array}{r} 196,988 \\ 1,141.0 \end{array}$ |  | $\begin{gathered} 40,845 \\ 254.8 \end{gathered}$ |  |  | $50,466$ |  |  | $\begin{array}{r} 55,087 \\ \mathbf{3 4 5 . 6} \end{array}$ |  |  | $\begin{array}{r} 61,111 \\ 382.6 \end{array}$ | $\begin{array}{r} 311,829 \\ 383.0 \end{array}$ |  |  |
| ELECTRICAL EQUIP MENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Batteries (auto. replacement), shipments. . .thous.Electronic components, factory sales: $0^{7}$ | 39, 144 | 43,220 | 4,086 | 4,538 | 4, 553 | 4, 507 | 4,473 | 4,226 | 3,108 | 2,837 | 2,503 | 2,631 | 2, 807 | 2,915 | 4,120 |  |
| Semiconductors: <br> Discrete devices $\qquad$ mil. \$. | ${ }^{6} 621$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated circuits-.-.-....-..........do- | 534 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tubes, selected power and spec. purpose.......................... Microwave............ | $\begin{array}{r}1300 \\ 124 \\ \hline 1\end{array}$ | 323 150 |  |  |  |  | $\begin{array}{r} { }^{7} 166.6 \\ 779.4 \end{array}$ |  |  | 42.1 42.0 |  |  |  |  |  |  |
| Electro-optical.............................................. | $\begin{array}{r}124 \\ 180 \\ \hline\end{array}$ | 92 |  |  |  |  | ${ }^{7} 47.2$ |  |  | 27.8 |  |  |  |  |  |  |
| High vacuum, gas, and vapor | 176 | 82 |  |  |  |  | ${ }^{7} 39.9$ |  |  | 22.2 |  |  |  |  |  |  |
| Capacitors.....-.-.......................-. do...- | 435 | 438 | 34.7 | 39.2 | 40.3 | 37.9 | 39.7 | 543.2 | 44.5 | 50.8 | 50.3 | 52.6 | 53.3 |  |  |  |
| Motors and generators: <br> New orders, index, qtrly $\qquad$ $1967=100$. | 87.1 | 99.3 |  | 102.5 |  |  | 105.0 |  |  | 122.0 |  |  | 134.2 |  |  |  |
| Radio sets, total, production ${ }^{7}$.-............thous.. | 18,579 | 20, 086 | 1,543 | ${ }^{4} 2,194$ | 1,786 | 1,658 | 42,132 | 54,025 51,252 | 5,209 1,425 | 45,211 41,681 | 2,916 1,189 | 3,860 1,341 | 4 4 4 1 | 3,067 |  | 46,303 |
| Television sets (incl. combination), prod or-..do-... | 11, 197 | 13, 507 | 963 | +1,451 | 1,184 | 1, 200 | 41,353 | '1,252 | 1,425 | 4, 1,681 | 1,189 | 1,341 | 41,778 | 1,018 | $1,424$ | 11,778 |
| Household electrical appliances, factory sales: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Air conditioners (room).............-...--thous.- | 5,438 | 4, 508 | 129.7 | 82.1 | 137.4 | 157.2 | 293.1 | 486.8 |  |  |  |  |  | 306.2 272.4 |  |  |
| Dishwashers*-...-.---....................do....- | 2,477 | 3,199 2, 772 | 293.8 258.0 | 288.8 267.2 | 333.1 243.7 | 308.9 236.4 | 267.7 232.8 | 284.9 215.4 | 252.3 224.5 | 322.7 254.0 | 245.9 24.9 | 325.2 260.6 | 304.1 268.2 | 272.4 236.0 | 318.2 252.5 |  |
|  | 2, 714 | 3, 232 | 297.4 | 278.5 | 312.7 | 297.0 | 258.9 | 285. 2 | 240.0 | 293.8 | 286.4 | 311.9 | ${ }_{292.6}^{28.2}$ | 304.0 | 295.2 |  |
| Refrigerators | 5,691 | 6,315 | 629.2 | 521.5 | 606.5 | 502.2 | 409.5 | 472.3 | 452.8 | 579.8 | 554.1 | 623.8 | 618.5 | 703.2 | 707.8 |  |
| Washers ${ }^{\text {Dryers }}$ (incl. ${ }^{\text {a }}$ - | 4,608 | 1,107 3 3 |  |  | 496.5 | 439.0 384 | 381.9 <br> 335 | 457.2 379.3 | 417.2 318.2 | 464.8 331.9 | 428.5 305.4 | 476.0 309.3 | 463.4 3303 | 432.5 319.2 | 543.3 422.3 |  |
|  | 3,377 7,973 | 3,925 8,337 | 375.1 689.5 | 392.2 727 | 442.4 838.1 | 384.0 764.0 | 335.7 625.4 | 379.3 727.9 | 318.2 775.3 | 331.9 795.9 | 710.5 | 309.3 677.6 | 330.3 671.7 | 319.2 632.5 | 422.3 755.2 |  |
| GAS EQUIPMENT (RESIDENTIAL) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Furnaces, gravity and forced-air, shipments* thous.. | 1,795 | 2,066 | 184.1 | 193.6 | 216.0 | 178.2 | 157.2 | 163.9 | 133.0 | 161.8 | 148.8 | 145.5 | 135.9 | 147.8 | 141.3 |  |
|  | $\stackrel{2}{2,549}$ | ${ }^{2,661}$ | 238.7 | 253.1 | 232.3 | 224.1 | 218.2 | 174.8 | 105.9 278.9 | 260.9 280.3 | 206.3 | 230.6 | ${ }_{263}^{238} 7$ | ${ }^{166.8}$ | 210.4 |  |
| Water heaters (storage), automatic, sales* . ...do.... | 3,088 | 3,163 | 248.5 | 239.7 | 291.4 | 249.8 | 254.1 | 278.2 | 278.9 | 280.3 | 275.0 | $\pm 281.8$ | 263.1 | 223.0 | 247.7 | .......- |

PETROLEUM, COAL, AND PRODUCTS

| Anthracite: COAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8,727 | ${ }^{1} 6,637$ | 688 | 585 | 653 | 623 | 531 | 516 | 560 | 633 | 574 | 633 | 601 | 429 | - 580 | ${ }^{p} 610$ |
| Exports | 671 | -780 | 49 | 141 | 89 | 121 | $\stackrel{41}{4}$ | 40 | 5 | 93 | 58 | 91 | 72 | 33 | 95 |  |
| Price, wholesale, chestnut, f.o.b. car at mine ${ }_{\$}$ per sh, ${ }^{\text {an }}$ - | 17.673 | 18.228 | 18.130 | 19.110 | 19.110 | 19. 110 | 19.110 | 19.110 | 19.110 | 19.110 | 19.600 | 19.600 | 19.600 | 19.845 | 20.458 | 20,703 |
|  |  |  | 18.130 | 19.110 | 19,110 | 19.110 | 19.10 | 19.110 | 19.110 | 19.110 | 19.600 | 19.600 | 19.600 | 19.845 | 20.458 | 20,703 |
|  | 552,192 | +591,070 | 51,675 | - 49,375 | 51,180 | 49,805 | 44,460 | 48,740 | 44,960 | 49,640 | 40,620 | 51,020 | 46, 010 | r 43,675 | 55, 005 | - 48,785 |

r Revised. ${ }^{2}$ Preliminary. ${ }_{3}^{1}$ Annual data; revisions are not available. ${ }^{2}$ Excludes 4 figures for rubber-tired dozers. ${ }^{3}$ For month shown. ${ }^{3}$ Data cover 5 weeks; other periods, 4 weeks. ${ }^{5}$ See note " $\sigma$ "". 6 Monthly revisions are available upon request.

For 6 months ending in month shown.
SURVEY, appear at bottom of p. S-34, comparable with indexes shown eifective May 1973
o'Effective Jan. 1973, data reflect total market: Those produced in the United States, im-
ports by U.S. manufacturers for sale under their brand name and, beginning 1973, alse those
imported directly for resale. †Effective Mar. 1973 Survey, index revised back to 1968.
*New series. Industrial hardware supplies and machinery (marketed through distributors) orders index (Amer. Supply \& Mach. Mfrs. Assn.) and sales index (Natl. \& Southern Ind Distributors Assins.) are based on 2 -month moving average of selected members operations and are adjusted for no. of working days. Effective June 1933 surver, sales index revised ment (Gas Appliance Mrs. Assn.) reflect total industry sales. Monthly data prior to 1971 are available upon request.

| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan |  | Mar. | Apr. | May |  |  | Aug | Sept. |

## PETROLEUM, COAL, AND PRODUCTS—Continued

| COAL-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bituminous-Continued |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dustrial consumption and retail dellveries, totalo $\qquad$ thous. sh. tons | 494,862 | 519,689 | 44,891 | 42,286 | 43,362 | 44, 409 | 48,077 | 51,208 | 45,993 | 45,905 | 43,673 | 44,600 |  |  |  |  |
|  | 326, 280 | 348, ¢25 | 31, 470 | 28,800 | 28,967 | 29,691 | 32,286 | 34, 175 | 30, 425 | 30, 533 | 28, 868 | 29,655 |  |  |  |  |
| Mfg. and mining industries, total........-do... | 157,024 | 159,253 | 12,627 | 12,342 | 13,164 | 13,394 | 14,328 | 15,486 | 14,322 | 14,450 | 14, 262 | 14, 448 |  |  |  |  |
| Coke plants (oven and beehive).-.-....do. ${ }^{\text {do. }}$ | 82, 809 | 87, 272 | 7,360 | 7,040 | 7,345 | 7,165 | 7,630 | 7,804 | 7,182 | 7,950 | 7,727 | 8,048 |  |  |  |  |
| Retail deliveries to other consumers...-...do | 11,351 | 11,748 | 770 | 1,124 | 1,214 | 1,305 | 1,455 | 1,563 | 1,246 | 920 | 530 | 480 |  |  |  |  |
| Stocks, industrial and retail dealers', end of periort. total.- ------...................... thous. sh. tons. | 89,985 | p115, 313 | 12,855 | 114,346 | p117, 668 | P119,211 | P115,313 | p108,590 | P 106,422 | 109,065 | p 110,861 | P114,481 |  |  |  |  |
| Electric power utilities.------.-.-.-.-.-- do.-- | 76,987 | p98, 450 | 95, 397 | 97, 209 | จ100,656 | D101,953 | p98, 450 | p92, 279 | -89,516 | 1992, 246 | -92,971 | p97, 440 |  |  |  |  |
| Mfg . and mining industries, total....-...do | 12,778 | ${ }^{p 16,573}$ | 17, 128 | 16, 787 | -16,687 | -16,958 | -16,573 | ${ }^{p} 15,996$ | p 16,601 | 16,499 | -17,550 | p16, 681 |  |  |  |  |
|  | 7,199 | p8, 973 | 8,558 | 8,777 | -9,052 | -9,418 | - 88,973 | P8, 498 | p8,381 | 8,439 | P8,500 | p8, 821 |  |  |  |  |
| Retall dealers. | 220 | p290 | 340 | 350 | P325 | -300 | D290 | P315 | - 305 | ¢ 320 | - 340 | P360 |  |  |  |  |
| Exports. $\qquad$ do Prices, wholesale: | 56,633 | 55,960 | 6,337 | 4,923 | 5,173 | 5,380 | 3,392 | 2,954 | 2,669 | 3,377 | 5,063 | 5,140 | 4,969 | 4,188 | 5,133 |  |
| Screenings, indust. use, f.o.b. mine |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% per sh. ton. | 9.696 | 10.378 | 10, 146 | 10.426 | 10. 443 | 10.933 | 11. 209 | 11. 209 | 11.311 | 11. 160 | 11. 541 | 11.570 | 11.616 | 11.551 | 11.651 | 12.040 |
| Domestic, large sizes, f.o.b. mine .........do...- | 11.209 | 11.367 | 11. 120 | 11.120 | 11. 120 | 11.990 | 12. 240 | 12. 240 | 12. 240 | 11.267 | 11. 267 | 11.283 |  |  |  |  |
| Production: COKE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Beehive.....-.-.-.-.-.-.-.-.-.-. - thous. sh. tons.- | 772 | 654 | 54 | 54 | 53 | 62 | 70 | 53 | 62 | (3) | 64 | 66 | 60 | 64 |  |  |
|  | 56,664 | 59,853 | 5, 088 | 4,822 | 6, 026 | 4,914 | 6, 183 | 5. 364 | 4, 891 | 5,356 | 5, 262 | 5,454 | 5,325 | 5,307 |  |  |
|  | 21, 823 | 23,953 | 2, 239 | 2,112 | 2,219 | 2,148 | 2,254 | 2, 282 | 2,012 | 2,227 | 2,175 | 2,229 | 2,315 |  |  |  |
| Stocks, end of period: | 3,510 | 2941 | 3 | 3, 202 | 3.089 |  |  |  |  | 2291 |  |  |  |  |  |  |
| At furnace plants | 3,376 | 2,590 | 2,831 | 2,818 | 2, 729 | 3,011 | 2,941 | 2, 2,497 | 2, 269 | 2, 2939 | 2,035 | 1,796 | 1, 1,772 | 1,367 |  |  |
|  | , 134 | , 351 | ${ }^{2,855}$ | , 384 | , 360 | ${ }^{2}, 349$ | , 351 | ${ }^{2}, 326$ | ${ }^{2} 291$ | , 252 | 1, 206 | 159 | 1, 139 | 148 |  |  |
|  | 1,489 | 1,563 | 1,613 | 1,548 | 1,570 | 1,485 | 1, 663 | 1,720 | 1,795 | 1,948 | 1,895 | 1,922 | 1,965 | 2,057 |  |  |
| Exports | 1,509 | 1,232 | 74 | 130 | 132 | - 80 | 179 | - 76 | 34 | 114 | 61 | 227 | 108 | 119 | 111 |  |
| PETROLEUM AND PRODUCTS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Crude petroleum: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oil wells completed....---------------number-- | ${ }^{2} 11,858$ | 11,348 | 946 | 1,065 | 792 | 860 | 985 | 758 | 777 | 953 | 699 | 749 | 767 | 912 | 724 |  |
| Price at wells (Oklahoma).............. per bhl.- | 3.41 | 3.45 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.56 | 3.77 | 3.77 | 4.13 | 4.11 | 4. 11 | 4.12 |
|  | 4,087.8 | 4,281.6 | 369.4 | 363.4 | 368.1 | 355.6 | 375. 5 | 377.9 | 341.2 | 378.2 | 366.2 | - 380.7 | 385.9 | 395.2 |  |  |
| Refinery operating ratio....------\% of capacity -- | 86 | 88 | 89 | 91 | 89 | 89 | 91 | 91 | 90 | 90 | 90 | 90 | 94 |  |  |  |
| All oils, supply, demand, and stocks: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New supply, totalor---.-....---..........mil. bbl- | 5,510.7 | 5,837. 3 | 487.5 | 478.3 | 508.5 | 485.1 | 520.7 | 517.6 | 490.7 | 543.0 | 497.8 | 523.6 | 505.3 | 544.1 |  |  |
| Produrtion: |  |  |  |  |  | 48 |  |  |  |  |  |  |  |  |  |  |
|  | 3,453.9 6 | 3,459.1 | 294.9 54.5 | 284.3 52.8 | 294.3 <br> 55.3 | 283.3 53.4 | 289.8 54.0 | 284.6 52.9 | 262.5 49.8 | 284.4 54.8 | 277.0 53.2 | 288.4 54.9 | 276.3 52.6 | 285.0 54.8 |  |  |
| Imports: |  |  |  | 5.8 |  | 53.4 | 64.0 |  |  |  | 53.2 | 64.9 |  | 54.8 |  |  |
| Crude and unfinished oils....-..........do....- | 658.6 | 856.8 | 69.1 | 74.9 | 82.2 | 72.8 | 87.4 | 88.0 | 82.9 | 102.2 | 96.2 | 103.7 | 101.3 | 113.0 |  |  |
|  | 774.3 | 878.4 | 69.1 | 66.3 | 76.6 | 75.6 | 89.6 | 92.2 | 95.5 | 101.6 | 71.4 | 76.7 | 75.1 | 78.3 |  |  |
| Change in stocks, nll oils (decrease | 26.1 | -85.0 | 1.9 | 20.9 | 4.4 | $-36.7$ | -54.9 | -53.3 | -38.8 | 20.5 | 25.9 | 20.4 | 24.3 | 26.7 |  |  |
| Demand, total | 5,499.4 | 5,929.6 | 487.6 | 459.3 | 503.5 | 523.5 | 574.6 | 571.4 | 526.5 | 527.9 | 475.1 | 505.9 | 486.2 | 502.8 |  |  |
|  | . 5 | . 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 1 |  | 2 |  |  |
|  | 81.3 | 81.3 | 7.2 | 6.9 | 7.3 | 7.4 | 7.5 | 6.5 | 7.3 | 6.9 | 8.3 | 7.2 | 6. 4 | 7.2 |  |  |
| Domestic demand, total \% ....---.-........do..... | 5, 417.6 | 5,848. 1 | 480.4 | 452.4 | 496.2 | 516.1 | 567.1 | 564.9 | 519.2 | 520.9 | 466.9 | 498.6 | 479.7 | 495.4 |  |  |
|  | 2, 213.2 | 2, 350.4 | 216.6 | 194.9 | 198.5 | 195.5 | 198.8 | 190.9 | 181.5 | 203.2 | 197.5 | 215.7 | 210.3 | 218.9 |  |  |
|  | 90.9 | 85.9 | 5.3 | 5.9 | 7.4 | 8.6 | 11.4 | 12.6 | 10.8 | 6.2 | 4.9 | 4.1 | 3.5 | 4.6 |  |  |
|  | 971.3 | 1, 066.0 | 64.0 | 66.2 | 85.5 | 101.5 | 131.2 | 128.2 | 118.8 | 102.7 | 79.0 | 82.2 | 72.4 | 73.8 |  |  |
|  | 838.0 | 925.6 | 70.1 | 67.1 | 73.2 | 85.3 | 97.6 | 101. 1 | 92.5 | 95.2 | 74.2 | 78.1 | 78.0 | 75.3 |  |  |
|  | 368.7 | 382.5 | 29.3 | 31.0 | 36.3 | 31.5 | 31.9 | 34.4 | 30.5 | 30.8 | 30.4 | 34.5 | 30.2 | 32.4 |  |  |
|  | 49.3 | 52.8 | 4.7 | 4.3 | 4.6 | 4.6 | 3.9 | 4.6 | 4.6 | 4.9 | 4.4 | 5.1 | 4.5 | 5.4 |  |  |
|  | 158.5 | 163. 8 | 24.2 | 19.7 | 17.6 | 11.1 | 6.8 | 5.6 | 5.4 | 8.1 | 11.3 | 16.1 | 20.1 | 23.4 |  |  |
|  | 456.8 | 515.3 | 38.2 | 37.0 | 46.9 | 52.6 | 60.0 | 61.8 | 52.0 | 43.6 | 38.9 | 39.3 | 34.5 | 34.2 |  |  |
| Stocks, end of period, total ....-............-do. | 1,043.9 | 959.0 | 1,025.3 | 1,046.2 | 1,050.6 | 1,013.9 | 959.0 | 905.7 | 866.9 | 887.4 | 913.3 | 933.7 | 958.0 | 984.7 |  |  |
| Cruce netrolenrn.-....-........-.........do- | 259.6 | 246.4 | 258.0 | 250.8 | 1,253.7 | 1, 251.3 | 246.4 | 237.5 | 235.4 | 244.1 | 248.8 | 257.9 | 248.9 | 243.7 |  |  |
| Unfinished oils, natural gasoline, etc..... ${ }^{\text {do }}$ do Refined products.....................do | 106.8 | 100.8 | 111.9 | 113.1 | 110.2 | 107.5 | 100.8 | 94.0 | 93.7 | 103.6 | 111.6 | 112.7 | 111.0 | 109.4 |  |  |
|  | 677.5 | 611.7 | 655.4 | 682.3 | 686.6 | 655.1 | 611.7 | 574.3 | 537.8 | 539.7 | 552.9 | 563.1 | 598.2 | 631.6 |  |  |
| Refined petroleum products: Gasoline (incl |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2, 202.6 | 2,320.0 | 206.2 | 199.8 | 204.6 | 194.9 | 200.7 | 197.9 | 173.0 |  |  |  |  |  |  |  |
|  | 2, 1.6 | 2,300 | (1) | 190.8 | 2.2 | ${ }_{\text {(1) }}^{194} 9$ | (I) | (1) | 173.0 .2 | 192.2 | 192.9 | 209.8 .8 | ${ }_{\text {(1) }} 11.3$ |  |  |  |
| Stocks, end of period | 223.8 | 217.1 | 196.8 | 203.7 | 211.7 | 213.2 | 217.1 | 226.0 | 220.0 | 211.1 | 208.2 | 205.3 | 211.6 | 215.0 |  |  |
| Prices (excl. aviation): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wholesale, ref. (Okla., group 3) --- \$ per gal -- | . 120 | . 119 | . 120 | . 120 | . 120 | . 120 | . 120 | . 120 | . 125 | . 130 | . 130 | . 133 | . 145 | . 145 | . 145 | . 145 |
| Retail (regolar grade, excl. taxes), 55 cities (1st of following mo.) $\qquad$ \$ per gal. | . 252 | . 245 | . 261 | . 254 | . 250 |  | . 253 | . 248 |  |  |  |  |  |  |  |  |
| A viation gasoline: | . 252 | . 245 | . 261 | . 254 | . 250 | . 252 | . 253 | . 248 | . 259 | . 263 | . 265 | . 268 | . 268 | . 268 | . 267 |  |
|  | 18.5 | 17.0 | (1) 6 | 1.4 | 1.7 | 1.5 | 1.2 | 1.0 | (1) 8 | 1.2 | 1.2 | 1.4 | 1.3 |  |  |  |
|  | 1.2 4.4 | .5 4.3 | ${ }^{(1)} 3.8$ | (1) 3 | ${ }^{(1)}$ | (1) | ${ }_{4}{ }^{1}$ | ${ }^{(1)}$ | (1) | 3.1 | (1) | (1) | (1) | (1) |  |  |
|  | 4.4 | 4.3 | 3.8 | 3.8 | 3.8 | 4.1 | 4.3 | 4.0 | 3.6 | 3.3 | 3.3 | 3.1 | 3.1 | 3.4 |  | -....-. |
|  | 87.5 | 80.1 | 5. 9 | 6.7 | 6.4 | 7.8 | 9.0 | 9.5 | 9.4 | 8.0 | 6.6 | 5.2 | 4.5 |  |  |  |
| Stocks, end of period.-...-.-.-.-.-. | 24.4 | 19.1 | 22.1 | 22.9 | 22.0 | 21.4 | 19.1 | 16.0 | 14.6 | 16.4 | 18.1 | 19.1 | 20.2 | 20.5 |  |  |
| Price, wholesale, bulk lots (N.Y. Harhor) <br> \$ per gal. | . 126 | . 127 | 127 | 127 | . 127 | . 127 | . 127 | . 127 | . 138 | . 138 | . 138 | . 138 | . 138 | . 138 | . 138 | . 138 |
| ${ }^{5}$ Revised. ${ }^{p}$ Preliminary. ${ }^{1}$ Less than 50 thousand barrels. ${ }_{2}$ Reflects rev not available by months. <br> ${ }^{2}$ Withheld to avoid disclosing individual company data. <br> \& Includes data not shown separately. § Includes nonmarketable catalyst coke. |  |  |  |  |  | $\bigcirc$ Includes small amounts of "other hydrocarbons and shown separately. <br> NOTE FOR P. S-34-Industrial trucks and tractors: <br> TRevisions for 1971 appear in July 1973 Survey, p. S-35. |  |  |  |  |  |  | d hydrog | en refin | inpu | t," not |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shownin the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nor. | Dec. | Jan | Feb. | Mar. | Apr. | May | June | July | Aug. | Sopt. |

PETROLEUM, COAL, AND PRODUCTS-Continued


PULP, PAPER, AND PAPER PRODUCTS

| PULPWOOD AND WASTE PAPER Pulpwood: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Recelpts.--...-------- thous. cords (128 cu. ft.).- | 67, 220 | 67, 680 | ${ }_{5}^{6,031}$ | 5,795 | 5,944 | ${ }_{5}^{5,597}$ | 5, 294 | 5,458 | 5,693 | 5,994 | 5,603 | 6,027 | 6,234 | 5,998 |  |  |
| Consumption-.-.-.-...-..........---...- do...- | 67,501 | 69,170 5,165 | 5,927 5,651 | 5,615 5,779 | 6,084 5,697 | 5,852 5,453 | 5, 609 5,165 | 5,905 4,701 | 5,707 4,734 | 6,044 4,636 | 5,897 4,343 | 6,133 4,291 | 6,074 $r$ 4,330 | 5,845 4,421 |  |  |
| Waste paper: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Consumption...--........-...-.thous. sh. tons. | 10,997 | 11,269 | 1,000 | 931 | 1,010 | 971 | 898 | 1,008 | 950 | 1,078 | 1,012 | 1,059 | -1,032 | 919 |  |  |
| Stocks, end of period.........................do...- | 558 | 626 | 566 | 564 | 585 | 604 | 626 | 608 | 575 | 546 | 509 | 495 | r 472 | 491 |  |  |
| WOODPULP |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Protal, all grades .-..............-thous. sh. tons. | 43,933 | 46,341 | 3,991 | 3,668 | 4,123 | 3. 876 | 3,662 | 4,054 | 3,743 | 4,217 | 3,983 | 4,189 | - 4, 058 | 3,928 |  |  |
| Dissolving and spectal alpha.............-do... | 1,671 | 1,676 | ${ }^{138}$ | ${ }^{133}$ | 144 | ${ }^{143}$ | ${ }^{129}$ | 145 | 129 | ${ }^{2} 155$ | ${ }^{125}$ | ${ }_{141}$ | - 4 , 148 | , 118 |  |  |
|  | 29,551 | 31, 255 | 2,685 | 2,468 | 2,788 | 2,600 | 2,468 | 2,748 | 2,536 | 2,845 | 2,715 | 2,838 | + 2,714 | 2,663 |  |  |
|  | 2, 101 | 2,129 | ${ }^{2} 183$ | ${ }^{2} 185$ | 200 | 2, 178 | ${ }^{165}$ | 186 | 2, 173 | 206 | ${ }^{2} 186$ | ${ }^{2} 197$ | ${ }^{2} 198$ | 185 |  |  |
|  | 4,462 | 4,617 | 390 | 346 | 380 | 376 | 355 | 375 | 351 | 390 | 365 | 409 | 412 | 393 |  |  |
| Defibrated or exploded.-.-.---.-....-.-.-. - do. | 2,405 | 2,720 | 256 | 216 | 266 | 255 | 229 | 255 | 249 | 271 | 257 | 264 | 253 | 253 |  |  |
| Soda, semichem., screenings, etc..........do.. | 3,743 | 3,943 | 337 | 320 | 345 | 325 | 317 | 343 | 305 | 351 | 335 | 339 | 333 | 317 |  |  |
| Stocks, end of period: <br> Total, all mills. | 1.093 | 803 | 914 | 866 | 862 | 839 | 803 | 797 | 791 | 788 | 777 | 782 | 807 | 797 |  |  |
|  | ${ }_{623}$ | 323 | 430 | 392 | 399 | 371 | 323 | 357 | 350 | 341 | 330 | 324 | 343 | 318 |  |  |
|  | 398 | 393 | 411 | 402 | 388 | 390 | 393 | 370 | 376 | 381 | 377 | 379 | -385 | 400 |  |  |
|  | 71 | 86 | 73 | 73 | 75 | 78 | 86 | 69 | 65 | 66 | 70 | 78 | 79 | 79 |  |  |
| Exports, all grades, total --.................-do.. | ${ }^{12,175}$ | ${ }^{1} 2,253$ | 175 | 196 | 195 | 229 | 150 | 174 | 187 | 198 | 214 | 184 | 210 | 181 | 196 |  |
| Dissolving and special alpha................do... |  |  | 67 | 72 | 72 | 73 | 51 | 70 | 61 | 74 | 65 | 68 | 60 | 62 | 47 |  |
|  | ${ }^{1} 1,385$ | ${ }^{1} 1,460$ | 108 | 125 | 123 | 155 | 99 | 104 | 126 | 124 | 149 | 116 | 150 | 119 | 149 |  |
| Imports, all grades, total.......................do.. | ${ }^{1} 3,515$ | ${ }^{1} 3,728$ | 310 | 319 | 334 | 346 | 278 | 394 | 338 | 359 | 329 | 365 | 333 | 324 | 250 |  |
| Dissolving and special alpha.-.................do. ${ }^{\text {do. }}$ | 313 |  | 21 | 22 | 16 | 17 | 8 | 18 | 11 | 6 | 13 | 22 | 17 | 17 | 3 |  |
|  | 13,202 | ${ }^{1} 3,504$ | 331 | 342 | 319 | 363 | 271 | 376 | 327 | 353 | 316 | 343 | 315 | 307 | 247 |  |
| PAPER AND PAPER PRODUCTS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Paper and roard: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All grades, total, unadjusted...thous. sh. tons. | 55,032 | 69,310 | 5,232 | 4,734 | 5,258 | 6,065 | 4,612 |  | 4,856 | 5,416 | 5,171 | 5,505 | - 5, 196 | 4,909 |  |  |
|  | 23,817 | 25,320 | 2,205 | 2,003 | 2,227 | 2,178 | 2,039 | 2, 226 | 2,076 | 2,312 | $\stackrel{\text { 2, }}{2} 191$ | 2, 363 | r 2,213 | 2,121 |  |  |
| Paperhoard.-.-....-.-.-.-.-...........do | 26,103 | 28, 637 | 2,532 | 2,285 | 2, 552 | 2,449 | 2,171 | 2,485 | 2,338 | 2,605 | 2,487 | 2,633 | - 2,509 | 2,325 |  |  |
| Wet-machtne board --.-.---------- do- | 137 |  | 12 | 12 | ${ }^{16}$ | ${ }^{11}$ | -10 | 2, 12 | 11 | , 11 | 2, 11 | 2, 12 | $\xrightarrow{+12}$ | 2, 10 |  |  |
| Wholesale price inderes: | 4,975 | 5,217 | 483 | 434 | 467 | 428 | 392 | 425 | 432 | 488 | 482 | 497 | 「 462 | 453 |  |  |
| Book naper, A grade.....-........... 1967=100.. | 110.6 | 109.0 | 108.8 | 108.8 | 109.6 | 109.6 | 109.6 | 109.6 | 109.6 | 111.0 | 111.7 | 111.7 | 112.4 | 112.4 | - 112.4 | 112.4 |
|  | 102.4 | 105.5 | 106.0 | 106.5 | 106.8 | 106.8 | 107.1 | 108.2 | 109.7 | 110.7 | 113.0 | 114.6 | 116.7 | 116.7 | 116.7 | 116.7 |
| Building paper and board........-.......-do...-. | 103.0 | 106.4 | 107.2 | 107.3 | 107.3 | 107.2 | 107.2 | 107.1 | 108.1 | 108.5 | 109.3 | 110.8 | 111.7 | 112.2 | 112.8 | 115.9 |

${ }^{r}$ Revised.
${ }^{1}$ Reported annual total; revisions not allocated to the months.

2 Less than 50 thousand barrels.
${ }^{1}$ Monthly data no longer furnished. 'Average for May and June.

| Unless other wise stated in footnotes below, data through 1970 and descriptive notes are as shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

PULP, PAPER, AND PAPER PRODUCTS-Continued

| PAPER AND PAPER PRODUCTS-Con. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Selected types of paper (API): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Orders, new ..................thous. sh. tons.. | 1,216 | 1,405 | 125 | 121 | 133 | 134 | 118 | 126 | 102 | 134 | 132 | 112 | 125 | 140 |  |  |
| Orders, unfilled, end of period.---.-...-do.... | 80 | 164 | 108 | 117 | 131 | 154 | 164 | 174 | 188 | 181 | 205 | 192 | 195 | 222 |  |  |
| Shipments........-.......................-do...- | 1,229 | 1,317 | 118 | 113 | 120 | 115 | 107 | 115 | 99 | 121 | 107 | 124 | 123 | 117 |  |  |
| Coated paper: Orders, new | 3,255 | 3,630 | 316 | 325 | 335 | 310 | 298 | 332 | 348 | 354 | 329 | 344 | 318 | 304 |  |  |
| Orders, unfilled, end of period.............do.... | 287 | 393 | 345 | 365 | 374 | 372 | 393 | 379 | 445 | 448 | 457 | 462 | 462 | 437 |  |  |
| Shipments - ............-.-.-.-....do.do.-- | 3,251 | 3,522 | 315 | 299 | 321 | 314 | 291 | 314 | 302 | 346 | 316 | r 342 | 327 | 325 |  |  |
|  |  | 6, 089 | 501 | 519 | 554 | 536 | 508 | 566 | 554 | 647 | 586 | 616 | 598 | 510 |  |  |
| Shipments ...-.................-.........do... |  | 6,023 | 518 | 507 | 540 | 528 | 503 | - 560 | - 516 | 581 | 539 | - 590 | 565 | 530 |  |  |
| Unbleached kraft packaging and industrial converting papers: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Orders, new .-...........................do... | 3,868 | 4,039 | 346 | 318 | 368 | 342 | 324 | 303 | 316 | 366 | 331 | 355 | 319 | 323 |  |  |
| Orders, unfilled, end of period...........-d | 156 | 241 | ${ }^{176}$ | 189 | 204 | 218 | ${ }_{241}$ | 213 | 212 | 219 | 219 | 214 | 192 | 190 |  |  |
| Shipments-.................-...-.....- do | 3,755 | 3,916 3,978 | 333 | 303 | 337 | 339 | 326 | 「322 | 317 | ${ }_{343}^{347}$ | r 327 | r 354 | 331 | 322 |  |  |
|  | 3,750 | 3,978 | 339 | 322 | 352 | 333 | 314 | 349 | 320 | 353 | 339 | 349 | 334 | 304 |  |  |
| Newsprint: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 8,297 | 8,661 | $7{ }^{7} 4$ | 694 | 784 | 750 | 735 | 767 | 722 | 811 | 773 | 813 | 803 | 763 |  |  |
| Shipments from mills -------.-.-.-.-.- do-...- | 8,210 | 8,740 | 721 | 775 | 832 | 796 | 804 | 729 | 730 | 788 | 801 | 825 | 799 | 770 |  |  |
| Stocks at mills, end of period........-.-.do...- | 323 | 244 | 489 | 407 | 359 | 313 | 244 | 283 | 274 | 297 | 270 | 258 | 267 | 260 | 286 |  |
| United States: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 3,296 | 3,422 3,437 | 294 | ${ }_{277}^{260}$ | ${ }_{303}^{293}$ | 293 300 3 | 278 286 | 297 <br> 293 | 275 | 312 310 | 292 | 309 313 | 282 | 278 | 288 |  |
|  | 3,288 41 | $\begin{array}{r}3,437 \\ \\ \hline 27\end{array}$ | 298 68 | 51 | 41 | 3 | 288 27 | 293 31 | 271 35 | 312 36 | 290 38 | 34 3 | 35 | 278 35 | ${ }^{292}$ |  |
| Consumption hy publishers $0^{\text {r }}$ - - --..... do | 7, 057 | 7,569 | 605 | 625 | 701 | 698 | 661 | 610 | 585 | 671 | 682 | 702 | 642 | 620 | 610 |  |
| Stocks at period. $\qquad$ thous. sh. tons. | 705 | 544 | 627 | 617 | 583 | 539 | 544 | 573 | 601 | 637 | 637 | 642 | 671 | 670 | 628 |  |
|  | 6,881 | 7,101 | 553 | 562 | 615 | 640 | 650 | 710 | 578 | 679 | 634 | 656 | 678 | 606 | 586 |  |
| Price, rolls, contract, i.o.b. mill, freight allowed or delivered $\qquad$ | 157.00 | 163.20 | 163.70 | 163.70 | 163.70 | 163.70 | 163.70 | 163.70 | 166.70 | 167.75 | 168.88 | 168.58 | 168. 58 | 169.42 | 169.42 | 170.25 |
| Paperhoard (American Paper Institute): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Orders, new (weekly avg.)........thous. sh. tons.- | ${ }_{917}$ | 1578 | 556 1,397 | 543 1,420 | $\begin{array}{r}589 \\ 1,505 \\ \hline\end{array}$ | $\begin{array}{r}568 \\ \hline 1,481\end{array}$ | $\begin{array}{r}741 \\ 1,446 \\ \hline\end{array}$ | 526 1,599 | 611 1,664 |  |  |  |  | ${ }^{541}$ | 595 |  |
|  | ${ }_{601}^{917}$ | $\begin{array}{r}1,446 \\ \hline 549\end{array}$ | 1,397 563 | 1,420 | 1,505 575 | 1,481 +573 | $\begin{array}{r}1,446 \\ \hline 57\end{array}$ | $\begin{array}{r}1,599 \\ \hline 99\end{array}$ | 1, ${ }^{176}$ | $\begin{array}{r}1,792 \\ \hline 92\end{array}$ | 1,984 | 1,898 588 | 1,880 583 | 1, 518 | 1,903 | 1,909 548 |
| Paper products: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipping containers, corrugated and solid fiber, shipments. .-..............-mil. sq. ft. surf. area | 191,832 | 1211,926 | 15,858 | 21, 482 | 19,721 | 18,643 | 17,158 | 17,990 | 17,530 | 20,434 | 18, 192 | 19,758 | 19,591 | 16,762 | 20, 239 | 18,267 |
| Folding paper boxes.............thous. sh. tons.. | 2,445.0 | 2,525.0 | 221.5 | 216.2 | 230.7 | 208.7 | 219.1 | 210.0 | 194.2 | 221.6 | 207.3 |  | 210.3 | -188.5 | 226.2 |  |
| mil \$. | 1,250.0 | 1,330.0 | 117.4 | 115.2 | 123.6 | 111.5 | 118.2 | 113.4 | 105.6 | 120.6 | 112.9 | 116.3 | 117.2 | ${ }^{\text {r }} 104.4$ | 126.8 |  |

## RUBBER AND RUBBER PRODUCTS

| RUBBER |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Natural rubber: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ${ }_{133.32} 377$ | P640. $p 116$ | +55.25 | 54.08 109.47 | 58.47 109.59 | 112.30 | 52.88 116.72 | ${ }^{2}$ 2 58.08 | [66.83 | 63.15 120.47 | 59.43 117.54 | 57.34 116.17 | 54.46 111.08 | 48.97 111.49 | 57.73 115.17 |  |
| Imports, incl. latex and guayule---------- do | 612.72 | 602.16 | 50.65 | 39.30 | 54.73 | 55. 32 | 56.04 | 57.67 | 48.09 | 59.44 | 43.26 | 55.48 | 53.44 | 40.71 | 66. 26 |  |
| Price, wholesale, smoked sheets (N.Y.)..\$ per lb | . 180 | 181 | 75 | 180 | 194 | 205 | 210 | 228 | 255 | . 286 | . 308 | . 310 | . 368 | . 413 | '. 413 | . 364 |
| Synthetic rubber: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $2,241.00$ $2,104.87$ | $p 2,424.7$ $p 2,291.5$ | 202.74 191.90 | 200.44 195.26 | 211.64 210.19 | 201.65 | 199. 14 193 | ${ }_{2}^{2217.35} 2206.51$ | 209.17 199 | 218.54 220.64 | 223.63 199.03 | 222. 59 | 199.86 196.06 | $\begin{aligned} & 210.04 \\ & 180.33 \end{aligned}$ | $\begin{aligned} & 220.38 \\ & 209.48 \end{aligned}$ |  |
|  | 488.17 | ${ }^{2} 9495$ | 512.64 | 515.46 | 504.39 | 495.66 | 495. 68 | 2471.86 | 473.14 | 454.83 | ${ }_{461.63}^{19.6}$ | 469.41 | ${ }_{469.93}^{19 .}$ | 499.28 | 505.91 |  |
| Exports (Bu. of Census).........-.-.-....-. ${ }^{\text {do }}$ | 269.82 | 257.10 | 22.10 | 16.47 | 24.04 | 21.92 | 23.99 | 23. 65 | 22.20 | 22.99 | 22.36 | 24.18 | 23.58 | 20.86 | 18.96 |  |
| Reclaimed rubber: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production | 199.19 200.47 | ${ }_{\text {P194. }} 818758$ | 15.87 | 15.48 | 16.41 | 14.87 | 15. 20 | ${ }^{2} 19.08$ | 20.52 | 22.29 | 19.39 | 19.02 | 18. | 16.79 | 15.30 |  |
|  | 22.67 | ${ }^{1} 19.91$ | 20.74 | ${ }_{19}^{1987}$ | 19.17 | 19.29 | 19.91 | ( $\begin{aligned} & 219.98 \\ & 219.33\end{aligned}$ | 19.30 19.49 | 17.42 | +14.35 | - 13.42 | ${ }_{23.16}^{13.81}$ | 25.04 | ${ }_{23 .}^{11.78}$ |  |
| TIRES AND TUBES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pneumatic casings, automotive: <br> Production. thous. | 216,361 | 229,611 | 18,608 | 19,352 | 20,999 | 18,721 | 19,387 | 21,001 | 19,993 | 22, 229 | 19,193 | 18,693 | 17,752 | 14, 287 | 17,325 |  |
|  | 214,53 | 227, 965 | 19,628 | 21, 339 | 21, 840 | 17,647 | 15,677 | 17,769 | 17,780 | 22,352 | 23, 429 | 21,646 |  |  | 19,658 |  |
|  | ${ }^{58,941}$ | ${ }^{63,870}$ | 4,685 | 5,793 | 6, 201 | 5, 922 | 5, 1788 | 6,513 | 6, 054 | 7,114 | 6, 211 | 6, 360 | 6, 562 15,09 | $\begin{array}{r} 4,67 \\ 14,661 \end{array}$ | 4,473 |  |
| Replacement equipm Exports. | 153,646 1,953 | 161,766 2,328 | 14,781 162 | 15,308 238 | 15, ${ }_{224}$ | 11, 164 | 10,263 236 | 11,005 251 | 11, 204 | $\begin{array}{r}14,907 \\ \hline 330\end{array}$ | 16, ${ }_{268}$ | 14, 969 | $\begin{array}{r} 15,099 \\ 332 \end{array}$ | $\begin{array}{r} 14,462 \\ 300 \end{array}$ | 14, 293 |  |
| Stocks, end of period........-................do | 54,982 |  |  | 54,965 | 55,769 |  |  | 63,646 | 66,419 | 66,708 | 62, 872 | 60,485 |  | 52,341 | 50,392 |  |
| Exports (Bu. of Census) .-..................- do | 1,589 | 2, 127 | 225 | 161 | 211 | 180 |  | 236 | 131 | 310 | 295 | 404 | 440 | 349 |  |  |
| Inner tubes, automotive: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 35, 362 | 38,705 | 3, 282 | 3,227 | 3,323 | 3,166 | 2,950 | 3,425 | 3,564 | 3,836 | 3,364 | 3,438 | 3,233 | - 2,350 | 2,950 |  |
|  | 40, 476 | 41,774 | 3,615 | 3,498 | 3,878 | 3,392 | 2,977 | 3,804 | 3, 616 | 4,085 | 3,912 | 3,568 | 3,919 | 3,348 | 3, 688 |  |
| Stocks, end of period Exports (Bu. of Census) | 8, 271 | 9, 796 | 9,482 | 9,363 | 9, 144 | 9,168 | 9,391 | 9,605 | 9,896 | 10, 153 | 10, 175 | 10, 366 | 10, 214 | 9,633 67 | 9,311 |  |
| Exports (Bu. of Censu | 979 | 766 | 65 | 28 | 63 | 40 |  |  | 66 | 71 | 149 | 121 | 149 | 67 |  |  |
| ${ }^{5}$ Revised. ${ }^{p}$ Preliminary. ${ }^{1}$ Reported annual total; revisions not allocated to months. <br> 2 Publication of monthly rubber statistics was discontinued by the Census Bureau effective with the Dec. 1972 renort (Series M30A). Data beginning Jan. 1973 are from the Rubber Manufacturers Association and are not strictly comparable with earlier data. |  |  |  |  |  | $\ddagger$ Represents the sum of book paper, uncoated and writing and related papers formerly shown separately; data for new orders no longer available for the individual items. <br> o'As reported by publishers accounting for about 75 percent of total newsprint consumption. 8 Monthly data are averages for the 4-week period ending on Saturday nearest the end of the |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Unless otherwise stated in footnotes below, data through 1970 and descriptive notes are as shownin the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nor. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

STONE, CLAY, AND GLASS PRODUCTS

| PORTLAND CEMENT <br> Shipments, fnished cement $\qquad$ thous. bbl.- <br> CLAY CONSTRUCTION PRODUCTS <br> Shipments: <br> Brick, unglazed (common and face) | 1420,238 | 1 440,064 | 50,447 | 44, 426 | 46,048 | 33, 197 | 24,112 | 23,915 | 24, 824 | 33,606 | 36, 106 | 46, 452 | 47, 181 | 47,633 | 53, 138 | ........ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mill. standard brlek.- <br> Structural tile, except lacing. $\qquad$ thous. sh. tons | $\begin{array}{r}7,569.7 \\ 157 \\ \hline 150\end{array}$ | $8,402.2$ 100.5 | 836.2 8.1 | 725.1 7.0 | 752.0 7.2 | 699.6 6.1 | 569.8 5.2 | 616.8 5.1 | 610.2 5.8 5 | 782.4 7.3 | 783.6 6.4 | 861.7 | + $\begin{array}{r}862.1 \\ -8.3\end{array}$ | 867.1 9.2 |  |  |
| Sewer pipe and fittings, vitrified Facing tile (hollow), glazed and unglazed | 1,720.6 | 1,718.0 | 177.6 | 162.0 | 158.2 | 136.9 | 101.3 | 99.5 | 96.1 | 136.3 | 138.5 | 151.8 | -161.9 | 158.3 |  |  |
| mil. brick equivalent.- | 155.4 | 133.3 | 13.1 | 12.2 | 12.4 | 11.6 | 8.4 | 8.2 | 4.8.4 | '10.1 | ${ }^{6} 9.9$ | 11.7 | - 12.1 | 11.8 |  |  |
| Floor an <br> glazed <br> mil. sq. ft. | 276.1 | 307.9 | 29.0 | 25.9 | 27.5 | 24.3 | 21.3 | 24.4 | 22.2 | 26.8 | 26.4 | 27.3 | '26.0 | 25.1 |  |  |
|  | 117.4 | 122.1 | 122.1 | 122.1 | 123.7 | 124.1 | 124. 5 | 127.4 | 129.1 | 130.1 | 130.8 | 130.9 | 131.3 | 131.3 | 131.5 | 131.5 |
| GLASS and glass Products |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flat glass, mifrs.' shipments...----------.-.thous. \$. | 464,674 | 550,292 |  | 138,099 |  |  | 148,539 |  |  | 142,251 |  |  | 149,027 |  |  |  |
| Sheet (window) glass, shipments..........-do | 150, 344 | 157,187 |  |  |  |  | 37,704 |  |  | 37,519 |  |  |  |  |  |  |
| Plate and other flat glass, shipments...-...-do.. | 314, 330 | 393,105 |  | 99,672 |  |  | 110,835 |  |  | 104,732 |  |  | 110,259 |  |  |  |
| Glass containers: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production......-.....................thous. gross.. | 263, 780 | 267,347 | 24,589 | 21,155 | 24,351 | 21,014 | 18,622 | 22,253 | 22,320 | 25,089 | 23,076 | 24,772 | 24,456 |  |  |  |
| Shipments, domestic, total. do. | 255, 261 | 264, 869 | 25,233 | 22, 145 | 22,119 | 20,754 | 20,058 | 21, 281 | 19,537 | 23,567 | 21,881 | 26,458 | 23,816 |  |  |  |
| Food....................................- ${ }^{\text {do }}$ | 24,310 | 24,333 | 2,638 | 2,510 | 1,766 | 1,645 | 1,475 | 1,876 | 1,983 | 2,290 |  | 2,296 | 1,857 |  |  |  |
| Beverage..................................d. ${ }^{\text {do }}$ | 67, 552 | 71, 053 | 6,859 | 5, 557 | 5,257 | 5,201 | 5, 558 | 5,236 | 4, 756 | 5,880 | ${ }^{5}, 506$ | 7,030 | 7,094 |  |  |  |
| Beer-...-.-.-.........................- do. | 63,189 | 54, 404 | 5, 266 | 4,540 | 4, 436 | 3,903 | 4,013 | 4,217 | 3,902 | 5,289 | 5, 104 | 5,836 | 5,359 |  |  |  |
| Liquor and wine....--..................do | 21,146 | 22,425 | 1,870 | 1,806 | 2,132 | 2,052 | 1,837 | 1,865 | 1,652 | 2, 104 | 1,861 | 2,218 | 1,886 |  |  |  |
| Wide-mouth containers: <br> Food (incl. packer's tumblers, jelly glasses, and frult jars). $\qquad$ thous. gross Dairy products. $\qquad$ .........do. | 57, 208 305 | 58,241 | 5,505 23 | 4,877 22 | 5,426 26 | 4,892 | 4,359 21 | $\begin{array}{r}5,006 \\ \hline 20\end{array}$ | 4,378 14 | 4,749 $\mathbf{1 6}$ | $\begin{array}{r}4,483 \\ \hline 16\end{array}$ | $\begin{array}{r}5,692 \\ \hline 25\end{array}$ | 4,655 13 |  |  |  |
| Narrow-neck and Wide-mouth containers: <br> Medicinal and toilet.........................do.... <br> Household and industriai.....................do........... | 27,645 3,906 | 29,892 4,283 | 2, 6890 | 2, ${ }^{\mathbf{3 4 8 5}}$ | $\begin{array}{r}2,683 \\ \hline 93 \\ \hline\end{array}$ | 2,692 348 | $2,492$ | 2,694 | 2, ${ }^{\mathbf{4 5 6}}$ | 2,856 383 | 2,536 388 | ${ }^{2,925}$ | 2,682 370 |  |  |  |
| Stocks, end of period. $\qquad$ do.... GYPSUM AND PRODUCTS (QTRLY) | 35,652 | 35,842 | 36,604 | 35, 470 | 37,474 | 37, 424 | 35, 842 | 36,705 | 39,208 | 40,282 | 41,006 | 38,727 | 39, 200 |  |  |  |
| Production: <br> Crude gypsum $\qquad$ thous. sh. tons.- | 110,418 | ${ }^{1} 12,328$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Calcined............................................- ${ }^{\text {do... }}$ | 19,526 | i 12,005 |  | 3,115 |  |  | 3,020 |  |  | 3, 081 |  |  | 3,182 |  |  |  |
| Imports, crude gypsum......................-do...- | 16,094 | 7,718 |  | 2,179 |  |  | 1,995 |  |  | 1,572 |  |  | 1,904 |  |  |  |
| Sales of gypsum products: <br> Uncalcined. | 14,305 | 4,719 |  | 1,353 |  |  | 1,202 |  |  | 862 |  |  | 1,580 |  |  |  |
|  |  | 4,73 |  | 1,383 |  |  | 1,202 |  |  | 86 |  |  | 1,580 |  |  |  |
| Industrial plasters...................................... | 268 | 309 |  | 73 |  |  | 80 |  |  | 86 |  |  | 91 |  |  |  |
| Regular basecoat_--.--..-------.-.-. do. | 382 | 330 |  | 82 |  |  | 71 |  |  | 76 |  |  | 79 |  |  |  |
| All other (incl. Keene's cement)....-..-do. | 534 | 513 |  | 140 |  |  | 124 |  |  | 123 |  |  | 128 |  |  |  |
| Board products, total $\ominus$.-.-...........-mil. sq. ft .- | 11,939 | 14, 372 |  | 3,782 |  |  | 3,657 |  |  | 3, 661 |  |  | 3,812 |  |  |  |
|  | ${ }_{292}^{477}$ | ${ }_{357}^{451}$ |  | 118 96 |  |  | 102 |  |  | 110 97 |  |  | ${ }_{102}^{93}$ |  |  |  |
|  | 272 | 343 |  | 91 |  |  | 82 |  |  | 80 |  |  | 96 |  |  |  |
|  | 9,014 | 10,738 |  | 2,824 |  |  | 2,733 |  |  | 2,719 |  |  | 2,784 |  |  |  |
| Type X gypsum board.-................... do...- | 1,766 117 | 2, 204 |  | 596 57 |  |  | 587 60 |  |  | 603 52 |  |  | 678 60 |  |  |  |

TEXTILE PRODUCTS


| -21,121 | + 832 | 2 1, 178 | 933 | 966 | 2 1, 168 | 948 | - 942 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - 2549 | + 399 | 2561 | 429 | 453 | ${ }^{2} 556$ | 445 | 444 |  |  |  |
| +2563 | r 425 | 2604 | 494 | 501 | 2599 | 492 | r 488 | 2491 | -......- |  |
| 973 | 983 | 958 | 898 | 871 | 830 | 789 | r 800 |  |  |  |
| 416 | 408 | 407 | 367 | 352 | 342 | 321 | 310 |  |  |  |
| 550 | $50{ }^{7}$ | 545 | 524 | 513 | 483 | 462 | -484 | 2477 |  |  |
| 3,986 | 4,164 | 4,193 | 4,334 | 4,673 | 4,840 | 4,666 | \% 4,489 |  |  |  |
| 2,100 | 2,111 | 2,140 | 2, 192 | 2,338 | 2,432 | 2, 280 | 2, 174 |  |  |  |
| 1,854 | 2,010 | 2,000 | 2,087 | 2,283 | 2,358 | 2,337 | +2,272 | 2,132 | - |  |
| 9,308 | 11,603 | 12, 269 | 413,267 |  |  |  |  | 3 | 135 | 496 |
| 2739 | 544 | 2747 | $\begin{array}{r} 43,702 \\ 597 \end{array}$ | 601 | 2719 | 579 | 575 | -2573 | 566 | 613,123 |
| 13,696 | 12,333 | 10,890 | 9, 883 | 8,781 | 7,351 | 6,203 | 5,200 | + 3,779 | 15, 982 |  |
| 13,680 | 12,319 | 10,874 | 9, 866 | 8,766 | 7,336 | 6, 191 | 5,187 | -3,766 | 15,972 |  |
| 5,739 | 3,346 | 2,420 | 2,041 | 1,895 | 1,376 | 1,065 | 878 | 200 | 13,160 |  |
| 6,992 | 7,947 | 7,321 | 6,527 | 5,463 | 4,397 | 3,476 | 2,737 | -2,074 | 1,490 |  |
| 949 | 1,026 | 1,133 | 1,298 | 1,408 | 1,563 | 1,650 | 1,572 | r 1,492 | 1,322 |  |

orstocks (owned by weaving mils and billed and held for others) exclude bedsheeting,
toweling, and blanketing, and billed and held stocks of denims.) finished fabries; production
Unfiled orders cover wool apparel (including polyester-wool) find and stocks exclude figures for such finished fabrics. Orders also exclude bedsheeting, toweling, and blanketing.
$\Delta$ Cumulative gimnings to end of month indicated.

| Unless other wise stated in footnotes below, data through 1970 and descriptive notes are as shown In the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

TEXTILE PRODUCTS-Continued


R Revised. ${ }^{1}$ Season average. ${ }^{2}$ For 5 weeks; other months, 4 weeks. ${ }^{3}$ Less than 500 bales. ${ }^{4}$ Price not directly comparable with earlier data. ${ }_{6}$ \& Revised total; revisions not
 through May.
NNEW series. Effective with Aug. 1973 SURVEY, market price refers to Strict low middling
tor

Aug. 1971, prices are on $480-\mathrm{lb}$. net-weight bale basis (for eariier months, on $500-\mathrm{lb}$. gross weight bale basis); to compute comparable prices for earlier months, multiply farm price by 1.04167 and market price by 1.0438 . $\dagger$ Effective with the Oct. 1972 SURVEY, series restated on an unadjusted basis.
of Includes data not shown separately.
$\sigma^{\prime}$ Effective Nov. 1972, specifications were changed: Print cloth, to $64 \times \delta 6$; sheeting, to $47 \times 44$.

| Unless other wise stated in footnotes below, data through 1970 and descriptive notes are 98 shown in the 1971 edition of BUSINESS STATISTICS | 1971 | 1972 | 1972 |  |  |  |  | 1973 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Annual |  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |

TEXTILE PRODUCTS—Continued

| APPAREL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mostery, shipments-..--.-.....-thous. doz. pairs.- | 210, 872 | 228,723 | 23,058 | 20,613 | 22,044 | 20,223 | 14,420 | 15,747 | 16,237 | 20,354 | 17,805 | 17,875 | 22, 267 | 19,851 | 23,066 |  |
| Men's apparel, cuttings: $\ddagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sults............................- thous. units | 16,477 | 18,174 | -1,584 | -1,516 | -1,635 | -1,663 | 1,278 |  |  |  |  |  |  |  |  |  |
| Coats (separate). drass and sport --.---- do.--- | '14,403 | 18, 202 | 1,533 | $\stackrel{1}{1,630}$ | $\begin{array}{r}1,667 \\ \hline 1,650\end{array}$ |  | 1,304 |  |  |  |  |  |  |  |  |  |
| Trousers (separate), dress and sport ......do.... | 183,738 20,795 | $\underset{\text { 20,914 }}{182,034}$ |  | + $\begin{array}{r}\text { r } \\ \times 1 \\ \hline 1,738\end{array}$ | $\begin{array}{r}\text { r } \\ \mathbf{1} 14,750 \\ \hline 1800\end{array}$ | r $r$ r 1,18130 | 11, ${ }_{1}, 383$ |  |  |  |  |  |  |  |  |  |
| Women's, misses', junlors' apparel, cuttings: $\ddagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 20,690 | -20,877 | -2,181 | -2,001 | - 2,298 | -2,066 | 1,425 | 1,392 | 1,332 | 1,492 | 1,571 | 1.751 |  |  |  |  |
| Dresses----.-.---..........................-do--. | 233,926 | + 221.546 | -20,251 | -17,587 | -17,995 | - 17,188 | - 13,747 | 17,099 | 18,744 | 20, 864 | 20,648 | 16,614 |  |  |  |  |
|  |  | r $\mathbf{r}$ $\mathbf{1 3 , 3 2 4}$ $\mathbf{5}, 319$ | $\begin{array}{r}\text { ' } 1,324 \\ r \\ \hline 65\end{array}$ | $\xrightarrow{\cdot 1,202} \begin{array}{r}\text { r }\end{array}$ | ' 1,299 r 446 | [r $\begin{array}{r}\text { r } \\ r \\ r 330\end{array}$ | - $\begin{array}{r}1,004 \\ +270\end{array}$ | 1,405 | 1,589 680 | 1,722 | 1,677 | 1,753 |  |  |  |  |

## TRANSPORTATION EQUIPMENT

| AEROSPACE VEHICLES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Orders, new (net), qtrly. total.......-........mil. \$.- | 21, 553 | 23, 842 |  | 7,006 |  |  | 5,965 |  |  | - 7, 115 |  |  | 6,100 |  |  |  |
|  | 15, 229 | 14, 817 |  | 4,288 |  |  | 3,554 |  |  | r 3, 568 |  |  | 3, 710 |  |  |  |
| Prime contract.-.-.-.---.-.-.-.-.-.-.-.-.-.-.- do | 19,028 | 21, 274 |  | 6,413 |  |  | 5,254 |  |  | - 6, 381 |  |  | 5,568 |  |  |  |
| Sales (net), reculpts, or billings, qtrly total do...- | 21, 679 | 21, 499 |  | 5,442 |  |  | 5,674 |  |  | + 5, 637 |  |  | 6, 532 |  |  |  |
|  | 14, 114 | 13, 492 |  | 3,713 |  |  | 3,445 |  |  | - 3 , 403 |  |  | 3,723 |  |  |  |
| Backlog of orders, end of period $9 . . . . . . . . . . .-$ do | 24, 579 | 26,922 |  | 26,631 |  |  | 26,922 |  |  | + 28,400 |  |  | 27,968 |  |  |  |
|  | 13,997 | 15,322 |  | 15,213 |  |  | 15. 322 |  |  | r 15,487 |  |  | 15, 474 |  |  |  |
| Alrcraft (complete) and parts.................do... | 11,999 | 13, 060 |  | 12,733 |  |  | 13,060 |  |  | r 13,736 |  |  | 13, 507 |  |  |  |
| Engines (aircraft) and parts. $\qquad$ .do $\qquad$ Missiles, space vehtcle systems, engines, propul- | 2,281 | 2,572 |  | 2,591 |  |  | 2,572 |  |  | - 2 , 650 |  |  | 2,763 |  |  |  |
| Misslles, space vehtic systems, engines, propulslon units, and parts. <br> mil. $\$$ | 4,780 | 5,272 |  |  |  |  |  |  |  | - 5,553 |  |  |  |  |  |  |
| Other related operations (conversions, modificatlons), products, services............................. | 3,780 | 2,972 |  | 5,228 3,019 |  |  | 5,272 2,990 |  |  | r 6,563 - 2,923 |  |  | 5,256 2,785 |  |  |  |
| Alreraft (complete): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments | 2,973.9 | 3,231.8 | 228.9 | 192.9 | 270.0 | 297.1 | 334.8 | 277.1 | 390.6 | 364.6 | 435.8 | 599.6 | 436.9 | 332.2 |  |  |
| Airifame weight thous. Ib. | 1198,818 | 47,694 | 3,485 | 2,815 | 3,785 | 4, 076 | 4,555 | 3,912 | 5,436 | 5,462 | 7,121 | 7,698 | 5,376 | 4,630 |  |  |
|  | 11,906. 8 | 1,608.7 | 105.3 | 76.3 | 102.5 | 120.5 | 85.7 | 114.7 | 182.5 | 325.2 | 205.0 | 314.2 | 145.2 | 89.0 | 125.0 |  |
| MOTOR VEHICLES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Factory sales (from plants in U.S.), total....thous.- | 10,637.7 | 11, 270.7 | 552.4 | 1,050.2 | 1,135.6 | 1,111.0 | 907.6 | 1, 164.3 | 1,108.2 | 1,220. 0 | 1,096. 5 | 1,219.8 | 1,186. 3 | 949.1 | 640.1 | 2943.0 |
|  | $10,036.0$ $8,584.6$ | 10,646.8 | 516.5 | 987. 1 | 1,066.0 | 1,048.9 | 852.6 | 1,107.3 | 1, 053. 1 | 1,143.1 | 1,021.5 | 1,140.4 | 1,122.5 | 898.3 | 603.6 440.3 |  |
| Passenger cars, Donestic. | 8, 884.6 | $8,823.9$ <br> $8,352.5$ | 398.5 | 859.3 808.8 | 895.7 <br> 841 | 873.4 | 706.0 666.2 | 1, 900.5 | 855.1 815.5 | 941.2 882.8 | 844. 0 | 940.9 880.1 | 921.3 873.3 | 714.0 677.5 | 440.3 415.7 | 2721.5 |
| Trucks and buses, | 2,053.1 | 2, 446. 8 | 311.0 153.9 | 808.8 190.9 | 821.7 | 827.4 237.5 | 606.2 201.6 | 859.8 263.8 | 8153.2 | 882.8 278.7 | 252.5 | 278.9 | 265.0 | 235.1 | 199.7 | 2221.6 |
|  | 1,914.3 | 2,294. 4 | 145. 5 | 178.3 | 224.3 | 221.5 | 186.3 | 247.5 | 237.7 | 260.3 | 234.8 | 260.3 | 249.2 | 220.8 | 187.8 |  |
| Retall sales, new passenger cars : |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T'otal, not seasonally adjusted.............. thous.. | 10,250 | 10,949 | 813 | 879 | 1,069 | 1,032 | 848 | 876 | 920 | 1,143 | 1,024 | 1,145 | 1,086 | 960 | 838 | 875 |
| Domestics $\Delta$.-.-.-.............-.......-....- do...- | 8,681 | 9,327 | 6156 | 741 | 1,932 | 1,891 | 719 | 736 | 775 | 1,964 | ${ }^{1} 883$ | - 972 | -909 | 808 | 686 | 754 |
|  | 1. 568 | 1,622 | 157 | 138 | 137 | 141 | 128 | 140 | 146 | 179 | 162 | 173 | 177 | 152 | . 152 | 121 |
| Total, seasonally adjusted at annual rates...m |  |  | 11.1 | 11.9 | 11.2 | 11.6 | 11.1 | 12.1 | 12.3 | 13.0 | 12.4 | 12.5 | 11.6 | 11.9 | -11.6 | 11.6 |
|  <br> Imports $\Delta$............................................................ |  |  | 9.3 | 10.2 | 9.6 | 9.8 | 9.2 | 10.2 | 10.3 | 11.0 | 10.5 | 10.7 | 9.7 | 10.0 | -9.9 | 10.2 |
|  |  |  | 1.7 | 1.6 | 1.6 | 1.8 | 1.9 | 1.9 | 2.0 | 2.0 | 1.9 | 1.8 | 1.9 | 1.8 | 1.7 | 1.5 |
| Retail inventories, new cars (domestics), end of period: $\triangle$ <br> Not seasonally adjusted |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1,490 | 1,311 | 1,263 | 1,300 | 1,288 1,492 | 1,313 | 1,311 1,454 | 1,528 | 1,649 1,563 | 1,652 1,493 | 1,654 1,480 | 1,648 1,452 | 1,708 | 1,612 | 1,387 1,553 | 1,360 1,478 |
| Inventory-sales ratio, new cars (domestics) $\Delta$ ratio.- | 2.1 | 2.0 | 1.9 | 1.7 | 1.9 | 1.8 | 1.9 | 1.8 | 1.8 | 1.6 | 1.7 | 1.6 | 1.9 | 1.9 | r1.9 | 1.7 |
| Exports (Bureau of the Census): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Passenger cars (new), assembled...........thous.. | 386.64 | 410.25 | 19. 50 | 45. 89 | 46.36 | 38.06 | 39. 10 | 36.76 | 34.93 | 53.32 | 51.06 | 49.52 | 41.74 | 30.27 | 20.95 |  |
| To Canada | 348.40 | 376. 23 | 18.04 | 43.40 | 42.49 | 34. 04 | 34. 40 | 31.47 | 31.18 | 48.59 | 46. 94 | 45.81 | 38.24 | 26. 08 | 18.68 |  |
| Trucks and buses (new), assembled.........do.--- | 100.04 | 120.62 | 8.24 | 8.93 | 11.58 | 12.70 | 11.91 | 13. 13 | 12.76 | 15. 50 | 14.80 | 13.49 | 12.96 | 12.67 | 9.18 |  |
| Imports (Bureau of the Census): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Passenger cars (new) , complete units........ From Canada, total..................... | 2, 587.48 | $2,485.90$ 842.30 | 170.35 35.23 | 142.98 58.41 | 198.80 74.99 | 229.71 86.87 | 204.92 67.92 | 235.42 87.36 | 219.15 74.65 | $\begin{array}{r}246.53 \\ 89 \\ \hline 82\end{array}$ | 203.09 64.37 | 251.29 98.25 | 232.73 91.01 | 189.15 56.34 | 149.32 28.86 |  |
|  | 203.10 | 3 429.41 | 35.23 45.74 | ${ }^{\text {38. }} 31.31$ | 74.99 | 86.87 | 63.92 33.70 | 87.36 44.65 | 74.65 31.75 | 89. 82 38. 89 | 64. 36 37.36 | 51.39 | 91.01 48.41 | 56.34 37.68 | 39.79 |  |
|  | 103, 784 | 141. 143 | 11,680 | 11,635 | 13,383 | 11, 140 | 12,220 | 11,633 | 13,622 | 14,672 | 14, 205 | 14,573 | - 13,696 | 12,900 |  |  |
|  | 65,785 | 95, 281 | 8,175 | 7,934 | 8,900 | 7,476 | 8,228 | 7,524 | 8,612 | -9,599 | 8,950 | 9,222 | 9,000 | 8,791 |  |  |
| Trailer bodies and chassis (detachable), sold separately.-.......-.................................................. | 18, 809 | 33,664 | 2,895 | 3,442 | 3,444 | 3,208 | 3,550 | 3,385 | 3, 748 | 3,353 | 2,655 | 2,061 | 2,540 | 3,013 |  |  |
| Registrations (new vehicles): $\odot$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Passenger cars-............................-thous.. | $149,830.6$ | 1610,409.0 | 4947.8 | ${ }^{6} 823.6$ | ${ }^{8} 894.6$ | 6926.3 | - 970.5 | ${ }^{6} 806.4$ | ${ }^{8} 823.8$ | 6971.5 | C 942.8 | 11,035.9 | 01,040, 8 | 61,081.8 | 6979.6 |  |
| Imports, incl. domestically sponsored.... do.... | 1 ¢ $1,487.6$ | 101,516.2 | ${ }^{4} 156.9$ | - 140.2 | ${ }^{-125.5}$ | - 131.9 | - 133.9 | ${ }^{8} 106.9$ | ${ }^{8} 117.1$ | \$ 145.1 | ${ }^{5} 133.8$ | 5155.4 | 8159.3 | ${ }^{6} 164.2$ | ${ }^{-151.1}$ |  |
|  | 14,993.2 | 182,502.1 | 4215.5 | ${ }^{6} 184.7$ | ${ }^{6} 190.2$ | ${ }^{8} 235.0$ | - 251.0 | ${ }^{5} 193.8$ | - 202.8 | \$245. 2 | 5246.5 | ${ }^{5} 247.5$ | ${ }^{6} 274.6$ | - 277.5 | ${ }^{6} 275.0$ |  |
| RAILROAD EQUIPMENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frelght cars (all rallroads and private car lines): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments $\qquad$ number. | 155.331 | 47,460 | 3,389 | 3,199 | 4,131 | 3,969 | 4,069 | 4,782 | 4,475 | 5, 157 | 4,001 | 4,677 | 4, 647 | 3,727 | 4,464 |  |
| Equipment manufacturers $\qquad$ do. | 148,014 | 41,971 | 2, 822 | 2,619 | 3, 487 | 3,557 | 3,830 | 4,536 | 4,191 | 4,912 | 3,766 | 4,390 | 4,414 | 3,466 | 4,215 |  |
|  | 152,482 | 47,922 | 5, 112 | 5,095 | 3,316 | 5,357 | 4,725 | 5,425 | 9,811 | 5,484 | 13,994 | 6,551 | 11,664 | 5,582 | 5, 5,461 |  |
| Equipment manufacturers. <br> Unflled orders and of period $\qquad$ do. $\qquad$ | 146,913 | 42, 323 | 4,975 18 | 4,516 20 | 3, 316 | 4,957 | 4,708 | 5,084 | 8,661 | 5.433 | 13, 894 | 6,121 38 3 2 | 10,964 <br> 44 | 5,282 46,097 | $\begin{array}{r} 5,461 \\ 47067 \end{array}$ |  |
| Unfilled orders, end of period Eauinment manufaturers | 22, 221 | 21, 244 | 18,750 | 20,642 | 19, 822 | 21, 114 | 21, 244 | 22, 283 | 26, 134 | 26, 535 | 36,527 | 38, 027 | $44,469$ | 46, 097 | 47,067 |  |
|  | 18,753 | 17, 666 | 14,493 | 16,386 | 16,010 | 17, 314 | 17,666 | 18,610 | 23, 545 | 24, 140 | 34, 267 | 35,624 | 41,600 | 43,189 | 44, 408 |  |
| Number owned, end of period $\qquad$ thous.- | 1,422 | 1,411 | 1,424 | 1,424 | 1,412 | 1,413 | 1,411 | 1,409 | 1,409 | 1,408 | 1,407 | 1,403 | 1,402 | 1,401 | 1,396 |  |
| Held for repairs, \% of total owned Capacity (carrying), aggregate, end of period | 5.6 | 5.8 | 6.2 | 5.9 | 5.9 | 6.0 | 5.8 | 5.9 | 5.9 | 5.7 | 5.7 | 6. 8 | 5.8 | 6.0 | 6.1 |  |
| mil. tons.- | 97.14 | 98.08 | 98.56 | 98.64 | 97.95 | 98. 10 | 98.08 | 98.09 | 98.15 | 98.20 | 98.41 | 98.12 | 98.07 | 98.12 | 97.89 |  |
| Average per car -.....-...-................. tons.- | 68.29 | 69.53 | 69.19 | 69.27 | 69.35 | 69.44 | 69.53 | 69.61 | 69.64 | 69.74 | 69.83 | 69.93 | 69.97 | 70.06 | 70.12 | --.....- |

[^42]o Total includes backlog for nonrelated products and services and basic research. $\triangle$ Domestics include U.S.-type cars produced in the United States and Canada; imports over foreign-type cars and captive imports, and exclude domestics produced in Canada. TEffective Sept. 1973 Survey, data include imports of separat chassis and bodies; comparable data for Jan.-June 1972 appear in the sept. 1973 . C . Colk .
Excludes rallroad-owned private refrigerator cars and private line cars.

| SECTIONS |  |
| :---: | :---: |
| General: |  |
| Buninemaindicators | 1-7 |
| Commmodity prices. |  |
| Construction and res | 11,12 |
| Lahor force, employment, and earnin | -16 |
| Finance. | 16-21 |
| Foreiga trade of the United States.. | 21-23 |
| Tranoportation and communications | 23,24 |
| Industry: |  |
| Chemicals and allied products. | 24, 25 |
| Electric power and gas.... | 25,26 |
| Food and kindred products; tobscoc. | 26-30 |
| Leather and products. | 30 |
| Lamber and prorlucte. <br> Metals and manufactures. <br> Petroleum, coal, and producta. <br> Pulp, paper, and paper products. <br> 36, 37 |  |
|  |  |
|  |  |
|  |  |
| Rubber and rubber producta. <br> Stone, day, and glase products. .................. 38 <br>  |  |
|  |  |
|  |  |
|  |  |

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[^1]:    Source: Federal Reserve Board, Flow of Funds.

[^2]:    1. Excluding households and institutions.
[^3]:    2. This measure of profit per unit of constant dollar value added differs from profit per dollar of sales because (1) sales are usually stated in current prices for profit margin calculations and (2) sales are equal to the sum of value added plus expenditures for purchased inputs.
[^4]:    Note.-Percentages are based on seasonally adjusted unrounded data

[^5]:    (Continued on page 44)

[^6]:    Note. - Quarterly totals for the State personalincome series will not agree with the personal

[^7]:    Note.-Mr. Denison is a Senior Fellow of The Brookings Institution, Washington, D.C. The views expressed are those of the author and do not purport to represent the views of the other staff members, officers, or trustees of The Brookings Institution, or of the Bureau of Economic Analysis.
    Very helpful comments from Jack Alterman, Solomon Fabricant, George Jaszi, Jerome Mark, Beatrice Vaccara, and Allan Young are gratefully acknowledged. They share no responsibility for views expressed nor any errors committed.

[^8]:    1. Use in this article of "persons engaged in production" introduces minor inconsistencies with employment data used in these sources, which Include unpaid family workers and do not convert part-time workers to full-time equivalence.
    2. Delivered at a December 1972 Moscow meeting of, and to be published by, the International Economic Association.
[^9]:    3. The concept is similar to that described in Edward $F$. Denison, assisted by Jean-Pierre Poullier, Why Growth Rates Differ: Postwar Experience in Nine Western Countries (Brookings Institution, 1967). Data used, however, are
[^10]:    4. Edward F. Denison, "Industrial Composition of Na tional Income," Survey of Current Business, Vol. 28 (December 1948).
[^11]:    a. Includes "rest of the world" employment, trivial in size.
    b. Mainly bospitals.

    Source: Computed from table A-1 except that detall within "General government" is computed directly from pubished data of the Bureau of Economic Analysis.

[^12]:    5. Apartment houses actually have employment and account for a trivial proportion of the employment total, but I confine the measurement of the output of the "services of dwellings" to the amount attributable to capital and land and count both employees of apartment houses and the value of their output in nonresidential business.
[^13]:    6. We can, of course, only examine output as measured and productivity series that are obtained by use of measured output. The national accounts measure the quantities of goods and services that are purchased by individuals and by nonprofit organizations and government acting in their behalf. We know nothing about changes in the "amount" of "end products" (national defense, education, etc.) that governments and nonprofit organizations really provide to individuals by use of the resources (purchases from business and hired labor) that they buy, nor of the satisfactions that individuals obtain from their own purchases (including purchase of private household employment) and those of governments and institutions.
    7. I ignore a small amount of depreciation on institutional structures which is classified in the business sector in the national accounts.
[^14]:    8. My projection, in turn, was based on the details of projections published by the Bureau of Labor Statistics in 1970, but on the basis of later information I raised the BLS 1980 figure for total labor force and lowered the figures for military and private household employment. The original BLS projections were published in Special Labor Force Report 119, Sophia C. Travis, "The U.S. Labor Force: Projections to 1985," Reprint 2673 from Monthly Labor Review, Vol. 93 (February 1970), pp. 3-12, with supplementary tables added; Special Labor Force Report 122, Denis F. Johnston, "Education of Adult Workers: Projections to 1985," Reprint 2685 from Monthly Labor Review, Vol. 93 (August 1970), pp. 43-56; Patterns of U.S. Economic Growth: 1980 Projections of Final Demand, Interindustry Relationships, Output, Productivity, and Employment, Bulletin 1672 (1970); The U.S. Economy in 1980: A Summary of BLS Projections, Bulletin 1673 (1970).
[^15]:    9. The growth rate of output per unit of input in the whole economy is, aside from a trivial interaction term, the same as the contribution of output per unit of input to the growth rate of total output. The rates are from the new book cited earlier.
[^16]:    10. This result could be greatly changed if a year other than 1958 were used as the base for price deflation. The sign would be reversed if a late year were substituted.
[^17]:    11. The figure would have been 0.07 points if the growth rate of capital input had been higher by the same amount ( 0.46 points) as that of labor. My allowance for some effect on capital per worker cuts the figure to $\mathbf{0 . 0 5}$.
[^18]:    12. The effect is slightly unfavorable because the weight of the nonresidential business sector, in which productivity change occurs, is reduced.
[^19]:    13. The effect on output per man-hour was even bigger because the denominator was reduced, a consequence of the long reported hours in farming.
    14. The total drop of 9.8 percentage points from 1948 to 1969 compares with a drop of 8.5 percentage points in persons engaged in production, obtained from table 4. Unpaid family workers and part-time workers are responsible for the difference.
[^20]:    15. The estimates rest on two others: that if labor input (which allows for the composition of employment by education, sex, and percent of part-time employment as well as employment itself) in nonfarm nonresidential business is raised by any given percentage as a result of the shift from farming, the percentage increase in the national income which originates in nonfarm nonresidential business is 80 percent as large (approximately the labor share); and that if labor input in farming is reduced by any given percentage, the percentage reduction in nonresidential farm national income is only 30 percent as large. Fairly substantial changes in the latter estimate, which allows for the fact that labor has been drawn mainly from farms with little output, would not change the results very much.
[^21]:    16. The estimate cannot easily be related to the "persons engaged" data used here because they exclude unpaid family workers.
    17. Changes in the importance of nonfarm self-employment within this sector have already been discussed and require no additional attention.
[^22]:    18. Of course, the error may be a larger percentage of the change in output, and result in a larger percentage error in productivity change, in one group than in the other.
[^23]:    19. Appendix table A-1 shows that both industries expanded greatly from 1948 to 1969. Separate estimates for 1929 are not available.
[^24]:    20. I assume here that the whole approach of examining past productivity trends and employment shifts by industry in order to appraise future trends in the sector as a whole is useful. I shall argue subsequently that it is not.
[^25]:    21. Nothing in this discussion implies that industry output and productivity measures within nonresidential business lack valid uses. Included among such uses are those in which interest focuses upon interrelationships among changes in inputs, output, productivity, costs, and prices for individual industries and among industries.
[^26]:    23. The series are not adjusted for cyclical fluctuations because separate estimates of cyclical effects are not available for commodity and service production. It is because of cyclical fluctuations that all of the productivity series rise less in 1964-69 than in 1953-64; a decline in the rate of cyclically adjusted productivity advance is not implied.
[^27]:    24. Studies available in 1962 were summarized in Edward F. Denison, "Changes in Output per Man and Employment: Is the Relationship among Industries Positive or Negative?" (Committee for Economic Development, October 1962; processed). The main studies cited are W. E. G. Salter, Productivity and Technical Change, Cambridge Department of Applied Economics Monograph No. 6 (Cambridge University Press, 1960); John W. Kendrick, assisted by Maude R. Pech, Productivity Trends in the United States (Princeton University Press for National Burean of Economic Research, 1961); and Solomon Fabricant, Employment in Manufacturing, 1899-1999: An Analysis of Its Relation to the Volume of Production (National Bureau of Economic Research, 1942).
[^28]:    25. Both Salter and Kendrick found that industries that reduced factor input per unit of output most also reduced materials input per unit of output most. This is important in explaining the finding, becuase factor inputs are only part of the total costs of an industry and a given percentage reduction in factor input costs alone would yield a much smaller percentage reduction in price.
    26. The two-way division of the end products of nonresidential business did yield a declining share of total input and an above average increase in output per unit of input for services in 1929-53, and for commodities in 1953-69. This result may reflect only the aggregative character of the calculation. It does, however, illustrate lack of continuity both in changes in shares and in productivity performance.
[^29]:    27. Coal, of course, also illustrates the point that some productivity gains belong to no industry. It lost its share because other fuels were more satisfactory in many uses.
    28. For lumber and wood products somewhat different industries must be used in the two periods to secure a comparison.
[^30]:    1. These data and other information on the domestic and international operations of U.S. multinational companies were released by BEA in a publication entitled Special Survey of U.S. Multinational Companies, 1970; it can be purchased from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22151. Price \$3. Quote accession number COM-72-11392 when ordering.
[^31]:    2. See Special Survey of U.S. Multinational Companies, 1970, pages 9-10.
[^32]:    4. U.S. Department of Labor, Bureau of Labor Statistics, Bulletin 1312-9, Employment and Earnings in the United States, 1909-74, pp. 474 and 577.
[^33]:    6. A foreign affiliate is assigned to the industry in which its sales are most concentrated, even though it may have establishments operating in other industries. However, the incidence of multi-industry foreign affliates is probably lower than that of multi-industry U.S. parents, because a much lesser degree of consolidation was permitted on the reporting forms for affiliates. Thus the affiliate data classified by industry are probably somewhat closer to being on an establishment basis than are the parent data. It should be noted that a foreign affliate may be classified in an industry different from the industry in which its U.S. parent is classifled if the largest proportion of its sales is in a different industry. For example, table 1 shows employment in foreign affiliates which are themselves classified in manufacturing; it does not show employment in affiliates which, regardless of their own industry, have U.S. parents classified in manufacturing. If the foreign affliate employment data were broken down by industry of the U.S. parents, the proportion of affiliate employment in manufacturing would be somewhat higher, the proportion in petroleum virtually unchanged, and the proportion in all other industries lower than shown in table 1. This reflects the fact that U.S. parent companies in manufacturing often have affiliates in the "other industries" category-primarily mining and trade-rather than in manufacturing.
[^34]:    ${ }^{(D)}$ Suppressed to avoid disclosure of data for individual reporters.

[^35]:    ${ }^{r}$ Revised. ${ }^{p}$ Preliminary. ${ }^{1}$ Computed from cumnlative valuation total. ${ }^{2}$ Index as of Oct. 1, 1973: Building, 172.3; construction, 180.0. ©Data for Aug. and Nov. 1972 and Mar., May, and Aug. 1973 are for 5 weeks; other months, 4 weeks. of Includes data for items not shown separately. §Data include guaranteed direct loans sold. o New base; com-

[^36]:    "Revised. ${ }^{1}$ Advance estimate. $\dagger$ See note marked " $\ddagger$ " on p. S-11. $\ddagger$ Series revised to reflect benchmarking to the levels of the 1968-71 Annual Retail Trade Reports (Census Bureau), and also recalculation of seasonal factors for all lines of trade; description of revisions
    and revised data appear on $p$. 55 ff. of the Dec. 1971 SURvEY (1968-69) and pp. $24-25$ of the

[^37]:    ${ }^{-}$Revised. ${ }^{p}$ Preliminary. ${ }^{1}$ See note " 8 ", this page. ${ }^{2}$ Beginning Dec. 1971, data on new basis reffect inclucion of raper issued directly by real estate investment trusts and several additional finance companies. § Insured unemployment (all programs) data include claims filed under extended duration provisions of regular State laws; amounts paid under the programs are excluded from the annual figure and, beginning Jan. 1973, from $\dagger$ Revised (back to 1951) to reflect new seasonals and other modifications.

[^38]:    OInsured unemployment as $\%$ of average covered employment in a 12 -month period.
    $\oplus$ Series revised to reflect recalculation of seasonal factors and trading-day adjustment; revisions back to 1964 are shown in the July 1972 Federal Reserve Bulletin, p. $634 . \quad \ddagger$ See note " $\ddagger$ ", p. S-13.
    Includes Boston include some cities and counties not designated as SMSA's.
    onseles Beach includes data not shown separatoly Angeles-Long Beach. $\&$ Includes data not shown separately.

[^39]:    * Revised. p Preliminary.

    O Includes data not shown separately.

[^40]:    ${ }^{D}$ Revised, ${ }^{D}$ Priminary. ${ }^{1}$ Number of carriers filing complete reports for the year. uted to the monthly or quarterly data. ${ }^{3}$ For 4 . ${ }^{4}$ An qual total reflects revisions not distribprior period items. ${ }_{7}$ quarterly data. 5 For $2 d$ qtr. 1972 . ${ }^{6}$ Before extraordinary and months ending in month shown. 0 For 3 d qtr. 1971 . 10 Beginning 1973, data refer to net income after extraordinary and prior period charges and credits and not to expenses.
    ${ }^{11}$ For 1 st qtr. 1972.12 For 66 carriers.
    $\Delta$ Quarterly data beginning 1973 (and restated 1972 figures) are for large class I motor carriers and include operations of most of those with annual revenues of $\$ 30$ mil. in 1972 . Tonnage

[^41]:    ${ }^{2}$ Effective May 1971, data are for 5 markets: beginning April 1972, for 4 markets.
    a Beginning Jan. 1972, price for East Coast (New York and Philadelphia average).

[^42]:    - Revised, ${ }^{1}$ Annual total includec revisions not distributed by months. ${ }^{2}$ Estimate
    of production. not factory sales. Effective Feb. 1972, imports include trucks valued less than $\$ 1,000$ rach. ${ }^{4}$ Excludes 1 State. ${ }^{5}$ Excludes 4 States. ${ }^{6}$ Excludes 2 States. $\ddagger$ Revisions aprear in Census reports, Men's and Women's Selected Monthly Apparel Cut-
    1973, a new panel of items is planned for men's apparel; data are not presently available.

